

CLOSE TO OUR CUSTOMERS



WIRTGEN GROUP



Parts and More 2017

WIRTGEN / VÖGELE / HAMM / KLEEMANN / BENNINGHOVEN

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WIRTGEN GROUP

THE NEW 2017 PARTS AND MORE CATALOGUE

**CUSTOMER SUPPORT –
WE ARE STILL
AT YOUR
SERVICE EVEN
AFTER YOUR
PURCHASE!**

**Available
languages:
DE · EN · FR · IT
ES · RU · PL
PT · CN**



WIRTGEN GROUP original parts are synonymous with a long service life, exceptional quality and simple installation. Protect yourself against machine breakdowns as you know only too well that spare part quality is crucial for success on construction sites.

This catalogue provides you with a useful tool for your day-to-day operations: informative, well-organised and very user-friendly.

We wish you every success in working with our products! We look forward to working with you in the new year and to many new suggestions regarding further WIRTGEN GROUP products and services.

Yours truly,

Your WIRTGEN GROUP Customer Support-Team



NEW MACHINES AND SPARE PARTS OPTIMISATION AT A GLANCE

WIRTGEN GROUP

The lubricant product range has been updated and expanded.



WIRTGEN

- > Road milling machines W 100 R(i), W 120 R(i)
- > Cold recyclers KMA 220i
- > Slipform pavers SP 60(i), SP 61(i), SP 62(i), SP 64(i)
- > Spare parts optimisation in the cutting tools, levelling and electrical accessories sections



VÖGELE

- > Pavers SUPER 1900-3(f), SUPER 2100-3(f), SUPER 2100-3(f+), SUPER 2000(f), SUPER 2003(f)
- > Feeders MT 3000-2(f+)
- > Spare parts optimisation in the entire product range



HAMM

- > Compactors H 11i and H 12i
- > Tandem rollers HD 13i - HD 14i and HD +90i - 110i
- > Spare parts optimisation in the entire product range



KLEEMANN

- > Cone crushers MCO 11 Pro
- > Spare parts optimisation in the blow bars, crusher tools and filters sections



BENNINGHOVEN

The Parts and More Catalogue has been extended yet again this year to include BENNINGHOVEN GmbH & Co. KG products, meaning that the five WIRTGEN GROUP product brands are now all incorporated.



WIRTGEN GROUP ORIGINAL PARTS















WIRTGEN

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ORIGINAL WIRTGEN

PARTS AND MORE INFORMATION SYSTEMS

Parts and More provides an overview of the most important WIRTGEN GROUP original parts and is the ideal ordering aid for you with additional information about quality of parts, maintenance aspects and a lot of know-how about the application technology.

In addition to the catalogue you are holding in your hands, the WIRTGEN GROUP offers a variety of other information sources.

PARTS AND MORE ON THE INTERNET

You can visit Parts and More at **www.partsandmore.net** worldwide at any time. Here you will find the WIRTGEN GROUP original parts in a clearly structured format.

With immediate effect you can also use our online service on this website to find the optimal product for your machine. In just a few steps you can select suitable filters, lubricants as well as filter and maintenance kits – clearly presented and including all the relevant information.

Complete flexibility: In the office, on the move or out on the construction site – our service tool is very user-friendly and convenient to operate, including on mobile devices such as tablets and smartphone.



PARTS AND MORE COMPACT

Our brochures provide basic knowledge in the area of spare parts. The focus is primarily on key wear characteristics, the interaction of damaged components with each other and the proper maintenance.

Parts and More Compact helps you to find the most economical alternative for your construction site for any situation. You get to know your WIRTGEN GROUP machines and can maintain and service them this way optimally and long term.

Parts and More Compact is presently available for the following subjects:

- > Blow bars
- > Crawler unit parts
- > Drum parts
- > Lubricants and filters
- > Picks
- > Screed
- > Toolholder system HT22

With Parts and More you have an ideal and comprehensive system that can support you in your daily work with our parts competently as partner, by:







- > Providing knowledge about the possible uses
- > Providing an easy ordering help
- > Aiding in wear assessment
- > Providing maintenance tips and much more.












WIRTGEN GMBH

WORLD MARKET LEADER FOR ROAD MILLING MACHINES



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ORIGINAL WIRTGEN CORE COMPETENCE CUTTING TECHNOLOGY

WIRTGEN'S CORE COMPETENCE IS COLD MILLING.

In this cutting process material is removed in layers. This environmentally friendly process allows recycling and reuse of the milled material.

The heart of every cold milling machine is a milling drum, which is usually powered via a power belt and equipped with picks. During usual road milling the milling drum rotates into the opposite direction of travel or feed direction (counter-rotation). The design of milling drums with line spacing, alignment and use of the holder systems determines, beside the picks used, also the productivity and efficiency of the road milling machines.

WIRTGEN is a leader in application technology and continues to develop its core competence of cutting technology further. The picks are developed and produced in close coordination with our system partner BETEK exclusively for WIRTGEN. The increasing capabilities of the WIRTGEN milling machines define



the demands made on picks. Therefore, they are subject to consequent further development, such as the new **GENERATION X** and **GENERATION Z** picks as well as the PCD cutting tools.

> After crushing the milled material it is loaded from the drum housing, depending on the machine type (rear or front loader), via a conveyor system.





AT THE TOP: THE MILLING DRUM

At the heart of the world famous WIRTGEN road milling machines are the milling drums, designed and manufactured in our Windhagen headquarters. In the standard product range, WIRTGEN offers an extensive number of optional drums that help the customer to perform

many applications in the surface processing, as well as performing recycling work or when cutting hard rock.

Almost every day we respond to individual project enquiries with appropriate solutions that require the use of special milling technologies.

Using the patented, optional milling drum quick-change system from WIRTGEN Flexible Cutter System (FCS), the application range can be expanded flexibly through the quick and easy conversion of milling drums of various working widths, line spacings or milling profiles. The machine is utilised more often and is therefore very economical.



With success, such as the many special milling drums for WIRTGEN devices and for competitor machinery, but also for special equipment such as processing plants or even mine-cleaning equipment. In the design and production departments using the latest CAD and CNC technology, a new product is created on the computer screen. After corresponding simulation calculations the data is transferred to the production. Result: In a short time the customer can use his special roll on his site.

WIRTGEN can also produce nowadays line spacings up to 3 mm through high-precision milling drum manufacturing processes. WIRTGEN milling machines can be used anywhere where increased quality demands are made on milled surfaces.

ORIGINAL WIRTGEN CORE COMPETENCE CUTTING TECHNOLOGY

BEST USE: PICKS

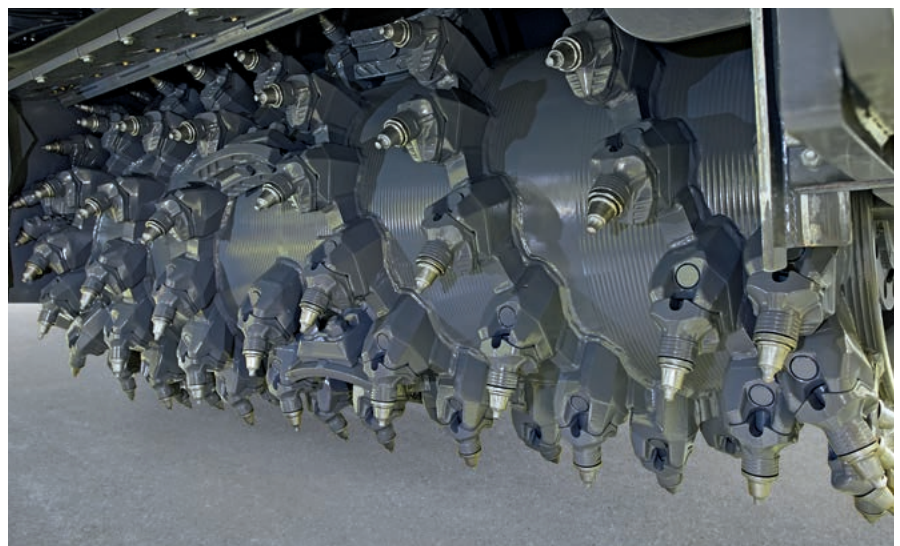
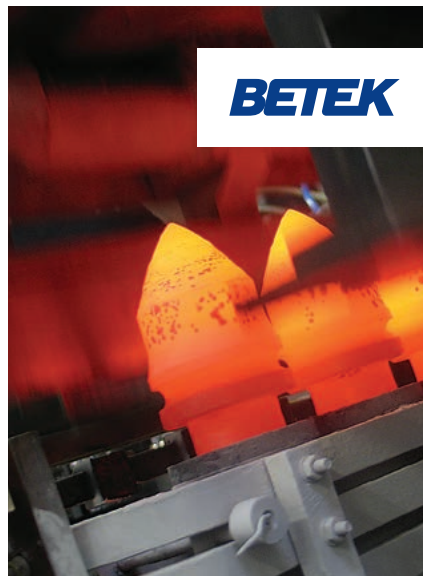
If machinery and tool manufacturers combine their skills, then the customer has many benefits.

BETEK and WIRTGEN developed the first road milling pick in cooperation in 1982. Since then, both companies have utilised their experience to continuously develop the picks. The head office of BETEK GmbH & Co. KG is located in Aichhalden in the Black Forest and forms part of the SIMON group of companies founded in 1918. The close cooperation of the two system partners enables us to quickly react to

our customers' wishes and suggestions. Development, construction and manufacture of various cutting tools at BETEK, perfectly matched to different machine types of WIRTGEN, ensure maximum performance of the WIRTGEN equipment.

The design of the picks varies between the different types depending on the application field and range. The components and their function are however always identical. Only the composition and geometry of the components is adjusted to the required applications.

The highest possible economic efficiency is achieved by choosing the correct pick. This depends on the anticipated loads and acting wear mechanism.





THE WIRTGEN INNOVATION: QUICK-CHANGE TOOLHOLDER SYSTEM

Since 1990 WIRTGEN has been developing quick-change toolholder systems for milling drums. These quick-change toolholder systems consist primarily of two parts: the toolholder lower section, welded to the milling drum tube, and the toolholder upper section, attached to the housing by a quick-release bolt connection.

The latest research methods and computer simulations, such as the finite element method (FEM), allow the physical properties of virtual prototypes to be examined and optimised on the computer. Parallel to this, extensive tests are carried out with maximum loads and extreme situations in practice.



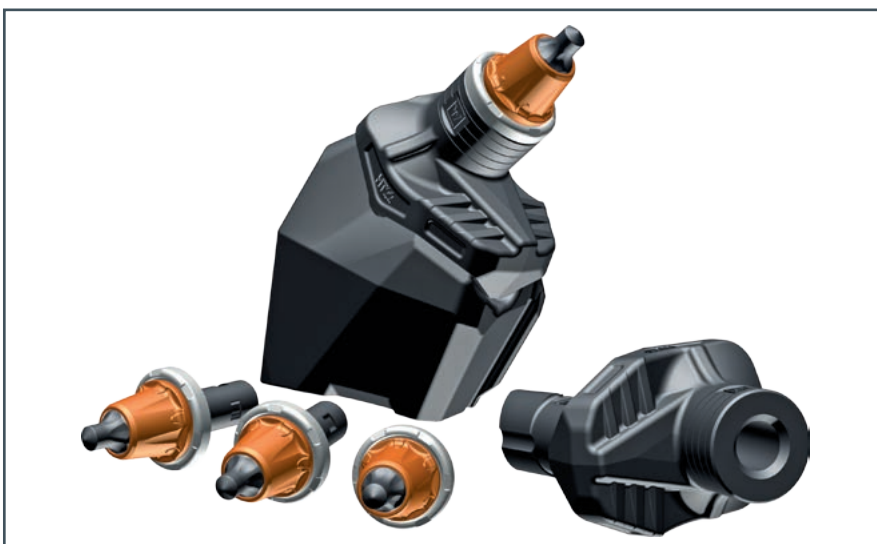
INTERACTION OF PICK GENERATION X AND QUICK- CHANGE TOOLHOLDER SYSTEM HT22

In addition to further development of the WIRTGEN toolholder system, WIRTGEN picks have been re-engineered to increase the service life of the overall system and improve the toolholder upper section.

In addition to the construction of a thicker wear plate, the cone on the lower side was adjusted to the toolholder's upper part. The geometry of the carbide pick tip has been optimised to ensure maximum utilisation of the composite material.

Especially in the interaction of the holder system HT22 and pick **GENERATION X**, which may also be used on any other

holder systems, the lifetime reaches ideal levels. Finally, this general optimisation of WIRTGEN cutting components leads to increased economic efficiency, setting new standards.



ORIGINAL WIRTGEN PICKS GEOMETRY AND CODE LETTERS

Code		Meaning	
W		WIRTGEN pick	
Code for cylindrical carbide tips		Example illustration	
W1-8	Carbide tip diameter 8 mm (length: 15 mm)		
W1-10	Carbide tip diameter 10 mm (length: 25 mm)		
W1-12	Carbide tip diameter 12 mm (length: 21.7 mm)		
W1-13	Carbide tip diameter 13 mm (length: 25 mm)		
W1-17	Carbide tip diameter 17 mm (length: 28.5 mm)		
			
Code for cap-shaped carbide tips		Example illustration	
W4	with a base diameter 16 mm long (length: 16 mm)		
W5	with a base diameter 17.5 mm long (length: 16 mm)		
W5L	with a base diameter 17.5 mm long (length: 17.5 mm)		
W6	with a base diameter 19 mm long (length: 17.5 mm)		
W6L	with a base diameter 19 mm long (length: 19.5 mm)		
W6C	with a base diameter 19 mm long (length: 10 mm)		
W6M	with a base diameter 19 mm long (length: 18 mm)		
W6ML	with a base diameter 19 mm long (length: 21 mm)		
W7	with a base diameter 20.5 mm long (length: 20.5 mm)		
W8	with a base diameter 22 mm long (length: 20 mm)		
			
Characteristics of the carbide tips		Example illustration	
C	Compact	Carbide tip in flat version	
L	Long	Carbide tip in longer version (height)	
M	Massive	No matter what shape: solid carbide tips and hence higher carbide volume than standard tips	



Code		Meaning		
Shape of the steel body (of the pick head)				Example illustration
-G	Groove	Steel body with extractor groove		
-NG	Narrow Groove	Steel body with extractor groove in a slim design		
Shank diameter data for the pick				Example illustration
/13	Shank diameter corresponds to 13 mm			
/20	Shank diameter corresponds to 20 mm			
/22	Shank diameter corresponds to 22 mm			
/25	Shank diameter corresponds to 25 mm			
Generation identification - development status				Example illustration
X	Production since August 2013			Examples: from page 16
Z	Production since April 2016 Optimisations: Shape of the carbide tip, clamping sleeve, wear plate			Examples: from page 28

Not applicable to the surface miner pick product range.

ORIGINAL WIRTGEN

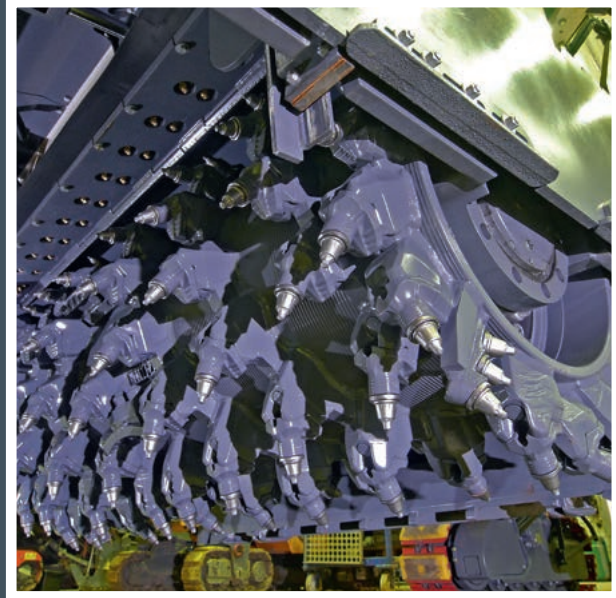
GENERATION X

PICKS FOR ROAD MILLING MACHINES

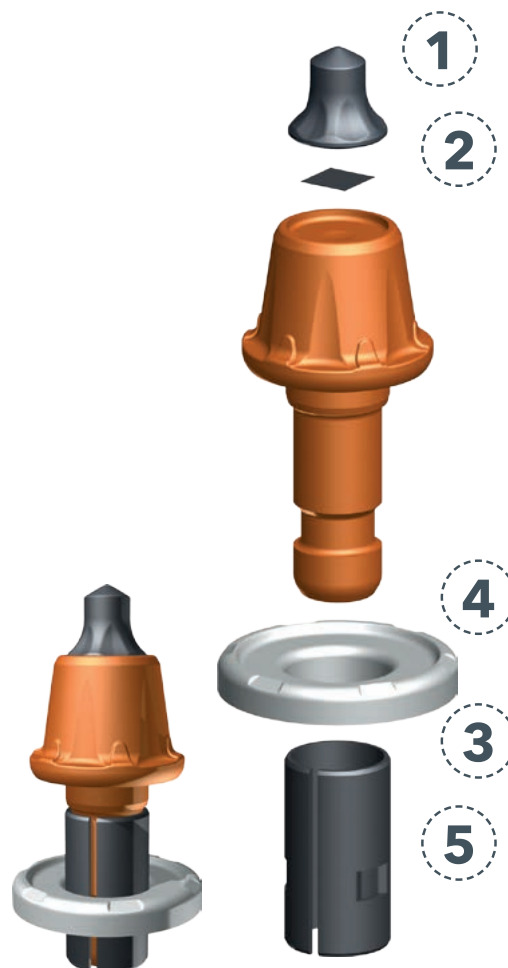
The carbide tip geometry and wear plate design in **GENERATION X** picks have been re-engineered to reduce operating costs and increase the service life of toolholders in road milling machine applications.

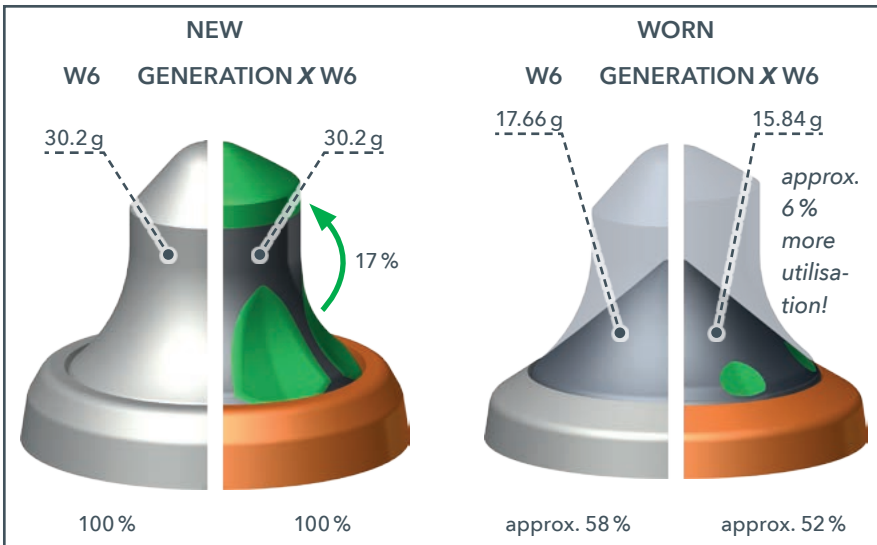
The relocation of the hard metal of the pick tip allows for maximum use of tungsten-cobalt composite (see figure, page 17).

The reinforced wear plates in the edge area and the significantly enlarged cone on the bottom wear plate provide better protection and improved service life of the holder systems.



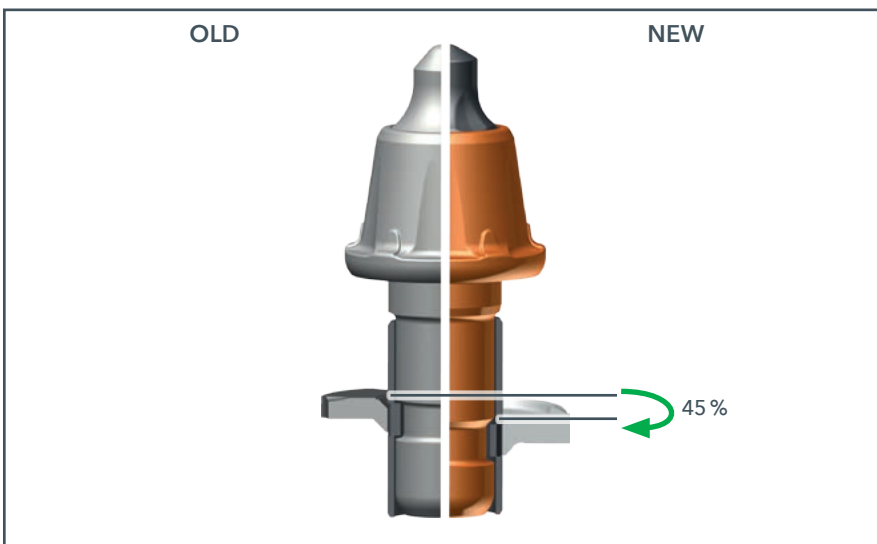
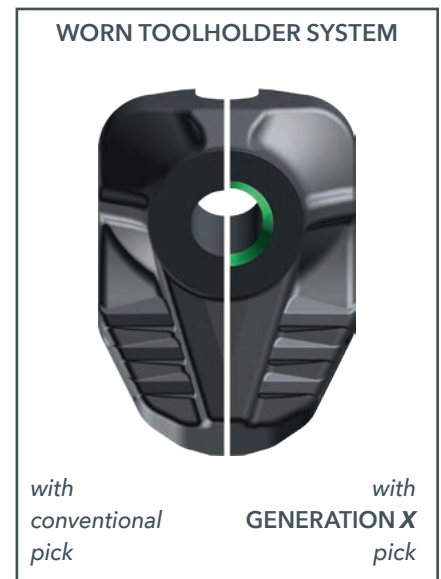
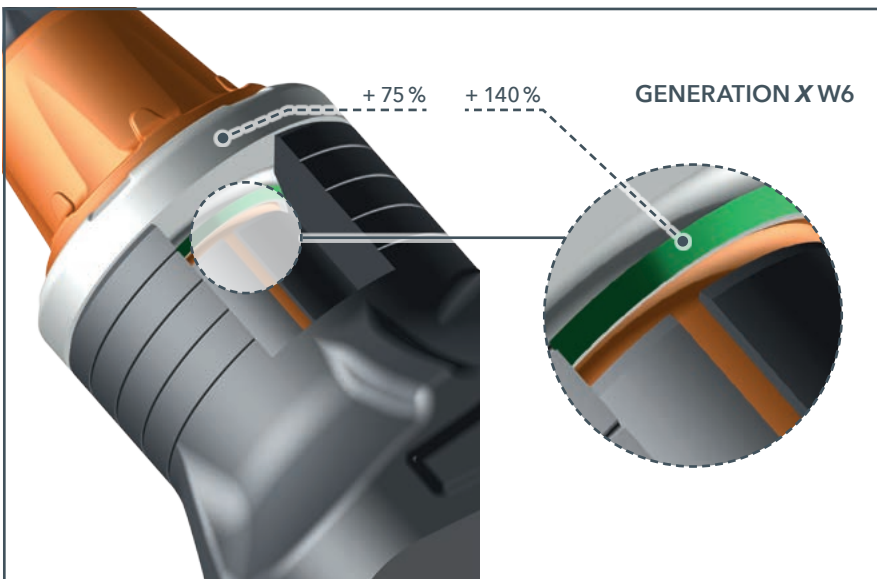
- 1** **+17%** increased **carbide volume** in the wear critical cutting area for long-lasting, high penetration and maximum productivity.
- 2** **+6%** more intelligent carbide shape for effective **utilisation of the carbide** with minimum remaining residual carbide.
- 3** **+140%** enlarged **centring cone** of the wear plate for reduced bore wear in the toolholder leads to optimised rotation behaviour of the toolholder lifetime.
- 4** **+75%** reinforced and rugged **wear plate** for maximum protection against wear of the toolholder.
- 5** **+45%** improved resistance to breakage of the pick shank due to an aligned stop positioning of the twin-stop **clamping sleeve**.





The carbide shape of **GENERATION X** ensures maximum use of the carbide and highest possible service life of the pick (see left picture).

The wear plate of **GENERATION X** causes a slowed-down lengthwise wear and improves the contact surface protection of the toolholder (see picture in the middle).














The Twin-Stop clamping sleeve of **GENERATION X** ensures optimal tool rotation behaviour thanks to its exact round shape.

Compared to the previous model, the pick shank fracture tendency is minimised in the **GENERATION X** by about 45%. This is achieved by offsetting or displacing the stops from the centre to the bottom of the pick shank (see left picture).

ORIGINAL WIRTGEN



















GENERATION X

RECOMMENDATIONS FOR APPLICATION

Material to be milled	Carbide size	Performance class, machine type		Small milling machines			Compact milling machines	Large milling machines
		Pick designation, Part No.		0.35 m	0.5 m	1 m rear		
		with extractor groove	without extractor groove					
Asphalt (cap-shaped carbide tips)	W4	 W4-G/20X # 2308094		● ●	● ●	●	○	○
	W5L	 W5L-G/20X # 2308097	 W5L/20X # 2314701	○	●	● ●	●	○
	W6	 W6-G/20X # 2308099	 W6/20X # 2308098	○	○	●	● ●	●
	W7	 W7-G/20X # 2308103	 W7/20X # 2308102	○	○	○	●	● ●
	W8	 W8-G/20X # 2308105	 W8/20X # 2308104	○	○	○	○	●
Concrete (cylindrical carbide tips)	W1	 W1-10-G/20X # 2218466		● ●	● ●	● ●	● ●	●
		 W1-13-G/20X # 2281964		○	○	○	○	● ●



GENERATION X PRODUCT RANGE

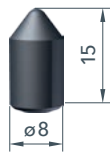
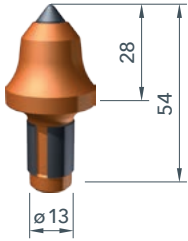
Pick designation	Carbide tip		Part No. (per unit)	Quantity per toolbox	Weight per toolbox (kg)	Quantity standard pallet (overseas pallet)	Page
W1-8/13		8.9 g	193701	200	19.10	12000 (10800)	20
W4/13		19.7 g	182598	200	19.30	12000 (10800)	20
W1-10-G/20X*		24.4 g	2218466	50	15.80	3000 (2700)	20
W1-10-NG/20X		24.4 g	2218467	50	14.20	3000 (2700)	21
W1-13-G/20X*		38.3 g	2281964	50	17.35	3000 (2700)	21
W4-G/20X*		19.7 g	2308094	50	14.85	3000 (2700)	21
W5L/20X*		26.2 g	2314701	50	16.35	3000 (2700)	22
W5L-G/20X*		26.2 g	2308097	50	15.90	3000 (2700)	22
W6/20X*		30.1 g	2308098	50	16.50	3000 (2700)	22
W6-G/20X*		30.1 g	2308099	50	16.30	3000 (2700)	23
W6L/20X		32.8 g	2314699	50	16.85	3000 (2700)	23
W6L-G/20X		32.8 g	2314698	50	16.20	3000 (2700)	23
W6M/20X		36.2 g	2308100	50	16.80	3000 (2700)	24
W6ML-G/20X		41.0 g	2314700	50	16.65	3000 (2700)	24
W7/20X*		41.3 g	2308102	50	16.60	3000 (2700)	24
W7-G/20X*		41.3 g	2308103	50	16.25	3000 (2700)	25
W8/20X*		48.4 g	2308104	50	16.95	3000 (2700)	25
W8-G/20X*		48.4 g	2308105	50	16.25	3000 (2700)	25

* Topseller - also see our recommendations for application on page 18

ORIGINAL WIRTGEN
GENERATION X
PICK DETAILS

W1-8/13

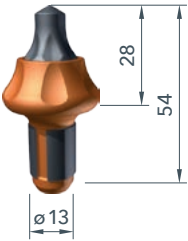
Part No.: 193701



Type	Meaning
W1	Cylindrical carbide tip for removing concrete
-8	8 mm carbide tip diameter
/13	Held in the toolholder bore with a shank diameter of 13 mm

W4/13

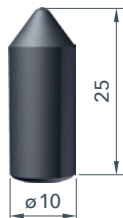
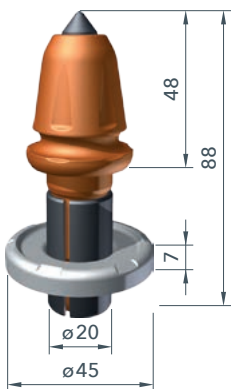
Part No.: 182598



Type	Meaning
W4	Cap-shaped carbide tip for removing asphalt layers
/13	Held in the toolholder bore with a shank diameter of 13 mm

W1-10-G/20X

Part No.: 2218466



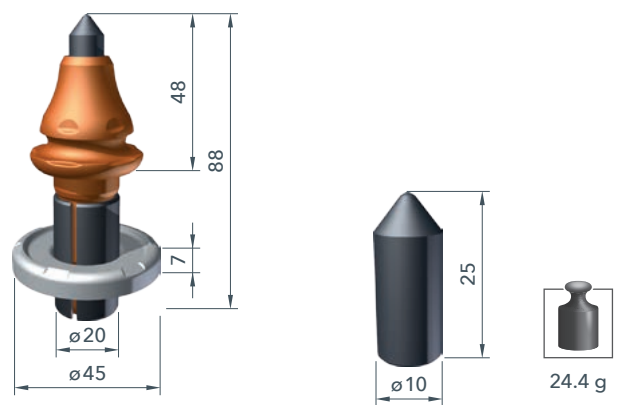
Type	Meaning
W1	Cylindrical carbide tip for removing concrete
-10	10 mm carbide tip diameter
-G	Slim steel body with extractor groove as a dismantling aid
/20	Held in the toolholder bore with a shank diameter of 20 mm
X	Generation identification

Head length when installed, i.e. from the lower edge of the wear plate to the carbide tip. All dimensions in mm.



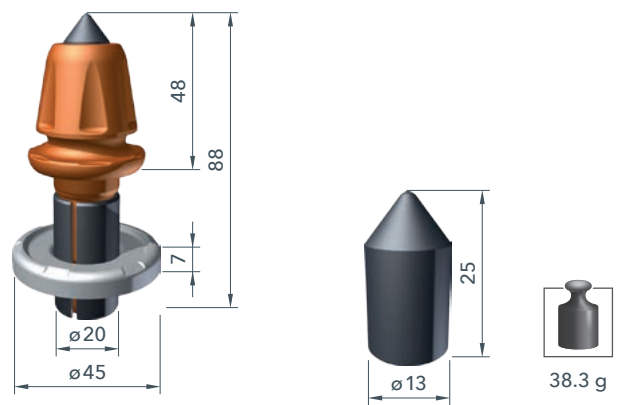
W1-10-NG/20X Part No.: 2218467

Type	Meaning
W1	Cylindrical carbide tip for removing concrete
-10	10 mm carbide tip diameter
-NG	Slim steel body with extractor groove as a dismantling aid for overall improved penetration capacity
/20	Held in the toolholder bore with a shank diameter of 20 mm
X	Generation identification



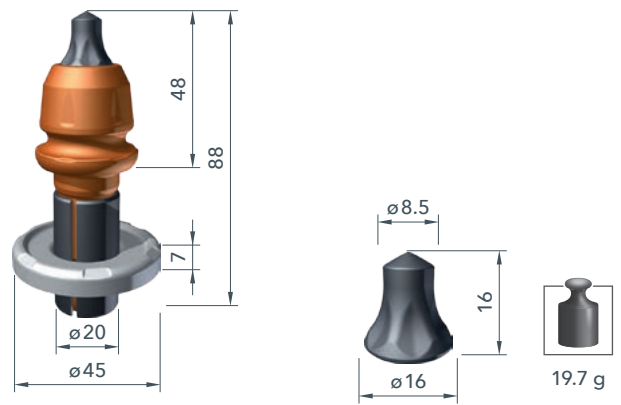
W1-13-G/20X Part No.: 2281964

Type	Meaning
W1	Cylindrical carbide tip for removing concrete
-13	13 mm carbide tip diameter
-G	Slim steel body with extractor groove as a dismantling aid
/20	Held in the toolholder bore with a shank diameter of 20 mm
X	Generation identification



W4-G/20X Part No.: 2308094

Type	Meaning
W4	Cap-shaped carbide tip for removing asphalt layers
-G	Slim steel body with extractor groove as a dismantling aid
/20	Held in the toolholder bore with a shank diameter of 20 mm
X	Generation identification

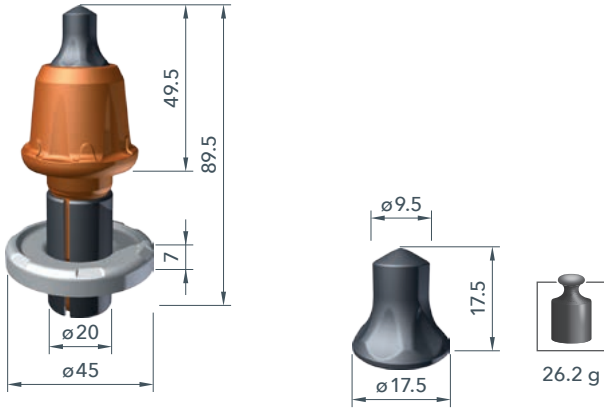


Head length when installed, i.e. from the lower edge of the wear plate to the carbide tip. All dimensions in mm.

ORIGINAL WIRTGEN GENERATION X PICK DETAILS

W5L/20X

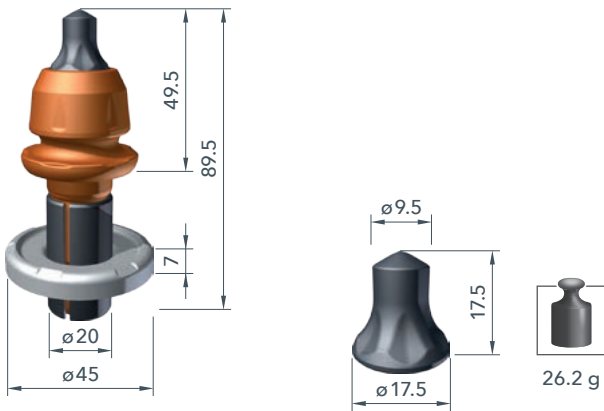
Part No.: 2314701



Type	Meaning
W5	Cap-shaped carbide tip for removing asphalt layers
L	Long carbide tip for long-lasting cutting performance
/20	Held in the toolholder bore with a shank diameter of 20 mm
X	Generation identification

W5L-G/20X

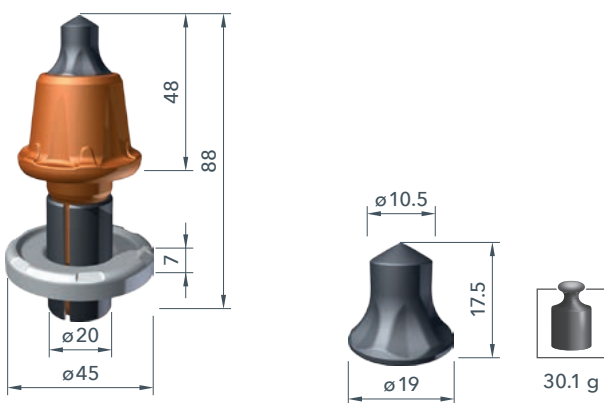
Part No.: 2308097



Type	Meaning
W5	Cap-shaped carbide tip for removing asphalt layers
L	Long carbide tip for long-lasting cutting performance
-G	Slim steel body with extractor groove as a dismantling aid
/20	Held in the toolholder bore with a shank diameter of 20 mm
X	Generation identification

W6/20X

Part No.: 2308098



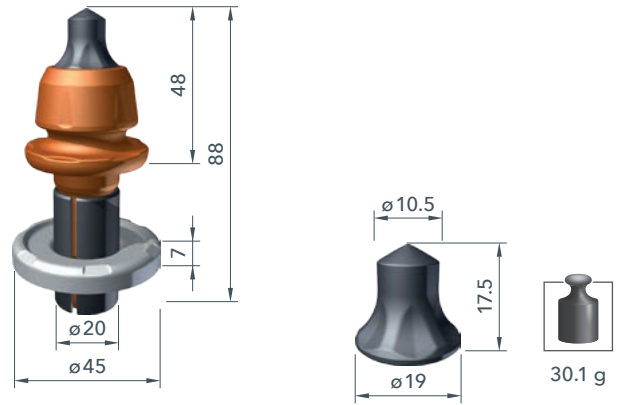
Type	Meaning
W6	Cap-shaped carbide tip for removing asphalt layers
/20	Held in the toolholder bore with a shank diameter of 20 mm
X	Generation identification

Head length when installed, i.e. from the lower edge of the wear plate to the carbide tip. All dimensions in mm.



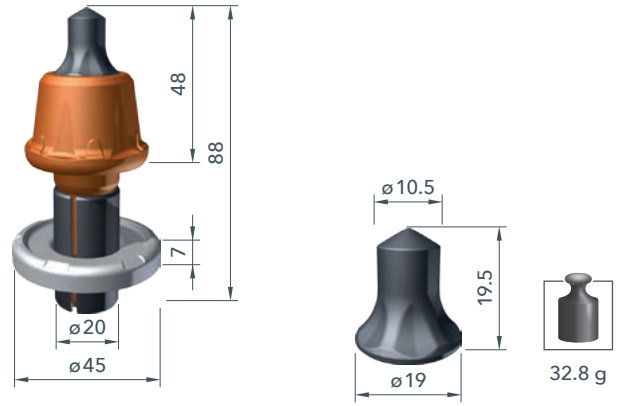
W6-G/20X Part No.: 2308099

Type	Meaning
W6	Cap-shaped carbide tip for removing asphalt layers
-G	Slim steel body with extractor groove as a dismantling aid
/20	Held in the toolholder bore with a shank diameter of 20 mm
X	Generation identification



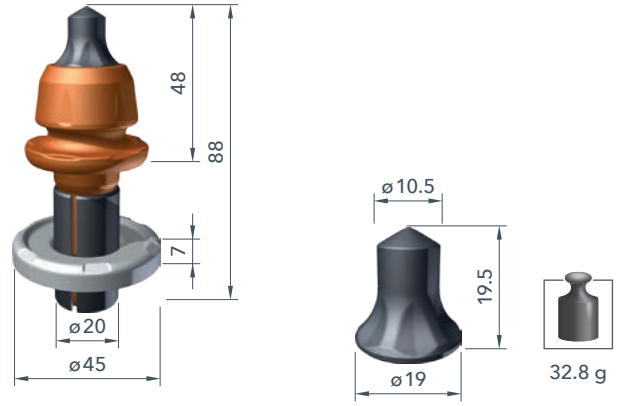
W6L/20X Part No.: 2314699

Type	Meaning
W6	Cap-shaped carbide tip for removing asphalt layers
L	Long carbide tip for long-lasting cutting performance
/20	Held in the toolholder bore with a shank diameter of 20 mm
X	Generation identification



W6L-G/20X Part No.: 2314698

Type	Meaning
W6	Cap-shaped carbide tip for removing asphalt layers
L	Long carbide tip for long-lasting cutting performance
-G	Slim steel body with extractor groove as a dismantling aid
/20	Held in the toolholder bore with a shank diameter of 20 mm
X	Generation identification

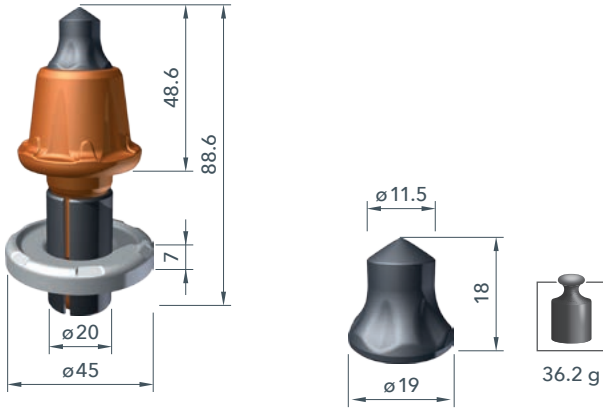


Head length when installed, i.e. from the lower edge of the wear plate to the carbide tip. All dimensions in mm.

ORIGINAL WIRTGEN GENERATION X PICK DETAILS

W6M/20X

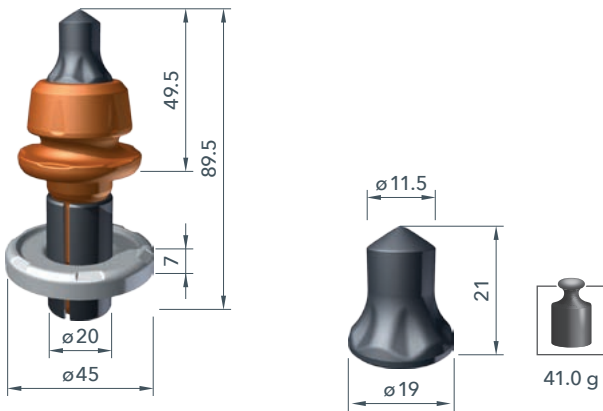
Part No.: 2308100



Type	Meaning
W6	Cap-shaped carbide tip for removing asphalt layers
M	Solid carbide tip for increased break resistance
/20	Held in the toolholder bore with a shank diameter of 20 mm
X	Generation identification

W6ML-G/20X

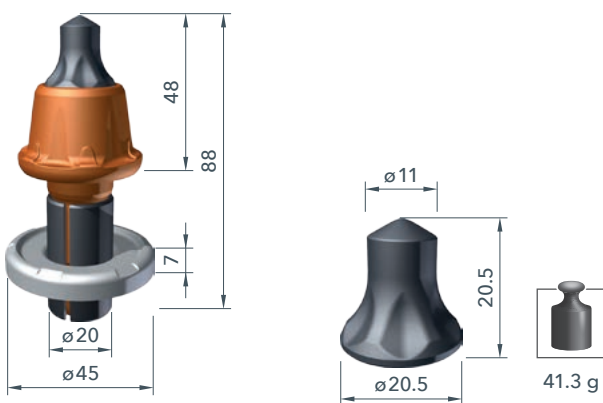
Part No.: 2314700



Type	Meaning
W6	Cap-shaped carbide tip for removing asphalt layers
M	Solid carbide tip for increased break resistance
L	Long carbide tip for long-lasting cutting performance
-G	Slim steel body with extractor groove as a dismantling aid
/20	Held in the toolholder bore with a shank diameter of 20 mm
X	Generation identification

W7/20X

Part No.: 2308102



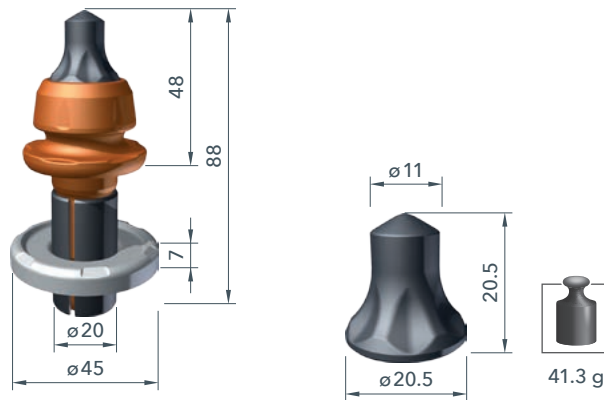
Type	Meaning
W7	Cap-shaped carbide tip for removing asphalt layers
/20	Held in the toolholder bore with a shank diameter of 20 mm
X	Generation identification

Head length when installed, i.e. from the lower edge of the wear plate to the carbide tip. All dimensions in mm.



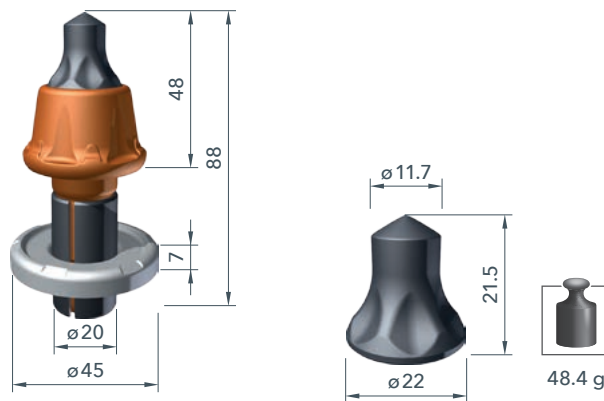
W7-G/20X Part No.: 2308103

Type	Meaning
W7	Cap-shaped carbide tip for removing asphalt layers
-G	Slim steel body with extractor groove as a dismantling aid
/20	Held in the toolholder bore with a shank diameter of 20 mm
X	Generation identification



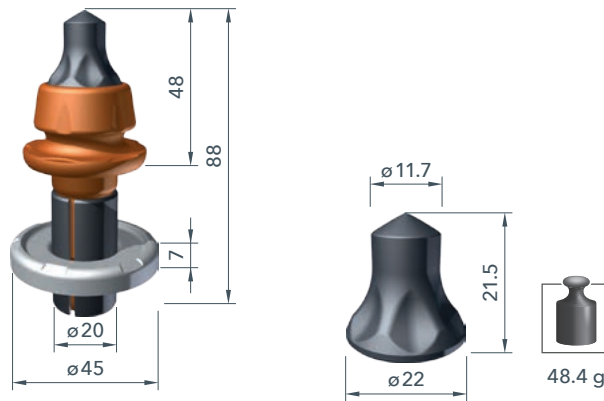
W8/20X Part No.: 2308104

Type	Meaning
W8	Cap-shaped carbide tip for removing asphalt layers
/20	Held in the toolholder bore with a shank diameter of 20 mm
X	Generation identification



W8-G/20X Part No.: 2308105

Type	Meaning
W8	Cap-shaped carbide tip for removing asphalt layers
-G	Slim steel body with extractor groove as a dismantling aid
/20	Held in the toolholder bore with a shank diameter of 20 mm
X	Generation identification



Head length when installed, i.e. from the lower edge of the wear plate to the carbide tip. All dimensions in mm.

ORIGINAL WIRTGEN PCD CUTTING TOOL

PCD cutting tools are particularly suitable for surface layer rehabilitation thanks to their up-to-date tool geometry and materials. An exceptionally long service life can be achieved thanks to the highly wear-resistant tool tip made of polycrystalline diamond. The very slight lengthwise wear ensures optimum evenness over the milled surface and consistently high machine feed.

Depending on the application, PCD tools are a useful addition to the existing pick range with conventional carbide tips.



- 1** *Significantly longer service life* due to high wear resistance of the cutting material.
- 2** *Enhanced machine productivity* due to constantly high penetration.
- 3** *Increased machine availability* due to reduced tool replacements.
- 4** *Constant milling pattern* due to significantly reduced lengthwise wear.
- 5** *Improved working conditions* due to minimised maintenance efforts.









COMPONENTS OF A PCD CUTTING TOOL

- > Fig. 1: PCD means **p**oly **c**rystalline **d**iamond. The PCD tip is manufactured under enormous pressure (up to 60,000 bar or 870,000 psi) and extreme temperatures (of up to 1,800 °C or 3,270 °F). Technically, the PCD tip is a “diamond coated” carbide tip. The thickness of the PCD layer is a few millimetres only.
- > Fig. 2: The special brazing is used due to its high strength. This ensures a permanent joint of the PCD tip despite the comparably small brazing surfaces and the blunt connection. This extremely demanding brazing process and a careful execution are an important foundation for the maximum service life of the PCD cutting tools.
- > Fig. 3: The arising cutting forces are optimally deflected into the toolholder via the geometrical design and the length of the carbide. Due to the special fit between carbide base and toolholder the carbide and the PCD tip are not influenced when this joint is created.
- > Fig. 4: The cutting tool primarily wears on the side. Due to the high wear volume (support) in the front area of the toolholder upper part the carbide base is retained throughout a longer service period. The support conducts the chippings and additionally increases the tool service life with a forced and improved flow of material.



Milling depth	Original WIRTGEN PCD cutting tool			
	 WD1-12F/HT5 # 2516749	 WD1-12F/HT22 # 2516746	 WD1-12F/HT11 # 2516747	 WD2-15B/HT22 # 2516748
up to 30 mm	●	●	●	●
up to 50 mm		●	●	●
up to 80 mm				●

● *Recommendable*

□ *Not recommendable*

ORIGINAL WIRTGEN GENERATION Z PICKS FOR RECYCLERS/STABILISERS

GENERATION Z picks have been designed for extreme impact stress and are thus primarily conceived for stabilisation and recycling applications.

In addition to an optimised carbide mix, the hardness of the wear plate has also been increased significantly. The shorter, yet bulkier pick head ensures greater resistance to shank breakage thanks to the lower siphon effect plus longer toolholder protection.



1 +85% increased fracture resistance of the **carbide tip** due to optimised material composition and tip geometry.

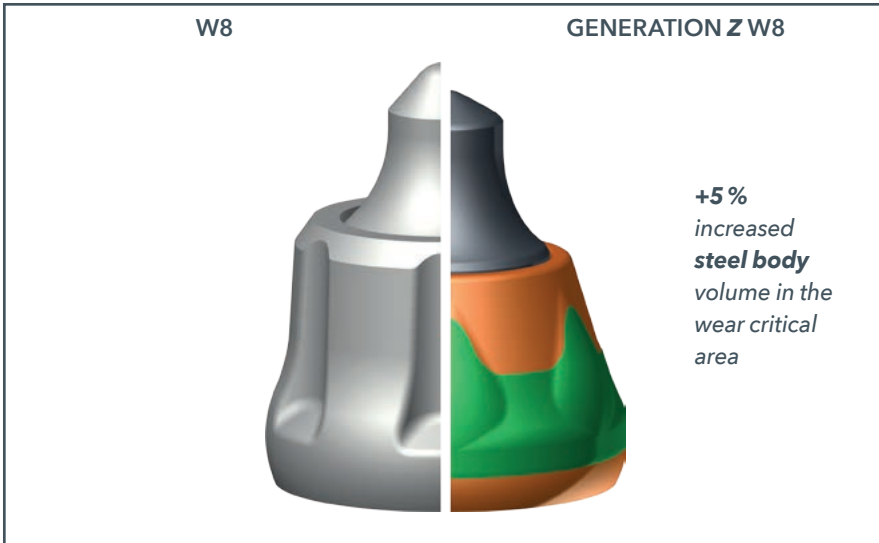
2 +30% increased hardness of the **wear plate** for better and longer toolholder protection.

3 +5% increased **steel body** volume in the wear critical area.

4 +45% improved resistance to breakage of the pick shank due to an aligned stop positioning of the twin-stop **clamping sleeve**.

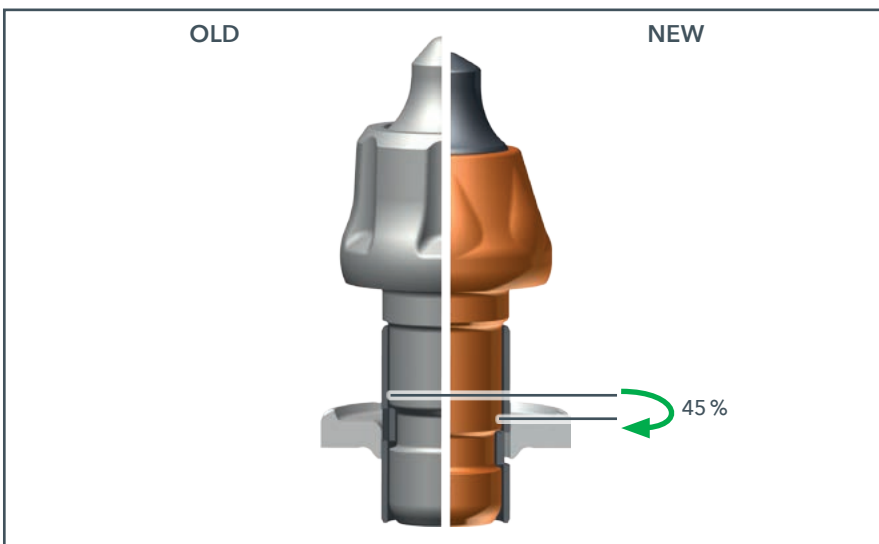
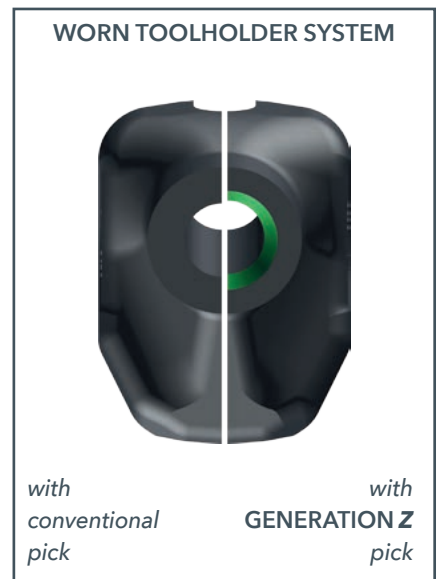
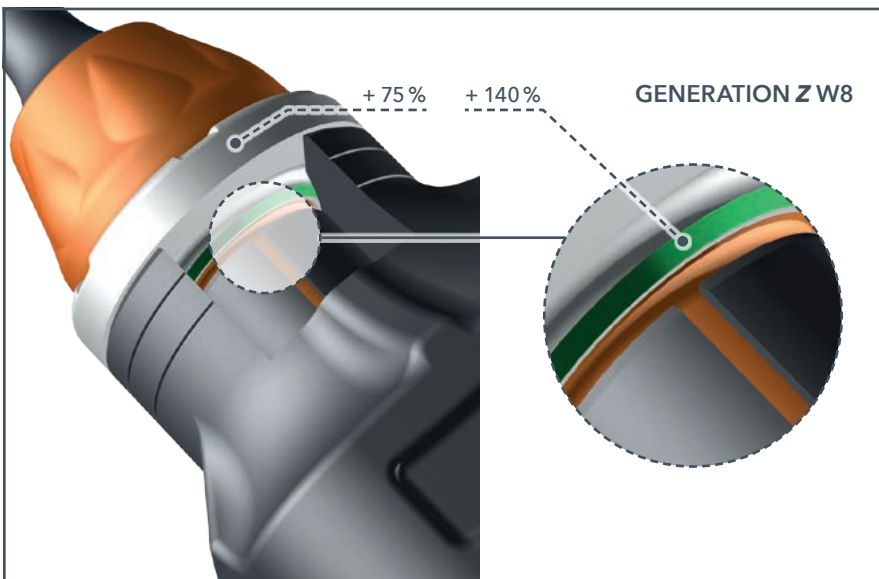
5 +4% reinforced **clamping sleeve** for durable and firm seating in the toolholder.





The optimised carbide mix improves carbide tensile strength. The lower pick head height in **GENERATION Z** reduces the siphon effect, thus improving the tensile strength in the pick shank in the face of impact loads.

The larger volume in the wear-critical section and the greater hardness in the wear plate not only extend the expected longer service life for the pick, but also enhances toolholder protection.



The Twin-Stop clamping sleeve in **GENERATION Z** ensures optimal tool rotation behaviour thanks to its precise round shape.

Compared to the previous model with shanks 22 and 25 mm in diameter, susceptibility to breakage in **GENERATION Z** picks is minimised by about 45%. This is achieved by offsetting or displacing the limit stops from the centre to the bottom of the pick shank (see left picture).

ORIGINAL WIRTGEN

GENERATION Z

RECOMMENDATIONS FOR APPLICATION

USE IN SOIL STABILISING

Compact soil/milled material usually contains abrasive (grinding) materials that flow around the carbide tip and the pick head during the cutting process. In this application case, the wear to the steel body dominates, thereby limiting the service life of the tool. In this case, the job of the carbide tip is to deflect the material from the steel body (pick head), thereby reducing its wear.

For ground that contains **pieces of rock**, use of a pick with a cylindrical tip (or with a W6C tip) is recommended. In this case, the resistance to carbide breakage is the decisive factor because sudden impact stresses have to be deflected. When there are external shank stresses on the pick, caused by massive stone/rock sizes, a pick with a 25mm shank diameter can be used by replacing the top section of the quick-change toolholder system.



1



2

USE IN COLD RECYCLING AND PULVERISING

On road works, the picks penetrate under the base layer, and sometimes even deeper into the ground. Depending on the design of the roadway and the materials/additives used, it must be assumed that there will be abrasive (grinding) stone with low grain size and at least partially with tough binding elements. There are high cutting forces that can be promoted by using a carbide tip with a higher cutting performance (e.g. W6) when cutting these layers. With increased abrasiveness, the size of the carbide tip should also be adjusted. In case of larger pieces of rock, a cylindrical carbide type is recommended.



3

- 1 > Compact soil
- 2 > Slightly compact soil with medium-sized pieces of rock
- 3 > Asphalt base layer with a subjacent layer of smaller stone grains



Application	Machine type*
Soil stabilising	Raco 350, WR 2000, WR 200, WR 2400, WR 240, WR 2500, WR 2500 S, WR 250, WS 2000, WS 2500, WS 220, WS 250
Cold recycling and pulverising	WR 2000, WR 200, WR 2400, WR 240, WR 2500, WR 2500 S, WR 250

Impact stress (Rock size / rock component increases)	Abrasiveness (abrasive materials)		Shank diameter
	←	→	
22 mm	W6 / 22Z # 2493524	W8 / 22Z** # 2493530	
	W6C / 22Z # 2493527		
25 mm	W1-13 / 22Z # 2493532		
		W8 / 25Z # 2493545	
	W6C / 25Z # 2493541		
	W1-13 / 25Z # 2493547		

* Specifications also valid for "XL" and "i" machines equipped with new engine technology
 ** WIRTGEN cold recycling machines and ground stabilisers are fitted at the factory with this pick type.

ORIGINAL WIRTGEN
GENERATION Z
PRODUCT RANGE

Pick designation	Carbide tip	Part No. (per unit)	Quantity per toolbox	Weight per toolbox (kg)	Quantity standard pallet (overseas pallet)	Page
W6 / 20Z	 37 g	2493520	40	15.30	2400 (2160)	33
W6C / 20Z	 24 g	2493523	40	14.50	2400 (2160)	33
W1-13 / 22Z*	 39 g	2493532	40	16.90	2400 (2160)	33
W1-17 / 22Z	 74 g	2493534	40	17.70	2400 (2160)	34
W6 / 22Z*	 37 g	2493524	40	16.50	2400 (2160)	34
W6C / 22Z*	 24 g	2493527	40	15.70	2400 (2160)	34
W8 / 22Z*	 47 g	2493530	40	16.50	2400 (2160)	35
W1-13 / 25Z*	 39 g	2493547	15	10.25	900 (810)	35
W6C / 25Z*	 24 g	2493541	15	10.40	900 (810)	35
W8 / 25Z*	 47 g	2493545	15	10.40	900 (810)	36



GENERATION Z PICK DETAILS

W6/20Z Part No.: 2493520

Type	Meaning
W6	Cap-shaped carbide tip for mixing compact soils
/20	Held in the toolholder bore with a shank diameter of 20 mm
Z	Generation identification

WIRTGEN

W6C/20Z Part No.: 2493523

Type	Meaning
W6	Cap-shaped carbide tip for mixing soils with small to medium-sized pieces of rock
C	Flat carbide tip for increased break resistance
/20	Held in the toolholder bore with a shank diameter of 20 mm
Z	Generation identification

W1-13/22Z Part No.: 2493532

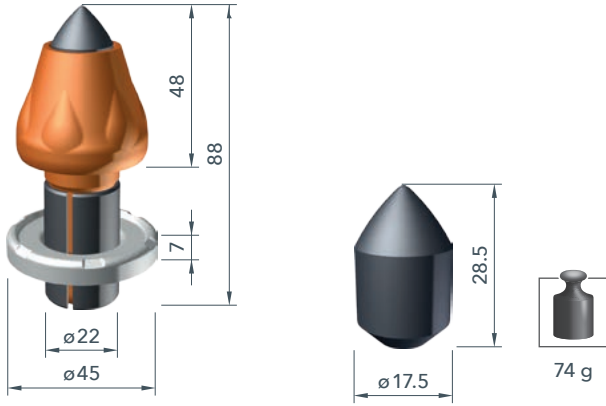
Type	Meaning
W1	Cylindrical carbide tip for mixing increasingly rocky soils
-13	13 mm carbide tip diameter
/22	Held in the toolholder bore with a shank diameter of 22 mm
Z	Generation identification

Head length when installed, i.e. from the lower edge of the wear plate to the carbide tip. All dimensions in mm.

ORIGINAL WIRTGEN GENERATION Z PICK DETAILS

W1-17/22Z

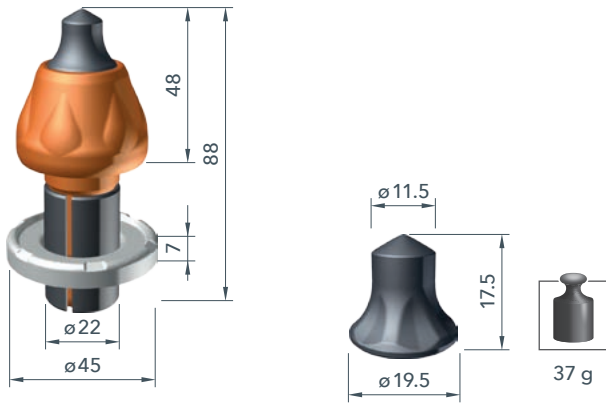
Part No.: 2493534



Type	Meaning
W1	Cylindrical carbide tip for mixing increasingly rocky soils
-17	17 mm carbide tip diameter
/22	Held in the toolholder bore with a shank diameter of 22 mm
Z	Generation identification

W6/22Z

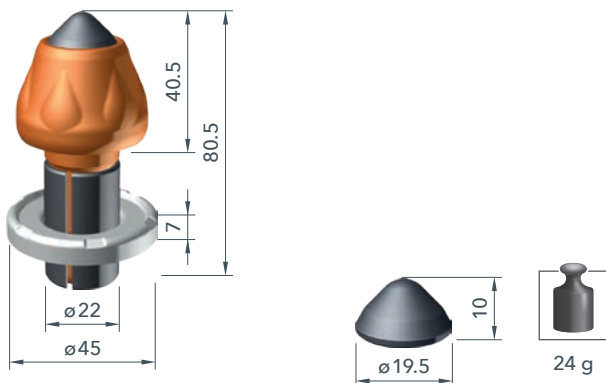
Part No.: 2493524



Type	Meaning
W6	Cap-shaped carbide tip for mixing compact soils
/22	Held in the toolholder bore with a shank diameter of 22 mm
Z	Generation identification

W6C/22Z

Part No.: 2493527



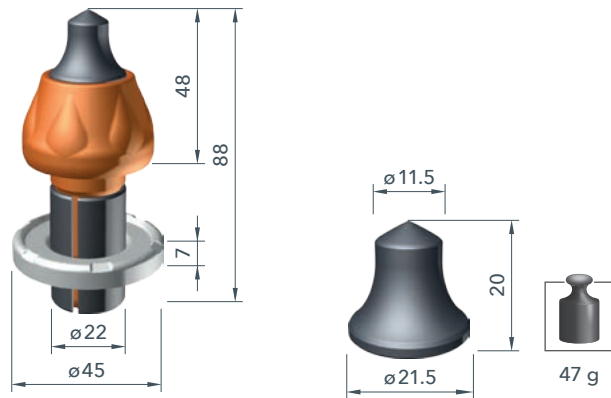
Type	Meaning
W6	Cap-shaped carbide tip for mixing soils with small to medium-sized pieces of rock
C	Flat carbide tip for increased break resistance
/22	Held in the toolholder bore with a shank diameter of 22 mm
Z	Generation identification

Head length when installed, i.e. from the lower edge of the wear plate to the carbide tip. All dimensions in mm.



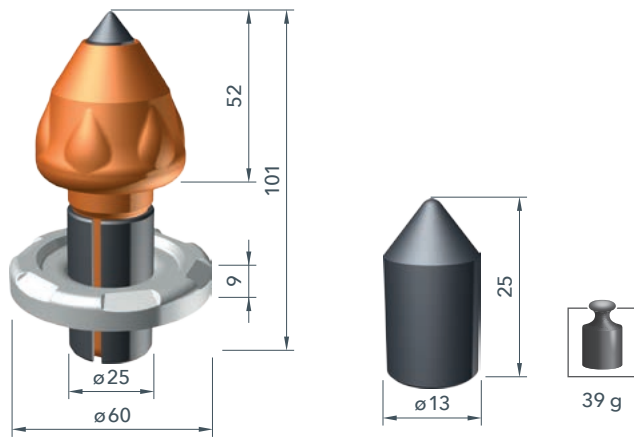
W8/22Z Part No.: 2493530

Type	Meaning
W8	Cap-shaped carbide tip for mixing compact soils
/22	Held in the toolholder bore with a shank diameter of 22 mm
Z	Generation identification



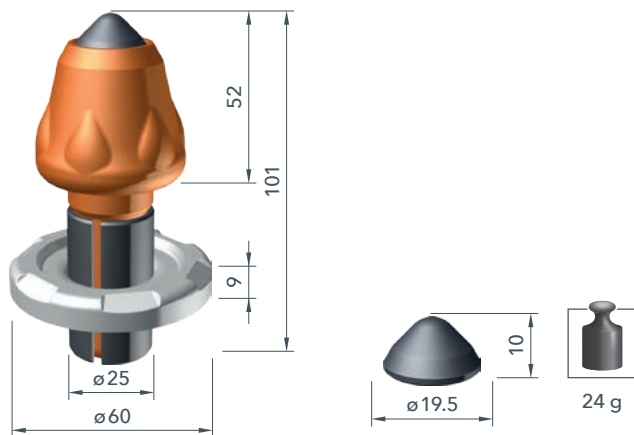
W1-13/25Z Part No.: 2493547

Type	Meaning
W1	Cylindrical carbide tip for mixing increasingly rocky soils
-13	13 mm carbide tip diameter
/25	Held in the toolholder bore with a shank diameter of 25 mm
Z	Generation identification



W6C/25Z Part No.: 2493541

Type	Meaning
W6	Cap-shaped carbide tip for mixing soils with small to medium-sized pieces of rock
C	Flat carbide tip for increased break resistance
/25	Held in the toolholder bore with a shank diameter of 25 mm
Z	Generation identification

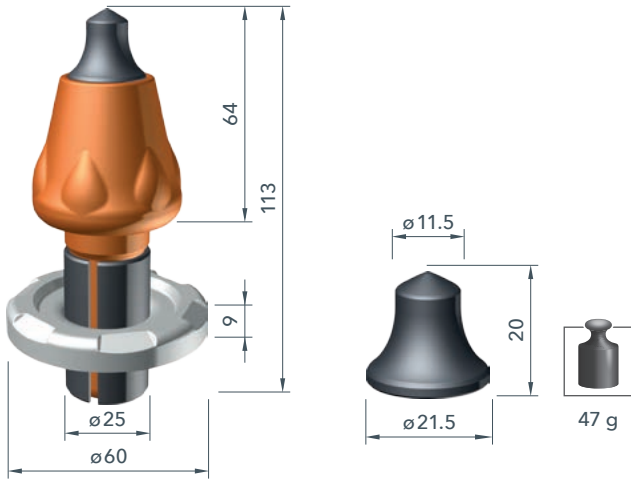


Head length when installed, i.e. from the lower edge of the wear plate to the carbide tip. All dimensions in mm.

ORIGINAL WIRTGEN GENERATION Z PICK DETAILS

W8/25Z

Part No.: 2493545



Type	Meaning
W8	Cap-shaped carbide tip for mixing compact soils
/25	Held in the toolholder bore with a shank diameter of 25 mm
Z	Generation identification









**WR 250:
MAXIMUM QUALITY
FOR ALL USES**

ORIGINAL WIRTGEN

SURFACE MINER PICKS

GEOMETRY AND CODE LETTERS

Code	Meaning	
WSM	WIRTGEN Surface Miner	
Code for carbide tips		Example illustration
WSM1	Cylindrical tip	
WSM2	Mushroom-shaped tip	
WSM3	Cap-shaped tip	
Diameter information for carbide tips		Example illustration
-15	Carbide tip diameter 15 mm	  
-17	Carbide tip diameter 17 mm	
-19	Carbide tip diameter 19 mm	
-22	Carbide tip diameter 22 mm	
-24	Carbide tip diameter 24 mm	
-25	Carbide tip diameter 25 mm	



Code		Meaning		
Shape of the steel body (of the pick head)			Example illustration	
-P	Protected	Armouring of the tool head to increase the service life		
-100 (number)	100 mm pick head length	The number after the second dash is the length of the miner pick head in mm, if it differs from the standard (in the example: length of the left pick head 100 mm, of the right pick head 77 mm).		
Shank diameter data for the pick			Example illustration	
/38/30	Stepped shank diameter from 38 mm to 30 mm			
	Pick secured with locking ring (Part No. 155281; included in delivery)			
/42	Shank diameter 42 mm			
	Pick secured with clamping sleeve (included in delivery) pick can also be secured with additional clip ring (Part No. 2357297; not included in delivery).			

ORIGINAL WIRTGEN SURFACE MINER PICKS

PICKS WITH 38/30-STEPPED SHANK

They are used in HT6 toolholder systems. These tools are the established solution and are attached using a simple locking ring (code "LR"; see page 39).

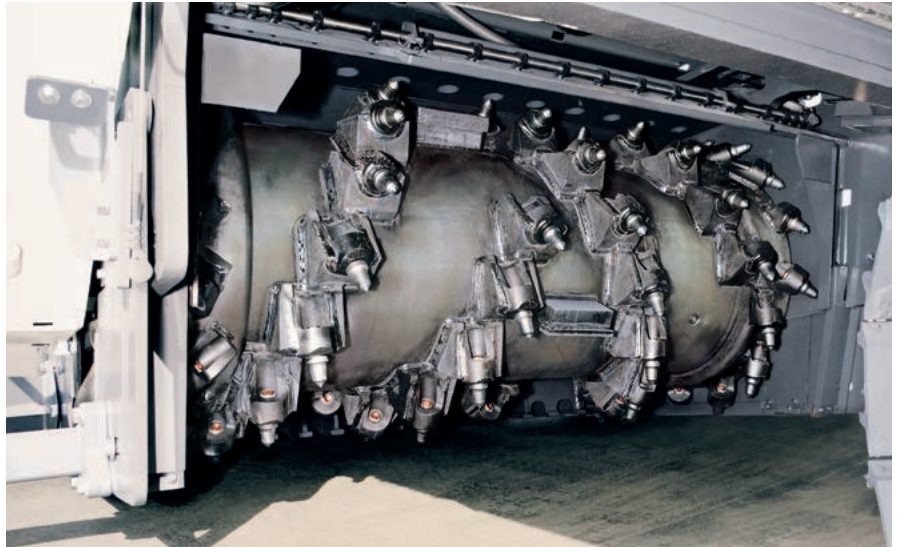
PICKS WITH 42-MM SHANK DIAMETER

They are usually fitted with short clamping sleeves and are used in HT14 and HT15 toolholder systems. These tools are installed in the holder using a (copper) hammer. Clamping sleeves ensure a rapid, easy change of cutting tools.

This is a great advantage with hard materials which cause heavy, rapid wear on carbide and steel body as the clamping sleeve is designed for a short to medium pick service life.

If a longer service life is expected, an optional c-clip (not included in delivery) can ensure that the cutting tool's maximum life span is achieved. The pick head diameter and geometry have been selected in such a way that greater protection is assured for toolholders.

Depending on the specific use, additional tools with different types of head armouring can also maximise service life.





The picks WSM2-17-90/42 with mushroom-shaped tips are used in Russia due to the fluctuating characteristic of lime stone from hard to soft. The head length of the tool is 90 mm.

Due to the material properties of the coal ore, picks WSM3-24-77/38/30LR with cap-shaped carbide tips are used in India. This pick is installed in milling drums with HT6 (stepped shank 38/30 mm) and fixed using a retaining ring.

The above-mentioned applications and the materials to be cut show that different carbide geometries are also used in surface mining. Cap-shaped carbide tips ("WSM3") protect the steel body against erosion, cylindrical carbide tips ("WSM1") are used in hard materials. The mushroom-shaped tip ("WSM2"), in simple terms, combines both properties, advantages and disadvantages.



SURFACE MINER PICKS

RECOMMENDATIONS FOR APPLICATION

Applications				
The applications listed here are guide numbers. The cuttability, cutting performance and pick wear depend upon the uniaxial pressure strength, the tensile strength, abrasiveness, crevasse formation and inhomogeneity.				
Can be used for the following holder systems	Soft layers	Medium-hard layers	Hard layers	Very hard layers
	Sand Clay Lignite Salt	Concrete Shelly limestone Soft limestone Gypsum Marl Shale Hard anthracite Bauxite	Granolithic concrete Limestone	Hard limestone Hard sandstone Iron ore Dolomite
	Compressive strength 0 - 20 N/mm ²	Compressive strength 20 - 50 N/mm ²	Compressive strength 50 - 80 N/mm ²	Compressive strength > 80 N/mm ²
HT06, HT6	WSM1-15-77/38/30 Part No.: 47571 Page 44	WSM1-15-100/38/30 Part No.: 161705 Page 44	WSM1-19-77/38/30 Part No.: 70225 Page 45	
		WSM1-17-77/38/30 Part No.: 48350 Page 44		
	WSM3-24-77/38/30 Part No.: 185018 Page 45	WSM1-17-100/38/30 Part No.: 2256278 Page 45		
HT14, HT15		WSM1-17-77/42 Part No.: 2515527 Page 46	WSM1-19-77/42 Part No.: 2521596 Page 47	WSM1-25-77P/42 Part No.: 2537692 Page 48
		WSM2-17-90/42 Part No.: 2521649 Page 46	WSM1-19-77P/42 Part No.: 2537688 Page 47	
		WSM2-17-90P/42 Part No.: 2537681 Page 46	WSM1-22-77/42 Part No.: 2515526 Page 47	
			WSM1-22-77P/42 Part No.: 2537689 Page 48	



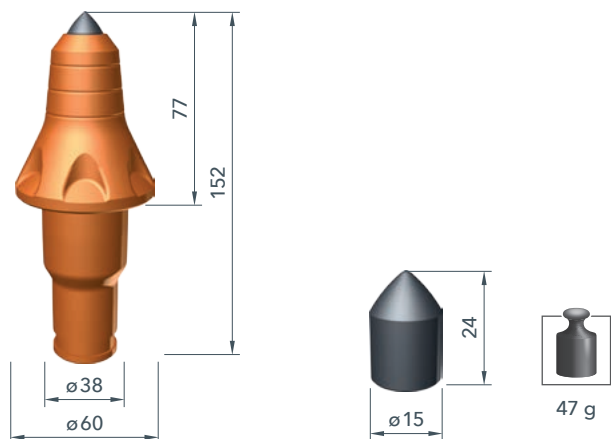
SURFACE MINER PICKS PRODUCT RANGE

Pick designation	Carbide tip	Part No. (per unit)	Quantity per toolbox	Weight per toolbox (kg)	Quantity standard palette (overseas palette)	Page	
Picks for surface mining with shank 38 / 30 mm in diameter							
WSM1-15-77/38/30		47 g	47571	10	12.56	600 (540)	44
WSM1-15-100/38/30		47 g	161705	10	15.10	600 (540)	44
WSM1-17-77/38/30		73 g	48350	10	13.73	600 (540)	44
WSM1-17-100/38/30		73 g	2256278	10	16.10	600 (540)	45
WSM1-19-77/38/30		84 g	70225	10	13.85	600 (540)	45
WSM3-24-77/38/30		64 g	185018	10	13.36	600 (540)	45
Picks for surface mining with shank 42 mm in diameter							
WSM1-17-77/42		73 g	2515527	6	13.70	360 (324)	46
WSM2-17-90/42		45 g	2521649	6	14.60	360 (324)	46
WSM2-17-90P/42		45 g	2537681	6	14.72	360 (324)	46
WSM1-19-77/42		84 g	2521596	6	13.82	360 (324)	47
WSM1-19-77P/42		84 g	2537688	6	13.94	360 (324)	47
WSM1-22-77/42		139 g	2515526	6	14.12	360 (324)	47
WSM1-22-77P/42		139 g	2537689	6	14.18	360 (324)	48
WSM1-25-77P/42		180 g	2537692	6	14.42	360 (324)	48

ORIGINAL WIRTGEN PICK DETAILS FOR SURFACE MINERS

WSM1-15-77/38/30

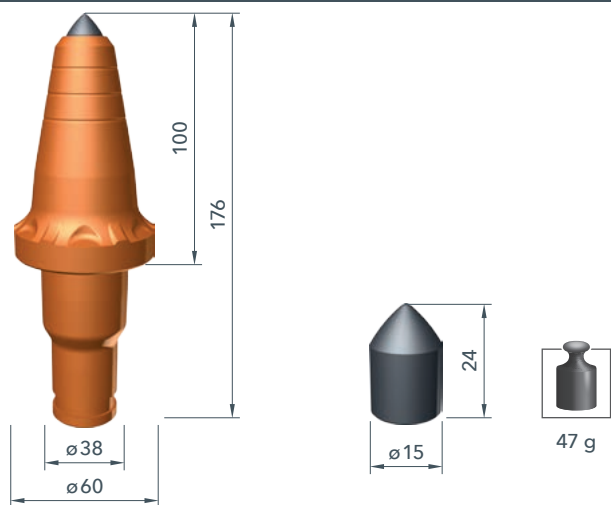
Part No.: 47571



Type	Meaning
WSM1	Cylindrical carbide tip
-15	15 mm carbide tip diameter
-77	77 mm pick head length
/38/30	Stepped shank diameter from 38 mm to 30 mm

WSM1-15-100/38/30

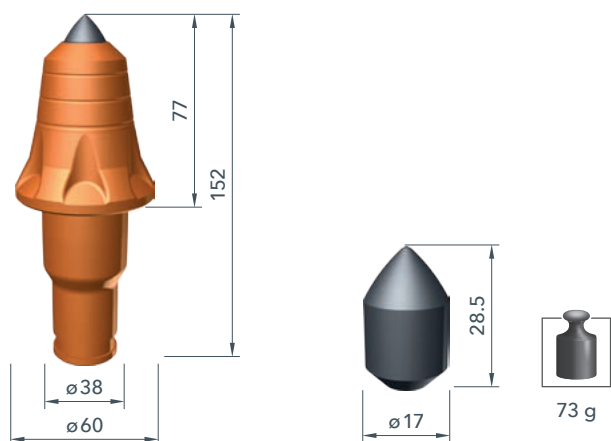
Part No.: 161705



Type	Meaning
WSM1	Cylindrical carbide tip
-15	15 mm carbide tip diameter
-100	100 mm pick head length
/38/30	Stepped shank diameter from 38 mm to 30 mm

WSM1-17-77/38/30

Part No.: 48350



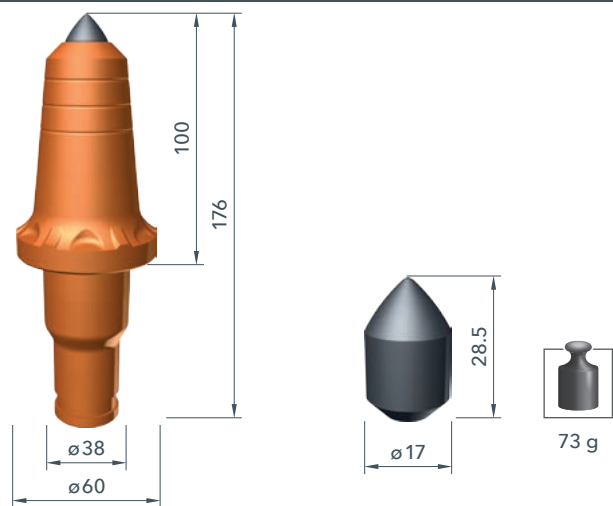
Type	Meaning
WSM1	Cylindrical carbide tip
-17	15 mm carbide tip diameter
-77	77 mm pick head length
/38/30	Stepped shank diameter from 38 mm to 30 mm

Unit of measurement in mm



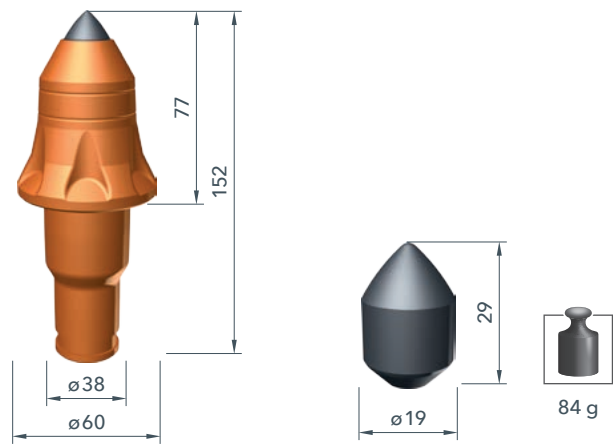
WSM1-17-100/38/30 Part No.: 2256278

Type	Meaning
WSM1	Cylindrical carbide tip
-17	17 mm carbide tip diameter
-100	100 mm pick head length
/38/30	Stepped shank diameter from 38 mm to 30 mm



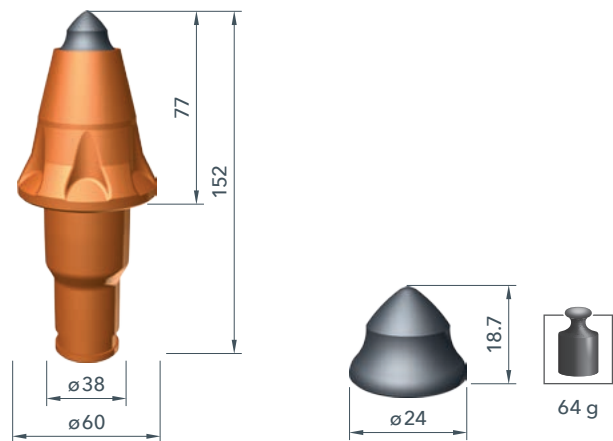
WSM1-19-77/38/30 Part No.: 70225

Type	Meaning
WSM1	Cylindrical carbide tip
-19	19 mm carbide tip diameter
-77	77 mm pick head length
/38/30	Stepped shank diameter from 38 mm to 30 mm



WSM3-24-77/38/30 Part No.: 185018

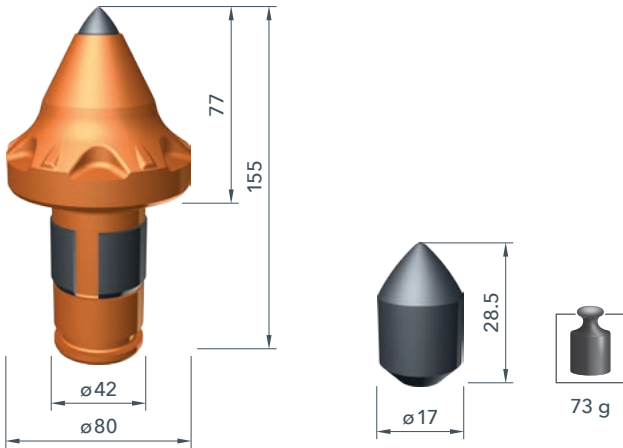
Type	Meaning
WSM3	Cap-shaped carbide tip
-24	24 mm carbide tip diameter
-77	77 mm pick head length
/38/30	Stepped shank diameter from 38 mm to 30 mm



ORIGINAL WIRTGEN PICK DETAILS FOR SURFACE MINERS

WSM1-17-77/42

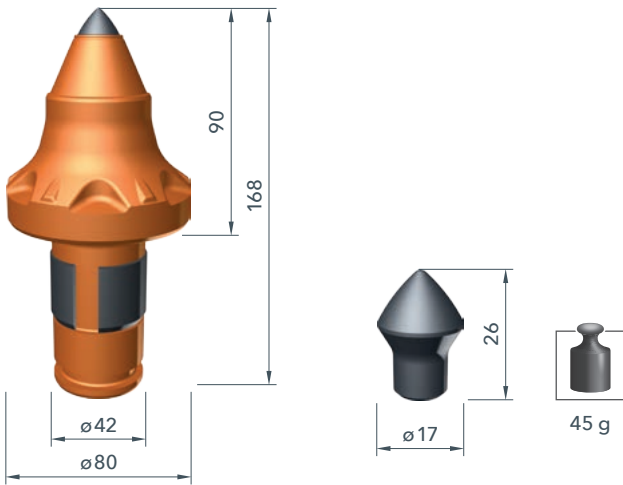
Part No.: 2515527



Type	Meaning
WSM1	Cylindrical carbide tip
-17	17 mm carbide tip diameter
-77	77 mm pick head length
/42	Shank diameter 42 mm

WSM2-17-90/42

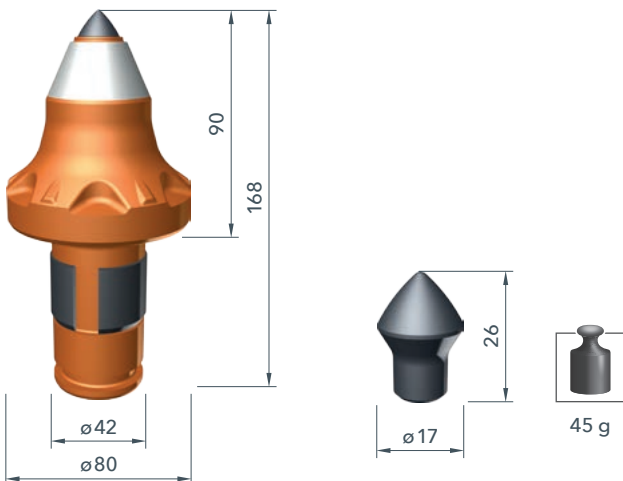
Part No.: 2521649



Type	Meaning
WSM2	Mushroom-shaped carbide tip
-17	17 mm carbide tip diameter
-90	90 mm pick head length
/42	Shank diameter 42 mm

WSM2-17-90P/42

Part No.: 2537681



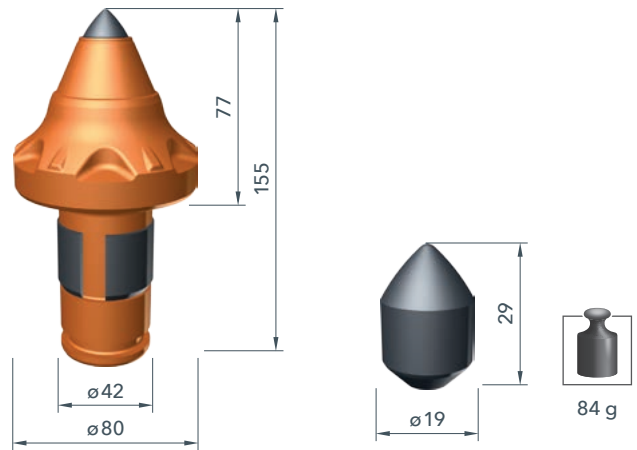
Type	Meaning
WSM2	Mushroom-shaped carbide tip
-17	17 mm carbide tip diameter
-90	90 mm pick head length
P	Armoured pick head
/42	Shank diameter 42 mm

Unit of measurement in mm



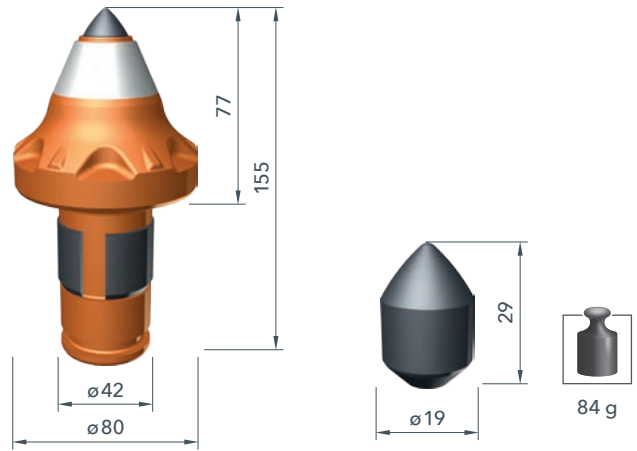
WSM1-19-77/42 Part No.: 2521596

Type	Meaning
WSM1	Cylindrical carbide tip
-19	19 mm carbide tip diameter
-77	77 mm pick head length
/42	Shank diameter 42 mm



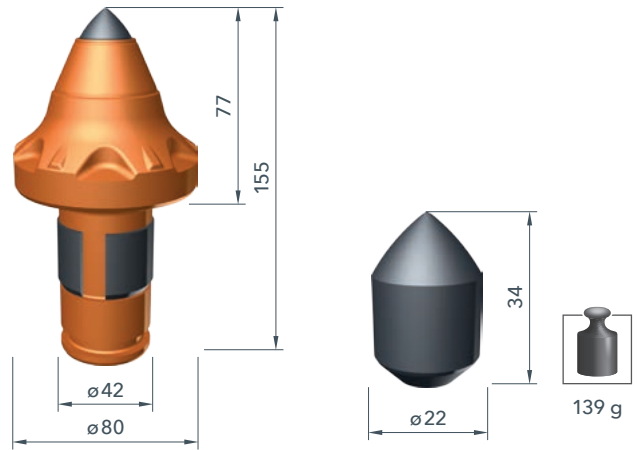
WSM1-19-77P/42 Part No.: 2537688

Type	Meaning
WSM1	Cylindrical carbide tip
-19	19 mm carbide tip diameter
-77	77 mm pick head length
P	Armoured pick head
/42	Shank diameter 42 mm



WSM1-22-77/42 Part No.: 2515526

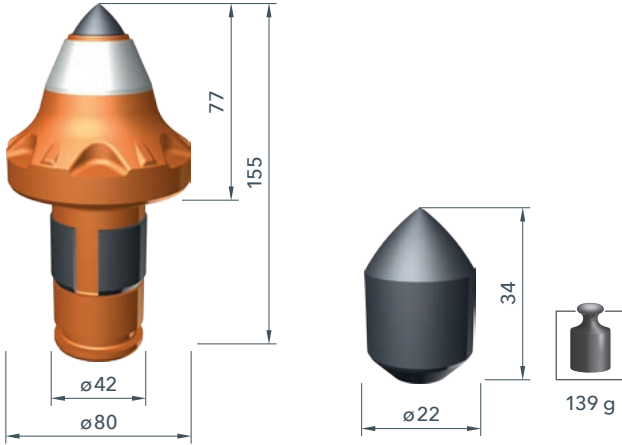
Type	Meaning
WSM1	Cylindrical carbide tip
-22	22 mm carbide tip diameter
-77	77 mm pick head length
/42	Shank diameter 42 mm



ORIGINAL WIRTGEN PICK DETAILS FOR SURFACE MINERS

WSM1-22-77P/42

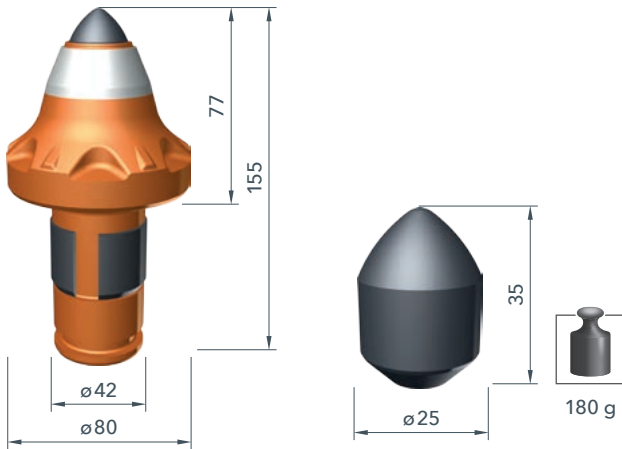
Part No.: 2537689



Type	Meaning
WSM1	Cylindrical carbide tip
-22	22 mm carbide tip diameter
-77	77 mm pick head length
P	Armoured pick head
/42	Shank diameter 42 mm

WSM1-25-77P/42

Part No.: 2537692



Type	Meaning
WSM1	Cylindrical carbide tip
-25	25 mm carbide tip diameter
-77	77 mm pick head length
P	Armoured pick head
/42	Shank diameter 42 mm



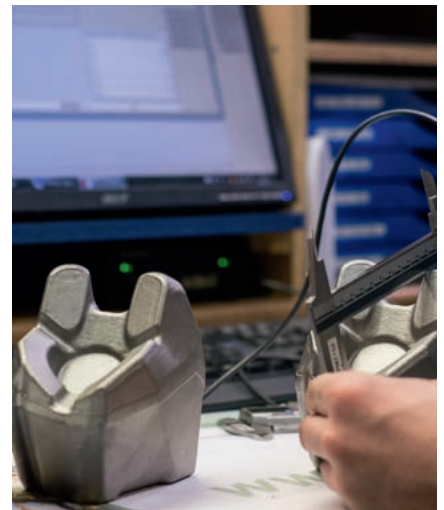
**WIRTGEN SURFACE MINERS:
RUGGED MACHINES FOR
TOUGH APPLICATIONS**

ORIGINAL WIRTGEN

PICK TOOLHOLDER SYSTEMS – THE BENCHMARK IN QUALITY AND COST

PHILOSOPHY OF THE WIRTGEN QUICK-CHANGE TOOLHOLDER SYSTEM

Based on the idea of replacing worn or defective toolholder upper parts as quickly as possible directly on-site, and thereby substantially reducing machine downtimes, WIRTGEN has been developing quick-change toolholder systems since 1990. They primarily consist of two parts: a housing (bottom part of toolholder), welded to the milling drum tube, and a toolholder (upper part), connected to the housing by a quick-release bolt connection.



Continuous further development has produced generations of different toolholders. Although these have been optimised, they still retain their unique zigzag shape.

FORGING AND MACHINING PRODUCTION PROCESS

High-quality hardened and tempered steels are worked in the forging process. Their wear resistance, the special heat treatment and years of production expertise form the basis for the excellent toolholder quality and guarantee a long service life and fracture resistance. In order to produce component dimensions as exactly as possible, extremely tight tolerances are adhered to during the production process.

HEAT TREATING AND HARDENING PRODUCTION PROCESS

Final toolholder heat treating and hardening is particularly important, because both the great hardness and the necessary ductility represent important properties with regard to low wear. Using the most up-to-date production and testing methods, WIRTGEN continuously produces toolholders in a constant quality and thus guarantees optimum service lifetimes for the quick-change toolholder systems.

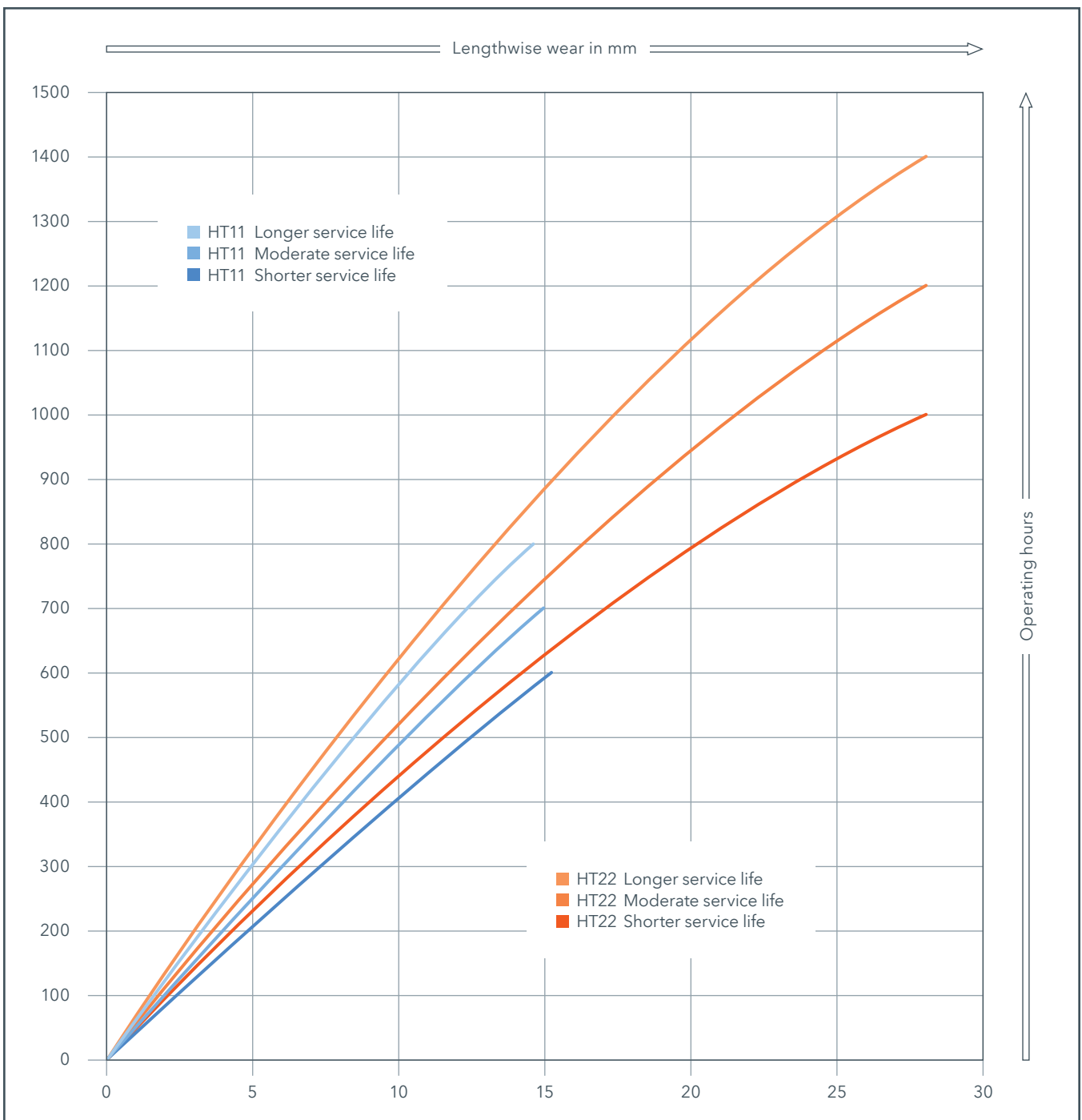
DEVELOPMENT OF THE WIRTGEN QUICK-CHANGE TOOLHOLDER SYSTEMS

In the design and development phase, the most modern examination methods and computer simulations such as the finite element method (FEM) are applied. Component behaviour can be determined and optimised even at this early stage of the simulation. Long and extensive tests are performed in parallel under maximum loads and in extreme situations.



LENGTHWISE WEAR ON THE TOOLHOLDER OVER OPERATING HOURS

Thanks to the 100% increase in the maximum wear path, the service life of the toolholder can be as much as 1000 hours under optimum conditions.



ORIGINAL WIRTGEN

QUICK-CHANGE TOOLHOLDER SYSTEM HT22

The quick-change toolholder system HT22 is characterised primarily by an increased wear resistance. The system's especially long service life makes itself apparent on the construction site by a considerable reduction of the replacement intervals. A characteristic feature is the prismatic arranged contact surface.

The seals between the upper and bottom part ease disassembly. WIRTGEN furthermore offers a lubricating grease which protects the quick-change toolholder from corrosion (refer to page 184).



- 1 Larger intervals** for torque control at the quick-change toolholder screws (every 500 hours) reduce maintenance enormously.
- 2 Significantly larger, more robust and self-centring contact surfaces** of the upper to bottom part ensure a longer service life of the milling drums.
- 3 A larger shank cross section** and optimised shank geometry provide increased resistance to breakage.
- 4 Higher pretension** through optimised screw position for reliable system pretension of the upper part in the bottom part.
- 5 Upper part service life** is extended by the enormously increased, maximum wear path.





No.	Designation	Description	Part No.
1	Toolholder HT22	Ø 20 mm	2198001
2	Toolholder HT22	Ø 22 mm	2198002
3	Toolholder HT22	Ø 25 mm	2198003
4	Dummy upper part HT22		2198005
5	Retaining screw for HT22	M30x2	158501
6	Plug HT22	Individual	2197999
		100 pieces	2197988
7	Bottom part seal	Individual	2198006
		100 pieces	2197989

ORIGINAL WIRTGEN

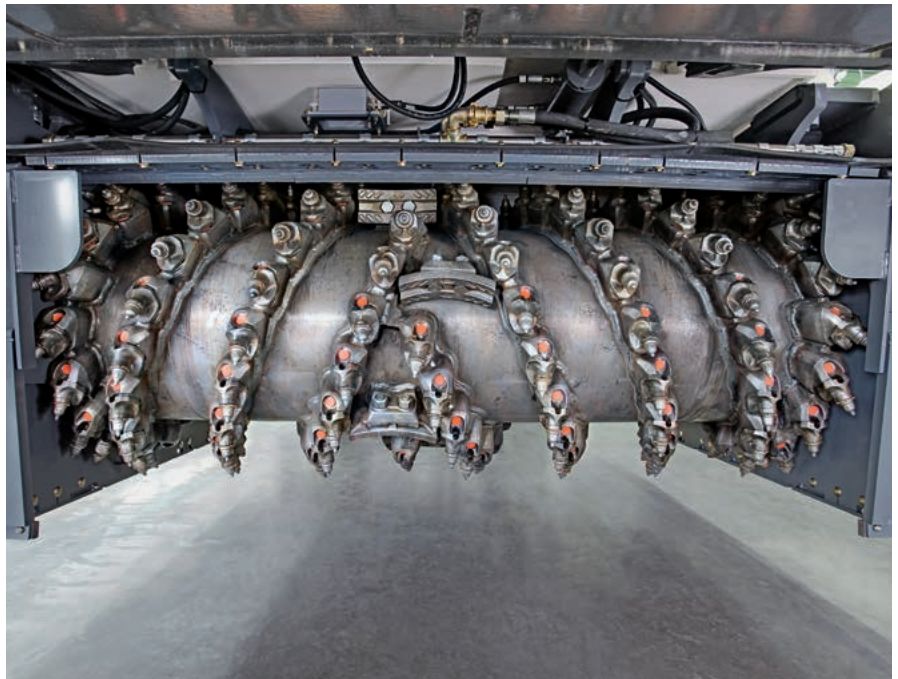
QUICK-CHANGE TOOLHOLDER SYSTEM

HT11

HT11

Due to the large contact surface of the upper part to completely cover that of the bottom part ensures a tight fit between the two. During the milling process a seal prevents fine dirt particles settling between the parts.

On the upper part HT11-R, the groove in the rear area of the upper part enables fine milling particles to be washed out of the bore. This prevents the sticking of the pick in the hole much as possible the pick can be used considerably longer, with better rotation behaviour.



No.	Designation	Description	Part No.
1	Toolholder HT11-R	Ø 20 mm	187002
2	Toolholder HT11-R	Ø 22 mm	199001
3	Toolholder HT11	Ø 25 mm	199002
4	Dummy upper part HT11		194755
5	Retainer screw for HT11	M30x2	158501
6	Plug HT11	Individual	158508
		100 pieces	187004
7	Bottom part seal	Individual	158509
		100 pieces	187005



QUICK-CHANGE TOOLHOLDER SYSTEMS

HT3 AND HT2

HT3

The HT3 quick-change toolholder system was developed from the first generation of WIRTGEN toolholders. Between 1997 and 2004 two standard upper parts were available. For cold milling machines an upper part is available for the picks with a 20-mm shank, for recyclers and ground stabilisers with a 22-mm shank diameter.

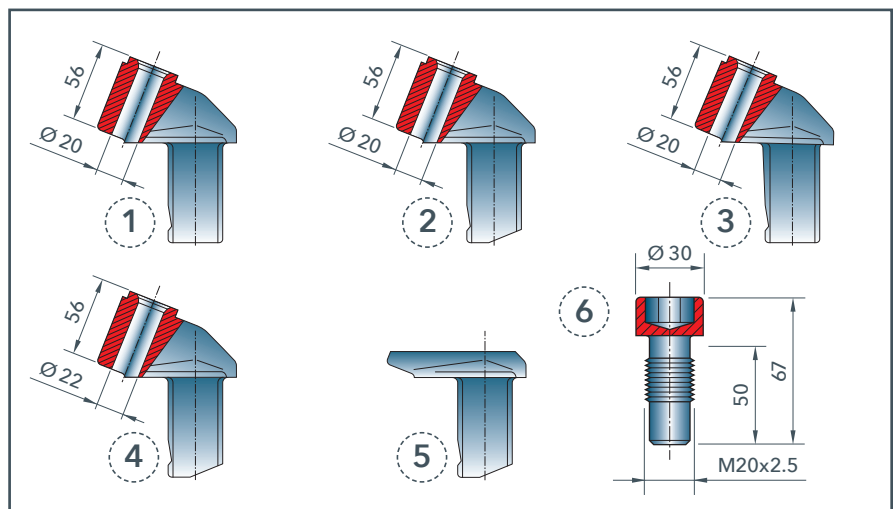


No.	Designation	Description	Part No.
1	Toolholder HT3-R	Ø 20 mm	198000
2	Toolholder HT3-R	Ø 22 mm	198001
3	Dummy upper part HT3		101472
4	Retainer screw HT3	M24x2	79998
5	Plug HT3		126110

HT2

WIRTGEN developed the first quick-change toolholder system from 1992 to 1996. HT2 was developed for different machine types and applications.

The standard upper part for picks with a 20-mm shank is available for milling machines, another upper part for picks with a 22-mm shank for recyclers.



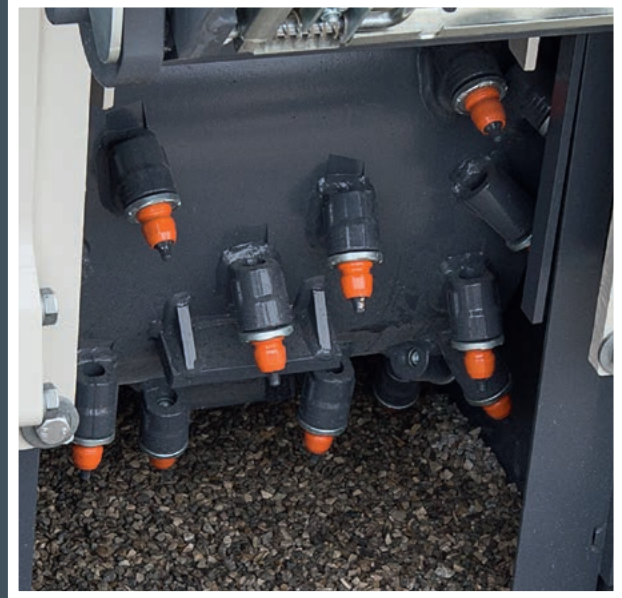
No.	Designation	Description	Part No.
1	Toolholder HT2	Ø 20 mm	49765
2	Toolholder HT2-170	Ø 20 mm	74801
3	Correcting toolholder HT2	Ø 20 mm	82755
4	Toolholder HT2-170	Ø 22 mm	97180
5	Dummy upper part HT2		89888
6	Retainer screw HT2	M20x2.5	56290

ORIGINAL WIRTGEN WELDED TOOLHOLDERS HT08

With the HT08 toolholder system, the toolholders are permanently welded to the milling drum.

They are preferred for milling drums with small cutting circle diameters.

The enhanced HT08 toolholder system replaces its predecessor model HT01 and impresses with its optimised characteristics.



- 1** *Intelligent material distribution* increases the expected service life by up to 75% (vis-à-vis HT01).
- 2** *Reinforced positioning cylinders* enable improved repositionability.
- 3** *The design height of the toolholder* ensures the use of an automatic pick ejector at any condition of wear. It reduces the time needed for changing the picks.
- 4** *The holder geometry* enables low-wear integration of the welded seam along the border of the milling drum throughout the entire useful life.
- 5** *Due to an adapted holder geometry and a corresponding milling pocket*, an ideal welding seam can be applied onto the milling drum tube.





- > **Wear margin**
(see measure x):
HT01 = 10 mm
HT08 = 17.5 mm

EFFICIENT DESIGN

The efficient design and high strength materials increase the lifespan of the toolholder by approximately 75%.



- > **Length of the positioning cylinder** (see measure z):
HT01 = 2 mm
HT08 = 5 mm
- > **Diameter of the positioning cylinder:**
HT01 = 7.5 mm
HT08 = 10 mm

MORE EXACT POSSIBILITY OF RE-POSITIONING

Accurate positioning when replacing toolholders is improved by the revised geometry of the toolholder.



> HT08



> conventional, e.g. HT01

- > *Improved access to all toolholders on the milling drum (compare measures a and b), enhances the cutting tool replacement process.*

SIMPLE CHANGE OF PICKS

HT08 is designed for quick pick changing by means of the automatic pick ejector.

This reduces downtime significantly under normal field conditions.

ORIGINAL WIRTGEN

WELDED TOOLHOLDERS

TOOLHOLDERS FOR PICKS WITH SHANK DIAMETER 13 MM

These systems are used on milling drums or various cutting wheels requiring extremely small installed sizes.

Two types are available here:

- > HT04: Wrought toolholder without positioning
- > HT4: Socket-type toolholders with precise positioning on a prepared milling drum tube.

TOOLHOLDERS FOR PICKS WITH SHANK DIAMETER 20 MM

These toolholders represent the world-wide standard for the conventional shank diameter of picks for road milling machines.

Good weldability and a long service life are achieved due to the use of high-quality materials and special tempering processes. The following types are available:

- > HT02 und HT03: Simple, forged toolholder. Without positioning.
- > HT5: Socket-type toolholders for picks with accurate positioning on a prepared milling drum tube.
- > HT5 plus: Socket-type toolholder with pick contact area enlarged to 44 mm to reduce toolholder wear. Can be accurately positioned on the prepared milling drum tube.
- > HT08 (and previous model HT01): Proven toolholders with enlarged contact surface and with two positioning rams for precise positioning on the milling drum (see page 56).

TOOLHOLDERS FOR PICKS WITH SHANK DIAMETER 25 MM

- > HT9: Simple, forged toolholders. Without positioning.
- > HT13: Socket-type toolholders, especially for soil stabilisation and cold recycling. Can be positioned on prepared retainers on the milling drum.

EDGE PROTECTORS FOR PICKS WITH SHANK DIAMETER 20 AND 22 MM

- > 3-way toolholders with preset contact angles.





No.	Designation	Description	Part No.
1	Toolholder HT04	Ø 13 mm	57629
2	Toolholder HT4	Ø 13 mm	72258
3	Toolholder HT01	Ø 20 mm	36780
4	Toolholder HT08	Ø 20 mm	2321470
5	Toolholder HT02	Ø 20 mm	5244
6	Toolholder HT02	Ø 22 mm	2046579
7	Toolholder HT03	Ø 20 mm	5243
8	Toolholder HT5	Ø 20 mm	74745
9	Toolholder HT5	Ø 22 mm	124218
10	Toolholder HT5 plus	Ø 20 mm	194362
11	Toolholder HT9	Ø 25 mm	137503
12	Toolholder HT13	Ø 25 mm	2068238
13	Edge protector 3-way	Ø 20 mm	69902
14	Edge protector 3-way	Ø 22 mm	162459

ORIGINAL WIRTGEN

QUICK-CHANGE TOOLHOLDER SYSTEM HT15 FOR SURFACE MINING

Based on decades of experience in the area of road milling machines, in 2011 the world's first quick-change toolholder system for surface mining applications was developed.

Thanks to the quick and straightforward replacement of worn toolholders, the availability and therefore also the productivity of the machine can be significantly increased. Due to this innovation the economical extraction of resources as well as the extraction of rock become even more attractive.



1 Special heat treatment of the holder shank provides increased structural strength and facilitates the use of picks with 42-mm shank diameter with its robust shank mounting.

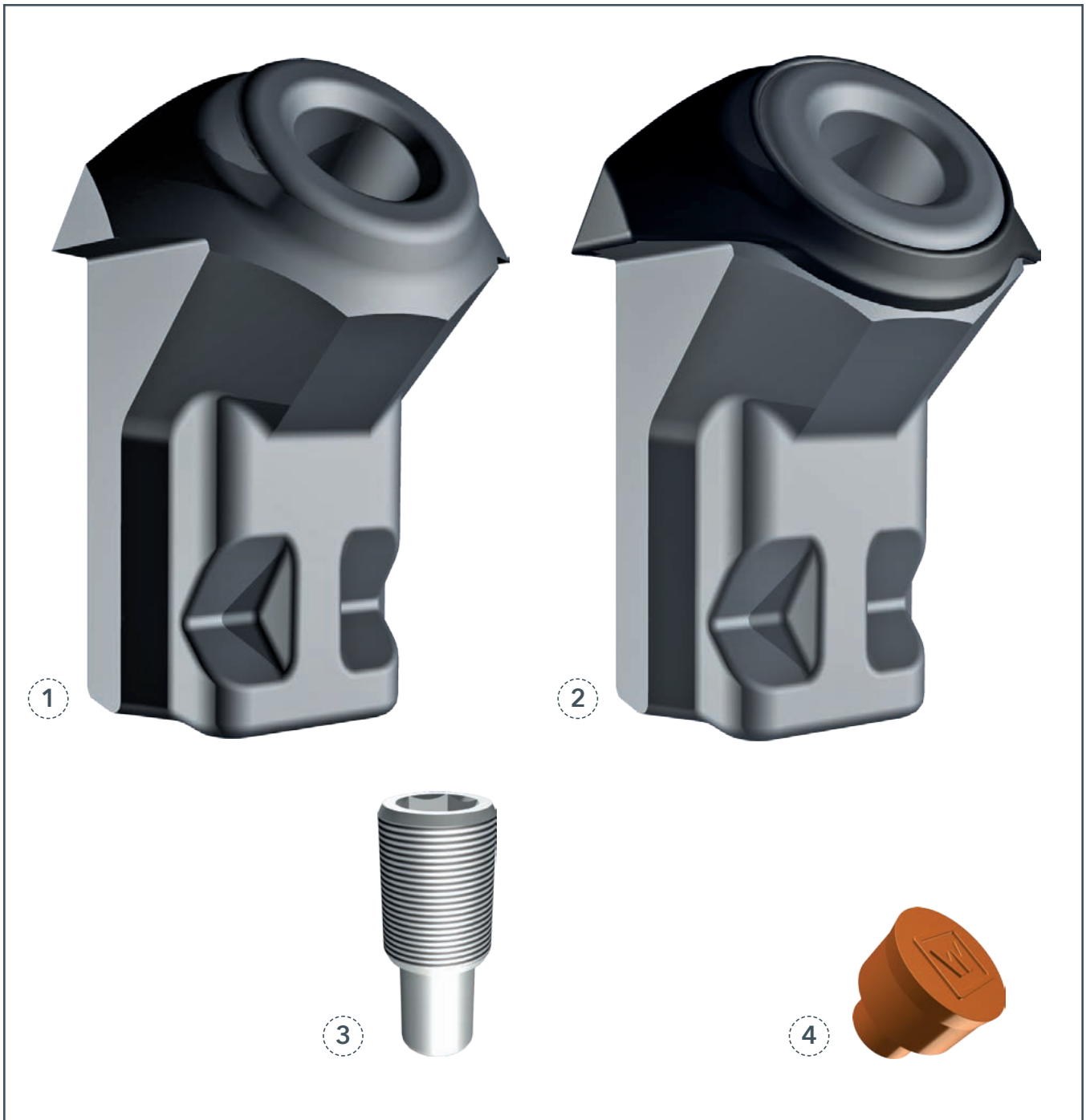
2 Double prism leads to ideal position and support of the upper part in the bottom part while the precise contact surface between the upper and bottom part deflect cutting forces.

3 The material guide vane protects the bottom part against abrasive wear.

4 The pronounced recesses in the bottom part prevent damage to internal thread and screws.

5 Massive fastening screw with M36x2 thread and 22-mm female hex combined with the flexible silicone plugs seal the fine threads from dirt and moisture.





No.	Designation	Description	Part No.
1	Toolholder HT15	Ø 42 mm (incl. plugs and screws)	2202084
2	Toolholder HT15 armoured	Ø 42 mm (incl. plugs and screws)	2218787
3	Retainer screw HT15	M36x2 (two are required per holder)	2162867
4	Plug HT15	(two are required per holder)	2189085

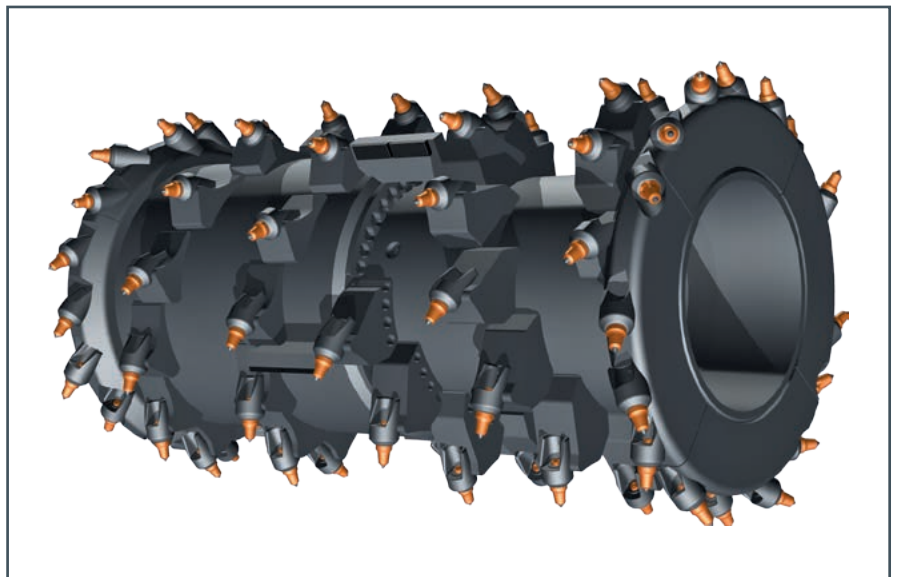
ORIGINAL WIRTGEN

WELDED TOOLHOLDERS FOR SURFACE MINING

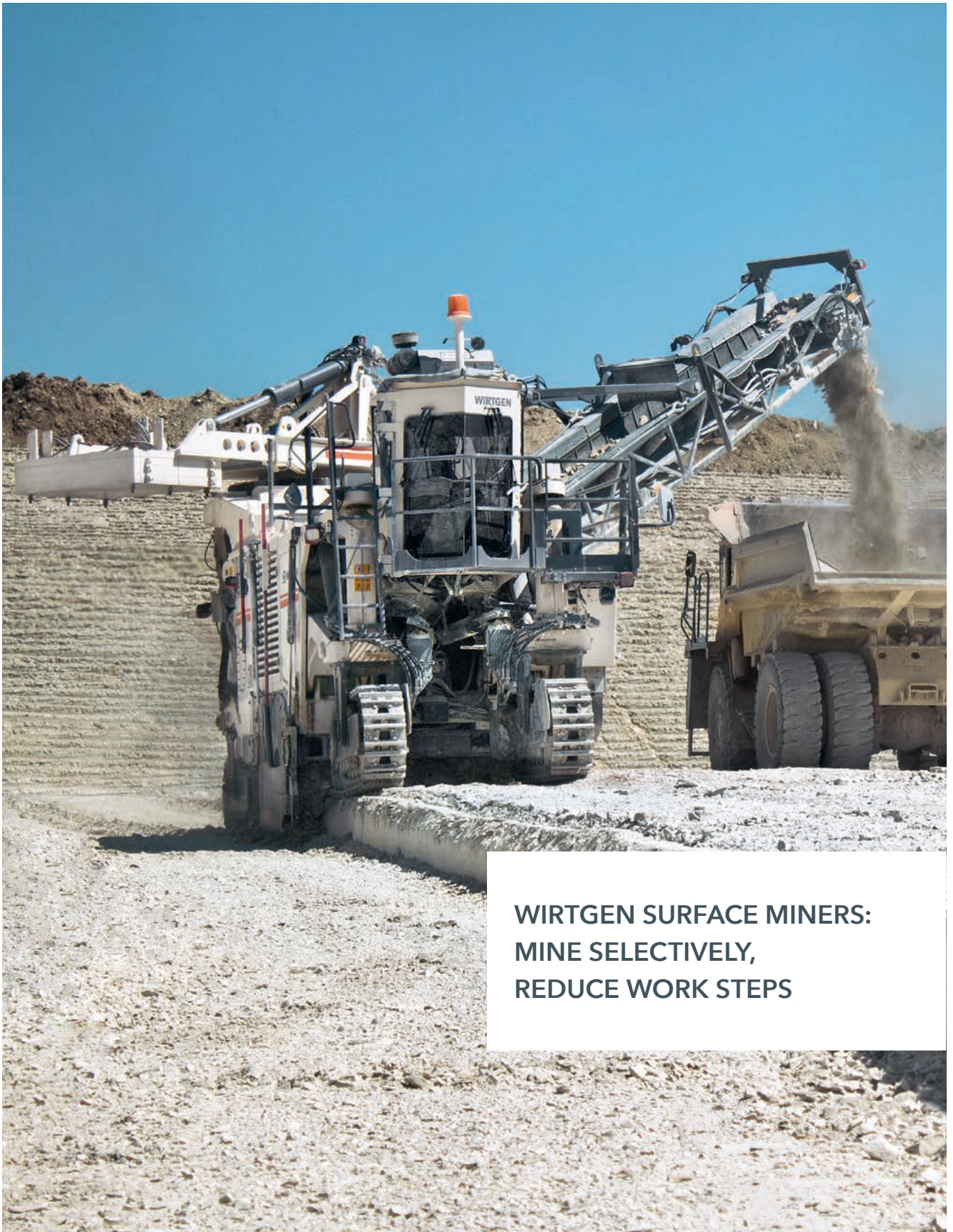
HIGHLY ROBUST TOOLHOLDERS FOR SURFACE MINERS

Unlike the relatively homogeneous structure of an asphalt pavement, the irregular rock formations can cause enormous peak loads on the individual toolholders. For this reason, special systems have been developed in which all the components and their connections on the milling drum are adapted specifically to the loads encountered.

- > Toolholder HT06: Heavy-duty toolholders with two positioning pins for accurate positioning on the welded helical elements. The toolholders are chamfered for easier welding.
- > Toolholder HT6: Socket-type for picks with exact positioning feature on prepared bottom parts on the milling drum tube. The shape of the toolholder in relation to the bottom part is selected such that high loads can be transferred.
- > Toolholder HT14: Socket-type, similar to the HT6 toolholder but with 42-mm pick bore and increased outer diameter as wear cladding.



No.	Designation	Description	Part No.
1	Toolholder HT06	Ø 38-30 mm	78556
2	Toolholder HT6	Ø 38-30 mm	95781
3	Toolholder HT14	Ø 42 mm	2068087

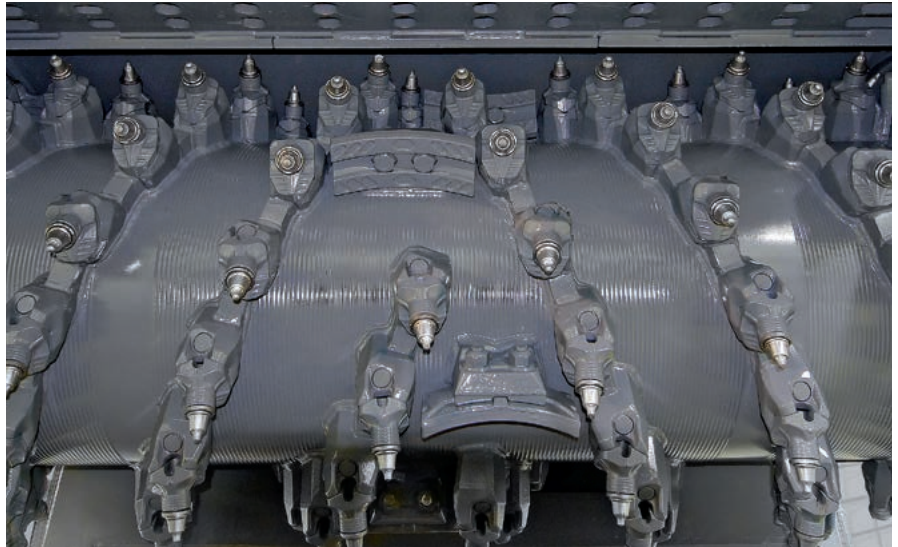


**WIRTGEN SURFACE MINERS:
MINE SELECTIVELY,
REDUCE WORK STEPS**

ORIGINAL WIRTGEN

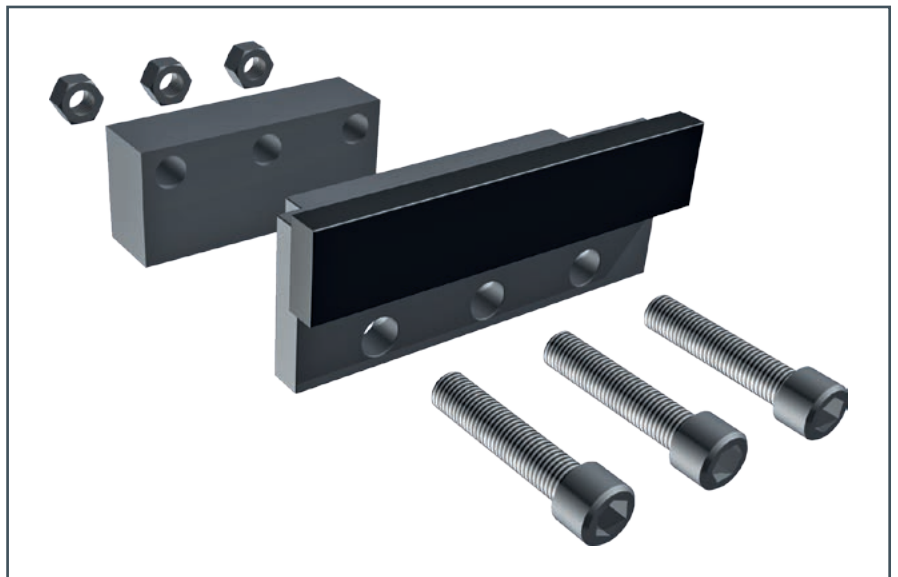
EJECTORS TYPE 1 AND TYPE 2

To optimise the milling process it is necessary to transport the milled material quickly and effectively out of the milling drum housing. The efficient removal of the milled material reduces the wear on the milling drum tube as well as on all cutting components (picks and toolholder system). For this, ejectors are installed precisely on the milling drum. WIRTGEN offers two types of ejectors with 150- and 250-mm width.



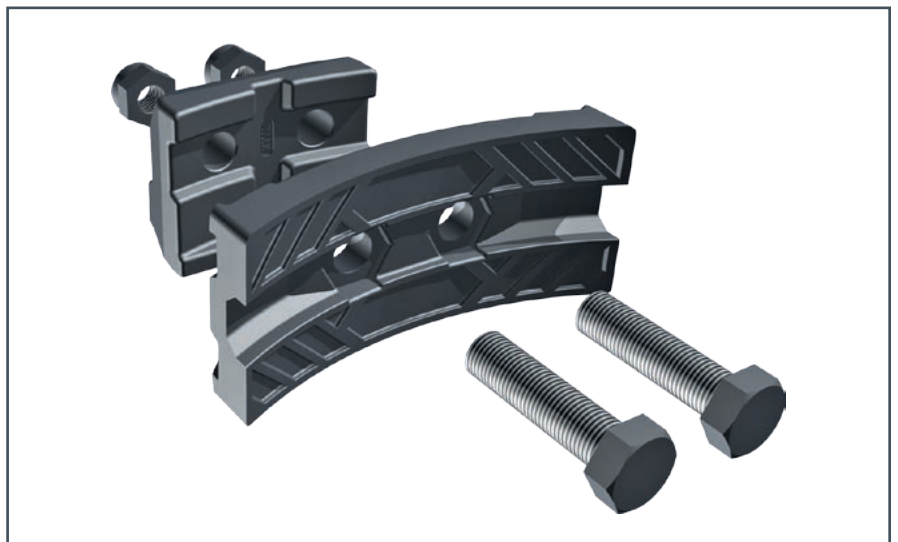
EJECTOR TYPE 1

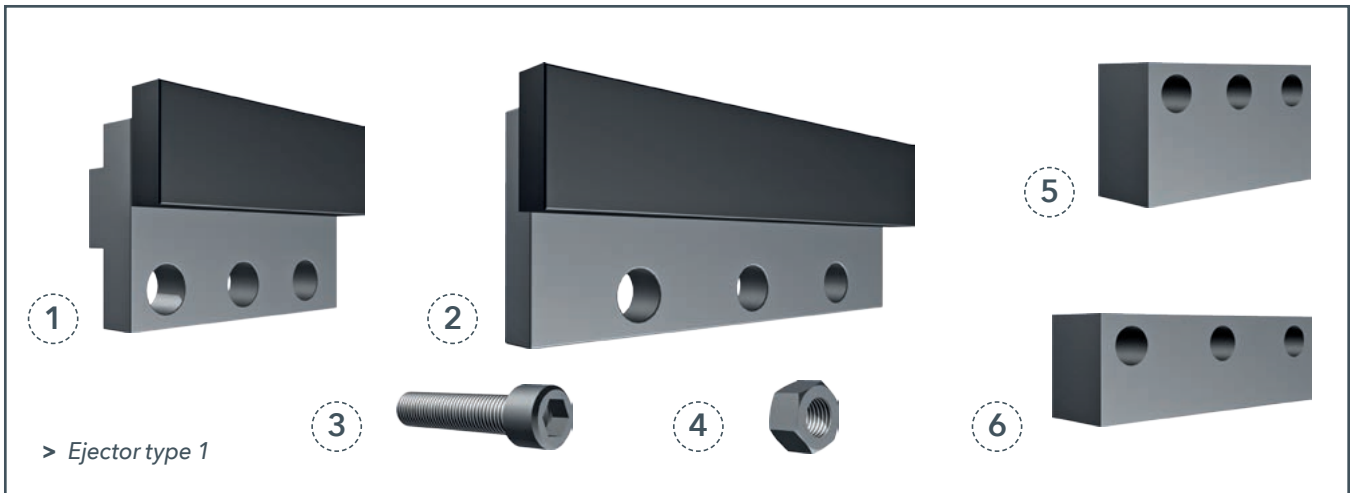
The ejector bar should always have sufficient wear coating to ensure that the milling process and the material transport can run smoothly. If this is not the case, the ejectors at the milling drum should be completely replaced.



EJECTOR TYPE 2

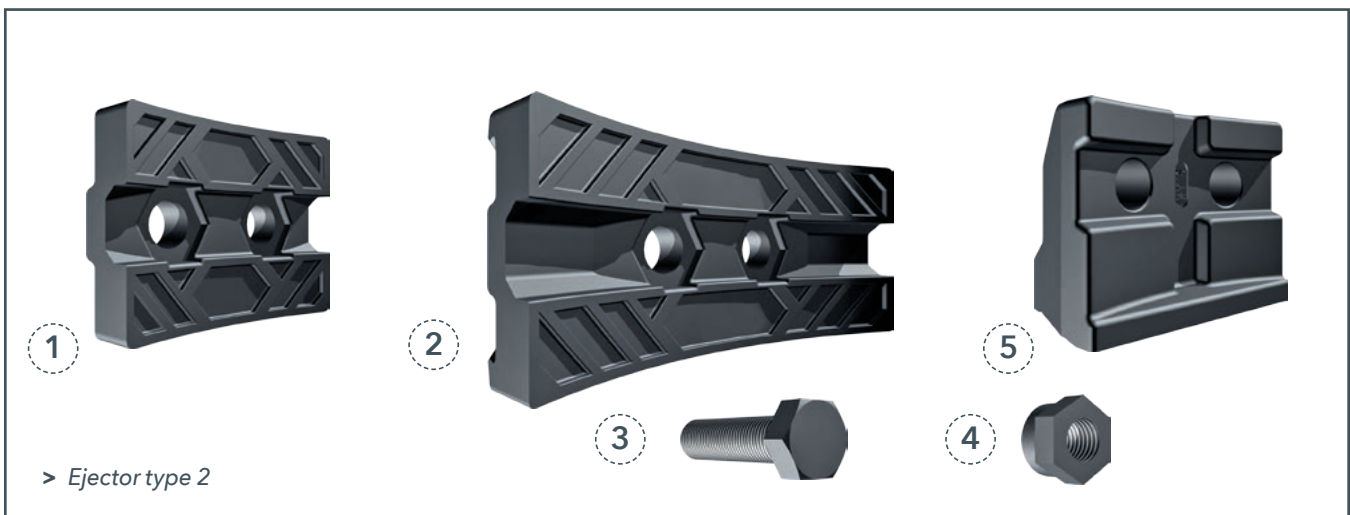
Due to optimised geometry of the type 2 ejectors, the milled material transport has considerably improved. Since the ejectors are designed symmetrically and therefore have two identical wear edges, they can be turned around when worn down. The large contact surface to the upper part absorbs all impacting forces and deflects those. Due to the hexagonal shape in the front area, fitting is made significantly easier and the time required for changing is reduced.





Ejector type 1

No.	Designation	Description	Part No.
1	Ejector type 1	Width: 150 mm	45220
2	Ejector type 1	Width: 250 mm	44097
3	Single fastening screw		4633
4	Single fastening nut		36105
5	Ejector holder	for ejector widths of 150 mm	52320
6	Ejector holder	for ejector widths of 250 mm	37972
	Single locking washer (one per screw joint)		5160



Ejector type 2

No.	Designation	Description	Part No.
1	Ejector type 2	Width: 150 mm	2140636
2	Ejector type 2	Width: 250 mm	2140635
3	Single fastening screw		4620
4	Single fastening nut (self-locking)		30392
5	Ejector holder	for ejector widths of 150 mm/250 mm	2140637

ORIGINAL WIRTGEN

MILLING DRUMS FROM THE WORLD MARKET LEADER FOR VERSATILE USES



THE LEADER IN ENGINEERING DESIGN AND PRODUCTION OF MILLING DRUMS

Milling drums designed and produced in the Windhagen plant are the central element of the WIRTGEN road milling machines known throughout the world. Both, then and now, WIRTGEN invests in expanding its core competence of cutting technology for the benefit of its customers.

THE KEY TO VERSATILE MILLING MACHINES

Operators want to use their milling machines for as many different jobs as possible. That is why WIRTGEN supplies a large variety of optional drums as part of its standard range.

This allows the customer to engage in a wealth of applications for machining pavements, performing recycling contracts or in the selective extraction of hard rock.

The decision to buy a WIRTGEN machine is underlined by this versatility.

SPECIAL PROJECTS BRING PROXIMITY TO THE CUSTOMER

New requirements are repeatedly imposed upon the construction industry and that is why almost never a day passes without WIRTGEN receiving at least one enquiry for a solution using milling technology.

And solutions have evidently been found, as proved by the numerous special milling drums supplied for machines built by WIRTGEN and other companies, as well as for special machines, such as stationary processing plants or even minesweepers.

> THE W 200 Hi
Compact large
milling machine
for dual flush-to-
kerb milling

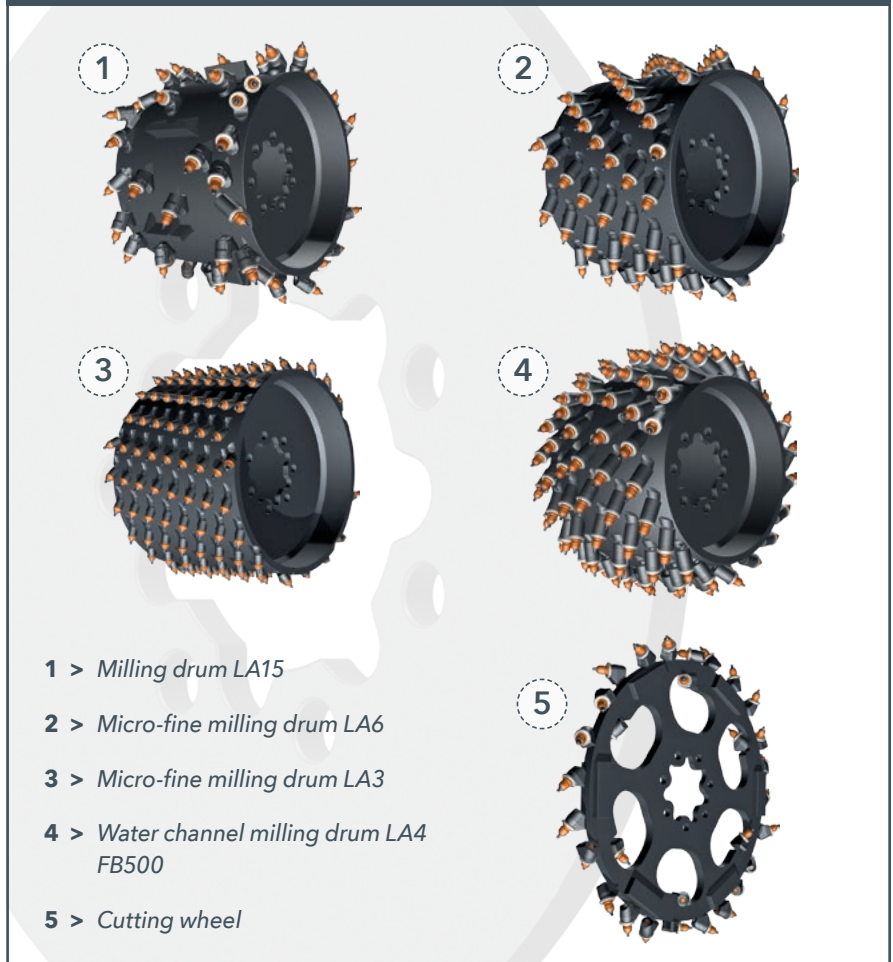


THE MILLING DRUM GENERALLY HAS TO FULFIL THREE MAIN TASKS:

- > Cutting and breaking out material particles from the composite.
- > Transporting: Transport of loosened material particles to the area of the ejector.
- > Ejection of the broken material particles onto the loading conveyor.

WIRTGEN offers the ideal milling drum for every application to ensure that the machine's potential can be optimally exploited.

Examples of various milling drums for small milling machines



- 1 > Milling drum LA15
- 2 > Micro-fine milling drum LA6
- 3 > Micro-fine milling drum LA3
- 4 > Water channel milling drum LA4 FB500
- 5 > Cutting wheel



Original WIRTGEN milling drums, commonly equipped with an ornamental flange, ensure exceptional performance and optimum results. This ornamental milling drum flange is a special mark of quality of WIRTGEN milling drums, signifying that this is an original WIRTGEN milling drum.

Type of milling drum	Line spacing	Max. milling depth	Usage options
Eco Cutter Rough milling drums	20 mm 25 mm	up to 35 cm	For greater demands on volume milling performance > Concrete milling > Complete removal of road surfaces
Standard milling drums	12 mm 15 mm 18 mm	up to 35 cm	Universal milling drum for versatile use > Removing surface and binder courses > Complete removal of road surfaces > Concrete milling
Fine milling drums	8 mm 10 mm	up to 8 cm	For high demands on macro- and micro-profile > Removal of surface layers, incl. construction of a more even surface > Corrective milling work on roadway profiles
Micro-fine milling drums	3 mm 5 mm 6 mm	up to 3 cm	For the highest demands on macro- and micro-profile > Increase in surface grip by roughening roadway surfaces using the micro-fine milling process > Increasing the evenness of concrete roadways > Preparation milling for surface treatment, cold paving of thin layers and other thin-layer paving > Removal of coatings from road surfaces or hall floors > Removal of markings on the road surface > Milling into markings on the road surface

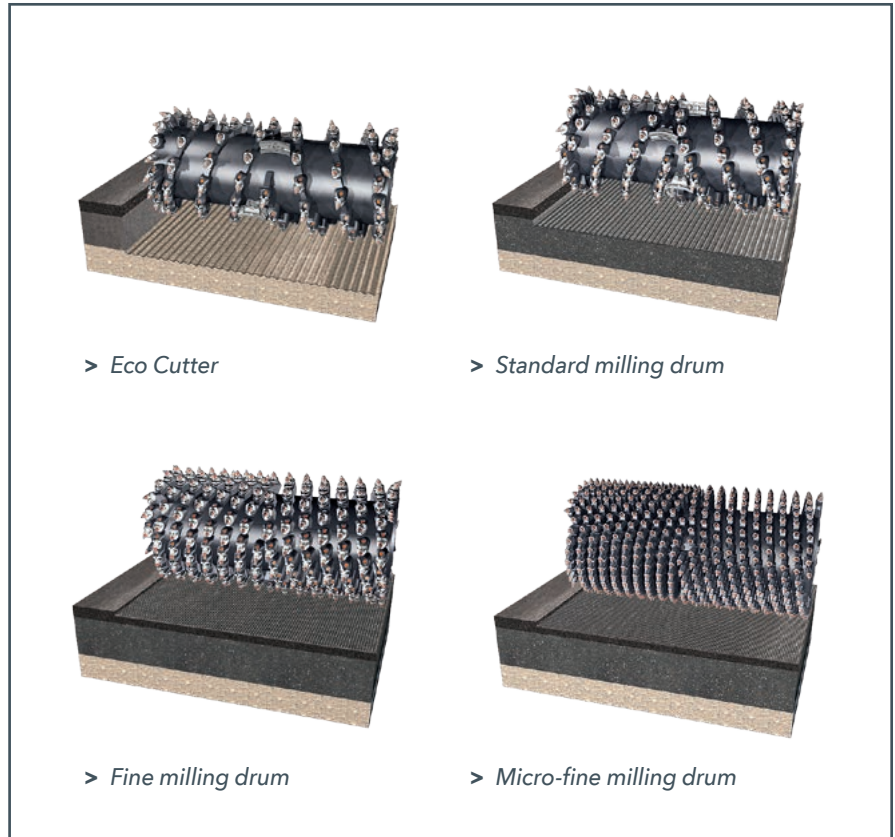
ORIGINAL WIRTGEN

MILLING DRUMS FROM THE WORLD MARKET LEADER FOR VERSATILE USES

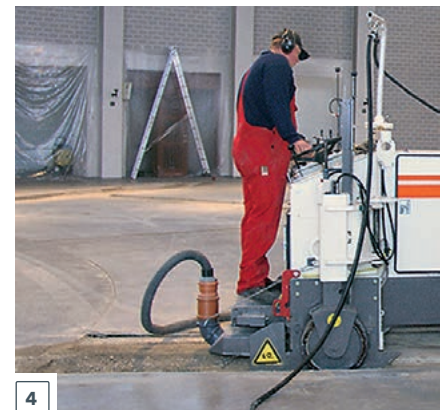
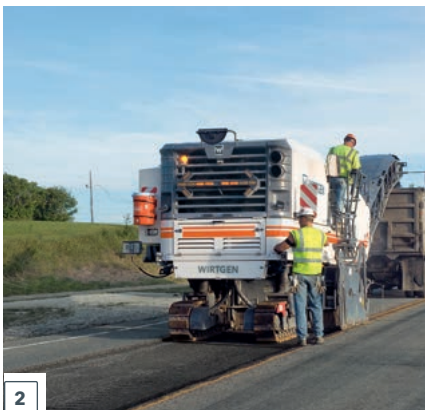
FINE MILLING IS SETTING NEW STANDARDS IN MILLING RESULTS WORLD-WIDE

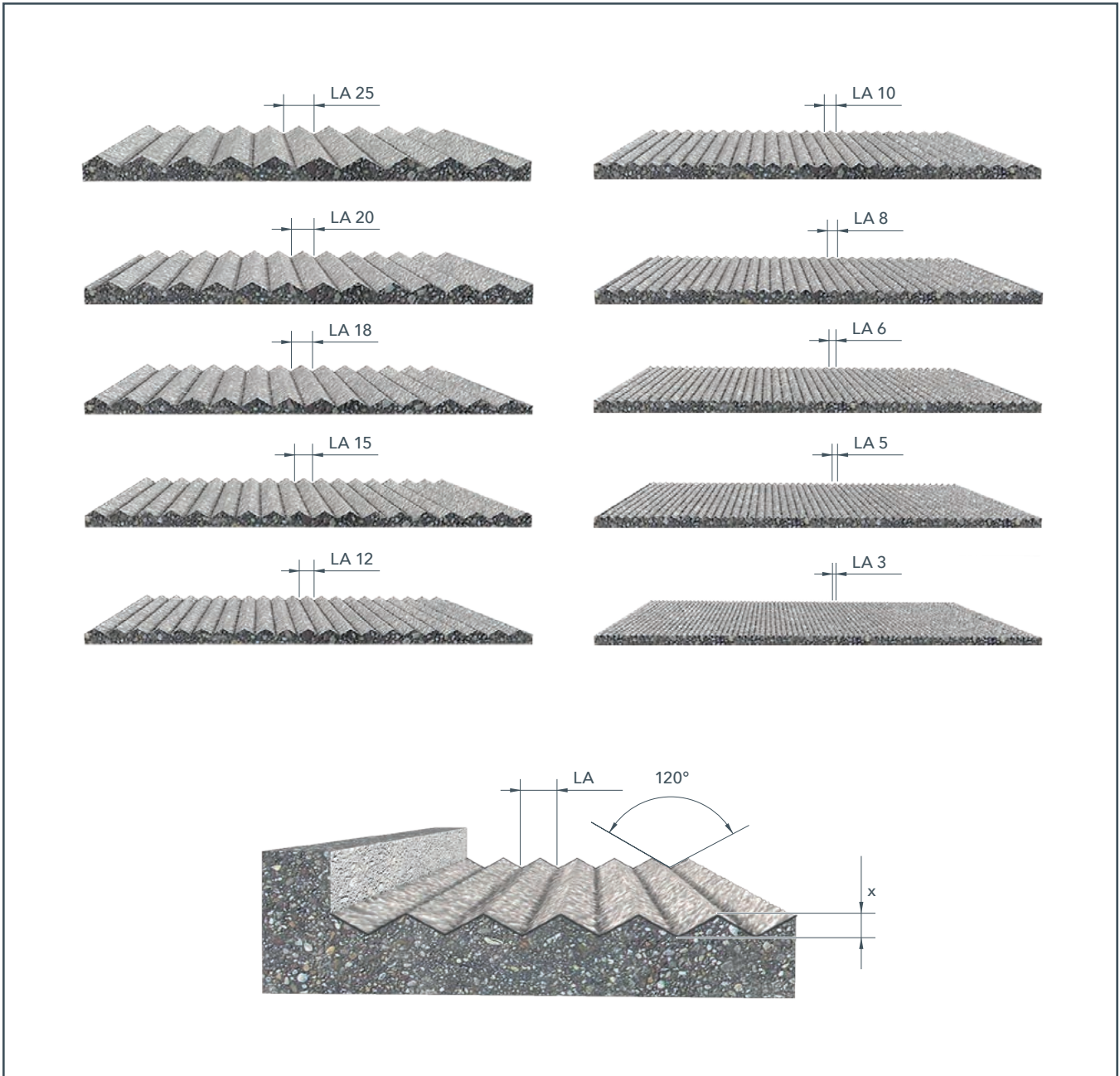
By special and precise finishing processes WIRTGEN can nowadays design line spacings up to 3 mm.

So milling contractors are offered a multitude of new applications: Their WIRTGEN milling machines can work on sites with high-quality demands on the surface. The new patented Flexible Cutter System (FCS) makes the milling drum exchange much easier.



- 1 > Improving the skid resistance of the pavement
- 2 > Restoring the evenness/levelling
- 3 > Pavement markings are removed quickly and accurately with a special unit
- 4 > Milling off resin surfaces/synthetic surfaces in factory halls





LA = Line spacing in mm	x = Theoretical base height in mm	LA = Line spacing in mm	x = Theoretical base height in mm
25	7.21	8	2.31
20	5.77	6	1.73
18	5.19	5	1.44
15	4.33	4	1.15
12	3.46	3	0.87
10	2.88	2	0.58

Theoretical base height of typical milling drum line spacings

ORIGINAL WIRTGEN

MILLING DRUMS

Machine type	Model	Milling drum					Toolholder			Picks		
		Type	FB (mm)	LA (mm)	Max. FT (mm)	Part No.	System	Quantity	Part No.	Quantity		
W 350 E	0303	Milling drum	500	12	100	2400768	HT08	47	2321470	47		
			350	12	100	2400766	HT08	36	2321470	36		
		Fine milling drum	350	6x2	30	72257	HT4	116	72258	116		
			350	6	50	74737	HT5	57	74745	57		
		Micro-fine milling drum	350	3	30	140808	HT4	117	72258	117		
		Milling drum	200	10	100	105073	HT02	29	5244	29		
			100	10	100	151642	HT02	16	5244	16		
		Fine milling drum	450+2x25	6x2	30	139699	HT4	164	72258	164		
			300+2x25	6x2	30	81564	HT4	116	72258	116		
		Micro-fine milling drum	300+2x25	3	30	129694	HT4	117	72258	117		
			150+2x25	3	30	134590	HT4	67	72258	67		
		Milling drum	80		160	105487	HT02	18	5244	18		
		W 35	0503	Milling drum	350	12	60	2443192	HT08	36	2321470	36
				Fine milling drum	350	6	50	187372	HT5	57	74745	57
Micro-fine milling drum	350			3	30	187368	HT4	117	72258	117		
	300+2x25			3	30	192947	HT4	117	72258	117		
	250+2x25			3	30	194770	HT4	99	72258	99		
	200+2x25			3	30	194767	HT4	83	72258	83		
	150+2x25			3	30	194764	HT4	67	72258	67		
Milling drum	80				60	188357	HT02	12	5244	12		



Machine type	Model	Milling drum					Toolholder			Picks
		Type	FB (mm)	LA (mm)	Max. FT (mm)	Part No.	System	Quantity	Part No.	Quantity
W 35 DC, W 35 R, W 35 Ri	0403, 0603, 0703	Milling drum	500	15	110	2430055	HT08	47	2321470	47
		Fine milling drum	500	6	50	193418	HT5	82	74745	82
		Milling drum	350	15	110	2430058	HT08	36	2321470	36
		Fine milling drum	350	6	50	187267	HT5	57	74745	57
		Micro-fine milling drum	350	3	30	187266	HT4	117	72258	117
			450+2x25	3	30	193419	HT4	166	72258	166
			300+2x25	3	30	193337	HT4	117	72258	117
			250+2x25	3	30	195053	HT4	99	72258	99
			200+2x25	3	30	195052	HT4	83	72258	83
		150+2x25	3	30	193416	HT4	67	72258	67	
W 500	0605	Milling drum	500	15	160	2400763	HT08	44	2321470	52
		Fine milling drum	500	6	50	89502	HT5	82	74745	82
		Milling drum	80		220	56855	HT02	24	5244	24

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MILLING DRUMS

Machine type	Model	Milling drum					Toolholder			Picks
		Type	FB (mm)	LA (mm)	Max. FT (mm)	Part No.	System	Quantity	Part No.	Quantity
W 50	0805, 1005	Milling drum	500	20	160	2413941	HT08	36	2321470	44
			500	15	160	2400764	HT08	44	2321470	52
		Fine milling drum	500	6	50	172199	HT5	84	74745	84
		Micro-fine milling drum	500	3	30	179276	HT5	166	74745	166
		Milling drum	500	3	30	177011	HT4	166	72258	166
		Micro-fine milling drum	450+2x25	6	50	180541	HT5	84	74745	84
		Milling drum	400	15	160	2413492	HT08	38	2321470	46
			300	15	160	2413491	HT08	29	2321470	37
		Micro-fine milling drum	300	3	30	180542	HT4	101	72258	101
			300+2x25	3	30	172201	HT4	117	72258	117
		Milling drum gutter	500	15	160	176725	HT5	40	74745	40
Milling drum	80		160	172197	HT02	30	5244	30		
W 50 H	1305	Milling drum	500	15	180	2544519	HT08	46	2321470	54
W 50 DC, W 50 DCi	0905, 1205	Milling drum	500	15	210	2334391	HT08	48	2321470	60
		Fine milling drum	500	6	50	177179	HT5	84	74745	84
		Micro-fine milling drum	500	3	30	178362	HT4	166	72258	166
		Milling drum	400	15	210	2334390	HT08	42	2321470	54
			300	15	210	2334386	HT08	35	2321470	47
		Fine milling drum	450+2x25	6x2	30	183191	HT4	164	72258	164
		Milling drum	80		210	183119	HT02	24	5244	24
			80		300	179301	HT02	30	5244	30



Machine type	Model	Milling drum					Toolholder			Picks
		Type	FB (mm)	LA (mm)	Max. FT (mm)	Part No.	System	Quantity	Part No.	Quantity
W 50 R, W 50 Ri	1405, 1505	Milling drum	500	20	210	2389391	HT08	42	2321470	54
			500	15	210	2334391	HT08	48	2321470	60
		Fine milling drum	500	6	50	177179	HT5	84	74745	84
		Micro-fine milling drum	500	3	30	178362	HT04	166	72258	166
		Milling drum	400	15	210	2334390	HT08	42	2321470	54
			300	15	210	2334386	HT08	35	2321470	47
			80		210	183119	HT02	24	5244	24
			80		300	179301	HT02	30	5244	30
W 600 DC	0705	Milling drum	600	15	300	2311471	HT22	54	2198001	75
			500	15	300	2317307	HT22	47	2198001	65
			400	15	300	2317256	HT22	41	2198001	59
			300	15	250	2338513	HT22	31	2198001	55
			80		250	111335	HT02	30	5244	30
W 60 R, W 60 Ri	1405, 1505	Milling drum	600	20	210	2389396	HT08	46	2321470	58
			600	15	210	2334395	HT08	58	2321470	70
			600	6	50	2389394	HT5	101	74745	101
			80		210	2389537	HT02	24	5244	24
W 60, W 60i	0910, 1210	Milling drum	600	15	300	2311471	HT22	54	2198001	75
			500	15	300	2317307	HT22	47	2198001	65
			400	15	300	2317256	HT22	41	2198001	59



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MILLING DRUMS

Machine type	Model	Milling drum					Toolholder			Picks		
		Type	FB (mm)	LA (mm)	Max. FT (mm)	Part No.	System	Quantity	Part No.	Quantity		
W 1000 L, W 1000	0705, 1105	Milling drum	1000	15	250	2338515	HT22	76	2198001	100		
		Fine milling drum	1000	8	100	2338518	HT22	130	2198001	148		
W 1000 F	0710	Milling drum	1000	15	315	2341969	HT22	84	2198001	102		
		Fine milling drum	1000	8	100	2345885	HT22	131	2198001	149		
			1000	6x2	30	161484	HT5	340	74745	340		
		FCS milling drum	1000	15	315	2338521	HT22	84	2198001	102		
		FCS fine milling drum	1000	8	100	2338529	HT22	131	2198001	149		
			1000	6	50	2345886	HT22	168	2198001	168		
			1000	6x2	30	150396	HT5	340	74745	340		
		FCS milling drum	900	15	290	2338522	HT22	83	2198001	101		
			750	15	290	2338523	HT22	66	2198001	84		
			600	12	290	2338525	HT22	62	2198001	80		
			500	15	290	2338527	HT22	48	2198001	72		
			300	12	290	2338528	HT22	31	2198001	55		
		W 100, W 100i, W 100 R, W 100 Ri	0910, 1210, 1510, 1610	Milling drum	1000	15	300	2311427	HT22	76	2198001	100
				FCS milling drum	1000	18	300	2492794	HT22	72	2198001	84
1000	15				300	2311434	HT22	76	2198001	100		
FCS fine milling drum	1000			8	100	2311438	HT22	130	2198001	148		
	1000			6x2	30	2062033	HT5	340	74745	340		



Machine type	Model	Milling drum					Toolholder			Picks
		Type	FB (mm)	LA (mm)	Max. FT (mm)	Part No.	System	Quantity	Part No.	Quantity
W 100 F, W 100 Fi, W 100 CF, W 100 CFi	0810, 1310, 1710, 1810	Milling drum	1000	15	320	2308577	HT22	81	2198001	99
		FCS milling drum	1000	25	320	2308540	HT22	59	2198001	83
			1000	18	320	2308571	HT22	72	2198001	90
			1000	15	320	2308077	HT22	81	2198001	99
		FCS fine milling drum	1000	8	100	2308204	HT22	131	2198001	149
			1000	6x2	30	2062046	HT5	340	74745	340
		FCS milling drum	600	12	290	2308151	HT22	62	2198001	80
			500	15	290	2308183	HT22	48	2198001	72
			300	12	290	2308192	HT22	31	2198001	55
		W 1200 F	0710	Milling drum	1200	15	315	2345887	HT22	97
Fine milling drum	1200			8	100	2345888	HT22	156	2198001	174
FCS milling drum	1200			15	315	2338520	HT22	97	2198001	115
FCS fine milling drum	1200			8	100	2345889	HT22	156	2198001	174
	1200			6x2	30	179345	HT5	410	74745	410
FCS milling drum	1000			15	290	2338521	HT22	84	2198001	102
	900			15	290	2338522	HT22	77	2198001	95
	750			15	290	2338523	HT22	66	2198001	84
	600			12	290	2338525	HT22	62	2198001	80
	500			15	290	2338527	HT22	48	2198001	72
	300			12	290	2338528	HT22	31	2198001	55



ORIGINAL WIRTGEN MILLING DRUMS

Machine type	Model	Milling drum					Toolholder			Picks
		Type	FB (mm)	LA (mm)	Max. FT (mm)	Part No.	System	Quantity	Part No.	Quantity
W 120 F, W 120 Fi, W 120 CF, W 120 CFi	0810, 1310, 1710, 1810	Milling drum	1200	15	320	2308580	HT22	97	2198001	115
		FCS milling drum	1200	25	320	2308291	HT22	63	2198001	87
			1200	18	320	2308569	HT22	82	2198001	100
			1200	15	320	2308146	HT22	97	2198001	115
			1200	8	100	2308217	HT22	156	2198001	174
		FCS fine milling drum	1200	6x2	30	2062051	HT5	410	74745	410
			900	15	290	2308214	HT22	77	2198001	95
		FCS milling drum	600	12	290	2308151	HT22	62	2198001	80
			500	15	290	2308183	HT22	48	2198001	72
			300	12	290	2308192	HT22	31	2198001	55
W 120 R, W 120 Ri	1510, 1610	Milling drum	1200	18	300	2510269	HT22	83	2198001	101
		FCS milling drum	1200	18	300	2494906	HT22	83	2198001	101
		FCS fine milling drum	1200	8	100	2311438	HT22	130	2198001	148
			1200	6x2	30	2494908	HT5	408	74745	408
W 1300 F	0710	Milling drum	1320	15	315	2345890	HT22	105	2198001	123
		FCS milling drum	1320	15	315	2345891	HT22	105	2198001	123
		FCS fine milling drum	1320	8	100	2345892	HT22	169	2198001	187
		FCS milling drum	1200	15	290	2338520	HT22	97	2198001	115
			1000	15	290	2338521	HT22	84	2198001	102
			900	15	290	2338522	HT22	77	2198001	95
			750	15	290	2338523	HT22	66	2198001	84
			600	12	290	2338525	HT22	62	2198001	80
			500	15	290	2338527	HT22	48	2198001	72
			300	12	290	2338528	HT22	31	2198001	55



Machine type	Model	Milling drum					Toolholder			Picks		
		Type	FB (mm)	LA (mm)	Max. FT (mm)	Part No.	System	Quantity	Part No.	Quantity		
W 130 F, W 130 Fi, W 130 CF, W 130 CFi	0810, 1310, 1710, 1810	Milling drum	1300	15	320	2308584	HT22	103	2198001	121		
			1300	15	320	2308220	HT22	103	2198001	121		
		FCS milling drum	1300	25	320	2308610	HT22	67	2198001	85		
			1300	18	320	2308457	HT22	89	2198001	107		
		FCS fine milling drum	1300	8	100	2308268	HT22	167	2198001	185		
			1300	6x2	30	2062070	HT5	444	74745	444		
		FCS milling drum	900	15	290	2308214	HT22	77	2198001	95		
			600	12	290	2308151	HT22	62	2198001	80		
			500	15	290	2308183	HT22	48	2198001	72		
			300	12	290	2308192	HT22	31	2198001	55		
		W 100 H, W 130 H	1410, 1910	Milling drum	1000	18	180	2314400	HT22	68	2198001	80
					1300	18	180	2314405	HT22	85	2198001	97
W 1500	0820, 0920	Milling drum	1500	15	300	2338533	HT22	113	2198001	131		
			1320	15	300	2338532	HT22	105	2198001	123		
		Fine milling drum	1320	8	100	2338530	HT22	169	2198001	187		

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MILLING DRUMS

Machine type	Model	Milling drum					Toolholder			Picks		
		Type	FB (mm)	LA (mm)	Max. FT (mm)	Part No.	System	Quantity	Part No.	Quantity		
W 150, W 150i, W 150 CF, W 150 CFi	0513, 0613, 0713, 0813	Milling drum	1500	15	320	2309338	HT22	116	2198001	134		
		FCS milling drum	1500	25	320	2314996	HT22	78	2198001	102		
			1500	18	320	2315000	HT22	102	2198001	120		
			1500	15	320	2309322	HT22	116	2198001	134		
		FCS fine milling drum	1500	8	100	2314989	HT22	192	2198001	210		
			1500	6x2	30	2090831	HT5	512	74745	512		
		FCS milling drum	1200	25	320	2308291	HT22	63	2198001	87		
			1200	18	320	2308569	HT22	82	2198001	100		
			1200	15	320	2308146	HT22	97	2198001	115		
		FCS fine milling drum	1200	8	100	2308217	HT22	156	2198001	174		
			1200	6x2	30	2062051	HT5	410	74745	410		
		FCS milling drum	900	15	280	2308214	HT22	77	2198001	95		
			600	12	280	2308151	HT22	62	2198001	80		
		W 150, W 150i	0513, 0613	Milling drum	1200	15	320	2309334	HT22	97	2198001	115
		W 1900	0820, 0920, 1020	Milling drum	2000	15	320	2314564	HT22	144	2198001	162
Fine milling drum	2000			8	100	2338534	HT22	256	2198001	274		
	2000			6x2	30	123977	HT5	672	74745	672		
FCS milling drum	2000			15	320	2314585	HT22	144	2198001	162		
FCS fine milling drum	2000			8	100	2314592	HT22	256	2198001	274		
	2000			6x2	30	144986	HT5	672	74745	672		



Machine type	Model	Milling drum					Toolholder			Picks
		Type	FB (mm)	LA (mm)	Max. FT (mm)	Part No.	System	Quantity	Part No.	Quantity
W 2000	0620, 1120	Milling drum	2200	15	320	2314577	HT22	156	2198001	174
		Fine milling drum	2200	8	100	2338535	HT22	280	2198001	298
		Milling drum	2000	25	320	2338536	HT22	100	2198001	124
			2000	15	320	2314564	HT22	144	2198001	162
		Fine milling drum	2000	8	100	2338534	HT22	256	2198001	274
			2000	6x2	30	123977	HT5	672	74745	672
		FCS milling drum	2000	25	320	2338538	HT22	100	2198001	124
			2000	15	320	2314585	HT22	144	2198001	162
		FCS fine milling drum	2000	8	100	2314592	HT22	256	2198001	274
			2000	6x2	30	144986	HT5	672	74745	672
W 200, W 200i, W 210, W 210i	1220, 1420, 1320, 1520	Milling drum	2200	15	330	2307330	HT22	157	2198001	175
		FCS milling drum	2200	25	330	2307332	HT22	110	2198001	134
			2200	18	330	2307333	HT22	141	2198001	159
			2200	15	330	2307334	HT22	157	2198001	175
		FCS fine milling drum	2200	8	100	2307335	HT22	280	2198001	298
			2200	6x2	30	2119190	HT5	740	194362	740
		Milling drum	2000	15	330	2307322	HT22	144	2198001	162
		FCS milling drum	2000	25	330	2307324	HT22	100	2198001	124
			2000	18	330	2307325	HT22	130	2198001	148
			2000	15	330	2307326	HT22	144	2198001	162
		FCS fine milling drum	2000	8	100	2307327	HT22	256	2198001	274
			2000	6x2	30	2112481	HT5	672	194362	672
		Milling drum	1500	15	330	2307338	HT22	118	2198001	136
W 200 H, W 200 Hi	1620, 1720	Milling drum	2100	15	300	2314414	HT22	154	2198001	190
			2100	18	300	2314417	HT22	133	2198001	169

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MILLING DRUMS

Machine type	Model	Milling drum					Toolholder			Picks
		Type	FB (mm)	LA (mm)	Max. FT (mm)	Part No.	System	Quantity	Part No.	Quantity
W 2100	0921	Milling drum	2200	15	320	2315691	HT22	168	2198001	186
			2100	15	320	2338539	HT22	148	2198001	166
		Fine milling drum	2100	8	100	2338541	HT22	270	2198001	288
		Milling drum	2000	15	320	2338542	HT22	148	2198001	166
		Fine milling drum	2000	8	100	2338543	HT22	256	2198001	274
W 2200	0821	Milling drum	2200	15	350	2300231	HT22	170	2198001	188
		FCS milling drum	4400	15	350	2317666	HT22	326	2198001	353
			3800	15	350	2317665	HT22	287	2198001	314
			3500	15	350	2317664	HT22	267	2198001	294
			3100	15	350	2317663	HT22	240	2198001	267
			2500	15	350	2317661	HT22	193	2198001	211
			2200	15	350	2317660	HT22	170	2198001	188
W 220	0522	Milling drum	2200	15	350	2300231	HT22	170	2198001	188
		FCS milling drum	2200	15	350	2317660	HT22	170	2198001	188
			2500	15	350	2317661	HT22	193	2198001	211
			2200	25	350	2309341	HT22	110	2198001	134
		FCS-L milling drum	2200	18	350	2309362	HT22	146	2198001	164
			2200	15	350	2309353	HT22	170	2198001	188
			2200	8	100	2309358	HT22	280	2198001	298
			2500	15	350	2440591	HT22	183	2198001	208
		FCS-L fine milling drum	2200	6x2	30	2120236	HT5	740	194362	740
W 250, W 250i	0422, 0622	Milling drum	2200	15	350	2300231	HT22	170	2198001	188
		FCS-L milling drum	2200	25	350	2309341	HT22	110	2198001	134
			2200	18	350	2309362	HT22	146	2198001	164
			2200	15	350	2309353	HT22	170	2198001	188
			2200	8	100	2309358	HT22	280	2198001	298
			FCS-L fine milling drum	2200	6x2	30	2120236	HT5	740	194362
		FCS milling drum	4400	15	350	2317666	HT22	326	2198001	353
			3800	15	350	2317665	HT22	287	2198001	314
			3500	15	350	2317664	HT22	267	2198001	294
			3100	15	350	2317663	HT22	240	2198001	267
			2500	15	350	2317661	HT22	193	2198001	211
			2200	15	350	2317660	HT22	170	2198001	188



Machine type	Model	Milling drum					Toolholder			Picks
		Type	FB (mm)	LA (mm)	Max. FT (mm)	Part No.	System	Quantity	Part No.	Quantity
WS 2200	01AS	Milling drum	2150	40	500	2338547	HT22 D22	74	2198002	90
WS 220	02AS	Milling drum	2150	40	500	2314423	HT22 D22	78	2198002	96
WS 2500	01AS	Milling drum	2500	40	500	2338548	HT22 D22	82	2198002	106
WS 250	02AS	Milling drum	2500	40	500	2314429	HT22 D22	86	2198002	104
WR 2000	03WR	Milling drum	2000	20	500	2338550	HT22 D22	142	2198002	166
WR 200, WR 200i	06WR, 09WR	Milling drum	2000	20	510	2339558	HT22 D22	126	2198002	150
			2000	20	510	2339557	HT22 D25	126	2198003	142
WR 2400	05WR	Milling drum	2400	20	500	2338552	HT22 D22	162	2198002	186
WR 240, WR 240i	07WR, 10WR	Milling drum	2400	20	510	2314437	HT22 D22	146	2198002	170
			2400	20	510	2314434	HT22 D25	146	2198003	162
WR 2500 S	04WR	Milling drum	3048	37x2	500	2338553	HT22 D22	192	2198002	216
			2438	30x2	500	2341964	HT22 D22	192	2198002	216
WR 250	08WR	Milling drum	2400	30x2	560	2314518	HT22 D22	184	2198002	208
			2400	30x2	560	2314513	HT22 D25	184	2198003	200
2100 SM	0921	Milling drum	2000	50	250	118216	HT6	60	95781	60
			2000	35	300	95819	HT6	76	95781	76
2200 SM	0821	Milling drum	3800	50	300	2045386	HT6	92	95781	92
			2200	38	300	2143830	HT14	72	2068087	72
			2200	76	300	2143829	HT14	50	2068087	50
			2200	38	300	127333	HT6	76	95781	76
			2200	76	300	141663	HT6	46	95781	46



ORIGINAL WIRTGEN SCRAPERS

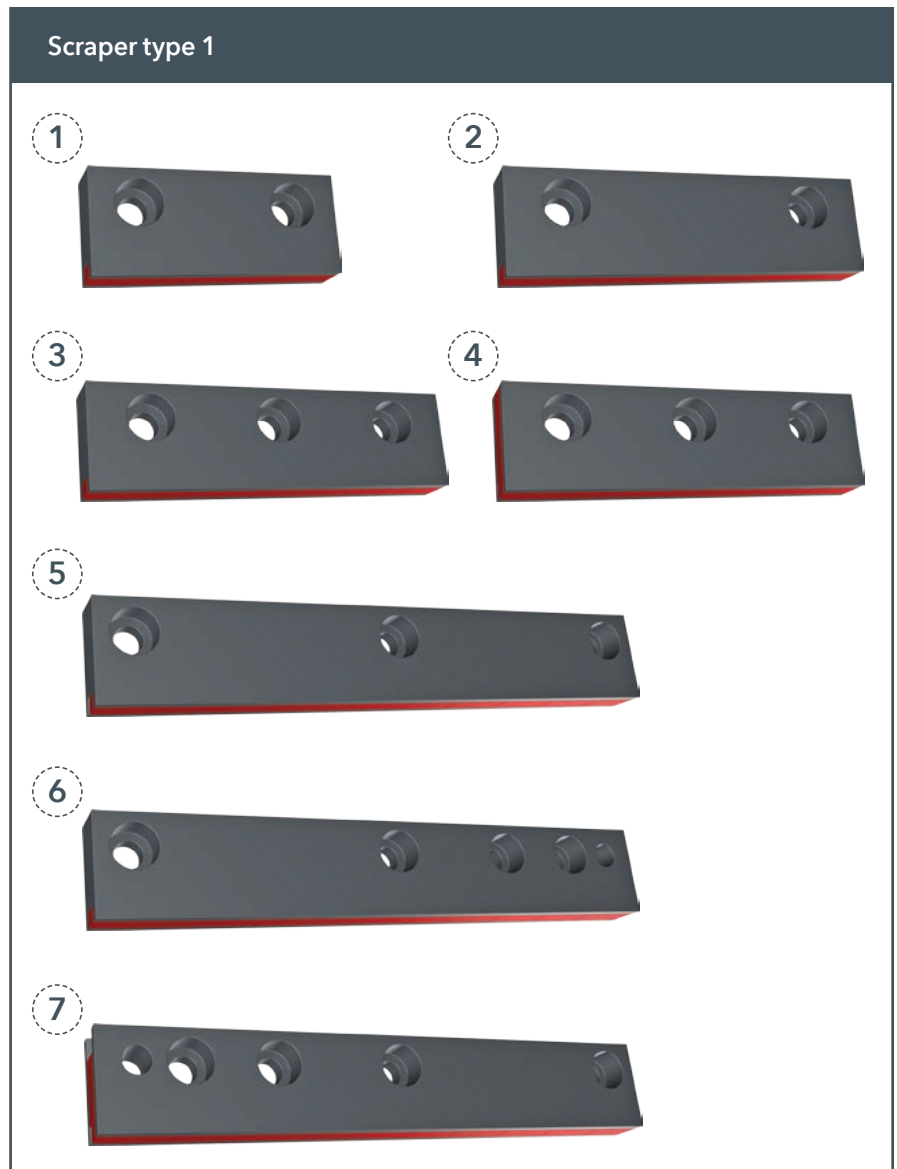
LONG-LIFE SCRAPERS

The scraper on the rear panel of the milling machine seals the drum chamber so that the reclaimed asphalt pavement can be taken up cleanly. In addition, it smooths the milled surface by shearing off the higher asphalt ridges. Carbide-tipped scrapers are used for this purpose.

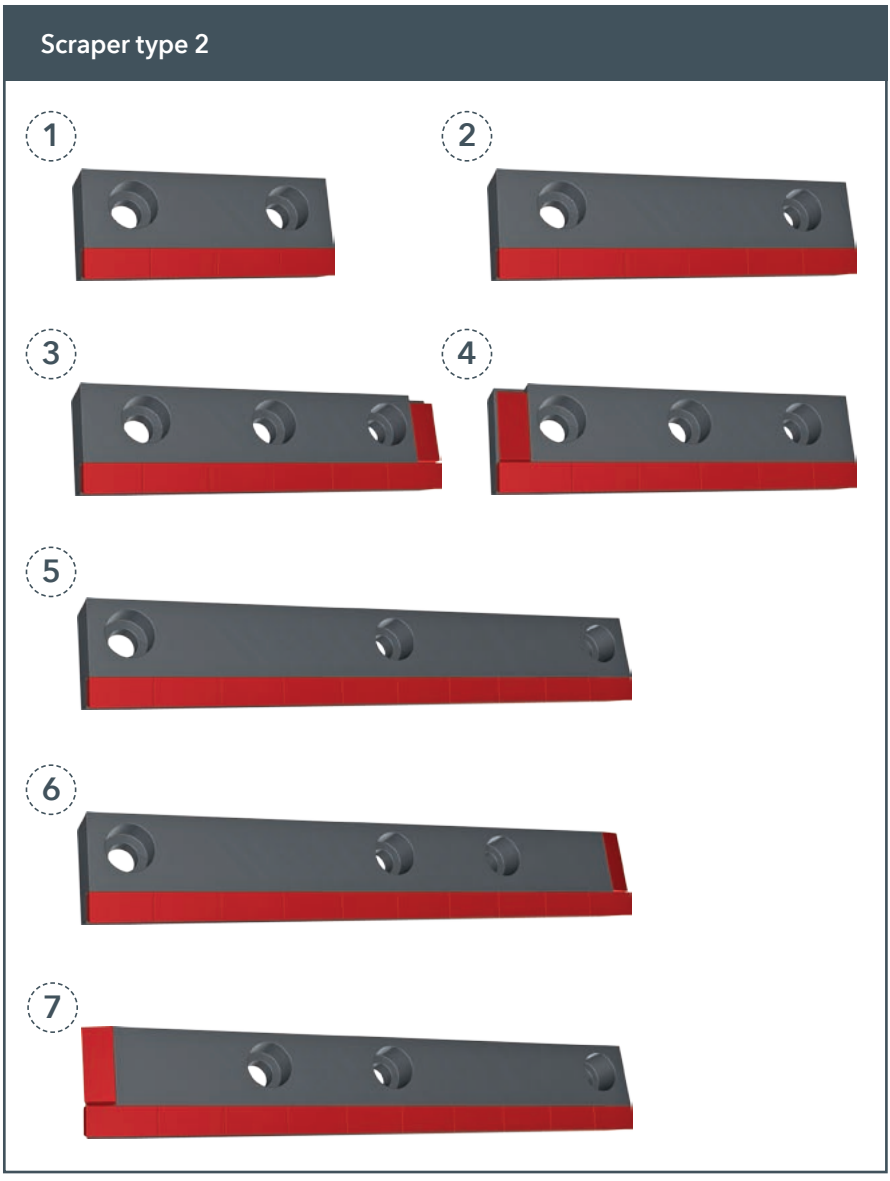
Suitable mounting components for both scraper types is available on request.



- > Scraper FB50: Carbide elements with a scraper width of 50 mm can be replaced individually.
- > Type 1 scrapers: One-part carbide-tipped scrapers in different widths can be screwed onto the scraper plate side-by-side in accordance with the working width of the milling machine. Carbide elements on the right or left ensure that these scrapers can also be fitted at the edges.



Scraper type 1		
No.	Designation	Part No.
1	Scraper B100	56731
2	Scraper B145	60117
3	Scraper B145 L	56336
4	Scraper B145 R	56335
5	Scraper B248	43408
6	Scraper B248 L	44638
7	Scraper B248 R	44639



The milled material intake at the rear of the machine has been improved again with type 2 scrapers. These differ from the previous scrapers in the external contour and the shape of the carbide. Performance has been improved in particular by the optimised position of the carbide.

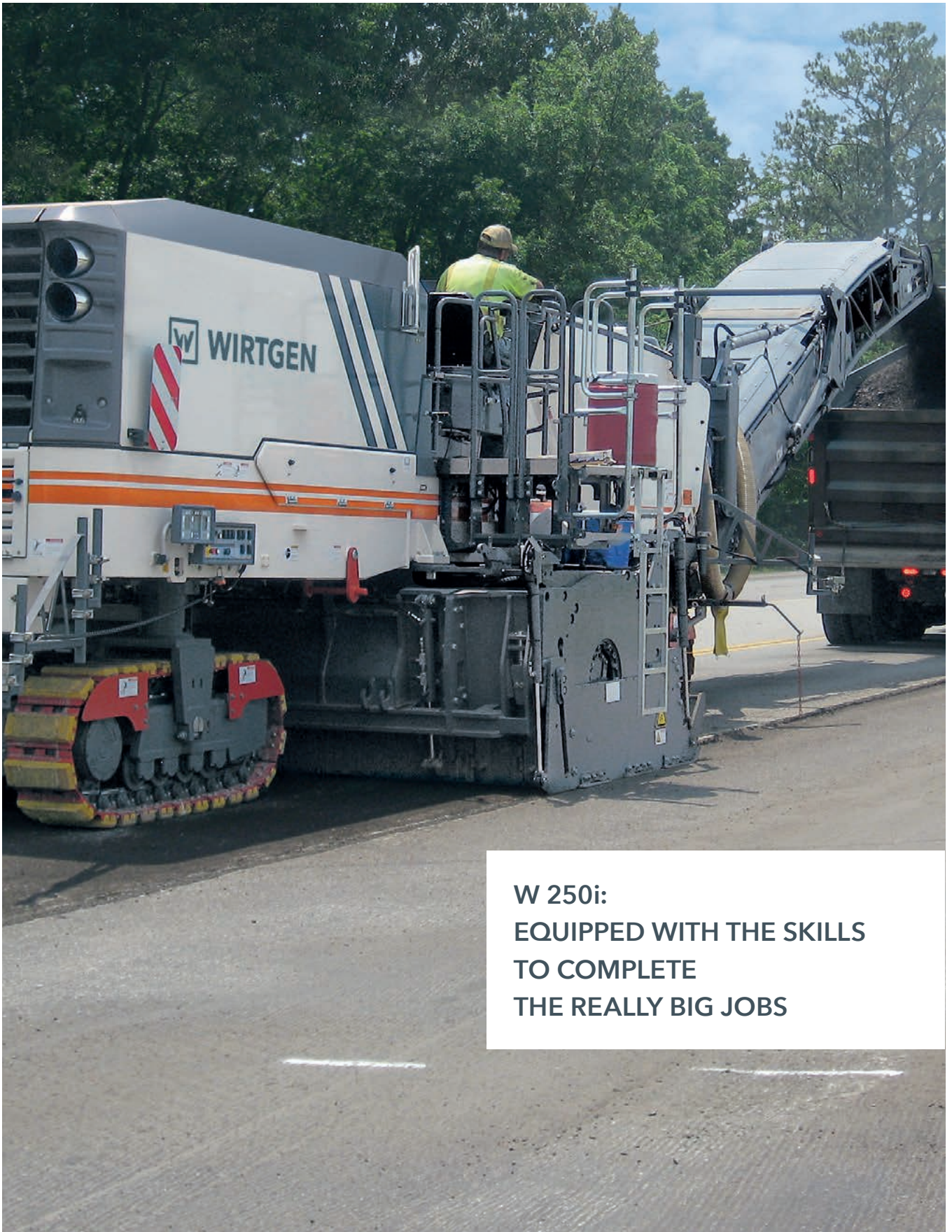
> Type 2 scrapers: One-part carbide-tipped scrapers in different widths are screwed onto the scraper plate side-by-side in accordance with the working width of the milling machine. Carbide elements on the right or left ensure that these scrapers can also be fitted at the edges.

Scraper type 2		
No.	Designation	Part No.
1	Scraper B100	146459
2	Scraper B145	146515
3	Scraper B145 L	146461
4	Scraper B145 R	146460
5	Scraper B248	146456
6	Scraper B248 L	146457
7	Scraper B248 R	146458



SERVICE PACKAGES FOR SCRAPERS

Machine type	Model	Series range	Standard version		
			Milling width (mm)	Type	Part No.
W 500	0605	0001 - 9999	500	1	194396
W 50, W 50 DC	1005, 0905, 1205	0001 - 9999	500	1	194390
W 50 R, W 60 R, W 50 Ri, W 60 Ri	1405, 1505	0001 - 9999	500	1	2465572
			600	1	2465575
W 600 DC, W 1000 L	0705	0420 - 9999	600	1	194400
			1000	1	194401
W 1000 F, W 1200 F, W 1300 F	0710	0001 - 0388	1000	1	194402
			1200	1	194403
			1320	1	194404
		0389 - 9999	1000	2	194426
			1200	2	194414
			1320	2	194407
W 100, W 100i	0910, 1210	0001 - 9999	1000	1	2215148
W 100 R, W 100 Ri, W 120 R, W 120 Ri	1510, 1610	0001 - 9999	600	1	2465575
			1000	1	2215148
			1200	1	2532424
W 100 F, W 120 F, W 130 F, W 100 Fi, W 120 Fi, W 130 Fi	0810, 1310	0001 - 9999	1000	2	194426
			1200	2	194414
			1300	2	194407
W 100 CF, W 120 CF, W 130 CF, W 100 CFi, W 120 CFi, W 130 CFi	1710, 1810	0001 - 9999	1000	2	194426
			1200	2	194414
			1300	2	194407
W 1500	0820	0001 - 9999	1300	2	194407
			1500	2	194408
W 150, W 150i	0513, 0613	0001 - 9999	1200	1	2116633
			1500	1	2116636
W 150 CF, W 150 CFi	0713, 0813	0001 - 9999	1500	1	2116636
W 1900, W 2000	0620, 0820, 0920, 1020, 1120	0001 - 9999	2000	2	194410
			2200	2	2138933
W 200, W 210, W 200i, W 210i	1220, 1320, 1420, 1520	0001 - 9999	2000	1	2172937
			2200	1	2172942
W 200 H, W 200 Hi	1620, 1720	0001 - 9999	2100	1	2465591
W 2100	0921	0001 - 9999	2000	2	194410
			2100	2	194411
			2200	2	194409
W 2200	0821	0001 - 9999	2200	2	194409
W 220, W 250, W 250i	0522, 0422, 0622	0001 - 9999	2200	1	2172942



**W 250i:
EQUIPPED WITH THE SKILLS
TO COMPLETE
THE REALLY BIG JOBS**

ORIGINAL WIRTGEN

WEAR-PROTECTION SEGMENTS SIDE PLATES

A milling drum housing that closes completely on one side prevents leakage of the material. The provided edge protector lays completely on the milling surface and is therefore subject to natural wear.

Special wear elements are used to minimise this wear and facilitate the replacement of worn parts.

The wear elements are made of particularly wear-resistant material - partly tungsten carbide - and are easy to replace.



No.	Designation	Description	Part No.
1	2K-Protector skid	50 x 625	155630
2	2K-Protector skid	50 x 490	157828
3	HM-Protector skid	40 x 180	113001
4	2K-Protector skid	40 x 180	2069177
5	2K-Protector skid	50 x 450	2106074
6	2K-Protector skid	50 x 200	2111404
7	2K-Protector skid	40 x 170	2129390
8	Wear protection segment		2281665

2K = 2-component material with bonded plating



Machine type	Side plate segments front			Side plate segments rear			Scraper wear segments		
	Designation	Qty.	Part No.	Designation	Qty.	Part No.	Designation	Qty.	Part No.
W 50 Ri	Welded wear protection			Welded wear protection			Wear protection segment	4	2281665
W 100 CF(i), W 120 CF(i), W 130 CF(i)	Welded wear protection			Welded wear protection			2K-Protector skid 50 x 490	2	157828
W 1500	2K-Protector skid 50 x 490 (left)	1	157828	2K-Protector skid 40 x 180	1	2069177			
	2K-Protector skid 50 x 625 (right)	1	155630	2K-Protector skid 40 x 180	1	2069177			
W 150(i)	2K-Protector skid 50 x 625 (left)	1	155630	2K-Protector skid 40 x 180	1	2069177	2K-Protector skid 40 x 170	2	2129390
	2K-Protector skid 50 x 625 (right)	1	155630	2K-Protector skid 40 x 180	1	2069177			
W 150 CF(i)	2K-Protector skid 50 x 490 (left)	1	157828	2K-Protector skid 50 x 1160	1	2431428	2K-Protector skid 40 x 170	2	2129390
	2K-Protector skid 50 x 625 (right)	1	155630	2K-Protector skid 50 x 280	1	2431013			
				2K-Protector skid 50 x 450	2	2106074			
W 1900	2K-Protector skid 50 x 625	2	155630	2K-Protector skid 40 x 180	2	2069177			
W 2000	2K-Protector skid 50 x 625	2	155630	2K-Protector skid 40 x 180	2	2069177	2K-Protector skid 40 x 170	8	2129390
W 200(i), W 210(i) (FB 1500)	2K-Protector skid 50 x 625 (left)	1	155630	2K-Protector skid 50 x 450	1	2106074	2K-Protector skid 40 x 170	6	2129390
				Carbide scraper B100	2	56731			
	2K-Protector skid 50 x 625 (right)	1	155630	2K-Protector skid 50 x 450	2	2106074			
W 200(i), W 210(i) (FB 2000, 2200)	2K-Protector skid 50 x 625 (left)	1	155630	2K-Protector skid 50 x 450	1	2106074	2K-Protector skid 40 x 170	6	2129390
				2K-Protector skid 50 x 200	1	2111404			
	2K-Protector skid 50 x 625 (right)	1	155630	2K-Protector skid 50 x 450	2	2106074			
W 200 H(i)	2K-Protector skid 50 x 625 (left)	1	155630	2K-Protector skid 50 x 450	2	2106074	2K-Protector skid 40 x 170	4	2129390
				2K-Protector skid 50 x 200	1	2111404			
	2K-Protector skid 50 x 625 (right)	1	155630	2K-Protector skid 50 x 450	2	2106074			
				2K-Protector skid 50 x 200	1	2111404			
W 2100, W 2200	2K-Protector skid 50 x 625	2	155630	2K-Protector skid 40 x 180	2	2069177	2K-Protector skid 40 x 170	8	2129390
	Protector skid long* 50 x 1700	2	196501	Dismantling the standard protector skids					
	Protector skid long* 100 x 1700	2	155628	Dismantling the standard protector skids					
W 220, W 250(i)	2K-Protector skid 50 x 625 (left)	1	155630	2K-Protector skid 50 x 450	1	2106074	2K-Protector skid 40 x 170	6	2129390
				2K-Protector skid 50 x 200	1	2111404			
	2K-Protector skid 50 x 625 (right)	1	155630	2K-Protector skid 50 x 450	2	2106074			

The number of the scraper wear segments is valid for the standard milling width of the corresponding milling machine.

* Protector skid long = continuous protector skid, e. g. for use on soft soil

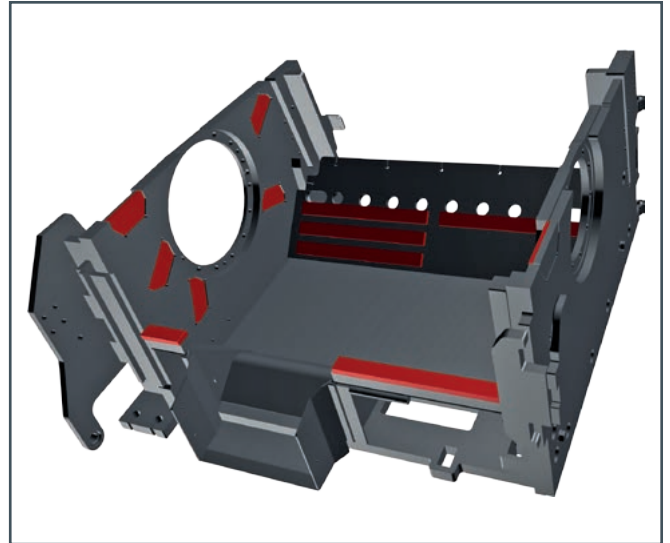
ORIGINAL WIRTGEN

WEAR-PROTECTION SEGMENTS INTERIOR OF THE MILLING DRUM HOUSING

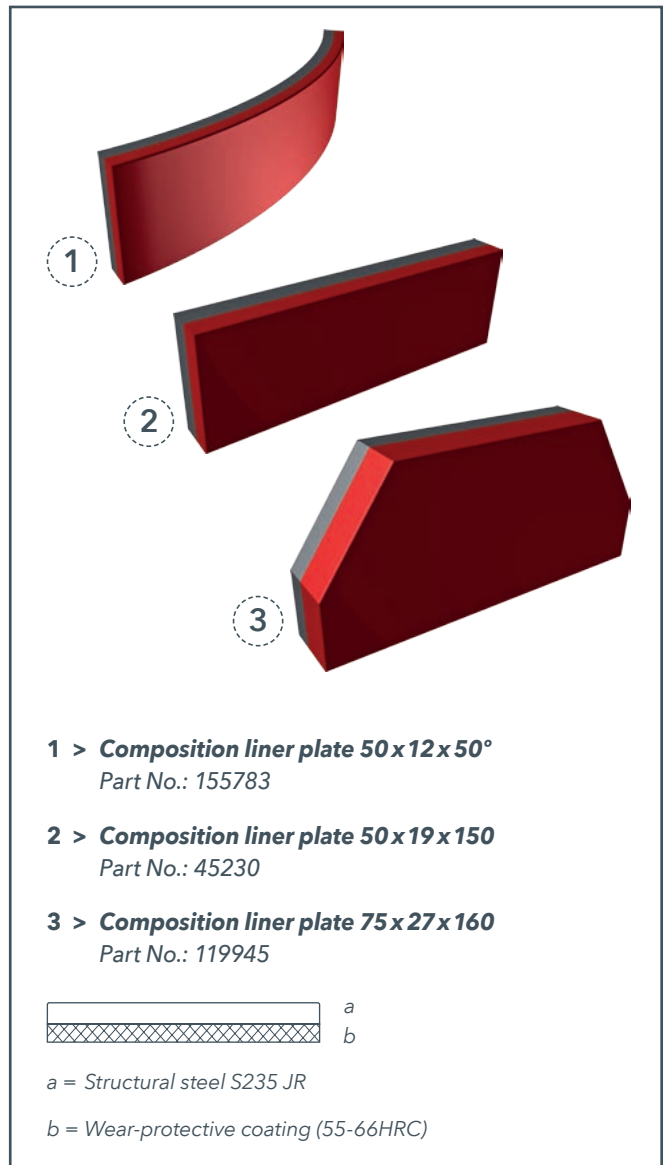
Besides the typical wear protection segments, there are some areas on the milling drum housing that are exposed to heavy wear and tear due to normal wear and abrasive material.

Below you will find WIRTGEN composition liner plates that can be replaced individually and across machines. They can be easily welded and are suitable for all drum housings or milling drums.

The WIRTGEN composition liner plates consist of two components. These include the structural steel and the wear-protective coating.



Composition liner plate			
No.	Dimensions (in mm)	Thickness of the structural steel and thickness of the wear protective coating	Part No.
1	50x12x50°	Bent	155783
1	100x12x50°	Bent	155818
2	75x8x200	3 + 5	198392
2	50x12x200	6 + 6	2112881
2	50x12x285	6 + 6	157830
2	50x12x446	6 + 6	155784
2	100x12x1524	6 + 6	155801
2	50x19x1000	10 + 9	42921
2	50x19x540	10 + 9	138899
2	50x19x250	10 + 9	45229
2	50x19x150	10 + 9	45230
2	75x27x525	10 + 17	2166089
3	75x27x160	10 + 17	119945



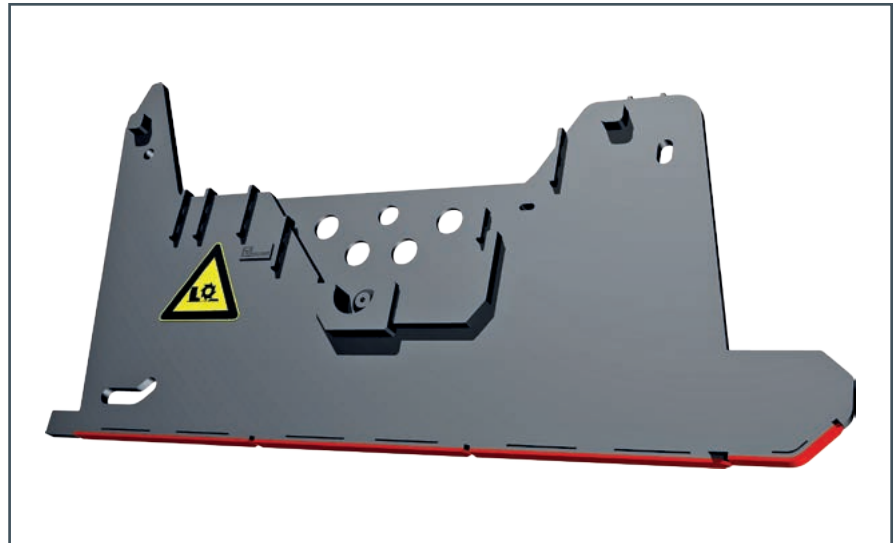


WEAR PROTECTION SEGMENTS WELDED SIDE PLATES

A milling drum housing that closes completely on one side prevents leakage of the material. The provided edge protector lays completely on the milling surface and is therefore subject to natural wear.

Special wear elements are used to minimise this wear and facilitate the replacement of worn parts.

These wear elements, which wear down on the side plates, can be easily changed.



Machine type	Model	Series range	Milling width (mm)	Position of edge protector	Part No.
W 50 R, W 60 R, W 50 Ri, W 60 Ri	1405, 1505	0001 - 9999	500, 600	Edge protector left	2139616
W 100 CF, W 120 CF, W 130 CF, W 100 CFi, W 120 CFi, W 130 CFi	1710, 1810	0001 - 9999	1000, 1200, 1300	Edge protector right	2465621
			1000	Edge protector left	2465624
			1200, 1300	Edge protector left	2465628



ORIGINAL WIRTGEN

HOT-VULCANISED CONVEYOR BELTS

The performance of a WIRTGEN road milling machine depends decisively on the performance of the conveyor belt system.

Original WIRTGEN conveyor belts are characterised by extremely smooth running and delivery rates of up to 1000 tonnes per hour.

WIRTGEN conveyor belts are developed on the basis of hot vulcanisation. Original WIRTGEN conveyor belts are produced in one step as a continuous band and therefore achieve maximum service life.

Belt repair service packages can be found on page 169.



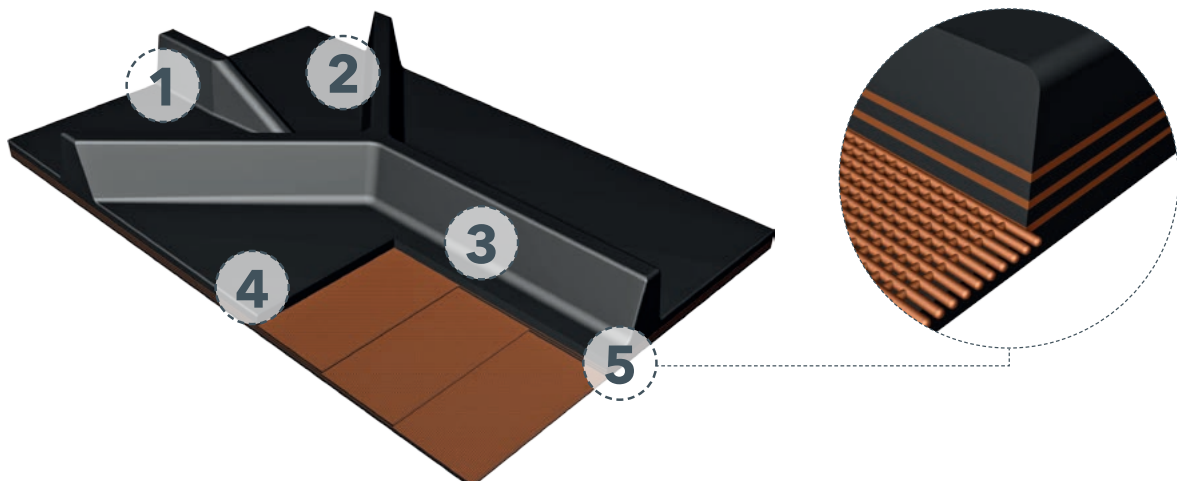
1 *The special profile of the heavy-duty rubber compound ensures smooth running.*

2 *Optimised transverse profile with an integrated seal, and particularly high conveyor gallery increase the desired conveyor output to the highest possible.*

3 *Conveyor cleats and upper layer are produced in a single processing step and are therefore permanently connected.*

4 *The constant elasticity of the conveyor belt ensures high abrasion resistance.*

5 *Up to 800 kg per cm belt width ensures highest levels of durability. The belt is made up of an asphalt-resistant upper layer, an elastic intermediate layer, tear-resistant polyester-polyamide layers of fabric and a base layer with an optimised coefficient of friction.*

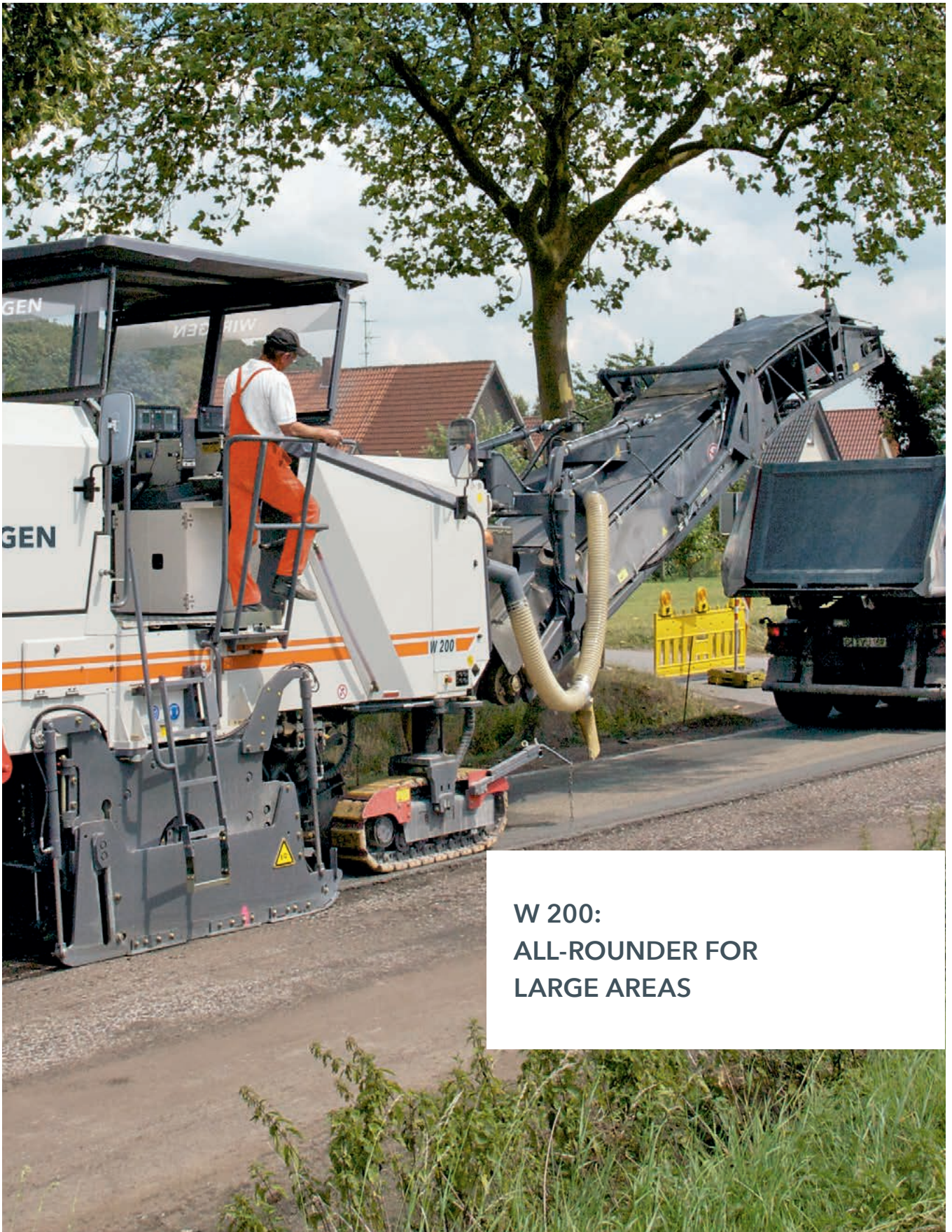




Machine type	Model	Conveyor belt			Ejector rubber	Sealing on the sides
		Conveyor type	Width (mm)	Part No.	Part No.	Part No.
W 35 DC	0403	Discharge conveyor (short)	250	182130	182623	183143
		Discharge conveyor (long)	250	193070		193217
W 500	0605	Discharge conveyor	400	50002	57142	56863
		Discharge conveyor (short)	400	71478		80655
W 50	1005	Discharge conveyor	400	50002	175164	174900
		Discharge conveyor (short)	400	71478		80655
W 50 DC	0905	Discharge conveyor	400	50002	175164	174900
		Discharge conveyor (short)	400	71478		80655
W 50 Ri	1505	Discharge conveyor	350	2279330	2314051, 2432900	2308949
		Discharge conveyor (short)	350	2323424		2322317
W 600 DC, W 1000 L	0705	Discharge conveyor	400	97243	104643	99288
W 60, W 60i	0910, 1210	Discharge conveyor	500	71776	2095029	72056
W 100, W 100i					2048690	
W 100 R, W 100 Ri, W 120 R, W 120 Ri	1510, 1610	Discharge conveyor	500	71776	2048690, 2095029 (FB600)	2433004
		Discharge conveyor (short)	500	2080936		2434068
W 100 H, W 130 H	1410	Discharge conveyor	400	50002	175164	2277620
		Discharge conveyor (long)	400	2327881		2328109

HOT-VULCANISED CONVEYOR BELTS

Machine type	Model	Conveyor belt			Rubber for chute/trough	Sealing on the sides
		Conveyor type	Width (mm)	Part No.	Part No.	Part No.
W 1000 F, W 1200 F, W 1300 F	0710	Loading conveyor	600	125134	90105	125119
		Discharge conveyor	600	51873	90182	90181
W 100 F, W 120 F, W 130 F	0810	Loading conveyor	650	191410	90105	125119
		Discharge conveyor	600	51873	90182	90181
		Discharge conveyor (short)	600	2068042	90182	2074181
W 100 Fi, W 120 Fi, W 130 Fi	1310	Loading conveyor	650	2173916	90105	2173499
		Discharge conveyor	600	51873	90182	90181
		Discharge conveyor (short)	600	2068042	90182	2074181
W 100 CFi, W 120 CFi, W 130 CFi	1810	Loading conveyor	650	191410	90105	125119
		Discharge conveyor	600	51873	2406252	2419317
		Discharge conveyor (short)	600	2068042	2406252	2417220
W 1500, W 1900	0820, 0920, 1020	Loading conveyor	800	52890	82811	82796
		Discharge conveyor	800	57482	57808, 2 x 53015	113567
W 150, W 150i	0513, 0613	Loading conveyor	650	2075932	90105	2065890
		Discharge conveyor	600	51873	90182	90181
		Discharge conveyor (short)	600	2068042	90182	2074181
W 150 CF, W 150 CFi	0713, 0813	Loading conveyor	650	2431790	2431755	2065890
		Discharge conveyor	600	51873	2406252	2419317
		Discharge conveyor (short)	600	2068042	2406252	2417220
W 2000	0620, 1120	Loading conveyor	800	112781	112499	112519
		Discharge conveyor	800	57482	57808, 2 x 53015	113567
W 200, W 210, W 200i, W 210i	1220, 1320, 1420, 1520	Loading conveyor	850	2106093	2103389	2103391
		Discharge conveyor	850	2106086	2123672, 2 x 2123671	2120794
W 200 H, W 200 Hi	1620, 1720	Loading conveyor	800	2212374	2259960	2213516
			800	2219593	2219839, 2 x 2123730	2220370
		Discharge conveyor	850	2106086	2219839, 2 x 2123730	2120794
W 2100	0921	Loading conveyor	1000	53870	124921	139444
		Discharge conveyor	1000	138316	138961, 2 x 53015	113567
W 2200	0821	Loading conveyor	1100	116577	124921	122757
		Discharge conveyor	1100	116578	121754, 2 x 53015	113567
W 220	0522	Loading conveyor	1100	2161723	2168792	2157177
		Discharge conveyor	1000	2178711	2179300, 2 x 2123671	2120794
W 250, W 250i	0422, 0622	Loading conveyor	1100	116577	2168792	2169106
		Discharge conveyor	1100	2147320	2121869, 2 x 2123671	2120794
KMA 200, KMA 220	04MS, 05MS	Dosing conveyor	1000	150748		2109430
		Discharge conveyor	800	8383		



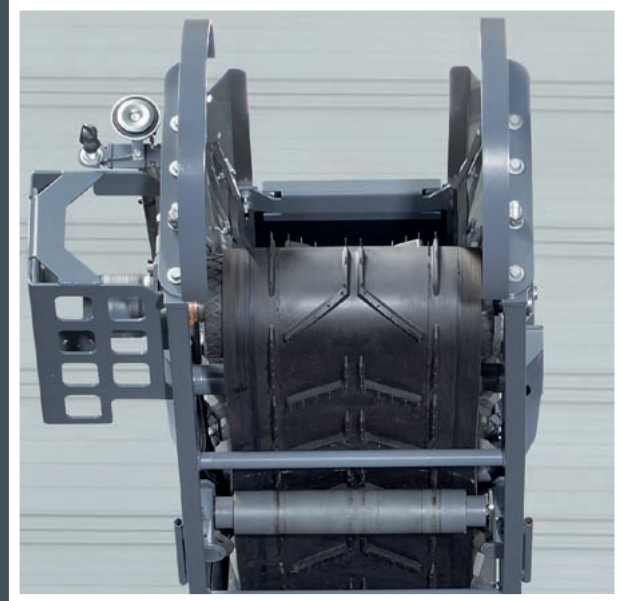
**W 200:
ALL-ROUNDER FOR
LARGE AREAS**

ORIGINAL WIRTGEN

DRIVE AND RETURN ROLLERS

The high milling performance of WIRTGEN road milling machines requires reliable transportation of the milled material. In addition to the conveyor belt, the drive and return rollers play a major role.

With their special design and fabrication processes, original WIRTGEN drive and return rollers have been specially developed for this task. A reliable power transmission, combined with a high running smoothness, guarantees the high economical efficiency of WIRTGEN road milling machines. Here, WIRTGEN uses only the best materials. The special rubber compound has an optimised coefficient of friction.



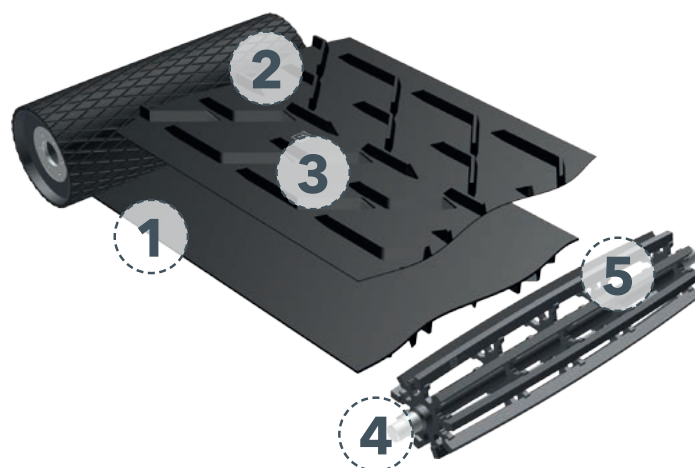
1 *Thick-walled special rubber compound* with safe power transmission ensures a long service life. The diamond design prevents adhesion of asphalt.

2 *The permanent bond* between the rubber and metal ensures a long service life.

3 *Optimised shape and curved outer contour* ensures the accurate belt centring.

4 *The steel construction with smallest manufacturing tolerances and at least nine support bars* made of high-quality alloy steel ensures safe running and long service life.

5 *Solid and open design principle* supports the long-term dimensional stability even under extreme conditions and prevents adhesion of asphalt.





Machine type	Model	Conveyor type	Designation	Part No.
W 35 DC	0403	Discharge conveyor	Drive roller B250	182505
			Return roller B250	182519
W 500	0605	Discharge conveyor	Drive roller B400	43231
			Return roller B400	7654
W 50	1005	Discharge conveyor	Drive roller B400	43231
			Return roller B400	7654
W 50 DC	0905	Discharge conveyor	Drive roller B400	43231
			Return roller B400	7654
W 50 Ri	1505	Discharge conveyor	Drive roller B350	2279067
			Return roller B350	2279219
W 600 DC, W 1000 L	0705	Discharge conveyor	Drive roller B400	43231
			Return roller B400	7654
W 60(i), W 100(i), W 100 R(i), W 120 R(i)	0910, 1220, 1510, 1610	Discharge conveyor	Drive roller B500	72052
			Return roller B500	72060
W 1000 F, W 1200 F, W 1300 F	0710	Loading and discharge conveyor	Drive roller B600	90117
			Return roller B600	90059
W 100 F(i), W 120 F(i), W 130 F(i), W 100 CF(i), W 120 CF(i), W 130 CF(i)	0810, 1310, 1710, 1810	Loading conveyor	Drive roller B650	190358
			Return roller B650	190357
		Discharge conveyor	Drive roller B600	90117
			Return roller B600	90059
W 100 H, W 130 H	1410	Discharge conveyor	Drive roller B400	43231
			Return roller B400	7654
W 1500, W 1900	0820, 0920, 1020	Loading conveyor	Drive roller B800	52667
			Return roller B800	52666
		Discharge conveyor	Drive roller B800	95865
			Return roller B800	110871
W 150(i)	0513, 0613	Loading conveyor	Drive roller B650	190358
			Return roller B650	190357
		Discharge conveyor	Drive roller B600	90117
			Return roller B600	90059
W 150 CF(i)	0713, 0813	Loading conveyor	Drive roller B650	190358
			Return roller B650	2431175
		Discharge conveyor	Drive roller B600	90117
			Return roller B600	90059
W 2000	0620, 1120	Loading and discharge conveyor	Drive roller B800	95865
			Return roller B800	110871
W 200(i), W 210(i)	1220, 1320, 1420, 1520	Loading and discharge conveyor	Drive roller B850	2107985
			Return roller B850	2105093
W 200 Hi	1720	Loading and discharge conveyor	Drive roller B800	95865
			Return roller B800	2203028
		Discharge conveyor	Drive roller B850	2107985
			Return roller B850	2105093
W 2100	0921	Loading and discharge conveyor	Drive roller B1000	138926
			Return roller B1000	128671
W 2200	0821	Loading and discharge conveyor	Drive roller B1100	127761
			Return roller B1100	111225
W 220	0522	Loading conveyor	Drive roller B1100	127761
			Return roller B1100	2141645
		Discharge conveyor	Drive roller B1000	138926
			Return roller B1000	2178746
W 250(i)	0422, 0622	Loading and discharge conveyor	Drive roller B1100	127761
			Return roller B1100	2141645
KMA 200, KMA 220	04MS, 05MS	Dosing conveyor	Drive roller B1000	138926
			Return roller B1000	154282
		Discharge conveyor	Drive roller B800	95865
			Return roller B800	110871

ORIGINAL WIRTGEN

GUIDE ROLLERS AND SUPPORT ROLLERS

WIRTGEN conveyor belt systems combine a high conveyor capacity with a low power consumption.

Original WIRTGEN guide rollers ensure low-friction circulation of the conveyor belts. High-quality bearings of the rollers and wear-resistant running surfaces are the essential features. Easily detachable connections make changing guide rollers a simple task.



1 *High-quality heat-treated connecting elements for maximum load capacity of garland rollers move freely and avoid adhesion of asphalt.*

2 *Generously dimensioned buffer rings reduce the conveyor belt loads and rubberised belt rollers ensure ease of guidance and cleaning of the conveyor belt.*

3 *Materials used with minimal friction coefficients reduce wear on the support roller.*

4 *Automatic, trough-shaped conveyor belt adjustment in the garland roller area increases capacity.*

5 *High-quality roller bearings with labyrinth seals enhance the low friction and safe guide, lateral conveyor belt guide ensures directional stability.*





Machine type	Model	Roller type	No. of components used			Part No.	Replacement bearing kit
			Discharge conveyor				Part No. (per individual roller)
			Standard	short	long		
W 35 DC	0403	Support roller B250	6	4		182129	2145406
W 500	0605	Guide roller	2			54954	
		Support roller B400	10			8363	2145406
		Belt roller B400	3	3		71844	
W 50, W 50 DC	0905, 1005, 1205	Guide roller	2	2		54954	
		Roller B400	7	0		171832	2145406
		Belt roller B400	3	3		71844	
W 50 Ri	1405, 1505	Guide roller	2	2		54954	
		Roller B350	9	4		2279085	
		Belt roller B350	3	1		2279214	
W 600 DC, W 1000 L	0705	Guide roller	4			54954	
		Roller B400	4			99285	2145406
		Roller B400	6			99286	
		Belt roller B400	5			71844	
W 60, W 100, W 60i, W 100i	0910, 1210	Guide roller	4			54954	
		Roller B500	4			72068	2145406
		Roller B500	7			71777	
		Belt roller B500	6			72067	
W 100 R, W 100 Ri	1510, 1610	Guide roller	2	2	2	54954	
		Roller B500	4	4	4	72068	2145406
		Roller B500	7	6	7	71777	
		Belt roller B500	6	5	5	2373013	

GUIDE ROLLERS AND SUPPORT ROLLERS

Machine type	Model	Roller type	No. of components used				Part No.	Replacement bearing kit
			Loading conveyor	Discharge conveyor				Part No. (per individual roller)
				Standard	Folding conveyor	Folding conveyor short		
W 1000 F, W 1200 F, W 1300 F	0710	Guide roller	2	4			54954	2145406
		Roller B600	6	4			90120	
		Roller B600		7			90122	
		Belt roller B600	3	6			90121	
W 100 F, W 120 F, W 130 F, W 100 Fi, W 120 Fi, W 130 Fi	0810, 1310	Guide roller	2	4	4	4	54954	2145406
		Roller B650	6				190448	
		Belt roller B650	3				191392	
		Roller B600		4	4	4	90120	
		Roller B600		7	7	6	90122	
		Belt roller B600		6	5	4	90121	
W 100 CF(i), W 120 CF(i), W 130 CF(i)	1710, 1810	Guide roller	2	2	2	2	54954	2145406
		Roller B650	6				190448	
		Belt roller B650	3				2341067	
		Roller B600		4	4	4	90120	
		Roller B600		7	7	6	90122	
		Belt roller B600		6	5	4	2341068	
W 100 H, W 130 H	1410	Guide roller		2	4		54954	2145406
		Roller B400		8	11		171832	
		Belt roller B400		3	4		71844	
W 1500, W 1900	0820, 0920, 1020	Guide roller	2	4	4		54954	2137880
		Roller B800		10	11		111363	
		Roller B800	4				65967	
		Belt roller B800	2				52889	
		Belt roller B800		5	5		111348	
W 150, W 150i	0513, 0613	Guide roller	2	4	4	4	54954	2145406
		Roller B650	4				190448	
		Belt roller B650	2				191392	
		Roller B600		4	4	4	90120	
		Roller B600		7	7	6	90122	
		Belt roller B600		6	5	4	90121	
W 150 CF(i)	0713, 0813	Guide roller	2	2	2	2	54954	2145406
		Roller B650	4				190448	
		Belt roller B650	2				2341067	
		Roller B600		4	4	4	90120	
		Roller B600		7	7	6	90122	
		Belt roller B600		5	5	4	2341068	
KMA 200	04MS	Guide roller	4		2		54954	
KMA 220	05MS	Cushioned roll	19				150768	2145408
		Support roller	4				150792	2145408
		Roller B800			7		65967	2137880
		Belt roller B800			2		111348	2145406



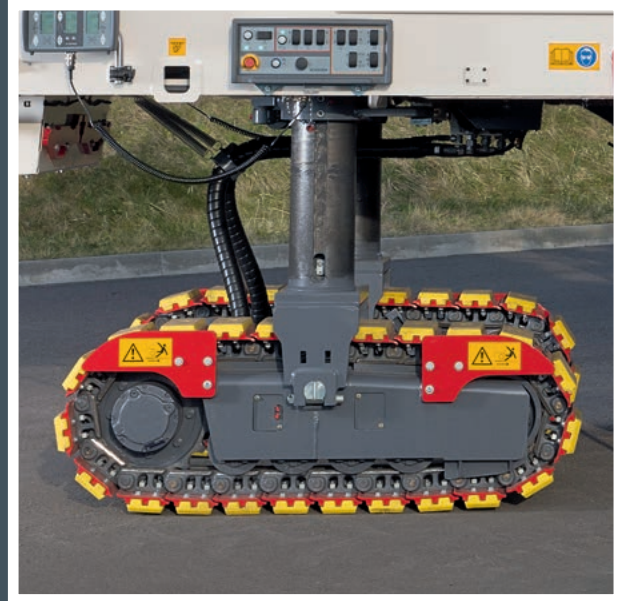
Machine type	Model	Roller type	No. of components used			Part No.	Replacement bearing kit
			Loading conveyor	Discharge conveyor			Part No. (per individual roller)
				Standard	Folding conveyor		
W 2000	0620, 1120	Guide roller	4	4	4	54954	
		Roller B800	5	10	11	111363	2137880
		Belt roller B800	2	5	5	111348	2145406
W 200, W 210, W 200i, W 210i	1220, 1320, 1420, 1520	Guide roller	2	4	4	54954	
		Roller B850	5	10	10	2091189	2137880
		Belt roller B850	2	5	5	2091190	2145410
W 200 Hi	1620, 1720	Guide roller	2	4	4	54954	
		Roller B800	5		7	111363	2137880
		Belt roller B800	2		3	2104500	2145406
		Roller B850			10	2091189	2137880
		Belt roller B850			5	2091190	2145410
W 2100	0921	Guide roller	4	4	4	54954	
		Roller B1000	5	10	11	138312	2145408
		Belt roller B1000	2			146073	2137880
		Belt roller B1000		5	5	53907	2145406
W 2200	0821	Guide roller		4	4	54954	
		Roller B1100	6	10	11	116524	2145408
		Belt roller B1100	2			146072	2137880
		Belt roller B1100		5	5	116747	2145406
W 220	0522	Guide roller	2	4	4	54954	
		Roller B1100	6			116524	2145408
		Belt roller B1100	2			2147184	2145410
		Roller B1000		10	9	138312	2145408
		Belt roller B1000		5	5	2219716	2145410
W 250, W 250i	0422, 0622	Guide roller	2	4	4	54954	
		Roller B1100	6	10	9	116524	2145408
		Belt roller B1100	2	5	5	2147184	2145410

ORIGINAL WIRTGEN CRAWLER UNIT CHAINS

With WIRTGEN's modern machines, reliable tractive power transmission goes without saying, even under the toughest conditions on site.

Original WIRTGEN crawler unit chains with their bolted-on conventional or EPS **PLUS** track pads can fulfil all of your needs, such as highest levels of strength and long service lives even under extreme load.

WIRTGEN crawler unit chains are matched in size and material to the drive wheels, track pads and track rollers.



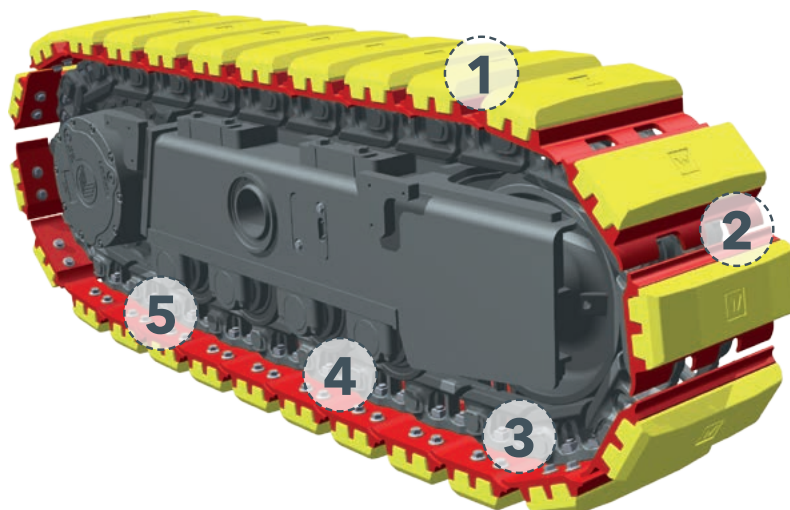
1 *In conventional or EPS PLUS track pads, a type of modular system reduces the number of wearing parts.*

2 *Hinges withstand extreme soiling and screw connections provide, through optimised elongation length, high dynamic load capacity.*

3 *Heat-treated chain pins and bushings, lubricated in part, are wear-resistant and serve in the highest capacity to withstand stresses.*

4 *Induction-hardened, curved treads perfect the wear behaviour.*

5 *Special design and high intrinsic strength of the chain links guarantee the permanent edge stability.*





Machine type	Model	Series range	Designation	Pads per crawler unit	Crawler unit chain		
					without track pads	with conventional track pads	with EPS PLUS track pads
					Part No.	Part No.	Part No.
W 1000 F, W 1200 F, W 1300 F, W 100 F(i), W 120 F(i), W 130 F(i), W 100 CF(i), W 120 CF(i), W 130 CF(i)	0710, 0810, 1310, 1710, 1810	0001 - 9999	W1/260	20	131296	131303	2121472
W 1500, W 1900	0820, 0920, 1020			24	108750	108756	2136667
W 150(i), W 150 CF(i)	0513, 0613, 0713, 0813			20	131296	131303	2121472
W 200(i), W 200 H(i)	1220, 1420, 1620, 1720			24	108750	108756	2136667
SP 150, SP 15(i)	09SP, 12SP, 14SP			20	131296	131303	2121472
W 2000	0620, 1120	0001 - 9999	W3/300	23	121236	121235	2136665
W 210(i)	1320, 1520						
W 2100	0921	0001 - 0147	W4/350	24	41344	41345	
		0148 - 9999			191688	193228	2213105
W 220	0522	0001 - 9999					
W 2200	0821	0001 - 9999	W5/360	26	176322	176321	2517143
W 250(i)	0422, 0622						
2200 SM	0821	0740 - 9999		24	2416649	2531040	
SP 250, SP 500, SP 25(i)	08SP, 10SP, 13SP, 15SP	0001 - 9999	W0/300	27	120561	120610	

ORIGINAL WIRTGEN

EPS PLUS

TRACK PADS

The Easy Pad system is an innovation in the original WIRTGEN POLY GRIP series track pads, identifiable by their red and yellow colour combination. It allows the pads to be replaced simply by unscrewing them from the baseplate when the useful polyurethane layer is worn through. The compact spare part simplifies transport and assembly.

The EPS **PLUS** track pad has no holes which can accumulate and cake milled material. Subsequently the track pads conserve the finished ground.

All components are available individually or as a service package per crawler unit.



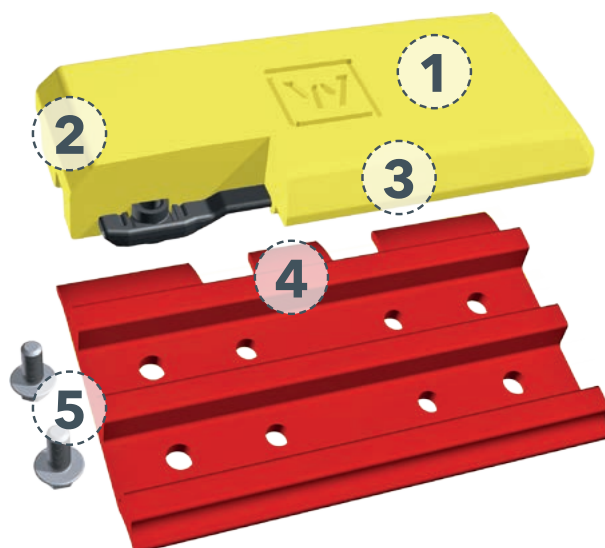
1 **The closed surface** ensures a cleaner site and offers safe transport and an increased wear volume with more than 20% compared to the conventional system.

2 **Angled tread** for optimised running characteristics combined with rounded edges and small slopes with projection to the baseplate to prevent damage to curbs.

3 **Special polyurethane compound** with high volume coefficient ensures extremely high tensile strength and longer service life.

4 **Threaded steel inserts** ensure the connection to the steel plate by metallic contact, whereby the high-quality heat-treated, on all sides blasted and coated baseplate with special boron steel has a good hinge capability.

5 **Fine thread screws** and screw retention provide a reliable connection and facilitate easier mounting thanks to good accessibility of the screw.





Machine type	Model	Series range	Designation	EPS PLUS track pads			
				Base plate	Pad	Screws	
				Part No.	Part No.	Quantity	Part No.
W 1000 F, W 1200 F, W 1300 F, W 100 F(i), W 120 F(i), W 130 F(i), W 100 CF(i), W 120 CF(i), W 130 CF(i)	0710, 0810, 1310, 1710, 1810	0001 - 9999	W1/260	2063489	2411111	Individual	2167049
W 1500, W 1900	0820, 0920, 1020					100	2103002
W 150(i), W 150 CF(i)	0513, 0613, 0713, 0813						
W 200(i), W 200 H(i)	1220, 1420, 1620, 1720						
W 2000	0620, 1120	0001 - 9999	W3/300	2063490	2411112	Individual	2167049
W 210(i)	1320, 1520					100	2103002
W 2100	0921	0001 - 9999	W4/350	2063491	2102698	Individual	2167050
W 220	0522					50	2103003
W 2200	0821	0001 - 9999	W5/360	2063492	2102699	Individual	2167050
W 250(i)	0422, 0622					50	2103003

ORIGINAL WIRTGEN

SERVICE PACKAGES FOR TRACK PADS

EPS PLUS

SERVICE PACKAGE I > For converting a crawler unit to **EPS PLUS**, without crawler unit chain

SERVICE PACKAGE II > **EPS PLUS** pads with nuts for one crawler track, without crawler unit chain

SERVICE PACKAGE III > **EPS PLUS** pallet large-scale order: Contains all the **EPS PLUS** track pads not including the steel base plate, including an adequate number of all the necessary bolts

Machine type	Model	Series range	Designation	Service package I	Service package II	Service package III	
				Part No.	Part No.	Track pads per pallet	Part No.
W 1000 F, W 1200 F, W 1300 F, W 100 F(i), W 120 F(i), W 130 F(i), W 100 CF(i), W 120 CF(i), W 130 CF(i)	0710, 0810, 1310, 1710, 1810	0001 - 9999	W1/260	2063498	2063504	200	2275797
W 1500, W 1900	0820, 0920, 1020			2063499	2063505		
W 150(i), W 150 CF(i)	0513, 0613, 0713, 0813			2063498	2063504		
W 200(i), W 200 H(i)	1220, 1420, 1620, 1720				2063505		
W 2000	0620, 1120	0001 - 9999	W3/300	2063500	2063506	200	2275798
W 210(i)	1320, 1520						
W 2100	0921	0001 - 9999	W4/350	2063502	2063649	100	2275799
W 220	0522						
W 2200	0821	0001 - 9999	W5/360	2063503	2063650	104	2275800
W 250(i)	0422, 0622						



**W 220:
HIGH PERFORMANCE
IN COMPACT DESIGN**

ORIGINAL WIRTGEN

TRACK PADS POLY GRIP CONVENTIONAL SYSTEM

In the tough everyday conditions on job sites, plastic pads prevent the asphalt pavement being damaged by road milling machines.

The red and yellow colour combination identifies the original WIRTGEN POLY GRIP series track pads, which consist of a steel base plate made of high-quality heat-treated boron steel and a coated pad made of a polyurethane mixture. The latter was chosen so that on a variety of terrains reliable traction is always guaranteed. Here, the terrain can be loose and unattached, as well as smooth and hard.

POLY GRIP track pads are fitted directly on the chain links with nuts and bolts.



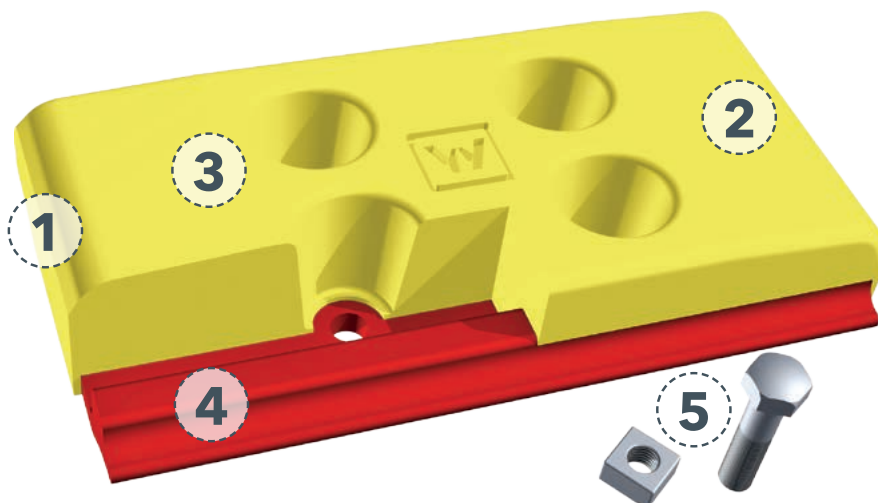
1 *The special polyurethane mixture ensures a stable and service-life enhancing joint structure, even under high-localised stresses.*

2 *The high polyurethane volume ensures an extremely long life.*

3 *The wear and tear resistance as well as the angled tread of the track pads are particularly impressive when driving over curbs or milling edges, for example.*

4 *The high-quality heat-treated, all sides blasted and coated steel plates made of special boron steel provide an optimised bonding to the polyurethane composition material.*

5 *High-strength track pad bolting with rounded head and fine thread provides a durable and reliable screw connection.*





Machine type	Model	Series range	Designation	POLY GRIP track pad		
				Track pad	Bolt	Nut
				Part No.	Part No.	Part No.
W 1000 F, W 1200 F, W 1300 F, W 100 F(i), W 120 F(i), W 130 F(i), W 100 CF(i), W 120 CF(i), W 130 CF(i)	0710, 0810, 1310, 1710, 1810	0001 - 9999	W1/260	150740	18501	18502
W 1500, W 1900	0820, 0920, 1020	0001 - 9999				
W 150(i), W 150 CF(i)	0513, 0613, 0713, 0813	0001 - 9999				
SP 150, SP 15(i)	09SP, 12SP, 14SP	0001 - 9999				
W 2000	0620, 1120	0001 - 9999	W3/300	150821	1861	1860
W 2100	0921	0001 - 9999	W4/350	144728	37824	37825
W 2200	0821	0001 - 9999	W5/360	144727	43500	43499
SP 250, SP 500, SP 25(i)	08SP, 10SP, 13SP, 15SP	0001 - 9999	W0/300	151757	120552	120553

Machine type	Model	Series range	Designation	Service package I (all components necessary for one crawler unit)		Service package II (all components necessary to fit the stated number of track pads)	
				Track pads per crawler track	Part No.	Track pads per pallet	Part No.
W 1000 F, W 1200 F, W 1300 F, W 100 F(i), W 120 F(i), W 130 F(i), W 100 CF(i), W 120 CF(i), W 130 CF(i)	0710, 0810, 1310, 1710, 1810	0001 - 9999	W1/260	20	162455	200	2063664
W 1500, W 1900	0820, 0920, 1020	0001 - 9999		24	85186	200	2063664
W 150(i)	0513, 0613	0001 - 9999		20	162455	200	2063664
SP 150, SP 15(i)	09SP, 12SP, 14SP	0001 - 9999					
W 2000	0620, 1120	0001 - 9999	W3/300	23	162456	200	2063665
W 2100	0921	0001 - 9999	W4/350	24	165045	100	2063666
W 2200	0821	0001 - 9999	W5/360	26	130346	104	2063667

ORIGINAL WIRTGEN TRACK ROLLERS

WIRTGEN road milling machines are famous for their high advance speeds even with large milling depths. The crawler units and particularly the track rollers on road milling machines are exposed to very high-load conditions. They have to absorb high-machine loads and still provide outstanding in-line tracking.

WIRTGEN uses high-quality track rollers mounted in anti-friction or friction bearings which have been exclusively developed for the respective machine types concerned. Particular emphasis was placed on optimal performance without maintenance.



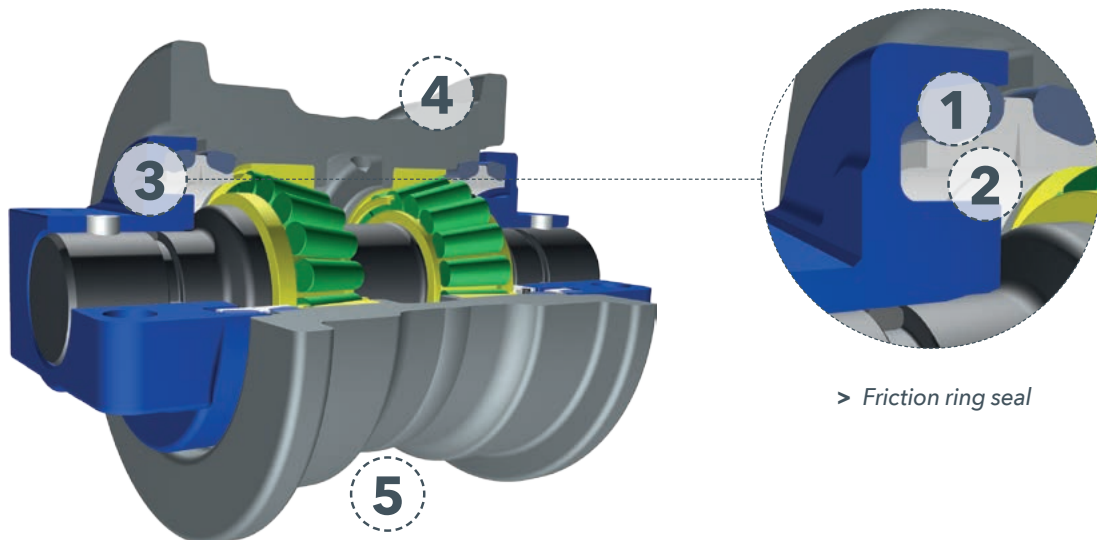
1 *The O-ring ensures maximum temperature stability.*

2 *Distortion-free cast iron ring with microporosity stands for reliable lubrication.*

3 *Maintenance-free seals mean no awkward seal replacement.*

4 *Antifriction bearing setting for long service life. The antifriction bearings are lubricated for life.*

5 *Hardness of the profile-exact manufactured tread fits the WIRTGEN crawler unit chains exactly and increases durability.*



> Friction ring seal



Machine type	Model	Series range	Designation	Track rollers		
				Quantity	Antifriction bearing	Friction bearing
W 1000 F, W 1200 F, W 1300 F	0710	0001 - 9999	W1	3	193999	
W 100 F(i), W 120 F(i), W 130 F(i), W 100 CF(i), W 120 CF(i), W 130 CF(i)	0810, 1310, 1710, 1810	0001 - 9999		3	191936	
W 1500, W 1900	0820, 0920, 1020	0001 - 9999		4	193999	
W 150(i), W 150 CF(i)	0513, 0613, 0713, 0813	0001 - 9999		3	191936	
W 200(i), W 200 H(i)	1220, 1420, 1620, 1720	0001 - 9999		4	191936	
SP 150, SP 15(i)	09SP, 12SP, 14SP	0001 - 9999		3	191936	
W 2000	0620, 1120	0001 - 9999	W3	4	2066123	
W 210(i)	1320, 1520	0001 - 9999		4	2111494	
W 2100	0921	0001 - 9999	W4	4	2070670	
W 220	0522	0001 - 9999		4	2070670	
W 2200	0821	0001 - 0311	W5	4		118719
		0312 - 9999		4		2053169
W 250(i)	0422, 0622	0001 - 9999		4	2165046	

ORIGINAL WIRTGEN CRAWLER UNIT PARTS

The WIRTGEN crawler units are designed to translate motive power into powerful feed during the milling process even in tough everyday site conditions.

All parts are precisely shaped and dimensioned to match the chain and ensure both effective power transmission and precise maintenance of the set course. The materials used guarantee a long service life and high functional reliability.

Preassembled idler units and tensioner systems permit rapid replacement, thus boosting the machine's availability.



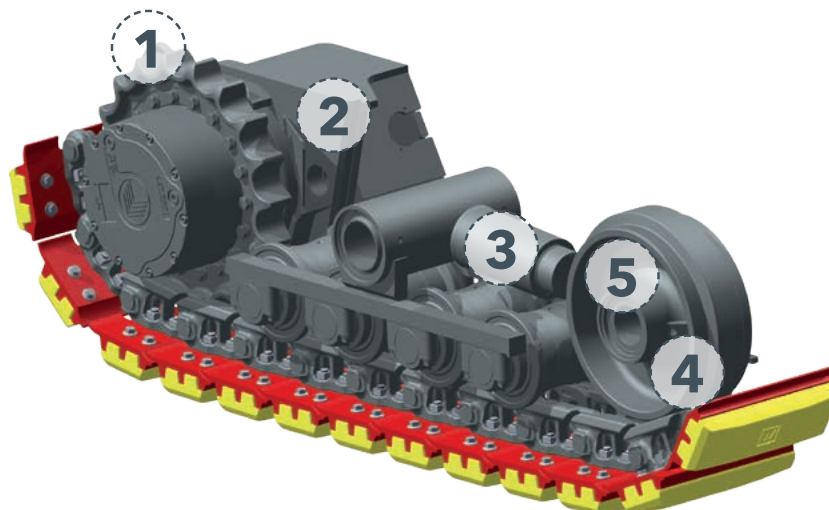
1 Drive wheel of hardened, highly wear-resistant cast steel ensures long life, its perfect fit the optimal power transmission.

2 Sound-insulating chain slide bar made of self-lubricating polyamide is supported by precision pivot bearings with optimum sliding properties and high-load capacity.

3 Shock-insensitive and maintenance-free hydraulic tensioner ensures that the tensioning is always correct.

4 Hardened guide system provides continuous tracking capability.

5 Lifetime-lubricated idler unit made of wear-resistant material ensures precise tracking.





Machine type	Model	Series range	Tensioner unit Spring / grease-system				Tensioner unit Hydraulic cylinder system	
			Tensioner unit complete		Grease nipple	Sealing kit tensioner	Tensioner unit complete	Sealing kit tensioner
			front	rear				
W 1000 F	0710	0008 - 9999					129987	129989
W 100 F(i), W 120 F(i), W 130 F(i), W 100 CF(i), W 120 CF(i), W 130 CF(i)	0810, 1310, 1710, 1810	0001 - 9999					2056849	2056852
W 1500, W 1900	0820, 1020	0001 - 9999	106035	106036	38480	101814		
W 150(i), W 150 CF(i)	0513, 0613, 0713, 0813	0001 - 9999					2056849	2056852
W 2000	0620, 1120	0001 - 9999	121233	121233	38480	149063		
W 200(i), W 200 H(i)	1220, 1420, 1620, 1720	0001 - 9999					2056849	2056852
W 2100	0921	0001 - 9999					133015	133016
W 210(i)	1320, 1520	0001 - 9999					2056849	2056852
W 2200	0821	0001 - 9999					133015	133016
W 220	0522	0001 - 9999					133015	133016
W 250(i)	0422, 0622	0003 - 9999					133015	133016
SP 150, SP 15(i)	09SP, 12SP, 14SP	0001 - 9999					2056849	2056852

Machine type	Model	Series range	Drive wheel	Idler unit incl. idler guiding	Idler unit complete incl. tensioner unit		Chain slide bar	Pivot bearing	
					front	rear		Bushing	Joint
W 1000 F, W 1200 F, W 1300 F	0710	0008 - 9999	55602	87705					2 x 18503
W 100 F(i), W 120 F(i), W 130 F(i), W 100 CF(i), W 120 CF(i), W 130 CF(i)	0810, 1310, 1710, 1810	0001 - 9999	55602	87705			2056527		2 x 18503
W 150(i), W 150 CF(i)	0513, 0613, 0713, 0813	0001 - 9999	55602	87705			2056527		2 x 18503
W 1900	0820	0001 - 0107	55602	87705	106030	106031		2 x 55660	
		0108 - 9999	55602	87705	106030	106031			2 x 18503
W 2000	0620	0001 - 0293	121234	121232	121231	121231	138451	2 x 121258	
		0294 - 9999	121234	121232	121231	121231	138451		2 x 153718
W 200(i), W 200 H(i)	1220, 1420, 1620, 1720	0001 - 9999	55602	2139776			2139779		2 x 153718
W 2100	0921	0001 - 0147	41346	73749			138451		2 x 20345
		0148 - 9999	41346	191689			138451		2 x 20345
W 210(i)	1320, 1520	0001 - 9999	121234	2139776			2139779		2 x 153718
W 2200	0821	0001 - 0115	133013	133014			133018	2 x 133017	
		0116 - 9999	133013	133014			133018		2 x 21063
W 220	0522	0001 - 9999	41346	191689			2212009		2 x 21063
W 250(i)	0422, 0622	0003 - 9999	133013	133014			133018		2 x 21063
2200 SM	0821	0740 - 9999	2416655				133018		2 x 21063
SP 150, SP 15(i)	09SP, 12SP, 14SP	0001 - 9999	55602	87705			2056527	2127559	2 x 18503

ORIGINAL WIRTGEN WHEELS AND TYRES

Machine traction is an important basic prerequisite for optimum milling performance. Milling machine and wheels must be matched precisely.

Original WIRTGEN wheels have been specially developed on the basis of many years of practical experience to ensure optimum working results by WIRTGEN's small milling machines and cold and hot recyclers, as well as to minimise wear costs. Wheels of cut-resistant elastomer rubber should be used for small milling machines. High-quality pneumatic and solid rubber tyres are recommended for cold recyclers.



1 *Tyre widths* are specially adjusted to the respective milling machine.

2 *High damping properties* influence the very quiet driving behaviour.

3 *Precise wheel centring and wheel body* serve the highest stress.

4 *Durable and reliable rubber-steel connection* guarantees a long service life.

5 *Cut-resistant elastomer rubber compound* optimises the characteristics of the WIRTGEN small milling machines.





Machine type	Model	Series range	Wheels and tyres		
			Position	Wheel complete	Solid rubber tyre
W 350 E	0303	0001 - 9999	front	56529	57151
			rear	109638	
W 35	0503	0001 - 9999	front	2138565	2138566
		0001 - 0039	rear	109638	
		0040 - 9999	rear	181793	
W 35 DC	0403	0001 - 9999	front	2138565	2138566
			rear	181793	
W 35 Ri	0703	0001 - 9999	front	2138565	2138566
			rear	181793	
W 500	0605	0001 - 9999	3 wheel front + rear	53348	57151
			4 wheel front	62602	74626
			4 wheel rear	53348	57151
W 50	0805	0001 - 9999	3 wheel front	2136673	2136675
			4 wheel front	2136641	2136645
		0001 - 0067	3 wheel, 4 wheel rear	172139	171108
		0068 - 9999	3 wheel, 4 wheel rear	2136678	2136675
W 50	1005	0001 - 0999	3 wheel front	2136673	2136675
			4 wheel front	2136641	2136645
			3 wheel, 4 wheel rear	2136678	2136675
W 50 H	1305	0001 - 9999	front	2453827	2453888
			rear	2453783	2453785

ORIGINAL WIRTGEN

WHEELS AND TYRES

Machine type	Model	Series range	Wheels and tyres		
			Position	Wheel complete	Solid rubber tyre
W 50 DC	0905	0001 - 0099	3 wheel front	2136673	2136675
		0100 - 9999	3 wheel front	2136683	2136675
		0001 - 0099	4 wheel front	2136641	2136645
		0100 - 9999	4 wheel front	2136670	2136645
		0001 - 0050	3 wheel, 4 wheel rear	173684	57151
		0051 - 9999	3 wheel, 4 wheel rear	2136678	2136675
W 50 DCi	1205	0001 - 9999	3 wheel front	2136683	2136675
			4 wheel front	2136670	2136645
			3 wheel, 4 wheel rear	2136678	2136675
W 50 R(i), W 60 R(i)	1405, 1505	0001 - 9999	3 wheel front	2347467	2286953
			4 wheel front	2286975	2286953
			3 wheel, 4 wheel rear	2286962	2136675
W 600 DC, W 1000 L	0705	0001 - 0034	3 wheel front	97720	57151
		0035 - 9999	3 wheel front	111868	56052
		0001 - 0106	4 wheel front	102476	74626
		0107 - 9999	4 wheel front	117051	117053
		0001 - 9999	3 wheel, 4 wheel rear	97720	57151
W 60(i), W 100(i), W 100 R(i), W 120 R(i)	0910, 1210, 1510, 1610	0001 - 9999	3 wheel front	2136698	2136699
			4 wheel front	2136687	2136688
			3 wheel, 4 wheel rear	2136695	2136696
W 1000 F, W 1200 F, W 1300 F, W 100 F(i), W 120 F(i), W 130 F(i), W 100 CF(i), W 120 CF(i), W 130 CF(i)	0710, 0810, 1310, 1710, 1810	0001 - 9999	front + rear	125782	123417
W 100 H, W 130 H	1410, 1910	0088 - 9999	front	2149233	2149237
			rear	2149234	2149239



Machine type	Model	Series range	Pneumatic and solid rubber tyres			
			Position	Wheel complete	Tyre	Tube
WR 2000	03WR	0001 - 9999	left front + rear	2292198	2292195	
			right front + rear	2292199		
WR 2400, WR 240(i)	05WR, 07WR, 10WR	0001 - 9999	left front + rear	2472152	2472151	
			right front + rear	2472153		
WR 2500, WR 2500 S, WR 250	04WR, 08WR	0001 - 9999	left front + rear	2472152	2472151	
			right front + rear	2472153		
HM 4500	02HM, 06HM	0001 - 9999	left front + rear	15680	15374	15375
			right front + rear			
RX 4500	05RX	0001 - 9999	front + rear	32627	32023	

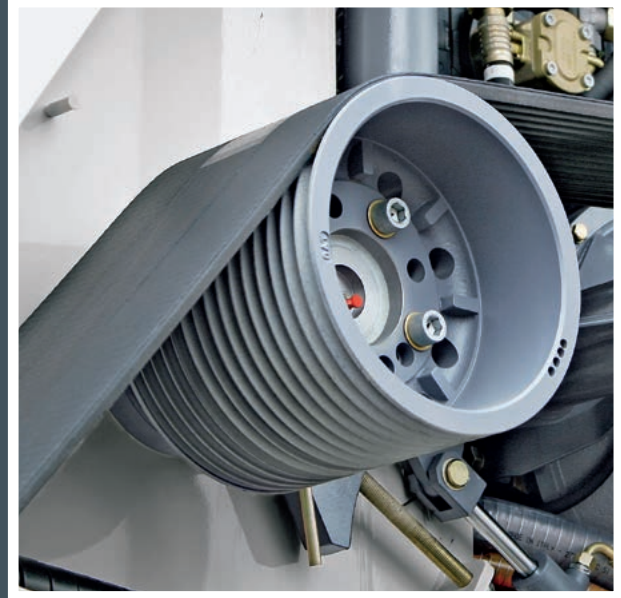
ORIGINAL WIRTGEN

POWER BELTS AND BELT PULLEYS FOR MILLING DRUM DRIVES

The power belts and belt pulleys make up a system that reliably transmits power from the engine to the milling drum and dampens disturbing vibrations.

The durable power belts and belt pulleys are precisely coordinated and optimised with regard to their coefficients of friction, so as to enable reliable transmission of the high tractive forces.

The belt pulleys are made of high-precision casting materials and are dynamically balanced.



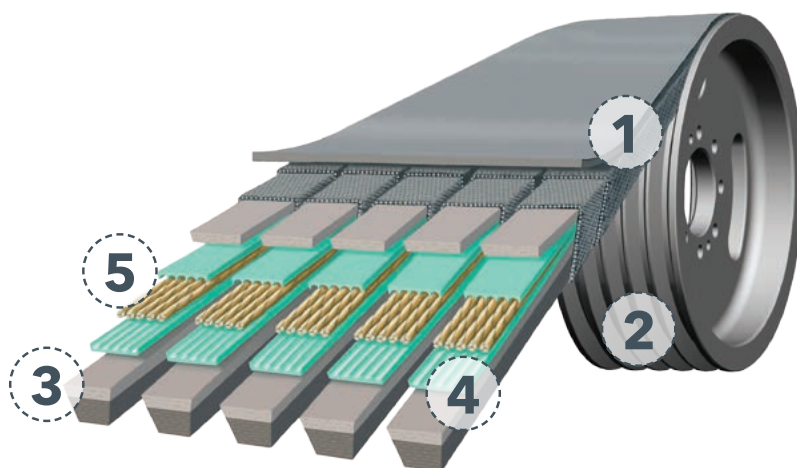
1 Optimised coefficients of friction for excellent coupling properties are supported by a multi-layer and abrasion-resistant fabric cover, which consists below the cover of extremely tear-resistant and cross-stable material mixture.

2 Wear-reduced belt pulleys are dynamically balanced for smooth operation and ensure the dissipation of the heat with its optimised form.

3 Fibre-reinforced core plate provides high stability in the transverse direction.

4 Compact design emphasises the excellent flexibility.

5 Low-stretch high modulus traction rope supports the ideal power transmission.





WIRTGEN road milling machines									
Machine type	Model	Series range	Assembly position of belt pulleys when shipped						V-belt compound unit
			Engine/clutch		Milling gearbox		Tensioner roller		
			Belt pulley 1		Belt pulley 2		Belt pulley 3		
			Ø (mm)	Part No.	Ø (mm)	Part No.	Ø (mm)	Part No.	
W 350 E	0303	0001 - 9999	187	77051	150	77052	96	77054	77050
W 35	0503	0001 - 9999	150	66891	187	66892	105	175666	176066
W 35 DC	0403	0001 - 9999	165	175664	200	175665	105	175666	176066
W 50	1005	0001 - 9999	215	170161	230	170170	155	173410	171089
W 50 DC(i)	0905, 1205	0001 - 9999	215	170161	230	170170	155	173410	171088
W 50 R(i), W 60 R(i)	1405, 1505	0001 - 9999	215	2286039	230	2286049	135	2264517	2365560
W 600 DC	0705	0001 - 9999	250	97146	300	97148	265	97207**	97153
W 1000 L	0705	0001 - 9999	250	97146	280	109646	265	97207**	97153
W 60(i), W 100(i)	0910, 1210	0001 - 9999	250	97146	280	97147	190	2046453	2276826
W 1000 F, W 1200 F, W 1300 F	0710	0001 - 9999	250	52203	325	90042	265	97207**	92815
W 100 F(i), W 120 F(i), W 130 F(i), W 100 CF(i), W 120 CF(i), W 130 CF(i)	0810, 1310, 1710, 1810	0001 - 9999	265	191432	315	170796	265	191432	194597
W 100 R(i), W 120 R(i)	1510, 1610	0001 - 9999	250	2378501	280	2378503	135	2264517	2378274
W 1500, W 1900	0820	0001 - 0253	330	142158	280	67150	250	67151	143377
		0254 - 9999			280	148639	250	186903	
	0920	0001 - 0219			280	67150	250	67151	
		0220 - 9999			280	148639	250	186903	
1020	0088 - 9999	280	148639	250	186903				
W 150	0513	0001 - 0103	315	170796	280	67150	250	186903	66894
		0104 - 9999				148639			
W 150i	0613	0001 - 9999	315	170796	280	148639	250	186903	66894
W 150 CF(i)	0713, 0813	0001 - 9999	265	2443001	250	2442788	250	2442788	2432611
W 2000*	0620, 1120	0001 - 9999	315	72438	280	114274	250	114275	113850
W 200(i)	1220, 1420	0001 - 9999	355	2096843	280	2102336	365	2079000	2117172
W 2100	0921	0001 - 9999	400	80028	355	72437	315	72438	138901
W 210	1320	0006 - 0329	355	2 x 2096843	280	2102336	365	2079000	2099851
		0330 - 9999							2202448
W 210i	1520	0001 - 9999	355	2 x 2096843	280	2102336	365	2079000	2202448
W 2200	0821	0001 - 9999	400	118543	355	118547	315	118545	120650
W 2200 (FB 3500-4300)	0821	0001 - 9999	400	118543	355	118547	315	118545	2 x 134734
W 220	0522	0001 - 0003	420	2096848	355	2101923	365	2163034	2173436
		0004 - 9999							2205179
W 250(i)	0422, 0622	0001 - 9999	420	2 x 2096848	355	2101923	365		
W 250(i) (FB 2200, 2500, 3100)	0422, 0622	0001 - 9999	420	2 x 2096848	355	2101923	365	2099112	2165101

* FCS upon request · ** Tensioner roller incl. bearing

ORIGINAL WIRTGEN

POWER BELTS AND BELT PULLEYS FOR MILLING DRUM DRIVES

WIRTGEN stabilisers and cold recyclers with 3 belt pulleys									
Machine type	Model	Series range	Assembly position of belt pulleys when shipped						V-belt compound unit
			Engine/clutch		Milling gearbox		Tensioner roller		
			Belt pulley 1		Belt pulley 2		Belt pulley 3		
			Ø (mm)	Part No.	Ø (mm)	Part No.	Ø (mm)	Part No.	
WR 2000	03WR	0001 - 9999	400	170798	355	170797	315	170796	173713
WR 200, WR 200i	06WR, 09WR	0001 - 9999	400	170798	355	170797	315	170796	2301089
WR 2400	05WR	0001 - 9999	400	80028	355	72437	315	72438	189294
WR 2500, WR 2500 S	04WR	0001 - 9999	355	72437	400	80028	355	72437	33142
WS 2200, WS 2500	01AS	0001 - 9999	330	182730	330	182730	190	182732	2 x 184981
WS 220, WS 250	02AS	0001 - 9999	330	182730	330	182730	190	182732	2 x 2106383

WIRTGEN stabilisers and cold recyclers with 4 belt pulleys											
Machine type	Model	Series range	Assembly position of belt pulleys when shipped							V-belt compound unit	
			Engine/clutch		Milling gearbox		Return roller		Tensioner roller (smooth)		
			Belt pulley 1		Belt pulley 2		Belt pulley 3				
			Ø (mm)	Part No.	Ø (mm)	Part No.	Ø (mm)	Part No.	Ø (mm)		Part No.
WR 240, WR 240i	07WR, 10WR	0001 - 9999	400	80028	355	72437	315	72438	365	2248223	2194459
WR 250	08WR	0001 - 9999	355	2219396	400	2219400	355	2219396	365	2248223	2240153



1/min rpm				
	112	126	160	181

WR 2000 and WR 2400

1/min rpm			
	108	137	154
	117	149	168
	127	161	181

WR 200 and WR 200i

1/min rpm			
	108	137	154
	120	153	172
	133	169	190

WR 240 and WR 240i

1/min rpm		
	100	127
	150	190

WR 2500

1/min rpm			
I		87	111
		97	124
		108	137
II		129	164
		145	184
		160	203

WR 250

ORIGINAL WIRTGEN

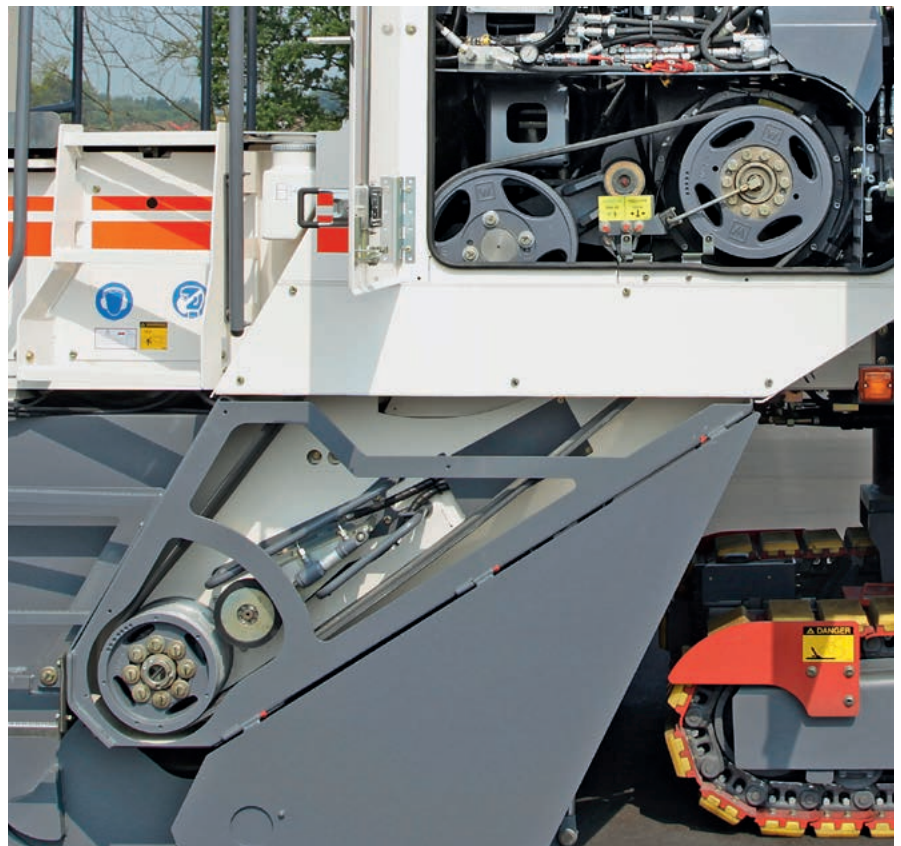
BELT TENSIONING SYSTEMS FOR MILLING DRUM DRIVES

The belt tensioning system ensures that belts are tensioned to the extent necessary for reliable transmission of the power and simultaneously serves as a damping element during load cycles.

Due to the system's intelligent conceptual design, the belt tension is automatically adjusted throughout the service life of the power belts and makes it easier to replace them during maintenance work.

The bearing shaft is made of high-strength steel which is additionally galvanised to protect it against corrosion. The bearing seats are hardened and ground. They guarantee the precise fit of the bearings and ensure a long service life.

The V-belt compound unit with several ribs effectively transfers power to the milling drum.



WIRTGEN small milling machines			Tensioner roller			
Machine type	Model	Series range	Bearing shaft	Bearing 1 (inside)	Bearing 2 (outside)	Tensioner/ Tensioner arm
W 350 E	0303	0001 - 9999	77055	10981	10981	68181
W 35	0503	0001 - 9999	175832	2463	10981	68181
W 35 DC	0403	0001 - 9999	175832	2463	10981	68181
W 50, W 50 DC(i)	1005, 0905, 1205	0001 - 9999	173409	86498	12071	176568
W 50 R(i), W 60 R(i)	1405, 1505	0001 - 9999	2264514	86498	86498	2264499
W 600 DC, W 1000 L	0705	0001 - 9999		2473	2473	53031
W 60(i)	0910, 1210	0001 - 9999		2473	2473	2046451
W 100(i)	0910, 1210	0001 - 9999		2473	2473	2064106
W 1000 F, W 1200 F, W 1300 F	0710	0001 - 9999		2473	2473	93991, 97207
W 100 F(i), W 120 F(i), W 130 F(i), W 100 CF(i), W 120 CF(i), W 130 CF(i)	0810, 1310, 1710, 1810	0001 - 9999	172728	89593	11465	
W 100 R(i), W 120 R(i)	1510, 1610	0001 - 9999	2264514	86498	86498	2264499



WIRTGEN large milling machines and recyclers			Tensioner roller			
Machine type	Model	Series range	Bearing shaft	Bearing 1 (inside)	Bearing 2 (outside)	Sealing rings
W 1500, W 1900	0820, 0920	0001 - 0253	143169	89593	11465	
		0254 - 9999	187006			
	1020	0001 - 9999				
W 150, W 150i, W 150 CF, W 150 CFi	0513, 0613, 0713, 0813	0001 - 9999	187006	89593	11465	
W 2000	0620	0001 - 0624	80299	89593	11465	
		0625 - 9999	187006			
	1120	0001 - 9999				
W 200, W 200i	1220, 1420	0001 - 9999	2096852	89593	11465	
W 2100	0921	0001 - 0134	80299	89593	11465	
		0135 - 9999	187006			
W 210, W 210i	1320, 1520	0001 - 9999	2096852	89593	11465	
W 2200	0821	0001 - 9999	122268	50654	1585	Felt seal: 10948 Inner ring: 120158
W 220	0522	0001 - 9999	2096852	89593	11465	
W 250, W 250i (FB 2200, 2500, 3100)	0422, 0622	0001 - 9999	2096852	89593	11465	
WR 2000	03WR	0001 - 9999	172728	89593	11465	
WR 200, WR 200i	06WR, 09WR	0001 - 9999	172728	89593	11465	
WR 2400	05WR	0001 - 9999	189408	89593	178530	10948
WR 240, WR 240i	07WR, 10WR	0001 - 9999	2187320	11177	178530	2274334
WR 2500 S	04WR	0001 - 0123	80299	89593	11465	
		0124 - 9999	187006			
WR 250	08WR	0001 - 9999	2187320	11177	178530	2274334
WS 2200, WS 2500	01AS	0001 - 9999	184927	185233	185233	
WS 220, WS 250	02AS	0001 - 9999	184927	185233	185233	

WIRTGEN recyclers			Return roller			
Machine type	Model	Series range	Bearing shaft	Bearing 1 (inside)	Bearing 2 (outside)	Sealing rings
WR 240, WR 240i	07WR, 10WR	0001 - 9999	2184397	11177	178530	2274334
WR 250	08WR	0001 - 9999	2184397	11177	178530	2274334

ORIGINAL WIRTGEN CLUTCHES

The clutches in milling machines must be capable of transmitting their high power output and reliably connecting and disconnecting the power in the milling power train.

WIRTGEN clutches are specially designed for use in the respective power train. They are optimised to handle the stresses generated by the dynamic action of the cutting process.

Disks and gear rim should always be replaced together. The pressure springs require changing within the set.



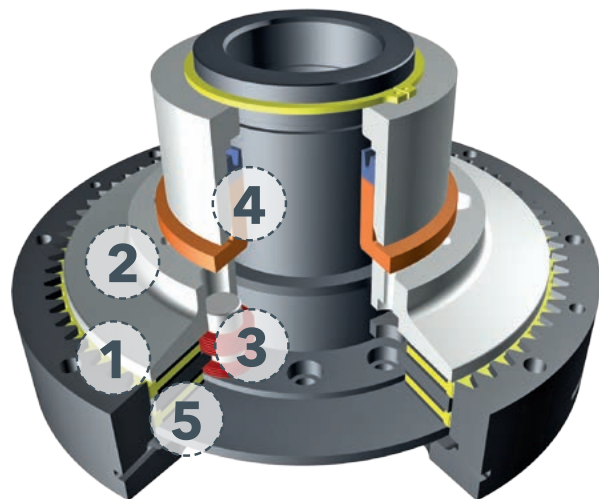
1 *Precisely fitting manufacturing of the disk teeth that permits easy movement in their guides and thereby allows for low-loss operation.*

2 *The sturdy thrust washer for pretensioning is supported by the gear rim made of precision-cast aluminium for a custom-fit power transmission.*

3 *The compression spring is designed for a high number of load cycles and is free of fatigue while providing a safe power transmission to the bolts and clutch hub.*

4 *The grooved ring is made of heat-resistant material. Pairing of cylinders and pistons also ensures backlash-free mobility.*

5 *Outer disks with optimised coating for powerful friction, inner disks for reliable torque transmission.*





Machine type	Model	Series range	Designation	Quantity	Part No.
W 35, W 35 DC	0503, 0403	0001 - 9999	Clutch complete*	1	182230
			Friction disk	1	2061213
			Pressure spring	12	2061223
			Pressure spring	12	2061225
			Rotary duct	1	68180
			Sealing kit	1	195516
W 35 Ri	0703	0001 - 9999	Clutch complete*	1	2463862
		0001 - 9999	Rotary duct	1	68180
W 50	0805, 1005	0001 - 0214	Clutch complete*	1	184685
		0215 - 9999	Clutch complete*	1	2156812
		0001 - 0214	Toothed ring	1	2061230
			Outer disk	2	2061232
			Inner disk	1	2061231
			Pressure spring	8	2061229
		0215 - 9999	Diaphragm with friction lining	1	2216791
			Elastic element	1	2164552
			Connection ring	1	2214499
			Pressure spring	12	2061223
			Pressure spring	12	2061225
		0001 - 9999	Rotary duct	1	68180
		0001 - 0214	Sealing kit	1	195515
0215 - 9999	Sealing kit	1	2216700		
W 50 DC	0905	0001 - 0494	Clutch complete*	1	180703
		0495 - 9999	Clutch complete*	1	2172643
		0001 - 0494	Toothed ring	1	2061230
			Outer disk	3	2061232
			Inner disk	2	2061231
			Pressure spring	8	2061334
		0495 - 9999	Elastic element	1	2164552
			Connection ring	1	2214499
		0001 - 9999	Rotary duct	1	68180
			Sealing kit	1	195515

* Clutch complete: clutch element and housing

ORIGINAL WIRTGEN CLUTCHES

Machine type	Model	Series range	Designation	Quantity	Part No.		
W 50 R, W 60 R, W 50 Ri, W 60 Ri	1405, 1505	0001 - 9999	Clutch complete*	1	2287416		
			Rotary duct	1	68180		
			Elastic element	1	2287410		
W 600 DC, W 1000 L	0705	0001 - 9999	Clutch complete*	1	70196		
			Clutch element**	1	76650		
			Toothed ring	1	1568		
			Outer disk	2	13882		
			Pressure spring	6	16589		
			Rotary duct	1	68180		
			Sealing kit	1	76651		
W 60, W 60i, W 100, W 100i	0910, 1210	0001 - 9999	Clutch complete*	1	2063641		
			Toothed ring	1	2061284		
			Outer disk	2	13882		
			Pressure spring	6	16589		
			Rotary duct	1	68180		
			Sealing kit	1	185020		
W 1000 F, W 1200 F, W 1300 F	0710	0001 - 0149	Clutch complete*	1	70196		
		0150 - 9999		1	138200		
		0001 - 9999	Toothed ring	1	1568		
			Outer disk	2	13882		
			Pressure spring	6	16589		
			Rotary duct	1	68180		
		0001 - 0149	Sealing kit	1	76651		
		0150 - 9999		1	185020		
		W 100 F, W 120 F, W 130 F, W 100 Fi, W 120 Fi, W 130 Fi, W 100 CF, W 120 CF, W 130 CF, W 100 CFi, W 120 CFi, W 130 CFi	0810, 1310, 1710, 1810	0001 - 9999	Clutch complete*	1	190202
					Clutch element**	1	2061289
Toothed ring	1				2061284		
Outer disk	2				13882		
Pressure spring	6				16589		
Rotary duct	1				66852		
Sealing kit	1				2061297		
W 100 R, W 100 Ri	1510, 1610	0001 - 9999	Clutch complete*	1	2064720		
			Rotary duct	1	68180		
			Elastic element	1	2290723		
W 1500	0820	0113 - 9999	Clutch complete*	1	159244		
			Toothed ring	1	133789		
			Outer disk	2	82243		
		Pressure spring	9	16589			
		0001 - 9999	Rotary duct	1	66852		
0113 - 9999	Sealing kit	1	185024				

* Clutch complete: clutch element and housing · ** Clutch element: toothed ring, outer disk, pressure spring



Machine type	Model	Series range	Designation	Quantity	Part No.
W 150, W 150i	0513, 0613	0001 - 9999	Clutch complete*	1	190202
			Clutch element**	1	2061289
			Toothed ring	1	2061284
			Outer disk	2	13882
			Pressure spring	6	16589
			Rotary duct	1	66852
			Sealing kit	1	2061297
W 1900	0820, 0920, 1020	0129 - 9999	Clutch complete*	1	159245
		0001 - 9999	Clutch element**	1	135110
			Toothed ring	1	135109
			Outer disk	3	2068961
			Pressure spring	6	135107
			Rotary duct	1	66852
		0129 - 9999	Sealing kit	1	134277
W 200, W 200i	1220, 1420	0001 - 9999	Clutch complete*	1	2096348
			Clutch element**	1	2139393
			Toothed ring	1	133789
			Outer disk	2	82243
			Pressure spring	6	16589
			Rotary duct	1	2131394
			Sealing kit	1	2139503
W 200 H, W 200 Hi	1620, 1720	0001 - 9999	Clutch complete*	1	156082
			Clutch element	1	2247698
W 2000, W 2100	0620, 1120, 0921	0001 - 9999	Clutch complete*	1	113902
			Clutch element**	1	156163
			Toothed ring	1	133789
			Outer disk	2	82243
			Pressure spring	9	16589
			Rotary duct	1	66852
			Sealing kit	1	155377
W 210, W 210i (two identical clutches)	1320, 1520	0001 - 9999	Clutch complete*	1	2096349
			Clutch element**	1	2139394
			Toothed ring	1	1568
			Outer disk	2	13882
			Pressure spring	6	16589
			Rotary duct	1	2131394
			Sealing kit	1	2139501

* Clutch complete: clutch element and housing · ** Clutch element: toothed ring, outer disk, pressure spring

ORIGINAL WIRTGEN CLUTCHES

Machine type	Model	Series range	Designation	Quantity	Part No.
W 2200 DC / CR	0821	0001 - 9999	Clutch complete*	1	116937
			Clutch element**	1	156164
			Toothed ring	1	155368
			Outer disk	2	2449388
			Pressure spring	1 set	155370
			Rotary duct	1	66852
			Sealing kit	1	155378
2200 SM	0821	0233 - 9999	Clutch complete*	1	192509
			Clutch element**	1	156328
			Toothed ring	1	156370
			Outer disk	3	156371
		Pressure spring	1 set	156372	
		0001 - 9999	Rotary duct	1	66852
			Sealing kit	1	155378
W 220	0522	0001 - 9999	Clutch complete*	1	2174377
			Clutch element**	1	2216807
			Diaphragms with friction lining	1	2216816
			Pressure spring	40	2216818
			Pressure spring	36	2216819
			Rotary duct	1	2131394
			Sealing kit	1	2216821
W 250, W 250i (two clutches)	0422, 0622	0001 - 9999	Clutch one complete*	1	2096348
			Clutch element**	1	2139393
			Toothed ring	1	133789
			Outer disk	2	82243
			Pressure spring	6	16589
			Sealing kit	1	2139503
			Clutch two complete*	1	2096349
			Clutch element**	1	2139394
			Toothed ring	1	1568
			Outer disk	2	13882
			Pressure spring	6	16589
			Sealing kit	1	2139501
			Rotary duct	2	2131394
WR 2000 XL, WR 200 XLi	03WR, 09WR	0001 - 9999	Clutch complete*	1	2070525
			Clutch element**	1	185021
			Toothed ring	1	59946
			Outer disk	3	2356049
			Pressure spring	6	53147
			Rotary duct	1	66852
			Sealing kit	1	185022

* Clutch complete: clutch element and housing · ** Clutch element: toothed ring, outer disk, pressure spring



Machine type	Model	Series range	Designation	Quantity	Part No.
WR 2000, WR 200, WR 200i	03WR, 06WR, 09WR	0001 - 9999	Clutch complete*	1	159871
			Clutch element**	1	185021
			Toothed ring	1	59946
			Outer disk	3	2356049
			Pressure spring	6	53147
			Rotary duct	1	66852
			Sealing kit	1	185022
WR 2400	05WR	0001 - 0043	Clutch complete*	1	113902
		0044 - 0176		1	2068894
		0177 - 9999		1	2133716
		0001 - 9999	Clutch element**	1	156163
			Toothed ring	1	133789
			Outer disk	2	82243
			Pressure spring	9	16589
			Rotary duct	1	66852
			Sealing kit	1	155377
			WR 240, WR 240i	07WR, 10WR	0001 - 9999
Clutch element**	1	156163			
Toothed ring	1	133789			
Outer disk	2	2445315			
Pressure spring	9	16589			
Rotary duct	1	66852			
Sealing kit	1	185023			
WR 2500 S	04WR	0001 - 9999	Clutch complete*	1	155280
			Clutch element**	1	185026
			Toothed ring	1	182696
			Outer disk	3	2445315
			Pressure spring	1 set	65602
			Rotary duct	1	66852
			Sealing kit	1	185023
WR 250	08WR	0001 - 9999	Clutch complete*	1	2177239
			Outer disk	3	2445315
			Pressure spring	1 set	65602
			Rotary duct	1	66852
			Sealing kit	1	185023
			Clutch element**	1	2445192
			Toothed ring	1	2445134

* Clutch complete: clutch element and housing · ** Clutch element: toothed ring, outer disk, pressure spring

ORIGINAL WIRTGEN LEVELLING

THE JOB OF LEVELLING

The levelling has the task to precisely regulate the cutting depth or milling slope from a reference automatically and as precisely as possible. On the one hand, the aim is to level out or copy an existing surface and, on the other hand, to selectively remove individual layers and to create defined surface profiles like transverse slopes, for example.

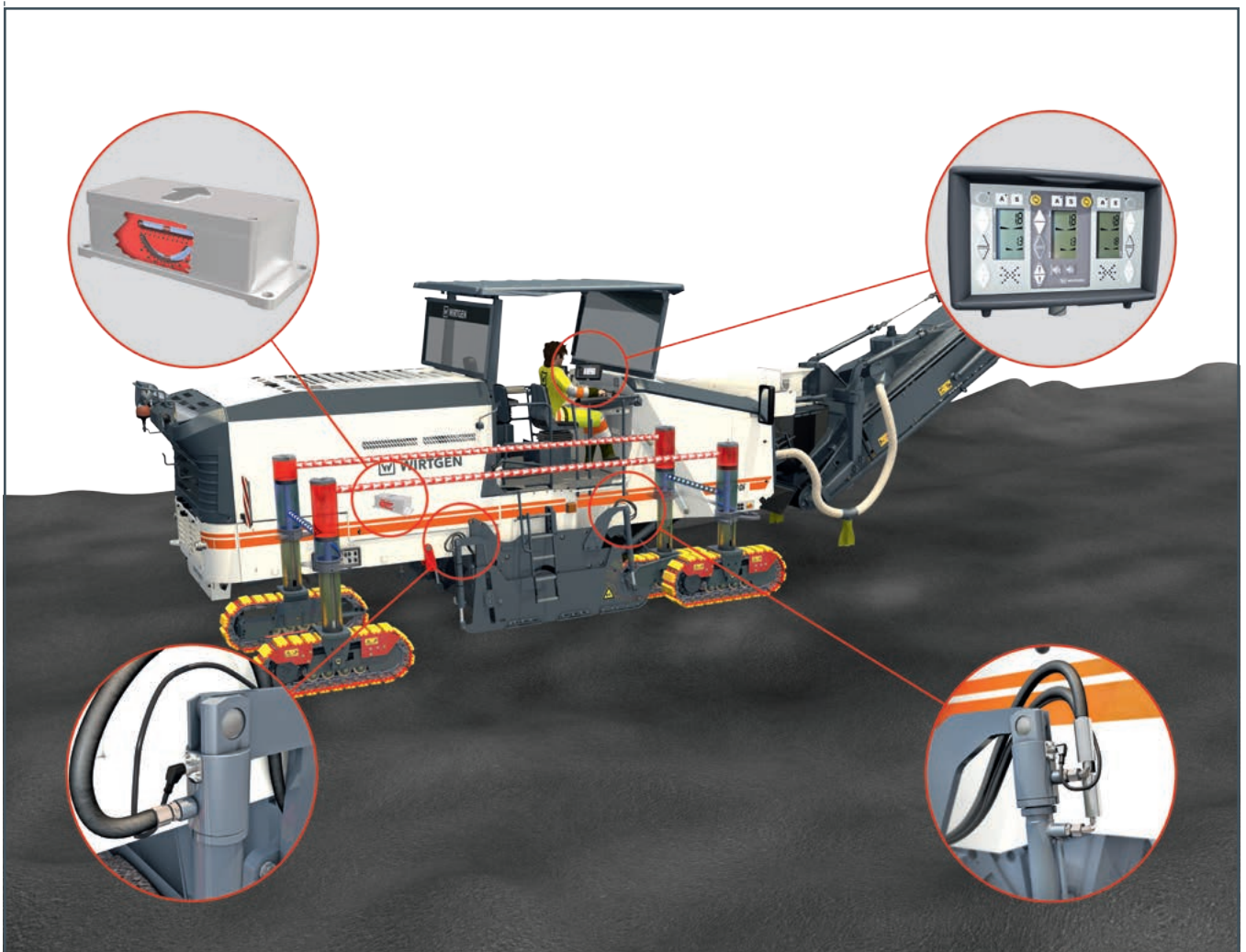
MANUAL GRADE CONTROL

With small milling machines, you set the height manually by lowering the lifting columns of the rear crawler unit. If the milling depth is different from the target value, then the height is adjusted manually by the operator via the rear lifting columns. The current position of the lifting column is displayed via the mechanical milling depth indicators.

AUTOMATED LEVELLING IN THE CONTROL LOOP

In the process of automated control, the milling depth or is automatically and precisely regulated dependent on a reference. In this connection, the control loop in question is a closed one that makes it possible to use a wide range of different sensors. The sensors detect deviations in the target milling depth, the levelling system calculates it and automatically initiates an appropriate correction of the machine.

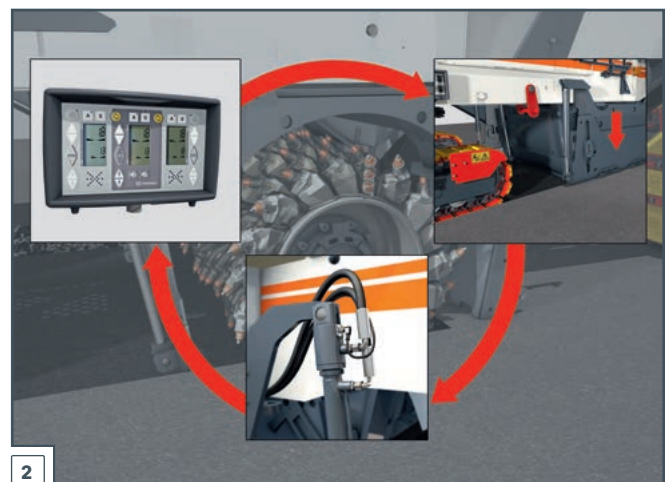
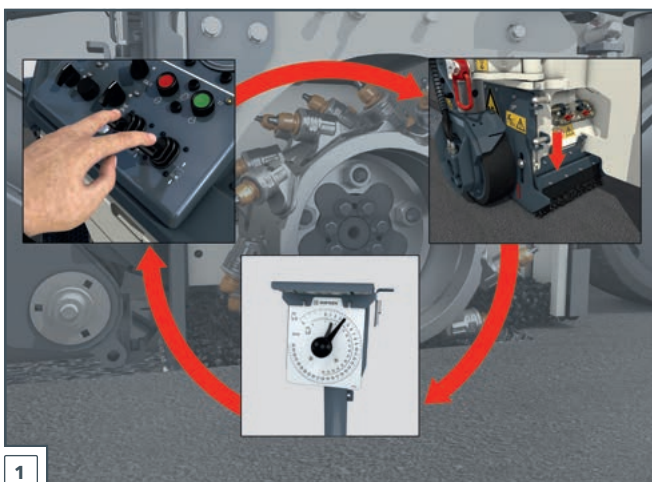
> To provide optimum machine stability, the hydraulically coupled crawler units compensate the differences in height that occur.





DLS1 (until 2007)	LEVEL PRO (from 2007)	LEVEL PRO 2 (from 2010)	LEVEL PRO PLUS (from 2014)
<ul style="list-style-type: none"> > The milling depth regulator is a control panel and a control unit in one. > 1 component that is used directly on the operator's stand and, in addition, as an external handset on each side of the machine to regulate the milling depth on the right and on the left. One regulator is needed per control loop (machine side). > Interface for analog or CAN measuring data for the side plate and slope sensors. 	<ul style="list-style-type: none"> > Specially developed for WIRTGEN milling machines > Modular system > Simultaneous, automatic milling depth control possible from the operator's stand on both sides of the machine > User-friendly control panels for use on the operator's stand or on the sides of the machine > User-friendly graphic displays and function keys > A permanently installed digital controller for central control of milling depth regulation and sensor evaluation > Possible to load analog and CAN sensors at the same time 	<ul style="list-style-type: none"> > Further development of LEVEL PRO > Specially developed for WIRTGEN large milling machines > Functions completely integrated into the control system of the machine > Integration of four-fold full-floating > Integration of the PTS system > Introduction of analog cylinder sensors > Multiplex preparation in the controller as standard 	<ul style="list-style-type: none"> > User-friendly control panel with coloured high resolution display comprising self-explanatory symbols and unambiguous function keys. > Compact design for easy handling and improved machine overview > Close interaction with the machine's control system enables a high level of automation

- 1 > *If the displayed milling depths deviate from the target value, you manually correct the height of the rear crawler units.*
- 2 > *Displacement sensors in the hydraulic cylinders record the current milling depth, the levelling system then analyses the data to correct the height accordingly.*



LEVELLING CONTROL AND COMPONENTS

Designation	Levelling system					Part No.
	Milling depth indicator	DLS1	LEVEL PRO	LEVEL PRO 2	LEVEL PRO PLUS	
Control panel LEVEL PRO			x	x		2478077
Control panel LEVEL PRO PLUS					x	2525938
Milling depth indicator	x					178947
Milling depth regulator DLS1		x				2075279
Milling depth regulator LEVEL PRO			x			2196463
Milling depth regulator LEVEL PRO 2				x		2518114
Transducing sensor digital (PWM)		x	x	x		76309
Transducing sensor digital (CAN)					x	2524225
Wire-rope exchange set II		x	x	x		112024
Wire-rope exchange set III		x	x	x		165399
Wire-rope exchange set IV		x	x	x		2200901
Wire-rope sensor IV (PWM)		x	x	x		2137341
Wire-rope sensor (analogue 0 - 10 volts)	x					181915
Wire-rope sensor (analogue 4 - 20 mA)				x	x	2221927
External Multiplex box 3-way		x	x			2102694
Slope sensor fluid (PWM/CAN)		x	x	x		157449
Slope sensor digital (CAN)		x	x	x	x	2207880
Ultrasonic sensor (PWM)		x	x	x		58614
Ultrasonic sensor (CAN)					x	2315361
Sonic-Ski sensor (PWM)		x	x	x		101244
Sonic-Ski sensor (CAN)					x	2195896
Laser sensor LS3000 (PWM/CAN)		x	x	x	x	2147807
Laser sensor LS6000 (PWM/CAN)		x	x	x	x	2174727



Designation	Levelling system					Part No.
	Milling depth indicator	DLS1	LEVEL PRO	LEVEL PRO 2	LEVEL PRO PLUS	
Cylinder sensor left: W 200*, W 210*, W 220, W 250*				x		2103475
Cylinder sensor right: W 200*, W 210*, W 220, W 250*				x		2105212
Cylinder sensor left: W 50 R*, W 60 R*					x	2297811
Cylinder sensor right: W 50 R*, W 60 R*					x	2297811
Cylinder sensor left: W 100 CF*, W 120 CF*, W 130 CF*					x	2353291
Cylinder sensor right: W 100 CF*, W 120 CF*, W 130 CF*					x	2353292
Cylinder sensor left: W 100 R*, W 120 R*					x	2353291
Cylinder sensor right: W 100 R*, W 120 R*					x	2353291
Cylinder sensor left: W 150 CF*					x	2103475
Cylinder sensor right: W 150 CF*					x	2103475
Connection box (3D alarm box LEVEL PRO)		x	x	x		2172896

> High productivity and maximum cost-efficiency put the compact WIRTGEN milling machine W 150 CFi at the top of its performance class.



* also for the "i" series listed

ORIGINAL WIRTGEN

SENSORS AND SCANNING COMPONENTS

HYDRAULIC CYLINDER SENSOR

With the latest large milling machines, the cable and ultrasonic sensors on the edge protectors that have been used up to now are omitted, since both lifting cylinders on the edge protector contain displacement sensors.

These sensors work on a non-contact basis and are protected mechanically by the hydraulic cylinder housing. This robust measuring process reliably copies the surface.

ULTRASONIC SENSOR

The ultrasonic sensor that works on a non-contact basis can sample the reference surface next to and in front of the milling drum.

It transmits sound waves at high frequency that the reference surface reflects and the sensor collects again. The time between transmitting and receiving the signal is the measure of the distance to the surface.

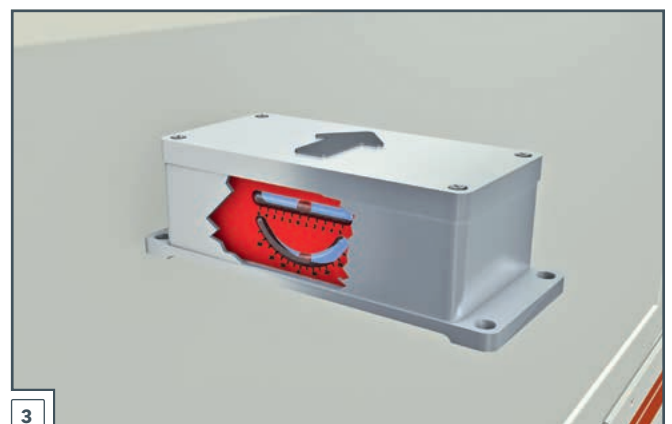
With this measuring procedure, you must take into account the dependence of the sound speed on the ambient temperature.

SLOPE SENSOR

The slope sensor that is fixed to the machine is used to generate surfaces for which you cannot use relative references.

The slope sensor works with an absolute wear-free measuring procedure. This makes it possible to generate surfaces in all the predefined transverse slopes.

- 1 > Two hydraulic cylinders with displacement sensors measure the milling depth on both edge protector shields on a non-contact basis.
- 2 > Ultrasonic sensors that work on a non-contact basis can sample either the height of the edge protector or a reference surface.
- 3 > Using the electronic slope sensor allows you to easily mill specified inclinations.



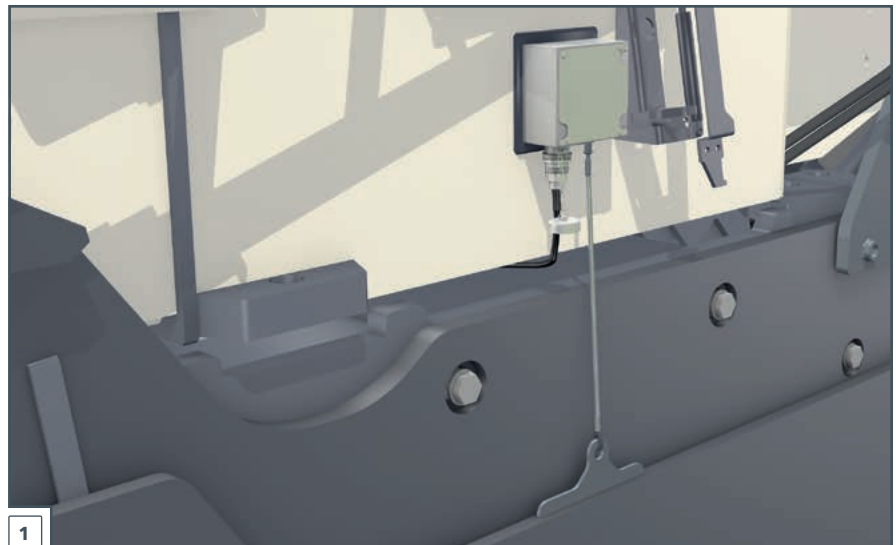


WIRE-ROPE SENSOR

The wire-rope sensor is a height sensor that is hooked onto the edge protector.

While the edge protector mechanically scans the reference surface, the sensor determines possible irregularities or differences in height. This direct measurement copies the surface.

Wire-rope sensors are robust and guarantee reliable scanning even in difficult weather conditions.



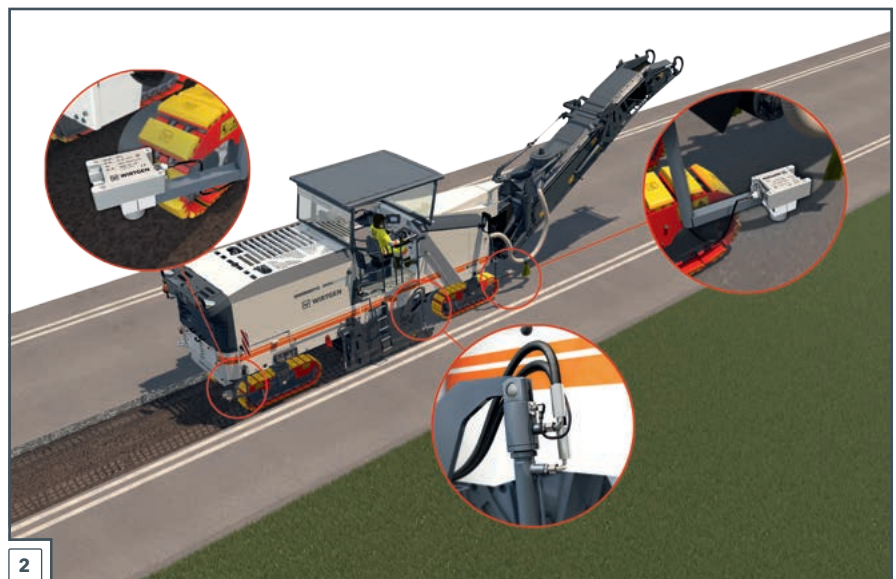
1

MULTIPLEX SYSTEMS

Multiplex systems are used to measure extended, elongated irregularities and combine several sensors on one of the two machine sides (e.g. wire-rope, ultrasonic, or cylinder sensors), scanning in front of the milling drum.

The system calculates the current milling depth very precisely from the average value of the connected sensors; this makes it possible to compensate longitudinal waves very well.

The system is particularly suitable for use in the case of fine milling work.



2

- 1 > Robust wire-rope sensors that are attached to the edge protector are used for mechanical scanning of the surface.
- 2 > With extended uneven road surfaces, it is possible to calculate the milling depth in a very precise way by averaging several connected sensors.

ORIGINAL WIRTGEN

SENSORS AND SCANNING COMPONENTS

SONIC SKI SENSOR

The Sonic Ski contains five ultrasonic sensors that you can use both to carry out non-contact scanning of a wire (sensor aligned at right angle to the stringline) and to scan a surface (sensor aligned in the direction of travel or parallel to the edge protector).

When scanning a surface, the system generates the measured value by averaging the individual ultrasonic measurements; irregularities in the surface to be milled can be quickly levelled.

LASER SENSOR

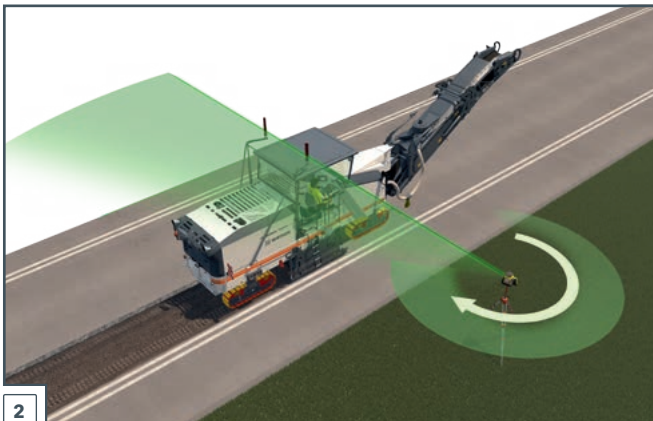
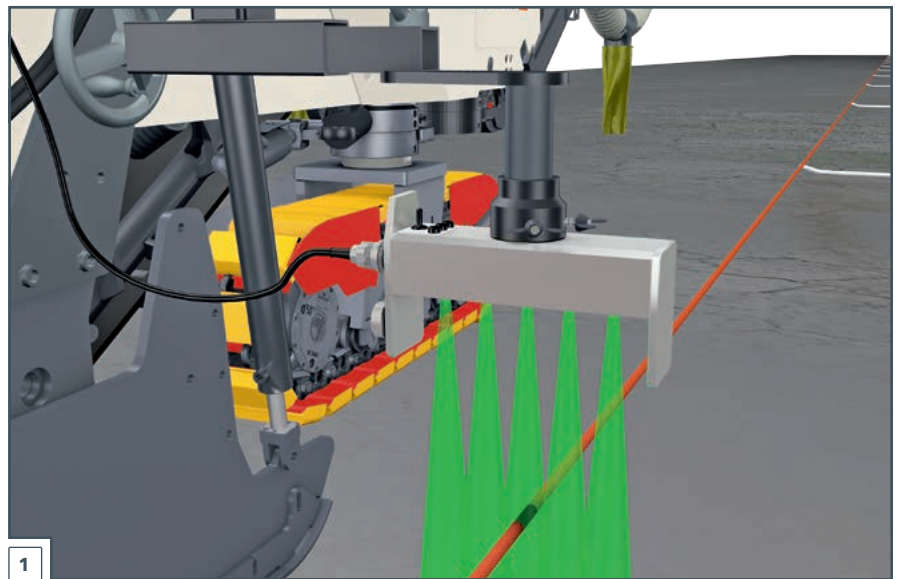
Laser sensors on the machine receive the signals of a rotating laser beam that spreads an even reference surface in the space by rotating.

The wear-free, ultra-precise height measurement is suitable in particular for work on tunnels, airports, and sports and indoor facilities.

3-D SENSOR

The current machine position is collected via a total station or GPS systems. This data is matched with a previously generated digital model of the terrain of the planned milling area. During the milling process, the system carries out continuous matching between the machine's target position and its actual one by means of the 3-D computer. The LEVEL PRO system regulates the corresponding irregularities.

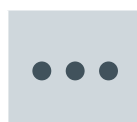
- 1 > Scanning on the stringline via Sonic Ski sensor: The smallest ultrasonic measurement value is evaluated.
- 2 > Laser sensors work relative to the flat surface of the laser transmitter.
- 3 > Focusing a cold milling machine using a total station and a prism mounted on the machine to accurately detect the actual machine position and depth of cut.





RECOMMENDATIONS FOR APPLICATION

Possible applications	Edge protector sensors (wire-ropes or hydraulic cylinder sensors)	Multiplex systems	Scanning in front of the milling drum	Slope sensor	Ultrasonic sensor	Sonic Ski sensor	Laser sensor	3-D sensor
Removing a surface	● ● ●	●	● ●	●	●	●		
Removing surface and binder courses	● ● ●	●	● ●	●	●	●		
Complete removal of carriageways	● ● ●	●	● ●	●	●	●		
Corrective milling work placing major demands on the evenness of the surface	● ●	● ● ●	●	●	●	●		
Removing asphalt with a specified inclination	● ●	●	●	● ● ●	●	●		
Concrete milling	● ● ●	●	● ●	●	●	●		
Removing surfaces stipulated by stringline	●	●	●	● ●	●	● ● ●		
Making exactly even surfaces (renovation of the floors of indoor facilities, tunnelling, etc.)	●	●	●	●	●	●	● ● ●	
Establishing new surface contours according to digital models of the terrain	● ●			●				● ● ●



Main sensor



Recommended second sensor



Alternative second sensor



Not suitable

For the applications listed above, at least the main sensor should always be used. Each of the main sensors shown can also be used on both height controllers or be combined with the recommended secondary sensors in each case.

For examples of deployment, please refer to the Cold Milling Manual.

ORIGINAL WIRTGEN LEVEL PRO *PLUS*

LEVEL PRO *PLUS* is an automatic levelling system that relieves the machine operator of some of the workload.

The permanently-installed digital control unit is the central station of the LEVEL PRO *PLUS* system.

The preset target milling depth is precisely controlled, for example for small milling machines of up to 210 mm, by means of rugged displacement sensors in the side plate hydraulic rams and displayed on the high-resolution LEVEL PRO *PLUS* colour display.



1 The **colour operating display** concisely shows the milling depth and all important operating statuses.

2 An **intuitive operating concept** features a display split into three columns for regulating the right and left sides. The centre display enables preparation for the right or left settings.

3 The milling depth can be measured with the utmost precision by means of **displacement sensors** in the side plate hydraulic rams.

4 The **compact structural design** optimally enhances the overview of the machine.

5 **Various height sensors** and a slope sensor can be simultaneously connected to the LEVEL PRO *PLUS* system.

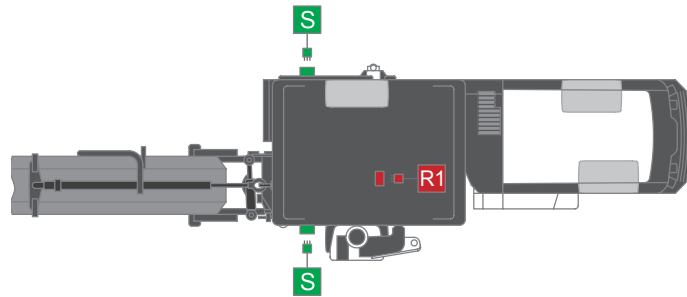




CONNECTING CABLES FOR LEVELLING COMPONENTS

> **Illustration for models:**

- 0603
- 0703
- 1405
- 1505
- 1710
- 1810
- 1510
- 1610

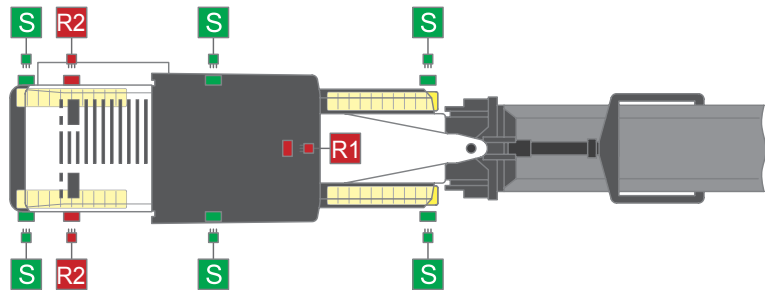


> **Overview of the pre-installed sockets:**

- R1 = Direct connecting cable
- S = Connection for additional CAN sensors, e.g. ultrasonic sensor, laser sensor etc.

> **Illustration for models:**

- 0713
- 1813



> **Overview of the pre-installed sockets:**

- R1 = Direct connecting cable
- R2 = Connection for control panel **LEVEL PRO PLUS**
- S = Connection for additional CAN sensors, e.g. ultrasonic sensor, laser sensor etc.

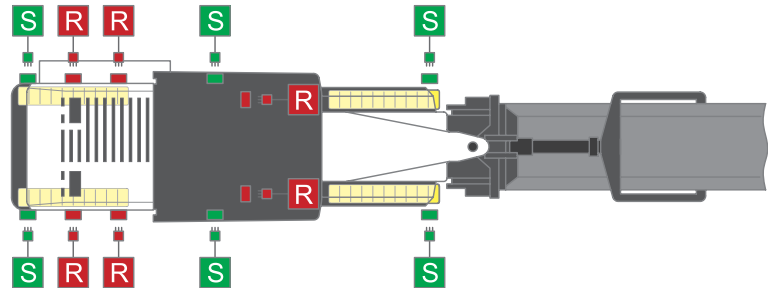
Designation	For socket outlet	Length spiral/stretched (mm)	Part No.
Power cable for control panel LEVEL PRO PLUS (6-polar)	R1	- / 2500	2372625
Power cable for control panel LEVEL PRO PLUS (6-polar)	R2	1000 / 3000	2389991
Sensor cable CAN (7-polar)	S	1000 / 3000	2096045
Sensor cable CAN (7-polar)	S	1700 / 7000	2350737

ORIGINAL WIRTGEN

CONNECTING CABLES FOR LEVELLING COMPONENTS

> **Illustration for models:**

0620
1120
1020 from ser. no.: 0088 - 9999
0820 from ser. no.: 0332 - 9999
0920 from ser. no.: 0252 - 9999
0921



> **Overview of the pre-installed sockets:**

R = Sockets for regulator DLS1 and control panel LEVEL PRO

S = Sockets for sensors

Power and sensor cables are available in various lengths so that the control panel, DLS1 regulators and sensors can be mounted on the machine in a variety of positions, thus significantly increasing flexibility in everyday work. Their spiral design makes them compact and yet sufficiently long - without causing interference.

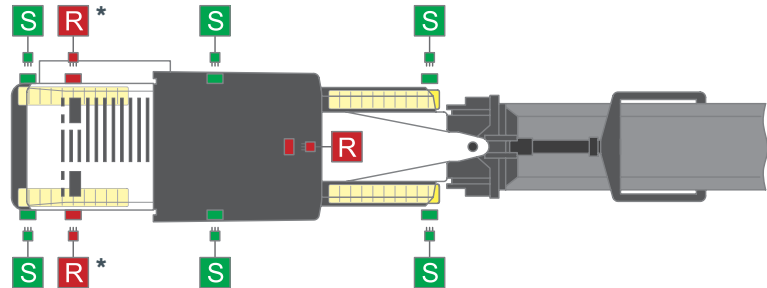
The power cables connect the control panels and DLS1 regulators with the machine. They ensure a secure supply of power and reliably transmit control data for the CAN bus via the installed wiring.

Designation	For socket outlet	Length spiral/stretched (mm)	Part No.
Power cable for control panel LEVEL PRO (10-/7-polar)	R	1000 / 3000	192539
Power cable, plug one-sided angular (10-polar, grey, with CAN)	R	500 / 1750	117833
Power cable (10-polar, yellow, without CAN)	R	- / 1500	102136
Sensor cable (7-polar)	S	- / 700	98676
Sensor cable (7-polar)	S	900 / 3100	74459
Sensor cable (7-polar)	S	- / 1500	102137
Sensor cable (7-polar)	S	1700 / 6000	58615
Adapter box for sensor cable (for extension)	S	-	2116372
Extension cable for sensors (7-polar)	S	- / 1600	2102128
Sensor cable, plug and bush single sided angular (7-polar)	S	900 / 3100	117835



> **Illustration for models:**

0513
1220
1320
1420
1520
1620
1720
0422
0522
0622



> **Overview of the pre-installed sockets:**

R = Sockets for control panel LEVEL PRO

S = Sockets for sensors

* On W 150, W 150i (0513, 0613) only these socket outlets are present.

The sensor cables connect the individual sensors to the milling depth regulators and transmit the measurement data. The cables and plugs are of highly durable design in order to ensure reliable function despite the rough conditions of constant use on a construction site.

Designation	For socket outlet	Length spiral/stretched (mm)	Part No.
Power cable for control panel LEVEL PRO (7-polar)	R	1000 / 3000	2096045
Sensor cable (7-polar)	S	- / 700	98676
Sensor cable (7-polar)	S	900 / 3100	74459
Sensor cable (7-polar)	S	- / 1500	102137
Sensor cable (7-polar)	S	1700 / 6000	58615
Adapter box for sensor cable (for extension)	S	-	2116372
Extension cable for sensors (7-polar)	S	- / 1600	2102128
Sensor cable, plug and bush single sided angular (7-polar)	S	900 / 3100	117835
Sensor cable (CAN, 7-polar)	R	1700 / 7000	2350737

ORIGINAL WIRTGEN

RETROFIT KITS FOR HEIGHT REGULATION

Machine type	Model	Ultrasonic sensor	Sonic Ski	Ground scanning in front of the drum		Scanning on the side plate
				one side	both sides	
W 35	0503					On req.
W 35 DC	0403					On req.
W 500	0605	On req.	On req.			80940
W 50, W 50 DC	1005, 0905	On req.	On req.			176424
W 50 R, W 60 R, W 50 Ri, W 60 Ri	1405, 1505	On req.	On req.			2288352
W 600 DC, W 1000 L	0705	On req.	On req.			102004
W 60, W 100, W 60i, W 100i	0910, 1210	On req.	On req.			2053793
W 1000 F, W 1200 F, W 1300 F	0710	On req.	On req.			90017
W 100 F, W 120 F, W 130 F, W 100 Fi, W 120 Fi, W 130 Fi	0810, 1310	On req.	On req.			190859
W 100 CF, W 120 CF, W 130 CF, W 100 CFi, W 120 CFi, W 130 CFi	1710, 1810	On req.	2352878			Standard
W 1500, W 1900	0820, 0920, 1020	143459	143462	187202		143344
W 150, W 150i	0513, 0613	On req.	On req.	2094139		2070573
W 2000	0620, 1120	143459	143462	150177		119692
W 200, W 200i	1220, 1420	On req.	2175939	2112702	2112703	Standard
W 200 H, W 200 Hi	1620, 1720	On req.	On req.	2286567 (Ultrasonic sensor) 2303478 (Sonic ski)	2283608 (Ultrasonic sensor) 2301143 (Sonic ski)	Standard
W 2100	0921	143459	143462	150177		119692
W 210, W 210i	1320, 1520	On req.	2175939	2112702	2112703	Standard
W 2200	0821	143459	143462	150177		124722
W 220	0522	On req.	2175939	2125960	2125961	Standard
W 250, W 250i	0422, 0622	On req.	2175939	2125960	2125961	Standard



RETROFIT KITS FOR HEIGHT AND SLOPE REGULATION

Machine type	Model	Series range	Multiplex 3-way		Slope sensor
			one side	both sides	
W 35	0503	0001 - 9999			On req.
W 35 DC	0403	0001 - 9999			On req.
W 500	0605	0001 - 9999			On req.
W 50, W 50 DC	1005, 0905	0001 - 9999			176425
W 50 R, W 60 R, W 50 Ri, W 60 Ri	1405, 1505	0001 - 9999			2288392
W 600 DC, W 1000 L	0705	0001 - 9999			102006
W 60, W 100, W 60i, W 100i	0910, 1210	0001 - 9999			2053826
W 1000 F, W 1200 F, W 1300 F	0710	0001 - 9999	On req.	On req.	98213
W 100 F, W 120 F, W 130 F, W 100 Fi, W 120 Fi, W 130 Fi	0810, 1310	0001 - 9999	On req.	On req.	190858
W 100 CF, W 120 CF, W 130 CF, W 100 CFi, W 120 CFi, W 130 CFi	1710, 1810	0001 - 9999			2352880
W 1500, W 1900	0820	0001 - 0244 0245 - 9999	119770 178494	On req. 195482	150841
W 1900	0920, 1020	0001 - 0209 0210 - 9999	119770 2095592	On req. 195482	150841
W 150, W 150i	0513, 0613	0001 - 9999	2124541	2124543	2090856
W 2000	0620, 1120	0001 - 0604 0605 - 9999	119770 2095592	On req. 195482	On req.
W 200, W 200i	1220, 1420	0001 - 9999	2130277	2130364	2105693
W 200 H, W 200 Hi	1620, 1720	0001 - 9999	2130277	2130364	2105693
W 2100	0921	0001 - 0129 0130 - 9999	119770 2095592	On req. 195482	On req.
W 210, W 210i	1320, 1520	0001 - 9999	2130277	2130364	2105693
W 2200	0821	0001 - 0199 0200 - 9999	119770 2095592	On req. 195482	On req.
W 220	0522	0001 - 9999	2130277	2130364	2105693
W 250, W 250i	0422, 0622	0001 - 9999	2130277	2130364	2105693
WR 2000	03WR	0001 - 9999			173133
WR 200, WR 200i	06WR, 09WR	0001 - 9999			2417051
WR 2400	05WR	0001 - 9999			173133
WR 240, WR 240i	07WR, 10WR	0001 - 9999			2417051
WR 2500 S	04WR	0001 - 9999			154765
WR 250	08WR	0001 - 9999			2417051

Recommendable

Conditionally recommendable

On req. = On request

LEVEL PRO RETROFIT KITS



To be able to retrofit older series with the innovative levelling system LEVEL PRO, WIRTGEN offers retrofit kits with which the conversion to the new system can be made quickly and straightforwardly.

WIRTGEN offers the following retrofit kits:

- > Retrofit kit, internal
- > Retrofit kit, external
- > Retrofit kit, control panel

Please note the following information and the footnotes in the table of order data overleaf so that your retrofit kit can be installed without difficulty.

LEVEL PRO RETROFIT KIT, INTERNAL

The internal retrofit kit supplies the full scope of LEVEL PRO functions for selected machine models (see table of order data). With this kit, the controller is installed directly inside the existing control cabinet.

The internal retrofit kit comprises the following parts:

- > 1 control panel (incl. holder and cover)
- > 1 controller
- > 1 connecting cable
- > Installation instructions and material

LEVEL PRO RETROFIT KIT, EXTERNAL

The external retrofit kit contains the complete scope of LEVEL PRO functions, with few exceptions (see table of order data). The controller is installed externally under the storage box with a terminal box supplied with the kit (see photo above).*

The external retrofit kit comprises the following parts:

- > 1 control panel (incl. holder and cover)
- > 1 controller
- > 1 terminal box for the controller
- > 1 connecting cable
- > Installation instructions and material

RETROFIT KIT, CONTROL PANEL

Only the LEVEL PRO functions which are not dependent on the controller can be used when retrofitting an additional control panel with continued use of the DLS controller. The full functional scope is available if the machine is already equipped with a LEVEL PRO controller.

The control panel retrofit kit comprises the following parts:

- > 1 control panel (incl. holder and cover)
- > 1 connecting cable



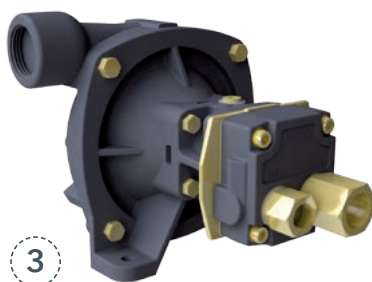
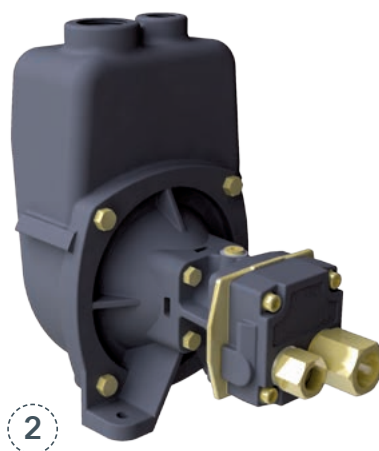
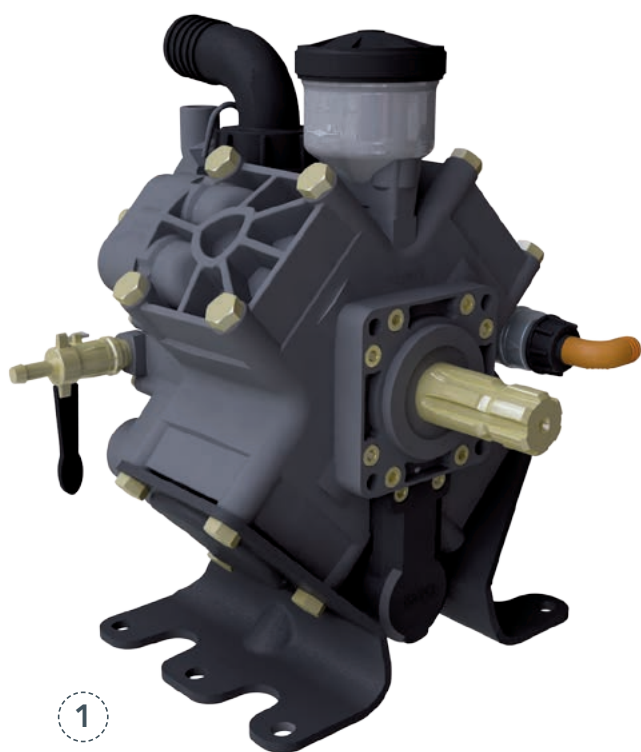
Machine type	Model	Series range	Retrofit kit control panel	Retrofit kit LEVEL PRO external/internal	Part No.
W 1000 F, W 1200 F, W 1300 F	0710	0001 - 0814		Retrofit kit external **	on Request
		0815 - 9999		Retrofit kit external **	
W 1500, W 1900	0820	0001 - 0211	2093512	Retrofit kit external **	2093518
		0212 - 0331		Retrofit kit external **	2093518
		0332 - 0456		Retrofit kit external	2093518
		0457 - 0524		Retrofit kit internal	2093509
W 2000	0620	0001 - 0128	2093512	Retrofit kit external *	2106267
		0129 - 0519		Retrofit kit external **, **	2093514
		0520 - 0865		Retrofit kit external **	2093514
		0866 - 1072		Retrofit kit external	2093514
		1073 - 1134		Retrofit kit internal	2093509
W 2100	0921	0001 - 0106	2093512	Retrofit kit external **, **	2093514
		0107 - 0259		Retrofit kit external **	2093514
		0260 - 0274		Retrofit kit internal	2093509
W 2200	0821	0001 - 0159	2093512	Retrofit kit external **, **	2093514
		0160 - 0199		Retrofit kit external **	2093514
		0200 - 0362		Retrofit kit external	2093514
		0363 - 0399		Retrofit kit internal	2093509

* Slope sensor, liquid 157449 may have to be retrofitted · ** Kit for CAN slope sensor 2094293 required additionally
There may be functional limitations on the machine, in case of questions contact your local WIRTGEN GROUP representative.

ORIGINAL WIRTGEN WATER PUMPS

The water installation is a complete system which consists of pump, filter, supply lines and nozzles. WIRTGEN adjusts the sprinkling to the requirements the best way.

On the conveyor belts, the water system effectively binds the dust. In the drum housing the sprayed-in water improves the rotation behaviour of the picks during the milling process. An optimal set water system therefore minimises the wear and improves productivity.



- 1 > Piston-diaphragm pump**
Part No.: 194055
Part No.: 2136772
- 2 > Centrifugal pump (self-priming)**
Part No.: 2163683
- 3 > Centrifugal pump**
Part No.: 2163648
Part No.: 2163803



Machine type	Model	Series range	Water pump		Sealing and repair kits	
			Designation	Part No.	Designation	Part No.
W 35, W 35 DC	0503, 0403	0001 - 9999	with electric drive	2096380	Sealing kit for pump	48445
W 500	0605	0005 - 0281	with electric drive	43912	Sealing kit for pump	48445
		0282 - 9999	with electric drive	2096380		
W 50	0805, 1005	0001 - 9999	with electric drive	2096380	Sealing kit for pump	48445
W 50 DC, W 50 DCi	0905, 1205	0001 - 9999	with electric drive	2073216	Sealing kit for pump	15617
W 50 R, W 60 R, W 50 Ri, W 60 Ri	1405, 1505	0001 - 9999	with electric drive	2292394	Diaphragm for water pump	2418322
					Valve housing	2418320
W 600 DC, W 1000 L	0705	0001 - 0034	with electric drive	2073216	Sealing kit for pump	15617
		0035 - 0515	with electric drive	112984		
		0516 - 9999	with electric drive	2073216		
W 60, W 100, W 60i, W 100i	0910, 1210	0001 - 9999	with electric drive	2073216	Sealing kit for pump	15617
W 1000 F, W 1200 F, W 1300 F	0710	0001 - 9999	with hydraulic drive	2163803	Sealing kit for pump	109757
					Repair kit for motor	2163687
W 100 F, W 120 F, W 130 F, W 100 Fi, W 120 Fi, W 130 Fi	0810, 1310	0001 - 9999	with hydraulic drive	2163683	Sealing kit for pump	109757
W 100 CF, W 120 CF, W 130 CF	1610, 1710, 1810	0001 - 9999	with hydraulic drive	2163683	Sealing kit for pump	109757
W 100 H, W 130 H	1910	0088 - 9999	with electric drive	2276394		
W 1500, W 1900	0820, 0920, 1020	0026 - 9999	with hydraulic drive	2163684	Sealing kit for pump	109757
					Repair kit for motor	2163687

ORIGINAL WIRTGEN WATER PUMPS

Machine type	Model	Series range	Water pump		Sealing and repair kits	
			Designation	Part No.	Designation	Part No.
W 150, W 150i	0513, 0613	0001 - 9999	with hydraulic drive	2163683	Sealing kit for pump	109757
W 2000	0620, 1120	0001 - 0210	with hydraulic drive	2163803	Repair kit for pump	2163687
		0211 - 0774	with hydraulic drive	142023	Repair kit for pump	153824
					Coupling pump / motor	178413
0775 - 9999	with hydraulic drive	194055				
W 2100	0921	0001 - 0219	with hydraulic drive	142023	Sealing kit for pump	153824
		0220 - 9999			194055	
W 200, W 200i, W 210, W 210i	1220, 1320, 1420, 1520	0001 - 9999	with hydraulic drive	2136772	Diaphragm for water pump	2052244
					Valve for water pump	200089
					Safety valve for water pump	2095833
					Repair kit for motor	2048816
W 200 H, W 200 Hi	1620, 1720	0001 - 9999	with hydraulic drive	2136772	Diaphragm for water pump	2052244
					Valve for water pump	200089
					Safety valve for water pump	2095833
					Repair kit for motor	2048816
W 220	0522	0001 - 9999	with hydraulic drive	2136772	Diaphragm for water pump	2052244
					Valve for water pump	200089
					Safety valve for water pump	2095833
					Repair kit for motor	2048816
W 2200	0821	0001 - 0059	with hydraulic drive	2163684	Repair kit for motor	2163687
		0060 - 0277	with hydraulic drive	142023	Repair kit for pump	153824
					Coupling pump / motor	178413
0278 - 9999	with hydraulic drive	194055				
W 250, W 250i	0422, 0622	0001 - 9999	with hydraulic drive	2136772	Sealing kit for pump	2052244
					Sealing kit for hydraulic motor	200089
					Sealing kit for pump	2095833
					Repair kit for motor	2163687



W WIRTGEN

**W 210: VERSATILE
HIGH-PERFORMANCE
MILLING MACHINE FOR
PROFESSIONAL APPLICATIONS**

ORIGINAL WIRTGEN SPRINKLER NOZZLES

At different points of the road milling machine water spray systems ensure that dust and dirt are bound. This minimises the wear on moving parts.

One or two water spray bars in the milling drum housing ensure the effective cooling of the picks. The spray mist also cleans the cutting tools and improves the rotation behaviour.



1 > **Sprinkler unit for the conveyor system**
Part No.: 2116481

2 > **Nozzle**
Part No.: 2153028

3 > **Nozzle holder**
Part No.: 2111193

4 > **O-ring for the fixation**
Part No.: 2141926

5 > **Sprinkler unit for spray bars**
Part No.: 2116482

6 > **Nozzle**
Part No.: 2153028

7 > **Nozzle holder**
Part No.: 2153032

8 > **Sealing**
Part No.: 2153033

9 > **Clamping piece**
(incl. fastening material)
Part No.: 2153035

> *Nozzles made of brass for machines:
W 50 R, W 60 R, W 200, W 210, W 220, W 250 and their "i" versions*



Machine type	Model	Series range	Sprinkler system drum housing		Sprinkler system conveyor	
			Nozzle unit		Nozzle unit	
			Quantity	Part No.	Quantity	Part No.
W 50 R, W 50 Ri	1405, 1505	0001 - 9999	4	2116482		
W 60 R, W 60 Ri	1405, 1505	0001 - 9999	4	2116482		
			1	2153028		
			1	2141926		
			1	2334153		
W 100 CF	1610	0001 - 9999	10	2116482	2	2116481
W 120 CF, W 130 CF	1710, 1810	0001 - 9999	12	2116482	2	2116481
W 200, W 210, W 200i, W 210i (FB 1500)	1220, 1320, 1420, 1520	0001 - 9999	24	2116482	4	2116481
W 200, W 210, W 200i, W 210i (FB 2000)	1220, 1320, 1420, 1520	0001 - 9999	34	2116482	4	2116481
W 200, W 210, W 200i, W 210i (FB 2200)	1220, 1320, 1420, 1520	0001 - 9999	36	2116482	4	2116481
W 200 H, W 200 Hi	1620, 1720	0001 - 9999	36	2116482	4	2116481
W 220	0522	0001 - 9999	36	2116482	4	2116481
W 250 (FB 2200), W 250i (FB 2200)	0422	0001 - 9999	36	2116482	4	2116481

Machine type	Model	Series range	Sprinkler system drum housing						Sprinkler system conveyor	
			Nozzle unit		Single nozzles		Valve for nozzle unit		Nozzle unit	
			Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.
W 35, W 35 DC	0503, 0403	0001 - 9999	3	71765	3	15827	3	74328		
W 500	0605	0005 - 9999	4	8667	4	15827				
W 50, W 50 DC	0805, 0905	0001 - 9999	4	71765	4	15827				
W 50, W 50 DCi	1005, 1205	0001 - 9999	4	71765	4	15827	4	74328		
W 600 DC	0705	0001 - 9999	6	71765	6	15827	6	74328		
W 60	0910	0001 - 9999	6	71765	6	15827	6	74328		

ORIGINAL WIRTGEN SPRINKLER NOZZLES

Machine type	Model	Series range	Sprinkler system drum housing						Sprinkler system conveyor	
			Nozzle unit		Single nozzles		Valve for nozzle unit		Nozzle unit	
			Qty.	Part No.	Qty.	Part No.	Qty.	Part No.	Qty.	Part No.
W 1000 L	0705	0001 - 0003	8	71765	8	15827	8	74328		
		0004 - 9999	8	112127						
W 100	0910	0001 - 9999	9	71765	9	15827	9	74328		
W 1000 F, W 100 F, W 100 Fi	0710, 0810, 1310	0001 - 9999	10	71765	10	15827	10	74328		
W 1200 F, W 1300 F, W 120 F, W 130 F, W 120 Fi, W 130 Fi	0610, 0710, 0810, 1310	0001 - 9999	12	71765	12	15827	12	74328		
W 100 H, W 130 H	1910	0088 - 9999		71765	11	15827	11	74328		
W 1500	0820	0001 - 9999	12	71765	12	15827	12	74328	8	7537
W 150, W 150i	0513, 0613	0001 - 9999	28	71765	28	15827	28	74328	2	15827
W 1900	0820, 0920, 1020	0001 - 9999	16	71765	16	15827	16	74328	8	7537
W 2000	0620, 1120	0001 - 0111	16	71765	16	15827	16	74328	8	7537
		0112 - 0210	16	71765	20	15827	20	74328		
		0211 - 9999	18	112127	22	111743	22	74328		
W 2100 (FB 2000)	0921	0001 - 9999	16	112127	16	111743	16	74328	8	111743
W 2100 (FB 2100)	0921	0001 - 9999	17	112127	17	111743	17	74328	8	111743
W 2200	0821	0001 - 0344	18	112127	18	111743	18	74328	8	111743
		0345 - 9999	18	2073669						



**W 200i:
EFFICIENCY IN THE
2-METRE CLASS**

ORIGINAL WIRTGEN

ELECTRIC AND HYDRAULIC VIBRATORS

WIRTGEN slipform pavers cover a variety of applications for high-quality offset slipform and roadway paving, all of which centre on the compaction of concrete.

WIRTGEN uses electric or hydraulic vibrators for compaction. They are adapted in their individual types and designs to the different applications and optimised with respect to form and function. The outstanding features are the highest compression performance with maximum reliability and robustness.



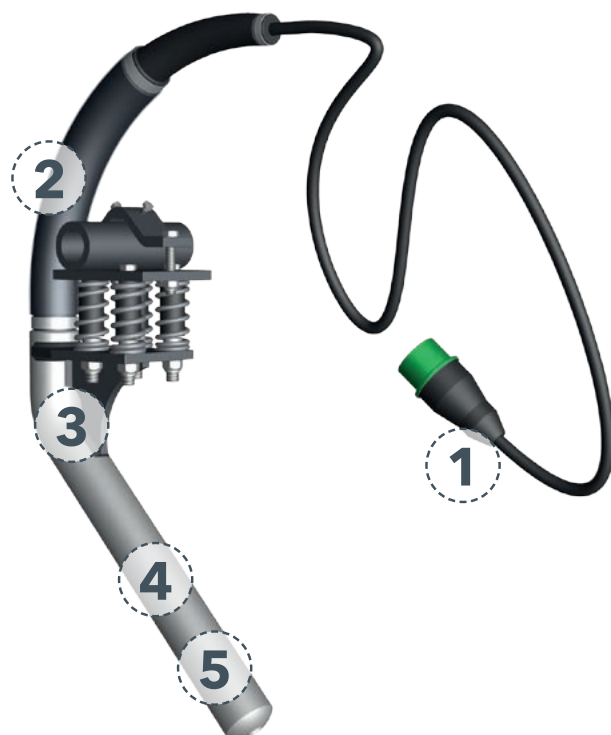
1 *The shock-resistant plug remains unbreakable even at extremely low temperatures, thus ensuring a reliable power supply in an electric vibrator.*

2 *The modified geometry of the interior vibrator prevents abrasion of the protective tube at its own suspension, its smooth surface prevents concrete from sticking.*

3 *Connections are fully sealed to protect against mechanical damage and provide enhanced insulation security and better heat deflection.*

4 *The high-quality AC induction motors have a high efficiency. The enlarged unbalance provides a larger effective diameter and a higher compression performance.*

5 *The special roller bearings ensure long life, which enables the economic use.*



> Illustration of a bent electric vibrator



OFFSET APPLICATIONS

For offset paving, which usually involves the paving of a profile, the mould is located alongside of the actual machine.

During offset paving, the vibrators are positioned directly in the moulds and arranged such that the concrete is evenly distributed and compacted even in small or complex moulds. Straight vibrators are generally used in the offset process. The number and arrangement of the vibrators depends on the shape of the profile and the volume of concrete placed.



ROAD PAVEMENT

When it comes to road pavement, curved vibrators are usually used, which are submerged in the concrete in front of the slipform. The vibrators are distributed across the paving width in such a way that optimum compaction is achieved.

On a two-layer paving the T-vibrators are used for the compaction of the second layer. For other applications, e.g. profiled surfaces, the various vibrators can be flexibly combined to ensure the best possible results for concrete paving.

Vibrator electric

Application	Designation	Part No.
Offset application	Vibrator D66 straight	180705
	Vibrator D66 bent	145963
Road pavement 1. layer	Vibrator D66 bent	145963
	Vibrator D76 bent	145961
Road pavement 2. layer	Vibrator D76 horizontal (T-Vibrator) with 4.0 kN	180706
	Vibrator D76 horizontal (T-Vibrator) with 5.6 kN	2076215
	Vibrator D76 horizontal (T-Vibrator) with 7.2 kN	2063738

Vibrator hydraulic

Application	Designation	Part No.
Offset application	Vibrator D66 straight	75721
	Vibrator D66 bent	75722
Road pavement	Vibrator D66 bent	75722

ORIGINAL WIRTGEN CONNECTING ELEMENTS FOR COLD RECYCLERS

The original WIRTGEN connecting elements are compatible with all WIRTGEN recyclers, and therefore guarantee easy and quick installation. This produces the maximum operating safety, since all components transporting fluid bonding agents must be able to withstand high throughflow quantities and also great thermal stresses, particularly in the case of hot bitumen.

With the aid of the adapter kits, this always offers the opportunity of finding an adequate connection even in the case of different couplings and special options respectively.





1



2



3



4

- 1** > MSM
- 2** > Intermediate piece
- 3** > MSV
- 4** > SK

Couplings for self-assembly				
Couplings	2" Part No.	3" Part No.	4" Part No.	Remark
MSV	51529	51530	93679	with internal thread
MSM	84214	51531	93680	with internal thread
SK	13001	13004	84382	with internal thread

Intermediate pieces		
Size (inches)	Part No.	Remark
2 on 3	2138702	with external thread
3 on 3	27844	with external thread
3 on 4	2138699	with external thread
4 on 4	93819	with external thread



A safe and reliable workflow with simultaneous machine availability and safety at work is an essential prerequisite when working with binders, such as hot bitumen. We use specially designed couplings (MSV, MSM and SK). These couplings are manufactured in varying diameters and can therefore be matched to the capacity of our WIRTGEN machines as required by the customer. The focus will always be the safety and smooth project execution.

In some applications, intermediate pieces such as reducers or adapters must be fitted due to the design of the tank truck to ensure safety and to ensure the project runs smoothly with the available equipment. Based on our experience, adapter and connector kits are available to ensure continuous availability and the highest flexibility on the construction site. These kits consist of individual items due to the large number of variants and provide the opportunity for self-assembly.

Basic adapter kit*		Part No.: 2143002	
Designation	Ø (inch)	Quantity	
MSV	4	1x	
MSV	3	1x	
SK	3	1x	
SK	4	1x	
MSM	3	1x	
MSM	4	1x	
Intermediate piece	3 on 3	1x	
Intermediate piece	3 on 4	1x	
Intermediate piece	4 on 4	1x	

Basic connector kit between bonding agent hoses*		Part No.: 2143005	
Designation	Ø (inch)	Quantity	
MSV	3	2x	
MSV	4	2x	
Intermediate piece	3 on 3	1x	
Intermediate piece	3 on 4	1x	
Intermediate piece	4 on 4	1x	

* Items in kit, delivered as single parts, for self-installation

ORIGINAL WIRTGEN

CONNECTIONS AND HOSE SYSTEM FOR COLD RECYCLERS

To operate a WIRTGEN recycler as safely as possible on the site, the fittings of WIRTGEN machines (MSV) must be connected leak-free. The connection is made with the required MSM coupling to the tank vehicle or binder tank of the suspension mixer. The connections on the WIRTGEN binder systems vary in diameter depending on the size and design of the related WIRTGEN recycler.

Depending on the length of the tank truck, preassembled binder hoses will be adequate. Should the required length of hose not be available for the related recycler rig, it is possible to order binder hoses by the metre from WIRTGEN (without couplings fitted, for self-installation) as an option.

During the selection of the hoses, the diameter is to be taken into account along with the length; the diameter can vary depending on the type of recycler.

HOSE CONNECTIONS FOR SUSPENSION, BITUMEN AND WATER



Machine connections of the machines (MSV)

Machine type	Water (inch)	Emulsion (inch)	Hot bitumen (inch)	Suspension (inch)	1800 L (inch)
WR 2000	3	3	4		4
WR 200, WR 200i	3	3	4		4
WR 2400	3	3	4		4
WR 240, WR 240i	3	3	4	3	4
WR 2500 S	4	4	4	3	4
WR 250	3	3	4	3	4
WR 4200	4	4	4	2	
WM 1000	3 (bushing) SK 3 (water tank)	3 (bushing)	4 (bushing; optional)	3 (outlet)	
KMA 200, KMA 220, KMA 220i	SK 3 (water tank)	3	3		



CHECKING THE EXPANSION OF FOAM BITUMEN

WIRTGEN recommends using a measuring bucket with dipstick to check the quality of the foam bitumen. Both are part of the WLB 10S laboratory system and can also be used for the WR series. The bucket has a capacity of 20 litres.

- > **Bucket**
Part No.: 101773
- > **Dipstick**
Part No.: 2047946

Overview of hoses: MSM couplings on both sides				
For use with	Ø (inch)	Length (m)	Part No.	Remark
Hot bitumen, emulsion, water	4	4	107812	unheated
Hot bitumen, emulsion, water	4	8	136591	unheated
Hot bitumen, emulsion, water	4	20	108689	unheated
Hot bitumen, emulsion, water	3	6	162915	heated
Hot bitumen, emulsion, water	3	6	162914	unheated
Suspension, water	3	5	104482	unheated
Suspension, water	3	1.6	114285	unheated
Water	3	4	2142840	unheated
Water	3	8	2142841	unheated

Hose by the metre (without couplings)				MSM kit for couplings	Remark
For use with	Ø (inch)	Length (m)	Part No.		
Hot bitumen	4	Can be freely selected; the desired hose length must be specified in the order.	2142850	2142976	unheated
Water	3		2142849	2142978	unheated
Water	4		2146708	2142976	unheated

ORIGINAL WIRTGEN HALOGEN WORK LIGHTS

Work is performed round-the-clock on a lot of job sites, and many types of work can only be done at night. Optimum illumination of the site is essential for such tasks. To meet these demands, WIRTGEN offers an extensive range of work lights that can be used flexibly for a variety of jobs. The lamps can be mounted in existing fixtures at various points on a machine, or entirely as needed at other spots. The lamps are easy to disassemble and store to prevent vandalism and theft.



No.	Designation	Description	Part No.
1	Small work light with fastening bracket		178477
2	Small work light with quick fastening		2085099
3	Small work light with magnetic bracket and spiral cable	with 3-polar plug	177838
		with 2-polar plug	2145206
4	Small working light with fastening screw and plug		2222928
5	Large work light with quick fastening		57775
6	Large work light with fastening bracket		10906
7	Large work light with fastening bracket, cable and plug		31926
8	Large work light with magnetic bracket, spiral cable and plug	with 2-polar plug	117676
		with 3-polar plug	171305
9	Large work light with fastening bracket, spiral cable and plug		37013
10	Large bulb for halogen work light		9778



XENON AND LED WORK LIGHTS



Xenon or LED work lights are particularly suitable for demanding lighting situations. The ultra-modern work lights are very bright, providing ideal illumination of a construction site.

The mounting options and connections are fully compatible with the conventional work light system.



No.	Designation	Description	Part No.
1	Large work light with magnetic bracket, spiral cable and plug	with 2-polar plug	146979
		with 3-polar plug	192460
2	Large work light with spiral cable and plug		161026
3	Large work light with fastening bracket		144623
4	Bulb for Xenon work light		144624
5	LED Headlight		2412352
6	LED work lights with socket tube mounting and handle		2214723
7	LED work lights with socket tube mounting without handle		2260140
8	LED work light with fastening bracket without handle, plug		2214721
9	LED work light with fastening bracket, holding magnet and plug		2277536
10	LED work lights with plug		2317352
			2481685

ORIGINAL WIRTGEN

SAFETY EQUIPMENT AND LIGHT BALLOONS

WIRTGEN machines conform to the highest European and international safety standards. To maintain this prescribed level of safety on a permanent basis, individual pieces of safety equipment must be complete and fully functional, even when exposed to extensive use.

For better illumination of the construction site during the usage of the current large milling machine generation, WIRTGEN offers light balloons of varying luminous intensity depending on the generator type and power output (see below). As a result construction sites can be made clearer and safer at night.



No.	Designation	Description	Part No.
1	Patrol light (yellow)		68407
		LED	2336319
2	Bulb for patrol light		16224
3	Horn / buzzer	Warning horn	8015
		Signalling horn	10484
4	Reversing alarm*		177788
5	Reversing alarm		19836



Generator type	Part No.	Light balloon type (power consumption)	Part No.
4.1 kVA / 110 V with hydraulic motor (socket outlet 16 A CEE)	2117336	110 V / 1.5 kW (3 x 500 W)	2139027
4.1 kVA / 110 V with hydraulic motor (socket outlet 32 A CEE)	2180806	110 V / 2 kW (4 x 500 W)	2180804
4.1 kVA / 230 V with hydraulic motor (power outlet with earthing contact with bayonet ring [IP68])	2117335	230 V / 2 kW (4 x 500 W)	2180841
without generator (machine's alternator)		24 V / 400 W (LED)	2440148

*for models 0805, 0905, 0403, 0503, 1005, 0910



CAB AND CHASSIS COMPONENTS



LATCH CLOSINGS

Doors, flaps, lids: every machine has numerous covers which must remain durably and reliably closed even when exposed to vibrations.

The latch closings used for this purpose in WIRTGEN machines can be universally used in all locks and are available as right-hand and left-hand versions.



SUN PROTECTOR

The display on the operator's stand provides the machine operator with comprehensive information for assessing the milling process. This information is difficult to read in intense sunlight.

To improve legibility in such cases, a sun protector can easily be retrofitted or replaced without difficulty if damaged. It can be used on all machines with CGC display.



CUSHION

Sit comfortably when changing picks: this is now possible with immediate effect. WIRTGEN offers a cushion which is simply laid on top of two pick buckets, one on top of the other. Thanks to the shape, adapted to the lid of the pick bucket, the cushion stays firmly in place.



ORIGINAL WIRTGEN

TOOLS FOR CHANGING PICKS

RAPID REPLACEMENT OF PICKS

Changing picks leads to machine downtime. To minimise downtime, easy access to the milling drum is ensured on all WIRTGEN machines. WIRTGEN offers suitable tools for removing the worn picks and fitting the new milling tools.

ASSEMBLY TOOLS FOR SURFACE MINER PICKS

Special pliers are available from WIRTGEN for mounting and dismounting the locking rings.



> **Assembly pliers for locking rings**
Part No.: 5447



No.	Designation	Part No.
1	Ejector drift for picks	193685
2	Extractor for picks	28812
3	Ejector drift for picks	45275
4	Ejector drift for mini picks	82747
5	Copper hammer for driving in the picks	5442
6	Pneumatic ejector drift for picks	84252
7	Retaining spring for drive tool	53035
8	Pneumatic hammer	11512
9	Pneumatic driver for picks	84251
10	Spout (Ø 12-R1/4)	11283
	Pneumatic hammer set with driver and ejector drift, accessories included	60604



HYDRAULIC PICK EJECTOR DRIFTS

Picks must be replaced regularly depending on the specific operating conditions on the construction site. This maintenance work causes downtimes.

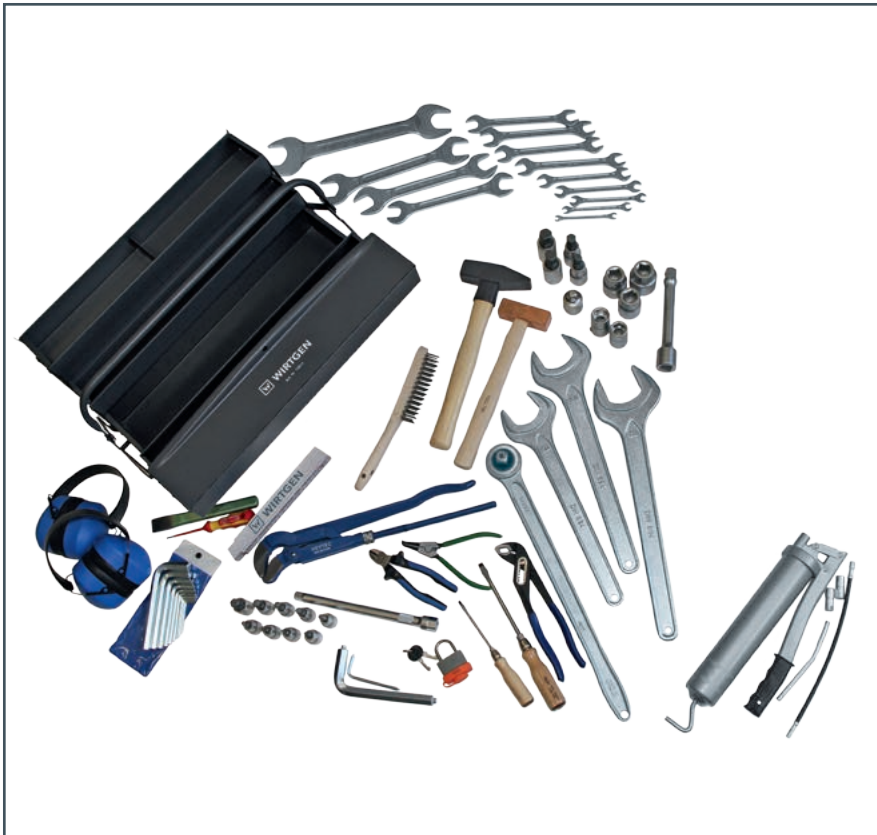
The hydraulic pick ejector drift helps you to significantly reduce these times. The tool can be used with the holder systems HT22 and HT11, as this has the geometry needed.

The hydraulic pick ejector drift can be retrofitted on large milling machines. It has additional functions that - if fitted - can activate the drum rotating device.

Designation	Part No.
Hydraulically operated pick ejector drift	2137352
Upgrade kit (machine-side) for hydraulic pick ejector drift W 150	2166908
Upgrade kit (machine-side) for hydraulic pick ejector drift W 1500 / W 1900	2166905
Upgrade kit (machine-side) for hydraulic pick ejector drift W 2000	2166907
Upgrade kit (machine-side) for hydraulic pick ejector drift W 2100	2166906
Upgrade kit (machine-side) for hydraulic pick ejector drift W 2200	2166904

ORIGINAL WIRTGEN

TOOLS FOR ROAD MILLING MACHINES



TOOL KITS

> **Small tool kit**
Part No.: 72613

> **Large tool kit**
Part No.: 72612

WIRTGEN offers two different tool kits for maintenance and repair work as an option.

The small tool kit contains useful basic equipment of various tools. The large tool kit combines the tools of the small tool kit with an extended range in a large box. Weighing about 28 kg the whole tool kit can be stored conveniently in the storage compartment of your large milling machine.



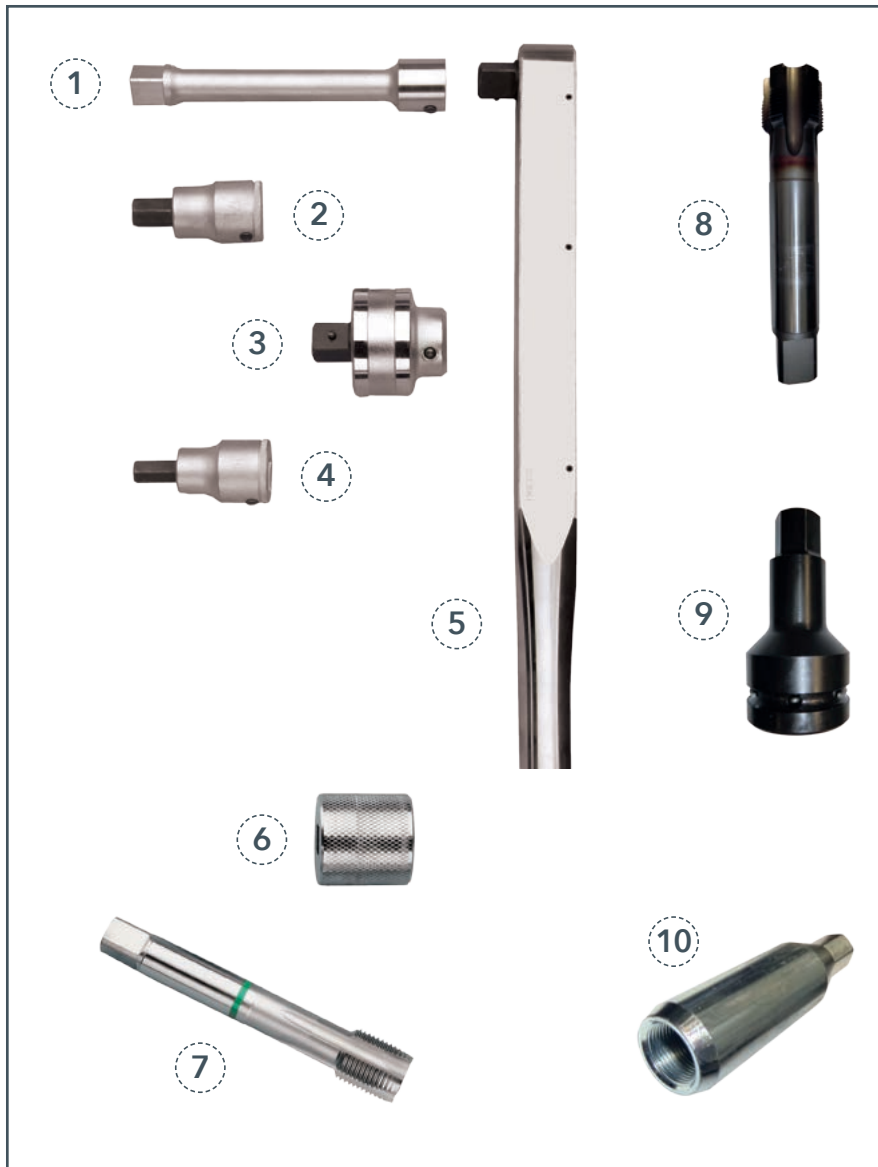
BELT PULLEYS PROFILE GAUGE

> Part No.: 2065403

The profile gauge for belt pulleys simplifies the estimation of the wear on the edges of the teeth. As a result it is possible to identify the need for replacement in good time. The gauge can be used for all belt pulleys with the exception of the belt pulleys for the W 200 and W 210.



TOOLS FOR THE MAINTENANCE OF TOOLHOLDERS



TOOLS FOR THE MAINTENANCE OF TOOLHOLDERS

The original WIRTGEN assembly tools for the HT15 quick-change toolholder system are suitable for long-term use. The wrought hexagon socket is manufactured such that the required high torques for fastening the retainer screws can be transmitted.

The thread cutter for reworking threads has a cylindrical guide pin that eases positioning of the tool. Overall the risk of damage by positioning the tool incorrectly is minimised.

CENTRING BOLTS FOR MOUNTING FCS MILLING DRUMS

The centring bolts for FCS milling drums make it possible to quickly and straightforwardly change the milling drums. Two centring bolts are recommended to adjust the milling drum on the inside tube with the aid of an assembly trolley or fork lift truck.



No.	Designation	Part No.
1	3/4" extension	10747
2	Hexagon socket 17 mm (for HT22 + HT11)	11886
3	Ratchet 3/4"	97204
4	Hexagon socket 14 mm (for HT3)	11151
5	Torque wrench up to 700 Nm	68273
6	Adapter for thread cutter (for HT3)	169132
	Adapter for thread cutter (for HT22 + HT11)	2089182
7	Thread cutter (for HT3) M24x2	101772
	Thread cutter (for HT22 + HT11) M30x2	25392
8	Thread cutter with cylindrical guide pin, M36x2, width across flats 22 mm (for HT15)	2189068
9	Hexagon socket 22 mm for HT15 square mounting 1"	2197997
10	Centring bolt internal thread, M22x1.5, width across flats 17 mm	163632

ORIGINAL WIRTGEN ELECTRICAL SERVICE PACKAGES AND EMERGENCY KITS

ELECTRICAL SERVICE PACKAGE FOR MACHINE OPERATORS

Small electrical problems such as blown fuses or failed relays interrupt the work flow at the site significantly. With the electrical service case for machine operators, all the tools and parts to get the machine up and running without much effort directly on the site again are all in a handy box.

The service package contains a variety of electrical parts, such as relays, fuses, valve connectors, auxiliary switches and front elements.



ELECTRICAL SERVICE PACKAGE FOR WORKSHOP STAFF

The often difficult use of WIRTGEN's milling machines requires regular maintenance of the electrical system to ensure the availability at any time.

The electrical service package for workshop staff contains the most common and essential hardware for servicing a machine, all neatly arranged in a case: relays, blade-type fuses, wire-end sleeves, flat plugs, proximity switches, auxiliary switches, front elements and much more.



EMERGENCY KITS

Downtimes on site cost a lot of money. To reduce the time of unforeseen repairs, WIRTGEN assembled an emergency kit for the electrical components of all machines.

The kit's contents make it possible to solve problems rapidly, directly on site, with the parts on board and thus save money. The most important spare parts are always available when needed because the kits are individually compiled for each machine. The kit is supplied in a handy case and can be stowed away in the machine's storage compartment.





Machine type	Model	Series range	Service package for machine operators	Service package for workshop staff	Emergency kits
			Part No.	Part No.	Part No.
W 350 E	0303	0001 - 9999	147320	2174835	
W 35, W 35 DC	0503, 0403	0001 - 9999	148616	2174832	
W 35 Ri	0703	0001 - 9999		2529169	2528876
W 500	0505, 0605	0001 - 9999	147320	2174835	
W 50, W 50 DC	1005, 0905	0001 - 9999	148616	2174832	
W 50 R, W 60 R, W 50 Ri, W 60 Ri	1405, 1505	0001 - 9999		2529169	2528876
W 60, W 100, W 60i, W 100i	0910, 1210	0001 - 9999	148616	2174832	2091528
W 1000 F, W 1200 F, W 1300 F	0710	0001 - 0164	147320	2174835	194195
		0165 - 0329	148616	2174832	194195
		0330 - 9999	148616	2174832	200017
W 100 F, W 120 F, W 130 F, W 100 Fi, W 120 Fi, W 130 Fi	0810, 1310	0001 - 9999	148616	2174832	2061025
W 100 CF, W 120 CF, W 130 CF, W 100 CFi, W 120 CFi, W 130 CFi	1710, 1810	0001 - 9999		2529169	2528876
W 100 R, W 120 R, W 100 Ri, W 120 Ri	1510, 1610	0001 - 9999		2529169	2528876
W 150, W 150i	0513, 0613	0001 - 9999	148616	2174832	2061025
W 1500, W 1900	0820	0001 - 9999	148616	2174832	194189
W 200, W 200i	1220, 1420	0001 - 9999	2143521		2143541
W 2000	0620	0001 - 0215	147320	2174835	194188
		0216 - 9999	148616	2174832	
W 2100	0921	0001 - 0011	147320	2174835	194188
		0012 - 9999	148616	2174832	
W 210, W 210i	1320, 1520	0001 - 9999	2143521		2143541
W 2200	0821	0001 - 0059	147320	2174835	194188
		0060 - 9999	148616	2174832	
W 220	0522	0001 - 9999	2143521		2143541
W 250	0422	0001 - 9999	2143521		2143541
WR 2000	03WR	0001 - 9999	148616	2174832	
		0001 - 0124			200019
		0125 - 9999			2061021
WR 200, WR 200i	06WR, 09WR	0001 - 9999			2284497
WR 2400	05WR	0001 - 9999	148616	2174832	2061021
WR 240, WR 240i	07WR, 10WR	0001 - 9999			2284497
WR 2500 S	04WR	0001 - 9999	148616	2174832	200020
WR 250	08WR	0001 - 9999			2284497

ORIGINAL WIRTGEN SERVICE PACKAGES

VACUUM KIT

When working on the hydraulic system, it is important to prevent hydraulic fluid from escaping. Special precautionary measures should be taken particularly on a job site to comply with environmental regulations.

Using the vacuum kit can effectively help preventing excessive amounts of fluid from escaping when disconnecting a hydraulic hose or dismantling a valve.

HYDRAULIC TEST KIT

The hydraulic test kit contains a variety of tools required to carry out hydraulic pressure tests and perform adjustments and service work on WIRTGEN machines.

Contents: Pressure gauges for different pressure ranges, hydraulic fittings, seals, miniature test connections, tools (e.g. double open-ended spanners, a set of metric hex wrenches with ball end, and a set of SAE hex wrenches).

CRIMPING CASE COMPLETE

Specially developed for crimping WIRTGEN GROUP connector and crimp contacts.

Using the instructions enclosed, every technician is able to allocate the various connector or crimp contacts to the correct tool. This will ensure lasting connections without contact error and avoid transition resistance.

In addition, the case contains ejector tools for the WIRTGEN GROUP connectors.

ELECTRICAL TEST KIT

The electrical test kit provides high-quality tools that are required for electrical measurements, adjustment and servicing of WIRTGEN machines. Basic equipment: Multimeter with extensive accessories such as test leads, test probes, clip-type probes and test adapters. Supplement: Wire stripper, crimping tool for wire-end sleeves, diagonal cutters, needle-nose pliers and screwdriver set.



No.	Designation	Part No.
1	Vacuum kit	95304
2	Hydraulic test kit	12782
3	Crimping case complete	2191384
4	Electrical test kit	89900



BELT REPAIR SERVICE PACKAGES



> **Belt repair - cracks**
Part No.: 111850

BELT REPAIR - CRACKS

The service package "belt repair - cracks" is the perfect solution to repair frayed cracks or bridge soft spots before they tear. The package includes all the tools and materials needed for instant repair of longitudinal cracks and cracked edges.

In addition to punches, bolt breakers, cutters and other material, the package also includes a large number of metal connectors to hold the belt together.

Metal connectors can be reordered with Part No.: 111841.



> **Belt repair - holes**
Part No.: 193618

BELT REPAIR - HOLES

Small and medium-sized holes can be repaired very simply with the "belt repair - holes" service package.

The package includes adhesive, hardener and lozenge-shaped patches of various sizes, as well as a round brush, a roller and a tool for roughening the surface.

ORIGINAL WIRTGEN

FILTER PACKAGES FOR ENGINE AND HYDRAULICS

Offering renowned high milling performance, WIRTGEN road milling machines are powered by modern diesel engines and use a complex hydraulic system for optimum power.

Provided they are regularly maintained, original WIRTGEN filter elements form the basis for a high milling performance and long engine service life.

WIRTGEN has also optimised the adaptation of lubricants and fuels to the requirements of the corresponding filter systems, also guaranteeing the requisite system purity and hence minimising operating costs.





Machine type	Model	Filter package	Series range	Replacement interval			
				50h*	250 h, 750 h, 1250 h ...	500 h, 1500 h, 2500 h ...	1000 h, 2000 h, 3000 h ...
W 35	0503	Engine	0001 - 0037	189278		189278	189278
			0038 - 9999	2219665		2089190	2089190
		Hydraulics	0001 - 9999	107665		107665	106520
W 35 DC	0403	Engine	0001 - 0165	189278		189278	189278
			0166 - 9999	2219665		2089190	2089190
		Hydraulics	0001 - 9999	107665		107665	106520
W 35 Ri	0703	Engine	0001 - 9999	2438131		2438358	2438358
		Hydraulics	0001 - 9999	2438377		2438377	2449922
W 500	0605	Engine	0005 - 0275	107686	107686	106521	106521
			0276 - 0903	107686	107686	106523	106523
			0904 - 9999	125015	125015	125016	125016
		Hydraulics	0005 - 0275	107649		107649	106522
			0276 - 9999	107650		107650	106531
W 50	0805	Engine	0001 - 9999	181302		181302	181302
		Hydraulics	0001 - 9999	182467		182467	182469
W 50	1005	Engine	0001 - 0027	2056606		2056606	2056606
			0028 - 9999	2219642		2089191	2089191
		Hydraulics	0001 - 9999	182467		182467	182469
W 50 DC	0905	Engine	0001 - 0234	181303		181303	181303
			0235 - 9999	2219616		2085671	2085671
		Hydraulics	0001 - 9999	182467		182467	182469
W 50 DCi	1205	Engine	0001 - 9999	2336956		2336958	2336958
		Hydraulics	0001 - 9999	182467		182467	182469
W 50 R, W 60 R	1405	Engine	0001 - 9999	2219616		2451842	2451842
		Hydraulics	0001 - 9999	182467		182467	182469
W 50 Ri, W 60 Ri	1505	Engine	0001 - 0999	2336956		2370101	2370101
			1001 - 9999				2520117
		Hydraulics	0001 - 0999	182467		182467	182469
			1001 - 9999				
W 600 DC, W 1000 L	0705	Engine	0001 - 0269	106568		106568	106568
			0270 - 0515	139470		139470	139470
			0516 - 9999	176421		176421	176421
		Hydraulics	0001 - 9999	107698		107698	106569

* First service

Due to possible technical changes, please always compare with the information in the instruction manual.

FILTER PACKAGES FOR ENGINE AND HYDRAULICS

Machine type	Model	Filter package	Series range	Replacement interval			
				50h*	250 h, 750 h, 1250 h ...	500 h, 1500 h, 2500 h ...	1000 h, 2000 h, 3000 h ...
W 60, W 100	0910	Engine	0001 - 9999	2196864		2063467	2063467
		Hydraulics	0001 - 9999	182467		182467	182469
W 60i, W 100i	1210	Engine	0001 - 9999	2219670		2217206	2217206
		Hydraulics	0001 - 9999	182467		182467	182469
W 100 Ri, W 120 Ri	1610	Engine	0001 - 9999	2219670		2217206	2217206
		Hydraulics	0001 - 9999	182467		182467	182469
W 1000 F, W 1200 F, W 1300 F	0710	Engine	0002 - 0074	136834		136834	136834
			0075 - 0559	136833		136833	136833
			0560 - 9999	182335		182335	182335
		Hydraulics	0001 - 0329	107664		107664	105556
0330 - 9999	181355			181355	172347		
W 100 F, W 120 F, W 130 F	0810	Engine	0001 - 9999	2196859		2060509	2060509
		Hydraulics	0001 - 9999	181355		181355	172347
W 100 Fi, W 120 Fi, W 130 Fi	1310	Engine	0001 - 9999	2219674		2217202	2217202
		Hydraulics	0001 - 9999	181355		181355	172347
W 100 CF, W 120 CF, W 130 CF	1710	Engine	0001 - 9999	2196859		2060509	2060509
		Hydraulics	0001 - 9999	181355		181355	172347
W 100 CFi, W 120 CFi, W 130 CFi	1810	Engine	0001 - 9999	2428648		2428649	2428651
		Hydraulics	0001 - 9999	181355		181355	172347
W 1500, W 1900	0820	Engine	0001 - 9999	193135	193135	147248	147248
			0001 - 0638	181920		181920	130775
		Hydraulics	0639 - 9999	2160672		2160672	2160674
W 150	0513	Engine	0001 - 9999	2196859		2060509	2060509
		Hydraulics	0001 - 9999	181355		181355	172347
W 150i	0613	Engine	0001 - 9999	2219674		2217202	2217202
		Hydraulics	0001 - 9999	181355		181355	172347
W 2000	0620	Engine	0001 - 0865	192887	192887	130774	130774
			0866 - 9999	194311	194311	194312	194312
		Hydraulics	0001 - 1438	181920		181920	130775
			1439 - 9999	2160672		2160672	2160674
W 200	1220	Engine	0001 - 9999	2196860		2141040	2141040
		Hydraulics	0001 - 9999	2110454		2110454	2110456
W 200i	1420	Engine	0001 - 0022	2219675		2217204	2217204
			0023 - 0888	2219675		2547239	2547239
			1001 - 9999	2432905		2432906	2432907
		Hydraulics	0001 - 0999	2110454		2110454	2110456
			1001 - 9999				

* First service

Due to possible technical changes, please always compare with the information in the instruction manual.



Machine type	Model	Filter package	Series range	Replacement interval			
				50h*	250 h, 750 h, 1250 h ...	500 h, 1500 h, 2500 h ...	1000 h, 2000 h, 3000 h ...
W 200 Hi	1720	Engine	0001 - 0003	2219675		2217204	2217204
			0004 - 0888	2219675		2547239	2547239
			1001 - 9999	2432905		2446710	2446714
		Hydraulics	0001 - 9999	2273099		2273099	2273096
W 2100	0921	Engine	0001 - 0129	192887	192887	130774	130774
			0130 - 9999	193132	193132	186536	186536
		Hydraulics	0001 - 0384	181920		181920	130775
			0385 - 9999	2160672		2160672	2160674
W 210	1320	Engine	0001 - 9999	2196861		2141041	2141041
		Hydraulics	0001 - 9999	2110454		2110454	2110456
W 210i	1520	Engine	0001 - 0999	2219676		2217203	2217203
			1001 - 9999	2432165		2432166	2432168
		Hydraulics	0001 - 0999	2110454		2110454	2110456
			1001 - 9999				
W 2200	0821	Engine	0001 - 0499	193133	193133	130344	130344
			0500 - 9999	2110174	2110174	2110175	2110175
		Hydraulics	0001 - 0499	193134		193134	130345
			0500 - 9999	2110454		2110454	2110456
W 220	0522	Engine	0001 - 9999	2219172	2215627	2215627	2215627
		Hydraulics	0001 - 9999	2110454		2110454	2110456
W 250	0422	Engine	0001 - 9999	2196862		2173465	2173465
		Hydraulics	0001 - 9999	2110454		2110454	2110456
W 250i	0622	Engine	0001 - 0999	2275504		2275505	2275505
			1001 - 9999	2466710		2466711	2466719
		Hydraulics	0001 - 0999	2110454		2110454	2110456
			1001 - 9999				
WR 2000	03WR	Engine	0001 - 9999	181918	181918	181919	181919
		Hydraulics	0001 - 0327	181920		181920	130775
			0328 - 9999	2160672		2160672	2160674
WR 200	06WR	Engine	0001 - 9999	181918	181918	181919	181919
		Hydraulics	0001 - 9999	2160672		2160672	2160674
WR 200i	09WR	Engine	0001 - 9999	2331705		2331704	2331704
		Hydraulics	0001 - 9999	2160672		2160672	2160674
WR 2400	05WR	Engine	0001 - 9999	192389	192389	192131	192131
		Hydraulics	0001 - 0211	181920		181920	130775
			0212 - 9999	2160672		2160672	2160674
WR 240	07WR	Engine	0001 - 9999	2196860		2223531	2223531
		Hydraulics	0001 - 9999	2160672		2160672	2160674
WR 240i	10WR	Engine	0001 - 0083	2219675		2217204	2217204
			0084 - 0888	2219675		2409545	2409545
			1001 - 9999	2432905		2343449	2431650
		Hydraulics	0001 - 9999	2160672		2160672	2160674

* First service

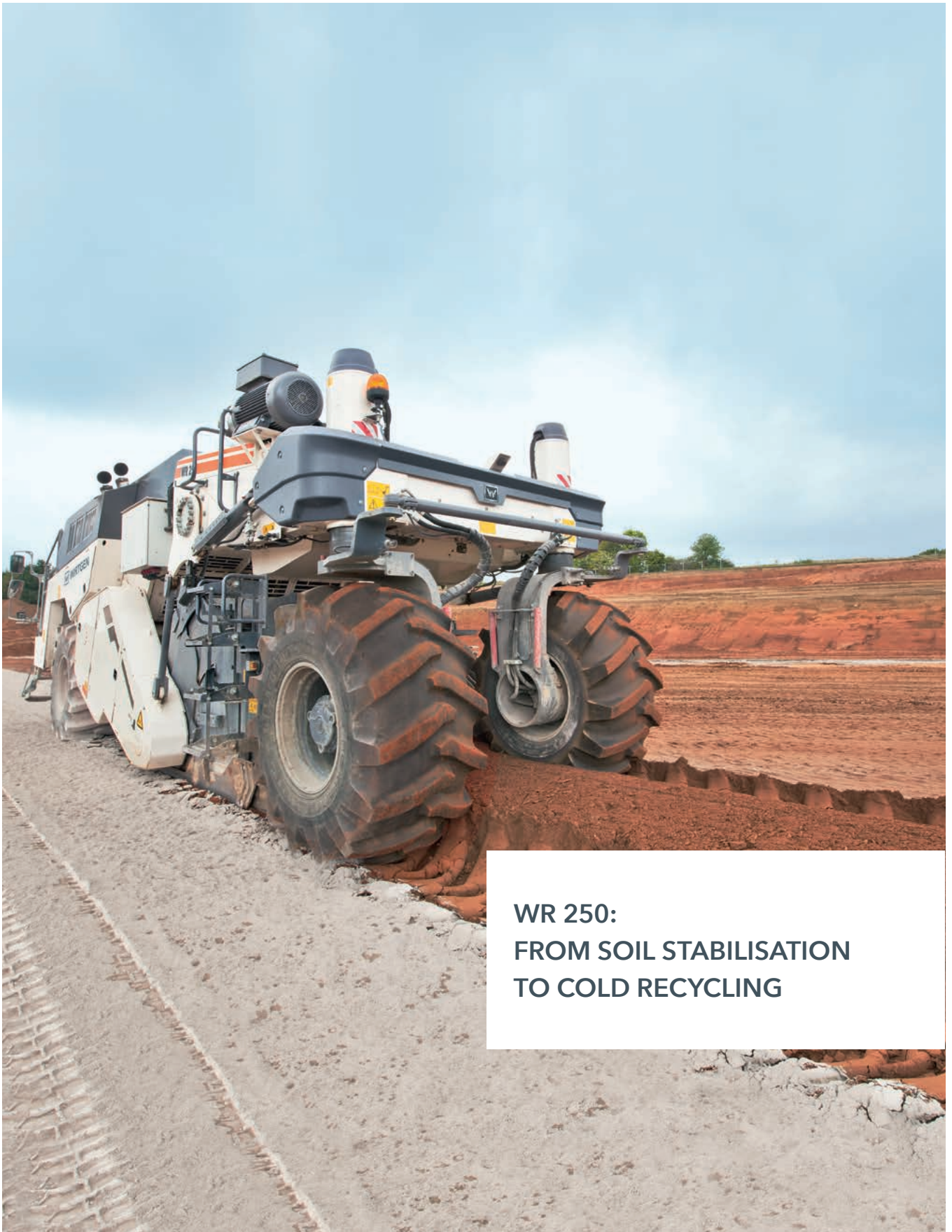
Due to possible technical changes, please always compare with the information in the instruction manual.

FILTER PACKAGES FOR ENGINE AND HYDRAULICS

Machine type	Model	Filter package	Series range	Replacement interval			
				50h*	250 h, 750 h, 1250 h ...	500 h, 1500 h, 2500 h ...	1000 h, 2000 h, 3000 h ...
WR 2500 S	04WR	Engine	0001 - 0350	165056	165056	165057	165057
			0351 - 9999	2219697	2115213	2115214	2115214
		Hydraulics	0001 - 0350	165055		165055	165054
			0351 - 9999	2116463		2116463	2116464
WR 250	08WR	Engine	0001 - 9999	2219172	2262419	2262419	2262419
		Hydraulics	0001 - 9999	2160672		2160672	2160674
WM 1000	03MS	Engine	0001 - 0037			166184	
			0038 - 0104			166186	
			0105 - 9999			2079386	
		Hydraulics	0001 - 0134			193136	166187
0135 - 9999				2181374	2181375		
KMA 200	04MS	Engine	0001 - 9999			167637	
		Hydraulics	0001 - 9999	181920		181920	130775
KMA 220	05MS	Engine	0001 - 9999			2103183	
		Hydraulics	0001 - 0042	181920		181920	130775
			0043 - 9999	2160672		2160672	2160674
HM 4500	06HM	Engine	0001 - 0006		125015	125016	
			0007 - 0028			176653	
			0029 - 9999			181303	
		Hydraulics	0001 - 0028			182359	
			0029 - 9999			2181377	
SP 150	09SP	Engine	0001 - 0004	181302		181302	181302
			0005 - 9999	2077854		2077854	2077854
		Hydraulics	0001 - 9999	2060566		2060566	2060566
SP 15	12SP	Engine	0001 - 9999	2196863		2164063	2164063
		Hydraulics	0001 - 9999	2164534		2164534	2164534
SP 15i	14SP	Engine	0001 - 9999	2219670		2330727	2330727
		Hydraulics	0001 - 9999	2164534		2164534	2164534
SP 250	08SP	Engine	0001 - 0065	125015	125015	125016	125016
			0066 - 9999	176653		176653	176653
		Hydraulics	0001 - 0065	107655		107655	107431
			0066 - 9999	176654		176654	176655
SP 25	13SP	Engine	0001 - 9999	2196864		2063467	2063467
		Hydraulics	0001 - 9999	2167088		2167088	2167088
SP 25i	15SP	Engine	0001 - 9999	2219670		2217206	2217206
		Hydraulics	0001 - 9999	2167088		2167088	2167088
SP 500	10SP	Engine	0001 - 0059	182335		182335	182335
			0060 - 9999	2103183		2103183	2103183
		Hydraulics electr. vibrator	0001 - 9999	182338		182338	182339
		Hydraulics hydr. vibrator	0001 - 9999	182340		182340	182341

* First service

Due to possible technical changes, please always compare with the information in the instruction manual.



**WR 250:
FROM SOIL STABILISATION
TO COLD RECYCLING**

ORIGINAL WIRTGEN MAINTENANCE KITS

Original WIRTGEN maintenance kits contain, adapted to the respective milling machine, all required air, fuel, engine oil and hydraulic oil filters as well as the appropriate lubricants, oils and sealings.





Machine type	Model	Series range	Maintenance interval			
			50h*	250 h, 750 h, 1250 h ...	500 h, 1500 h, 2500 h ...	1000 h, 2000 h, 3000 h ...
W 35	0503	0001 - 0037	2103026		2103026	2103033
		0038 - 9999	2103027		2103027	2103034
W 35 DC	0403	0001 - 0165	2103026		2103026	2103033
		0166 - 9999	2103027		2103027	2103034
W 35 Ri	0703	0001 - 9999	2450025		2450025	2450026
W 500	0605	0005 - 0275	2103050	2103055	2103057	2103060
		0276 - 0903	2103051	2103055	2103058	2103061
		0904 - 9999	2103053	2103056	2103059	2103062
W 50	0805	0001 - 9999	2102984		2102984	2102987
W 50	1005	0001 - 0027	2101448		2101448	2101455
		0028 - 9999	2101449		2101449	2101456
W 50 DC	0905	0001 - 0234	2103063		2103063	2103069
		0235 - 9999	2103064		2103064	2103070
W 50 DCi	1205	0001 - 9999	2336960		2336960	2336961
W 50 H	1305	0088 - 9999	2469835	2469836	2469837	2469838
W 50 R, W 60 R	1405	0001 - 9999	2391117		2391117	2391119
W 50 Ri, W 60 Ri	1505	0001 - 0999	2370086		2370086	2370087
		1001 - 9999				2520130
W 600 DC, W 1000 L	0705	0001 - 0269	2103028		2103028	2103038
		0270 - 0515	2103039		2103039	2101452
		0516 - 9999	2103065		2103065	2103231
W 60, W 100	0910	0001 - 9999	2103072		2103072	2103075
W 60i, W 100i	1210	0001 - 9999	2217272		2217273	2217274

* First service

Due to possible technical changes, please always compare with the information in the instruction manual.

MAINTENANCE KITS

Machine type	Model	Series range	Maintenance interval			
			50h*	250 h, 750 h, 1250 h ...	500 h, 1500 h, 2500 h ...	1000 h, 2000 h, 3000 h ...
W 1000 F, W 1200 F, W 1300 F	0710	0001 - 0074	2103254		2103254	2103263
		0075 - 0329	2103255		2103255	2103264
		0330 - 0559	2103256		2103256	2103265
		0560 - 9999	2103257		2103257	2103266
W 100 F, W 120 F, W 130 F	0810	0001 - 9999	2103071		2103077	2103078
W 100 Fi, W 120 Fi, W 130 Fi	1310	0001 - 9999	2217276		2217278	2217279
W 100 CF, W 120 CF, W 130 CF	1710	0001 - 9999	2466540		2466541	2466542
W 100 CFi, W 120 CFi, W 130 CFi	1810	0001 - 9999	2428575		2428576	2428578
W 100 Ri, W 120 Ri	1610	0001 - 9999	2217272		2217273	2217274
W 1500, W 1900	0820, 1020	0001 - 0638	2103178	2103179	2103180	2103181
		0639 - 9999	2181376	2103179	2183826	2183827
W 150	0513	0001 - 9999	2103071		2103077	2103076
W 150i	0613	0001 - 9999	2217276		2217278	2217280
W 2000	0620, 1120	0001 - 0865	2103158	2103161	2103163	2103165
		0866 - 1438	2103159	2103162	2103164	2103166
		1439 - 9999	2183828	2103162	2183830	2183831
W 200	1220	0001 - 9999	2142161		2142163	2142164
W 200i	1420	0001 - 0022	2217283		2217285	2217286
		0023 - 0888	2217283		2547243	2547244
		1001 - 9999	2432908		2432909	2432910



Machine type	Model	Series range	Maintenance interval			
			50h*	250 h, 750 h, 1250 h ...	500 h, 1500 h, 2500 h ...	1000 h, 2000 h, 3000 h ...
W 200 Hi	1720	0001 - 0003	2347194		2347195	2347196
		0003 - 0888	2347194		2547264	2547265
		1001 - 9999	2446680		2446681	2446682
W 2100	0921	0001 - 0129	2103296	2103298	2103300	2103302
		0130 - 0384	2103297	2103299	2103301	2103303
		0385 - 9999	2183833	2103299	2183835	2183836
W 210	1320	0001 - 9999	2142158		2142159	2142160
W 210i	1520	0001 - 0999	2217287		2217288	2217290
		1001 - 9999	2403773		2403775	2403777
W 2200	0821	0001 - 0499	2103187	2103189	2103191	2103194
		0500 - 9999	2110176	2110177	2110178	2110179
W 220	0522	0001 - 9999	2215623	2282574	2215625	2215626
W 250	0422	0001 - 9999	2173466		2173467	2173468
W 250i	0622	0001 - 0999	2275506		2275507	2275508
		1001 - 9999	2466714		2466715	2466716
WR 2000	03WR	0001 - 0327	2173657	2173658	2173659	2173660
		0328 - 9999	2183837	2173658	2183839	2183840
WR 200	06WR	0001 - 9999	2183837	2173658	2183839	2331710
WR 200i	09WR	0001 - 9999	2331640		2331642	2331643
WR 2400	05WR	0001 - 0211	2173661	2173662	2173663	2173665
		0212 - 9999	2183841	2173662	2183843	2183844
WR 240	07WR	0001 - 9999	2223472		2223471	2223470
WR 240i	10WR	0001 - 0083	2262358		2262357	2262354
		0084 - 0888	2262358		2409537	2409536
		1001 - 9999	2444497		2444496	2431648
WR 2500 S	04WR	0001 - 0350	2173672	2173673	2173675	2173676
		0351 - 9999	2173677	2252057	2173678	2173681
WR 250	08WR	0001 - 9999	2262420	2282574	2262421	2262422

* First service

Due to possible technical changes, please always compare with the information in the instruction manual.

ORIGINAL WIRTGEN GROUP LUBRICANTS

PREMIUM LUBRICANTS

WIRTGEN GROUP lubricants combine the best possible basic oils and unique additives in customised specifications. The advantages for you:

- > Compatibility with the first filling
- > Optimum protection against wear
- > Perfect protection against corrosion
- > Traceability in the event of damage

WIRTGEN GROUP lubricants consequently improve the performance and service life of your machines while at the same time durably cutting their running costs. The sensible way to save money!

ONE-STOP SUPPLY

All WIRTGEN GROUP machines - whether WIRTGEN milling machine, VÖGELE paver, HAMM roller or KLEEMANN plant can be filled and lubricated with the corresponding WIRTGEN GROUP lubricant for each application (exceptions are indicated).

Together with the carefully coordinated mixture of container sizes, this results in optimised ordering, storage and filling processes.

ACCESSORIES FOR FILLING AND LUBRICATION

Practical and well-tried accessories "made in Germany", such as canister pumps and grease guns, are available to assist you in filling and lubricating your machines.





ACCESSORIES FOR FILLING AND LUBRICATION

Oil pumps

1 > Hand pump for 20-l canisters

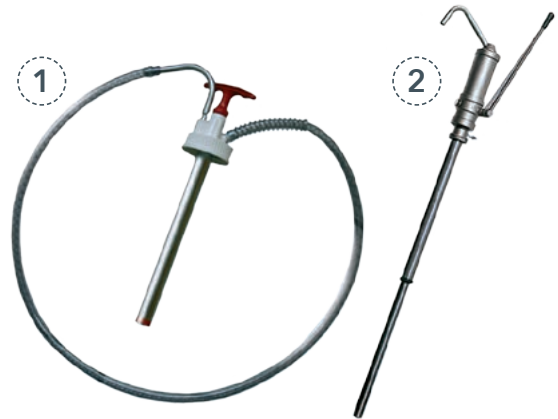
Part No.: 2065044

- Piston pump
- Delivery hose with spring-loaded spiral and anti-kink spring
- Non-drip spout with holder
- Foot valve

2 > Lever-operated hand pump for 208-l barrels

Part No.: 2065045

- Made of metal
- Telescoping intake tube
- Pivotal delivery manifold
- Delivery capacity: 0.2l/stroke



Filling cylinder and grease presses

1 > Filling cylinder

Part No.: 2065046 (500g)

Part No.: 2065047 (1000g)

- Made of metal
- Flexible hose

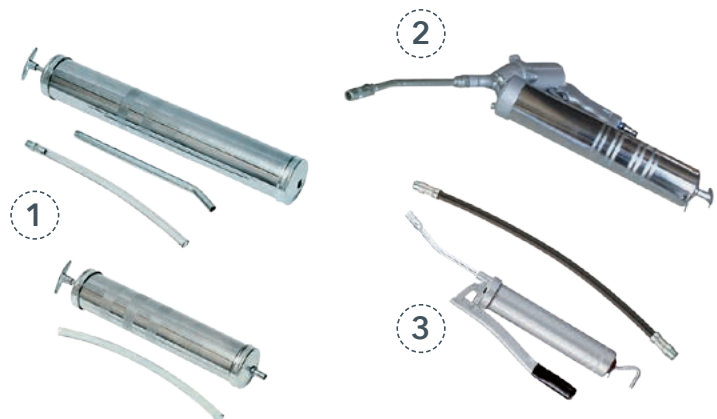
2 > Grease press/grease gun

Part No.: 2065049

- Made of metal
- High pressure output
- Size: 400-g cartridge

3 > Lever-operated hand grease press

Part No.: 2065048



Filling cans and funnels

1 > Filling cans

Part No.: 2065041 (1l)

Part No.: 2065042 (2l)

Part No.: 2065043 (5l)

- Flexible spout
- Complete with lid
- Different sizes

2 > Filling funnels

Part No.: 2065039 (180mm)

Part No.: 2065040 (220mm)

- Transparent plastic material
- Complete with lid
- Different diameters



ORIGINAL WIRTGEN GROUP LUBRICANTS IN DETAIL

Engine oil			
Designation	Description	Container	Part No.
WIRTGEN GROUP Engine Oil 15W-40	Powerful high-performance engine oil made from excellent basic oils and special additives. Increases the performance output of your engine while at the same time ensuring maximum operational reliability.	5 l	2065020
		20 l	2065025
		208 l	2065026
		1000 l IBC	2118572
WIRTGEN GROUP Engine Oil 10W-40	The smooth-running engine oil produced using modern synthesis technology with outstanding wear protection and cleaning characteristics is suitable for excellent and safe operating properties. Enables longer maintenance intervals as approved by the engine manufacturer.	5 l	2112355
		20 l	2112354
		208 l	2219171
		1000 l IBC	2118569
WIRTGEN GROUP Engine Oil "Low SAPS" 10W-30	Semi-synthetic "Low SAPS" engine oil (low sulphated ash, sulphur and phosphorous content) with fuel economy technology. Its low sulphate ash content ensures that burnt oil particles do not prematurely clog the emissions aftertreatment particle filter (DPF).	5 l	2210320
		20 l	2210322
		208 l	2210323
		1000 l IBC	2118570
WIRTGEN GROUP Engine Oil "Low SAPS" 10W-40 MB	The very latest synthetic diesel engine oil, extremely high performance, "Low SAPS" (lower levels of sulphur, sulphated ash and phosphor). The engine oil has been specially developed for use in all diesel engines with particle filters (DPF) and SCR systems (AdBlue®). Helps protect the environment by reducing harmful emissions.	5 l	2346869
		20 l	2346870
		208 l	2346871

Hydraulic oil			
Designation	Description	Container	Part No.
WIRTGEN GROUP Clutch Fluid 32	High-performance hydraulic fluid for use in couplers of KLEEMANN machines.	5 l	2268030
		20 l	2268032
WIRTGEN GROUP Hydraulic Oil HVLP 32	High-grade multi-range hydraulic oil with zinc for optimum protection against wear, even in the most difficult service conditions. Thanks to its enhanced specifications, it can be used with long replacement intervals.	20 l	2118573
WIRTGEN GROUP Hydraulic Oil HVLP 46	High-grade multi-range hydraulic oil with zinc for optimum protection against wear, even in the most difficult service conditions. Thanks to its enhanced specifications, it can be used with long replacement intervals.	20 l	2065028
		208 l	2065029
		1000 l IBC	2118571
WIRTGEN GROUP Hydraulic Oil HVLP 68	High-grade multi-range hydraulic oil with zinc for optimum protection against wear, even in the most difficult service conditions. Thanks to its enhanced specifications, it can be used with long replacement intervals.	20 l	2118574

Due to possible technical changes, please always compare with the information in the instruction manual.



Bio hydraulic oil			
Designation	Description	Container	Part No.
WIRTGEN GROUP Bio Hydraulic Oil 46	Easily biodegradable multi-use hydraulic oil made from all-synthetic esters and ash-free additives results in excellent lubricating properties and protects the environment. Bears the ecolabel for lubricants of the EU.	20 l	2118575
		208 l	2270558
WIRTGEN GROUP Bio Hydraulic Oil 68	Easily biodegradable multi-use hydraulic oil made from all-synthetic esters and ash-free additives results in excellent lubricating properties and protects the environment. Bears the ecolabel for lubricants of the EU.	20 l	2124179

Gear oil			
Designation	Description	Container	Part No.
WIRTGEN GROUP Gear Oil 85W-90	Mineral gear oil of the latest generation for versatile use in gearboxes and axle drives. Stands out through maximum protection against wear and oxidation. Note: Must not be used for WIRTGEN milling drum gearboxes, HAMM vibratory bearings and drum drives as well as for VÖGELE pump splitter gearboxes and travel drives.	5 l	2065030
		20 l	2065031
		208 l	2065032
WIRTGEN GROUP Multi Gear Oil VG 220	Mineral-oil based high-performance gear oil with EP (extreme pressure) additives offers very good wear protection and excellent performance in gearboxes. Recommended for use in KLEEMANN cone crushers MCO 9 EVO and MCO 11 PRO.	20 l	2483282
		208 l	2483283
WIRTGEN GROUP Special Gear Oil	Special all-synthetic high-performance gear oil for HAMM vibratory bearings and drum drives, VÖGELE pump splitter gearboxes and advance drives and KLEEMANN advance drives. Extremely resistant to pressure and temperature. Note: Must not be mixed with mineral gear oil. Must not be used for WIRTGEN milling drum gearboxes.	5 l	1238051
		20 l	2065037
		208 l	2065038
WIRTGEN GROUP High-Performance Gear Oil VG 150	Exclusive all-synthetic gear oil designed for heavy-duty use in WIRTGEN milling drum gearboxes. Extremely resistant to pressure and temperature. Note: Never mix with mineral gear oil. Must not be used for HAMM vibratory bearings and drum drives.	5 l	2173019
		20 l	199752
		208 l	2120829
WIRTGEN GROUP High-Performance Gear Oil VG 220	Exclusive all-synthetic gear oil designed for heavy-duty use in WIRTGEN milling drum gearboxes and KLEEMANN belt and bevel gearboxes. Extremely resistant to pressure and temperature. Note: Never mix with mineral gear oil. Must not be used for HAMM vibratory bearings and drum drives.	5 l	2170074
		20 l	2065033
		208 l	2065034
WIRTGEN GROUP High-Performance Gear Oil VG 460	Exclusive all-synthetic gear oil designed for heavy-duty use in WIRTGEN hot recyclers and S-Pack binding agent dosing unit. Note: Never mix with mineral gear oil. Must not be used for HAMM vibratory bearings and drum drives.	5 l	2461524
		20 l	2120830

Due to possible technical changes, please always compare with the information in the instruction manual.

ORIGINAL WIRTGEN GROUP

LUBRICANTS IN DETAIL

Grease			
Designation	Description	Container	Part No.
WIRTGEN GROUP Multipurpose Moly Grease	Highly refined black multipurpose grease for a wide range of lubricating jobs, such as on link pins and wheel bearings. State-of-the-art additive technology makes this product particularly suitable for use in conditions subject to impacts and vibration.	400 g	2065035
WIRTGEN GROUP High-Performance Grease	Premium multipurpose grease for use in WIRTGEN GROUP machines, e.g. in clutches and WIRTGEN remixers. It is particularly suitable for use under high temperatures and high loads.	400 g	47259
WIRTGEN GROUP High-Performance Grease KLEEMANN	Grease for KLEEMANN screen mounts.	400 g	M10021195
WIRTGEN GROUP Friction and Roller Bearing Grease	Exclusive grease for lubricating rolling and plain bearings exposed to high temperatures in VÖGELE machines.	18 kg	2027868
		12 x 400 g	2086136
WIRTGEN GROUP Telescoping Tube Grease	Special high-performance grease based on silicone for use on VÖGELE telescoping tubes.	100 g	2086137
WIRTGEN GROUP Low-Viscosity Grease	Thermally stable, high-performance low-viscosity grease with exceptional wear-resistance properties for VÖGELE auger drives.	5 kg	2050152
WIRTGEN GROUP Drum Bearing Grease	Exclusive grease for lubricating HAMM drum bearings. Extremely resistant to temperature and pressure.	1 kg	1205757
WIRTGEN GROUP Drive Bearing Grease	Special high-performance grease for use in HAMM drive bearings. Extremely resistant to pressure and water-repellent.	1 kg	1227114
WIRTGEN GROUP Quick-Change Toolholder Grease	Lubricant for greasing the WIRTGEN quick-change toolholder.	480 g	2310279
WIRTGEN GROUP Cone Moly Grease	Special high-performance grease for use in KLEEMANN cone crushers.	400 g	2342967

Other			
Designation	Description	Container	Part No.
WIRTGEN GROUP Asphalt Anti Stick	Perfect solution for HAMM rubber and combined wheel rollers: It prevents adhesion of the bitumen on the rubber tyres. The emulsion is based on a non-toxic solution and is thus rapidly biodegradable.	5 l	2117378
		20 l	2117379
WIRTGEN GROUP Antifreezing Compound	Coolants, anti-freeze and anti-corrosion agents. Note: Do not use 09WR (WR 200) or for KLEEMANN units.	5 l	2173022
		20 l	2173023
		208 l	2173024
WIRTGEN GROUP Antifreezing Compound MB	Coolants, anti-freeze and anti-corrosion agents for Mercedes Benz diesel engines; only for 09WR (WR 200).	210 l	2301878
WIRTGEN GROUP Antifreezing Compound KLEEMANN	Coolants, anti-freeze and anti-corrosion agents for KLEEMANN units	20 l	2535933
WIRTGEN GROUP Silicone Transformer Liquid	DOW transformer oil can be used in the magnetic separator in KLEEMANN systems.	20 l	2346389
AdBlue®	32.5% high-purity urea solution in compliance with AUS 32.	10 l	2434706
		210 l	2090870

Due to possible technical changes, please always compare with the information in the instruction manual.



ONLY THE BEST LUBRICANTS FOR YOUR MACHINE



THE QUICK WAY TO ORIGINAL WIRTGEN GROUP LUBRICANT AND FILTER PRODUCTS

You can benefit from our online service at www.partsandmore.net to find the perfect product for your machine. In just a few steps, you can, for instance, select suitable lubricants, filter elements and filter and maintenance packages - clearly laid out and including all the relevant details.

You order - we deliver promptly. The ideal tool to support you efficiently in your daily work.

PLEASE REFER TO: WWW.PARTSANDMORE.NET

OUR
SERVICE
FOR YOU



ALWAYS UP-TO-DATE, INCLUDING ON MOBILE DEVICES

Complete flexibility: in the office, on the move or out on the jobsite - our new service tool is very userfriendly and convenient to operate, including on mobile devices such as tablets and smartphones.



ORIGINAL WIRTGEN GROUP SMART SERVICE

OUR SERVICE IS SMART

WIRTGEN GROUP SmartService offers you reliable support to ensure your machines retain their value. Benefit from the advantages of our service package such as cost-effectiveness, minimisation of machine downtimes, value retention, comfort and safety.

In combination with WITOS® FleetView*, we are offering for the first time a telematics-based service that sets new standards in terms of prevention, responsiveness and efficiency.

OUR TAILOR-MADE SERVICE AGREEMENTS FOR YOUR MACHINES





+ WITOS® FleetView*

- > Proactive maintenance planning
- > Faster response times in the event of faults
- > Current location and status information for your machines

SmartService

- > Professional maintenance in accordance with operating instructions (incl. filters, lubricants, work time and travel expenses)
- > Visual inspection
- > Check and report on wear
- > Software updates
- > Safety check in line with accident prevention regulations

SmartService

- > Professional maintenance in accordance with operating instructions (incl. filters, lubricants, work time and travel expenses)
- > Visual inspection
- > Check and report on wear
- > Software updates
- > Safety check in line with accident prevention regulations

**INTERESTED? PLEASE CONTACT OUR
SALES AND SERVICE COMPANY.**



WITOS® FLEET VIEW RETROFIT KITS






The table shows you for which machines the WIRTGEN Road Technologies WITOS® FleetView is already available as a retrofit kit.












For information on additional retrofit kits, please contact your WIRTGEN GROUP sales and service company.

Machine type	Model	Series range	Cable set	WITOS® FleetView 3 years (EU)	WITOS® FleetView 3 years (Non-EU)
			Part No.	Part No.	Part No.
W 50 Ri	1505	0025 - 9999		2344688	2483436
W 100 Fi, W 120 Fi, W 130 Fi	1310	0264 - 9999		2344688	2483436
W 100 CFi, W 120 CFi, W 130 CFi	1810	0001 - 9999		2344688	2483436
W 150i	0613	0061 - 9999		2344688	2483436
W 200	1220	0001 - 9999	2470503	2344688	2483436
W 200i	1420	0001 - 0084	2470503	2344688	2483436
		0085 - 9999		2344688	2483436
W 200 Hi	1720	0001 - 0022	2470503	2344688	2483436
		0023 - 9999		2344688	2483436
W 210	1320	0006 - 9999	2470503	2344688	2483436
W 210i	1520	0001 - 0112	2470503	2344688	2483436
		0113 - 9999		2344688	2483436
W 220	0522	0001 - 0056	2470503	2344688	2483436
		0057 - 9999		2344688	2483436
W 250	0422	0003 - 9999	2470503	2344688	2483436
W 250i	0622	0001 - 0016	2470503	2344688	2483436
		0017 - 9999		2344688	2483436
WR 200	06WR	0001 - 9999	2381420	2344688	2483436
WR 200i	09WR	0001 - 9999		2344688	2483436
WR 240	07WR	0001 - 9999	2381420	2344688	2483436
WR 240i	10WR	0001 - 0055	2381420	2344688	2483436
		0056 - 9999		2344688	2483436
WR 250	08WR	0001 - 0038	2381420	2344688	2483436
		0039 - 9999		2344688	2483436
SP 15i	14SP	0025 - 9999		2344688	2483436
SP 25i	15SP	0025 - 9999		2344688	2483436
SP 90i	21SP	0001 - 9999		2344688	2483436

THE NAME THAT STANDS FOR WORLD-FAMOUS PAVERS



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ORIGINAL VÖGELE

CORE COMPETENCE PAVING TECHNOLOGY

Screeds are the core element in every road paver. VÖGELE provides screeds in two different designs.

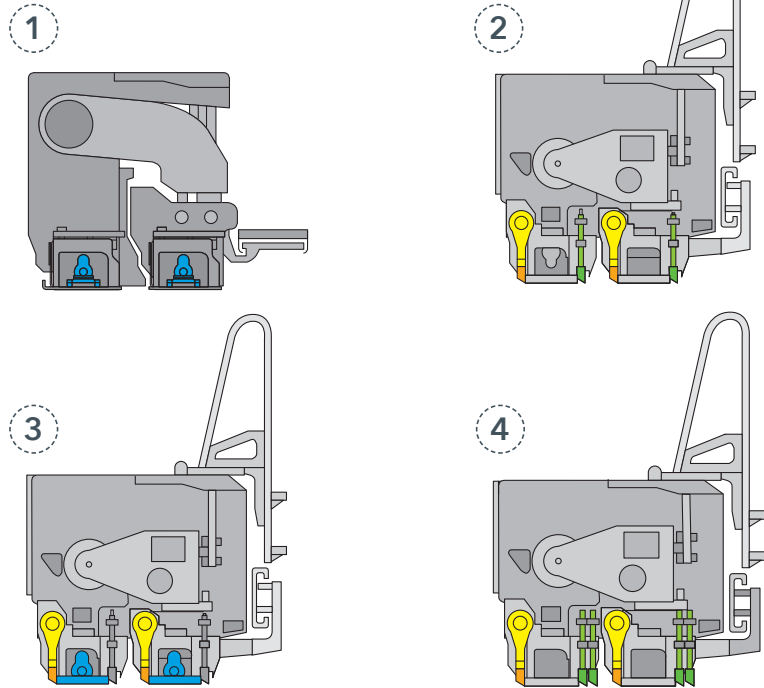
An **extending screed (AB)** enables to create varying pave widths between 1.1 m and 10 m. Its advantage is enormous flexibility for different pave widths.

Fixed-width screeds (SB) are mainly used for long-term building projects with constant, large pave widths and large radii since they are able to manage pave widths between 2.5 m and 16 m using additional screed attachments.

As a basic rule, the screed smoothly compacts the material over the whole pave width, thus producing a close-textured structure and an even surface.

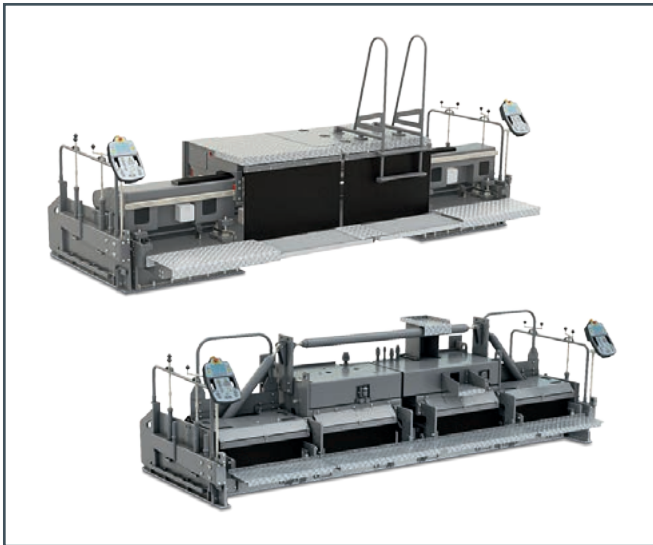
The screed's compacting systems are intended to provide the greatest possible pre-compaction, so that varying layer thickness has less effect on the extent of compaction by rolling during final compaction. There are different compacting systems available for compaction.

Compacting systems of extending screeds



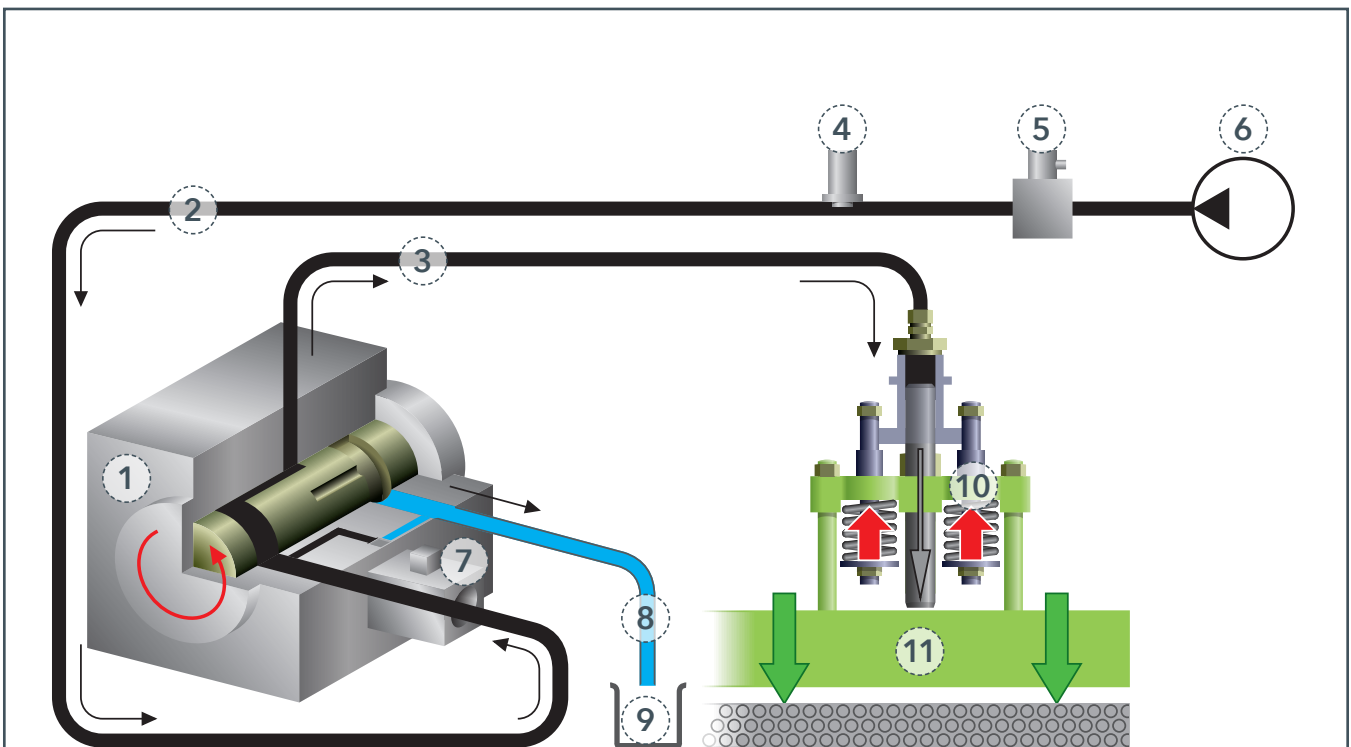
- 1 > V: Vibrators
- 2 > TP1: Tamper und one pressure bar
- 3 > TV: Tamper and vibrators
- 4 > TP2 (Plus): Tamper and two pressure bars

Compacting system abbreviation	Description
T (Tamper)	An eccentric shaft causes the tamper bar to move up and down.
V (Vibration)	Vibrations are generated by an eccentric shaft acting on the screed plates at right angles to the direction of motion.
P (Pressure bar)	The pressure bars are hydraulically pressed onto the material at a frequency of 68 Hz (approx.) and a maximum pressure of 130 bar.
P1	Screed equipped with one pressure bar
P2	Screed equipped with two pressure bars
Plus	Screed equipped with two pressure bars, modified tamper geometry and additional weights in the screed frame



HIGH COMPACTION METHOD OF OPERATION

A pulse generator generates a pulsating pressure via the pressure bars. During this process, the pump provides a constant flow which is interrupted by the pulse generator's rotating movement. The flow is interrupted about 68 times a second based on the pre-set rpm. Thereby the pressure bar is pressed downwards at about 68 Hz and it is pulled up again by the spring assembly. The pressure bar needs at least 40 bar to overcome the spring force. The pressure can be read using the pressure sensor in the machine's lateral console and can be set using an electrically adjustable pressure control valve.



- | | | |
|------------------------------|----------------------------|--------------------------|
| 1 > Rotating pulse generator | 5 > Pressure loading valve | 9 > Tank |
| 2 > Constant flow rate | 6 > Gear pump | 10 > Suspension assembly |
| 3 > Pulsating flow rate | 7 > Pressure setting | 11 > Pressure bar |
| 4 > Pressure sensor | 8 > Return flow | |

ORIGINAL VÖGELE PRESSURE ROLLERS

The push rolls at the front of the paver take the highest loads.

This mainly concerns the moment when a truck with asphalt drives onto these to supply the machine with new material during the paving process.

VÖGELE ensures in the selection of the bearings that they demonstrate the highest quality features, so that smooth rotation of the wheels of the truck is ensured, and that the filling process is not adversely affected in any way.



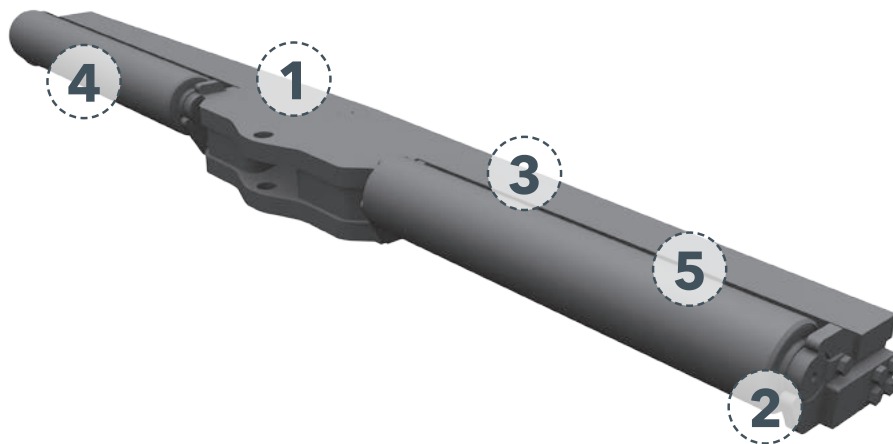
1 *The overall system of the push roller is designed for maximum loads.*

2 *The inner bearings offer the best possible quality and long service life.*

3 *The pendulum suspension allows for easy start-up of trucks during the curve paving.*

4 *The push roller protects the asphalt pattern and the machine from collisions.*

5 *Sprung push rollers **PaveDock** reliably absorb all jolts of the feed vehicle on "-3" machines.*





Machine type	Model	Series range	Designation	Qty.	Part No.	Designation	Qty.	Part No.
SUPER 700, SUPER 800	0790	0010 - 9999	Round steel	2	2005914	Bearing	4	2005836
SUPER 700-3(i), SUPER 800-3(i)	0890	0010 - 9999	Round steel	2	2005914	Bearing	4	2005836
SUPER 1100-2, SUPER 1300-2	0811	0010 - 9999	Round steel	2	2005914	Bearing	4	2005836
SUPER 1103-2, SUPER 1303-2	0911	0010 - 9999	Round steel	2	2005914	Bearing	4	2005836
SUPER 1100-3(i), SUPER 1300-3(i)	1011	0010 - 9999	Round steel	2	2005914	Bearing	4	2005836
SUPER 1103-3(i), SUPER 1303-3(i)	1111	0010 - 9999	Round steel	2	2005914	Bearing	4	2005836
SUPER 1800, SUPER 1804	0668, 0669	0010 - 9999	Pipe	2	4617303289	Axle	2	4601032200
			Bearing	4	9538100625	Lid	4	4604132209
SUPER 1900, SUPER 2100	0619	0010 - 9999	Pipe	2	4617305243	Axle	2	4601032333
			Bearing	4	2240570	Lid	4	4604132599
SUPER 1600-1, SUPER 1800-1	0782, 0982	0010 - 9999	Pipe	2	4617305243	Axle	2	4601032333
			Bearing	4	2240570	Lid	4	4604132599
SUPER 1603-1, SUPER 1803-1	0783	0010 - 9999	Pipe	2	4617305243	Axle	2	4601032333
			Bearing	4	2240570	Lid	4	4604132599
SUPER 1600-2, SUPER 1800-2 (SJ)	1182	0010 - 9999	Pipe	2	2040320	Axle	2	2041091
			Bearing	4	2240570	Lid	4	4604132599
SUPER 1603-2, SUPER 1803-2	0883	0010 - 9999	Pipe	2	2040320	Axle	2	2041091
			Bearing	4	2240570	Lid	4	4604132599
SUPER 1900-2, SUPER 2100-2	0719	0010 - 9999	Pipe	2	2040320	Axle	2	2041091
			Bearing	4	2240570	Lid	4	4604132599
SUPER 2100-2 IP	0719	0727 - 9999	Pipe	2	2040320	Axle	2	2041091
			Bearing	4	2240570	Lid	4	4604132599
SUPER 1600-3(i)	1582	0010 - 9999	Pipe	2	2182537	Axle	2	2182538
			Bearing	4	2240570	Lid	4	2182539
SUPER 1603-3(i)	1183	0010 - 9999	Pipe	2	2182537	Axle	2	2182538
			Bearing	4	2240570	Lid	4	2182539
SUPER 1800-3(i), SUPER 1800-3(i) SJ	1482	0010 - 9999	Pipe	2	2182537	Axle	2	2182538
			Bearing	4	2240570	Lid	4	2182539
SUPER 1803-3(i)	1083	0010 - 9999	Pipe	2	2182537	Axle	2	2182538
			Bearing	4	2240570	Lid	4	2182539



ORIGINAL VÖGELE PRESSURE ROLLERS

Machine type	Model	Series range	Designation	Qty.	Part No.	Designation	Qty.	Part No.
SUPER 1900-3(i), SUPER 2100-3(i)	0819	0010 - 9999	Pipe	2	2182537	Axle	2	2182538
			Bearing	4	2240570	Lid	4	2182539
SUPER 2000-3(f)	1174	0010 - 9999	Pipe	2	2320937	Axle	2	2320960
			Bearing	4	2240570	Lid	4	2182539
SUPER 2003-3(f)	0975	0010 - 9999	Pipe	2	2320937	Axle	2	2320960
			Bearing	4	2240570	Lid	4	2182539
SUPER 2500	0674	0001 - 0010	Pipe	2	4617304380	Axle	2	4601032294
			Bearing	4	9506200625	Lid	4	4604132512
		0011 - 9999	Pipe	2	4617304507	Axle	2	4601032333
			Bearing	4	9506200625	Lid	4	4604132523
SUPER 3000-2	0874	0010 - 9999	Pipe	2	2118444	Axle	2	2118447
			Bearing	4	9506200625	Lid	4	2118449
VISION 5100-2	1382	0010 - 9999	Pipe	2	2040320	Axle	2	2041091
			Bearing	4	2240570	Lid	4	4604132599
VISION 5103-2	0983	0010 - 9999	Pipe	2	2040320	Axle	2	2041091
			Bearing	4	2240570	Lid	4	4604132599
VISION 5200-2	0774	0010 - 9999	Pipe	2	2054010	Axle	2	2054006
			Bearing	4	2240570	Lid	4	4604132599
VISION 5200-2(i)	0974	0010 - 9999	Pipe	2	2054010	Axle	2	2054006
			Bearing	4	2240570	Lid	4	4604132599
VISION 5203-2	0775	0010 - 9999	Pipe	2	2054010	Axle	2	2054006
			Bearing	4	2240570	Lid	4	4604132599
VISION 5203-2(i)	0875	0010 - 9999	Pipe	2	2054010	Axle	2	2054006
			Bearing	4	2240570	Lid	4	4604132599
MT 1000-1	01MT	0017 - 9999	Pipe	2	4617303289	Axle	2	4601032200
			Bearing	4	9538100625	Lid	4	4604132209
MT 3000-2	0761	0010 - 9999	Pipe	2	2145859	Axle	2	2145868
			Bearing	4	2240570	Lid	4	4604132599

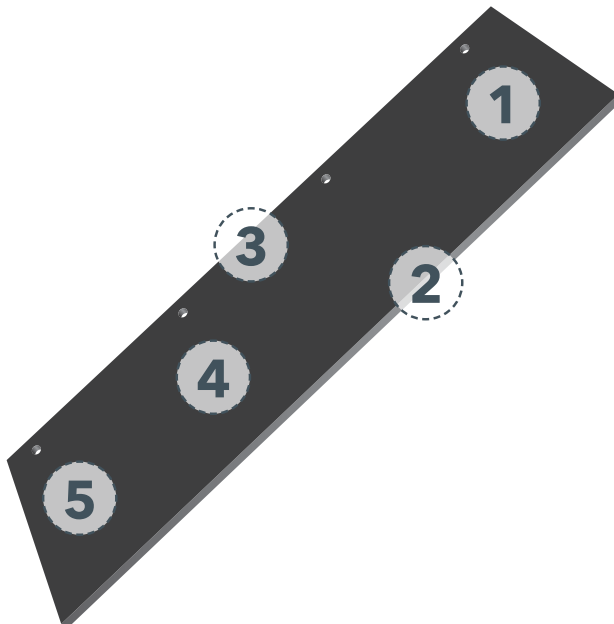
MATERIAL HOPPER RUBBERS



The Original VÖGELE material hopper rubbers are designed to fit all machines and guarantee absolute fitting accuracy.

This ensures that no material falls out in front when filling the paver with asphalt, but remains in the hopper of the machine. This guarantees the availability of material from the hopper via the material distribution to the screed.

They also protect the push rolls with a clean edge and can be changed in an instant.



1 *The exactly fitting material hopper rubber baffles prevent the escape of asphalt.*

2 *Steel inserts strengthen the rubbers and ensure their stability.*

3 *The hopper rubber baffles protect the complete push roller the best way.*

4 *The material hopper rubber baffles are matched to the type of machine.*

5 *Screw connections allow for quick and easy exchange.*

ORIGINAL VÖGELE

MATERIAL HOPPER RUBBERS

Machine type	Model	Series range	Scraper rubber left and right		Scraper rubber middle		Rubber right	Rubber left
			Quantity	Part No.	Quantity	Part No.	Part No.	Part No.
SUPER 700, SUPER 800	0790	0010 - 9999	2	2025844	1	2025841*		2027092***
SUPER 700-3(i), SUPER 800-3(i)	0890	0010 - 9999	2	2379941	1	2025841		2396068***
SUPER 1100-2, SUPER 1300-2	0811	0010 - 9999	2	2048231	1	2048234*		
SUPER 1103-2, SUPER 1303-2	0911	0010 - 9999	2	2048231	1	2052454*		
SUPER 1100-3(i), SUPER 1300-3(i)	1011	0010 - 9999	2	2048231	1	2048234*		
SUPER 1103-3(i), SUPER 1303-3(i)	1111	0010 - 9999	2	2048231	1	2048234*		
SUPER 1800	0668	0010 - 9999	2	4601112239				
SUPER 1804	0669	0010 - 9999	2	4601112239				
SUPER 1900, SUPER 2100	0619	0005 - 9999	2	4601112202	1	4601112215*		
SUPER 1600-1, SUPER 1800-1	0782, 0982	0010 - 9999	2	4601112253	1	4601112254*		
SUPER 1603-1, SUPER 1803-1	0783	0010 - 9999	2	4601112253	1	4601112254*		
SUPER 1600-2, SUPER 1800-2	1182	0010 - 9999	2	4601112253	1	4601112254*		
SUPER 1800-2 SJ	1182	1414 - 9999	2	2082175***	1	2101422***		
SUPER 1603-2, SUPER 1803-2	0883	0010 - 9999	2	4601112253	1	4601112254*		
SUPER 1900-2, SUPER 2100-2	0719	0010 - 9999	2	4601112202	1	4601112215*		
SUPER 2100-2 IP	0719	0727 - 9999	2	4601112202	1	4601112215*	2x 2038429	2x 2038429
							2x 2038431	2x 2038431
SUPER 1600-3(i)	1582	0010 - 9999	2	2267786*	1	4601112254*		
			2	2267692**	1	2267686**		
SUPER 1603-3(i)	1183	0010 - 9999	2	2267786*	1	4601112254*		
			2	2267692**	1	2267686**		

* only with mechanical inlet flap · ** with hydraulical inlet flap · *** only with asymmetric hopper



Machine type	Model	Series range	Scraper rubber left and right		Scraper rubber middle		Rubber right	Rubber left
			Quantity	Part No.	Quantity	Part No.	Part No.	Part No.
SUPER 1800-3(i), SUPER 1800-3(i) SJ	1482	0010 - 9999	2	2267786*	1	4601112254*		
			2	2267692**	1	2267686**		
SUPER 1803-3(i)	1083	0010 - 9999	2	2267786*	1	4601112254*		
			2	2267692**	1	2267686**		
SUPER 1900-3(i), SUPER 2100-3(i)	0819	0010 - 9999	2	2183421* 2213268**	1	4601112215* 2212906**		
SUPER 2000-3(i)	1174	0010 - 9999	2	2427961	1	2212906		
SUPER 2003-3(i)	0975	0010 - 9999	2	2427961	1	2212906		
SUPER 2500	0674	0010 - 9999	2	4601112241				
SUPER 3000-2	0874	0010 - 9999	2	2120400	1	2119569		
VISION 5200-2	0774	0010 - 0067			1	2078090	2078100	2078108
		0068 - 9999			1	2078090	2102838	2102839
VISION 5203-2	0775	0010 - 0057			1	2078090	2078100	2078108
		0058 - 9999			1	2078090	2102838	2102839
VISION 5100-2	1382	0010 - 9999	2	2108835	1	2087710	2108798	2108798
VISION 5103-2	0983	0010 - 9999	2	2108835	1	2087621	2115367	2115367
VISION 5200-2(i)	0974	0010 - 9999			1	2078090	2102838	2102839
VISION 5203-2(i)	0875	0010 - 9999			1	2078090	2102838	2102839
MT 1000-1	01MT	0017 - 0020	2	4601112274	1	4601112273		
		0021 - 0071	2	2004195	1	4601112273		
		0072 - 9999	2	2107999	1	4601112273		
MT 3000-2	0761	0010 - 9999					2182307	2182289

* only with mechanical inlet flap · ** with hydraulic inlet flap · *** only with asymmetric hopper

ORIGINAL VÖGELE

SERVICE PACKAGES FOR MATERIAL HOPPERS

Original VÖGELE service packages for material hoppers ensuring perfect feed and conveyance of mix

The service package includes all wearing parts for the material hopper such as floor plates, centre and lateral guards as well as mounting materials.



1 *The floor plates provide a residue-free travel.*

2 *The centre and side conveyor covers protect the conveyor track from wear.*

3 *The complete mounting hardware simplifies installation.*

4 *The material handling system ensures a precisely metered mix and great paving results.*

5 *High-quality materials such as Hardox used at the base plates ensures minimal wear values.*





Machine type	Model	Series range	Service package for material hoppers	
			with hydraulic hopper front	with mechanical hopper front
SUPER 700, SUPER 800	0790	0010 - 9999		2085994
SUPER 700-3(i), SUPER 800-3(i)	0890	0010 - 9999		2085994
SUPER 1100-2, SUPER 1300-2	0811	0010 - 9999		2084782
SUPER 1103-2, SUPER 1303-2	0911	0010 - 9999		2085982
SUPER 1100-3(i), SUPER 1300-3(i)	1011	0010 - 0067		2084782
		0068 - 0127		2401558
		0128 - 9999		2392233
SUPER 1103-3(i), SUPER 1303-3(i)	1111	0010 - 0124		2085982
		0125 - 9999		2392183
SUPER 1800	0668	0010 - 0240		4617500052
		0241 - 9999		4617500053
SUPER 1804	0669	0010 - 0060		4617500052
		0061 - 0100		4617500054
		0101 - 9999		4617500055
SUPER 1900, SUPER 2100	0619	0010 - 9999	4617500093	4617500094
SUPER 1600-1, SUPER 1800-1	0782, 0982	0010 - 0025	2013188	2013187
		0026 - 9999	2031620	2031619
SUPER 1603-1, SUPER 1803-1	0783	0010 - 0018	2013188	2013187
		0019 - 9999	2031620	2031619
SUPER 1600-2, SUPER 1800-2 (SJ)	1182	0010 - 9999	2031620	2031619
SUPER 1603-2, SUPER 1803-2	0883	0010 - 9999	2031620	2031619
SUPER 1900-2, SUPER 2100-2	0719	0010 - 9999	2041452	2041453
SUPER 2100-2 IP	0719	0727 - 9999	2041452	2041453
SUPER 1600-3(i)	1582	0010 - 9999	2368957	2368951
SUPER 1603-3(i)	1183	0010 - 9999	2369421	2369420
SUPER 1800-3(i) SJ	1482	0010 - 9999	2355960	2355880
SUPER 1803-3(i)	1083	0010 - 9999	2355960	2355880
SUPER 1900-3(i), SUPER 2100-3(i)	0819	0010 - 9999	2269373	2269356
SUPER 2000-3(f)	1174	0010 - 9999	2446062	
SUPER 2003-3(f)	0975	0010 - 9999	2446062	
SUPER 2500	0674	0010 - 9999		4617500057
SUPER 3000-2	0874	0010 - 9999	2164939	2164939
VISION 5100-2	1382	0010 - 9999		2144458
VISION 5103-2	0983	0010 - 9999		2144451
VISION 5200-2	0774	0010 - 9999		2091446
VISION 5200-2(i)	0974	0010 - 9999		2091446
VISION 5203-2	0775	0010 - 9999		2091446
VISION 5203-2(i)	0875	0010 - 9999		2091446

ORIGINAL VÖGELE

SERVICE PACKAGES FOR CONVEYOR TRACKS

The conveyor chains with feeder bars are preassembled for quick replacement.

A preassembled unit includes two conveyor chains with feeder bars, bolts and closing links.

To replace the conveyor return pulleys VÖGELE offers only materials that are designed for a long service life. This includes beside the return pulleys, all bearings, wear and retaining rings.



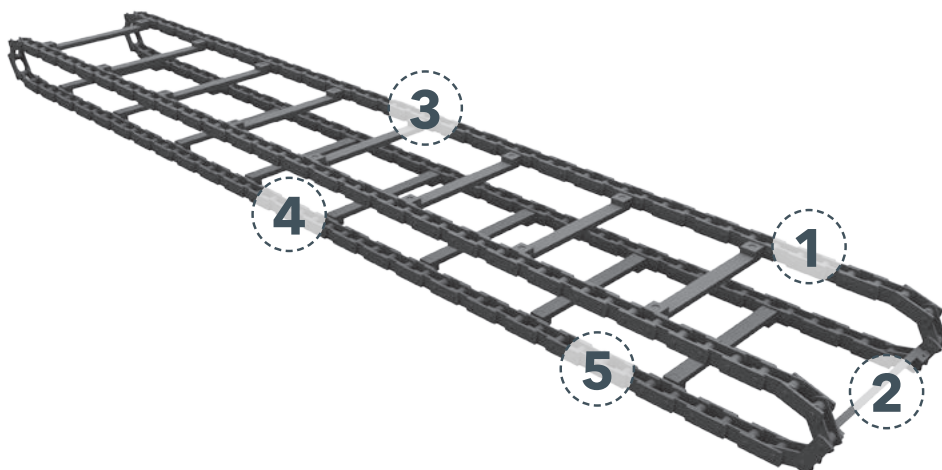
1 Reinforced tracks also withstand high loads.

2 The conveyor bars are fastened to the conveyor track and provide in the overall system the necessary stability.

3 The conveyor tracks are made of heavy-duty steel to achieve the best wear resistance of these highly stressed parts.

4 Our service packages ensure a quick and easy assembly and disassembly.

5 The conveyor tracks offer a precision fit.





Machine type	Model	Series range	Quantity	Part No.
SUPER 700, SUPER 800	0790	0010 - 9999	1	2045812
SUPER 700-3(i), SUPER 800-3(i)	0890	0010 - 9999	1	2045812
SUPER 1100-2, SUPER 1300-2	0811	0010 - 9999	2	2046350
SUPER 1103-2, SUPER 1303-2	0911	0010 - 9999	2	2052796
SUPER 1100-3(i), SUPER 1300-3(i)	1011	0010 - 9999	2	2046350
SUPER 1103-3(i), SUPER 1303-3(i)	1111	0010 - 9999	2	2052796
SUPER 1800	0668	0010 - 9999	2	4610312118
SUPER 1804	0669	0010 - 9999	2	4610312118
SUPER 1900, SUPER 2100	0619	0010 - 9999	2	2135833
SUPER 1600-1, SUPER 1800-1	0782, 0982	0010 - 9999	2	2135839
SUPER 1603-1, SUPER 1803-1	0783	0010 - 9999	2	2135839
SUPER 1600-2, SUPER 1800-2 (SJ)	1182	0010 - 9999	2	2135839
SUPER 1603-2, SUPER 1803-2	0883	0010 - 9999	2	2135839
SUPER 1900-2, SUPER 2100-2	0719	0010 - 9999	2	2135833
SUPER 2100-2 IP	0719	0727 - 9999	2	2135833
SUPER 1600-3(i)	1582	0010 - 9999	2	2135838
SUPER 1603-3(i)	1183	0010 - 9999	2	2135839
SUPER 1800-3(i), SJ	1482	0010 - 9999	2	2135839
SUPER 1803-3(i)	1083	0010 - 9999	2	2135839
SUPER 1900-3(i), SUPER 2100-3(i)	0819	0010 - 9999	2	2135833
SUPER 2000-3(f)	1174	0010 - 9999	2	2135833
SUPER 2003-3(f)	0975	0010 - 9999	2	2135833
SUPER 2500	0674	0010 - 9999	2	4610312150
SUPER 3000-2	0874	0010 - 9999	2	2120082
VISION 5100-2	1382	0010 - 9999	2	2135838
VISION 5103-2	0983	0010 - 9999	2	2135840
VISION 5200-2	0774	0010 - 9999	2	2135844
VISION 5200-2(i)	0974	0010 - 9999	2	2135844
VISION 5203-2	0775	0010 - 9999	2	2135844
VISION 5203-2(i)	0875	0010 - 9999	2	2135844

ORIGINAL VÖGELE

SERVICE PACKAGES FOR RETURN SHEAVES FOR CONVEYORS

This service package is made up of all you need for an exchange of your conveyor's return sheaves including roller bearings, wearing rings and retaining rings.

The parts are made of highly wear-resistant materials, thus ensuring long service lives.



Machine type	Model	Series range	Quantity	Part No.
SUPER 700, SUPER 800	0790	0010 - 9999	1	2037584
SUPER 700-3(i), SUPER 800-3(i)	0890	0010 - 9999	1	2037584
SUPER 1100-2, SUPER 1300-2	0811	0010 - 9999	1	2086375
SUPER 1103-2, SUPER 1303-2	0911	0010 - 9999	1	2086375
SUPER 1100-3(i), SUPER 1300-3(i)	1011	0010 - 9999	1	2086375
SUPER 1103-3(i), SUPER 1303-3(i)	1111	0010 - 9999	1	2086375
SUPER 1800	0668	0010 - 9999	1	4617500068
SUPER 1804	0669	0010 - 9999	1	4617500068
SUPER 1900, SUPER 2100	0619	0010 - 9999	1	2013205
SUPER 1600-1, SUPER 1800-1	0782	0010 - 9999	1	2013205
SUPER 1603-1, SUPER 1803-1	0783	0010 - 9999	1	2013205
SUPER 1600-2, SUPER 1800-2 (SJ)	1182	0010 - 9999	1	2013205
SUPER 1603-2, SUPER 1803-2	0883	0010 - 9999	1	2013205
SUPER 1900-2, SUPER 2100-2	0719	0010 - 9999	1	2013205
SUPER 2100-2 IP	0719	0727 - 9999	1	2013205
SUPER 1600-3(i)	1582	0010 - 9999	1	2013205
SUPER 1603-3(i)	1183	0010 - 9999	1	2013205
SUPER 1800-3(i), SJ	1482	0010 - 9999	1	2013205
SUPER 1803-3(i)	1083	0010 - 9999	1	2013205
SUPER 1900-3(i), SUPER 2100-3(i)	0819	0010 - 9999	1	2013205
SUPER 2000-3(f)	1174	0010 - 9999	1	2013205
SUPER 2003-3(f)	0975	0010 - 9999	1	2013205
SUPER 2500	0674	0010 - 9999	1	2057984
SUPER 3000-2	0874	0010 - 9999	1	2013205
VISION 5100-2	1382	0010 - 9999	1	2013205
VISION 5103-2	0983	0010 - 9999	1	2013205
VISION 5200-2	0774	0010 - 9999	1	2091319
VISION 5200-2(i)	0974	0010 - 9999	1	2091319
VISION 5203-2	0775	0010 - 9999	1	2091319
VISION 5203-2(i)	0875	0010 - 9999	1	2091319



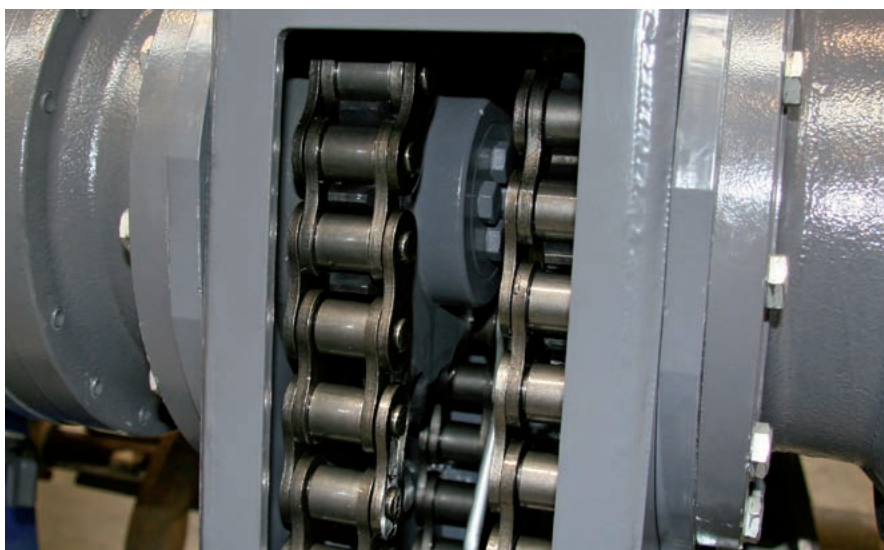
**SUPER-SERIES:
PERFECT PAVING QUALITY
AND RELIABLE OPERATION**

ORIGINAL VÖGELE

CHAIN WHEELS AND ROLLER CHAINS FOR AUGER DRIVES

VÖGELE chain wheels and roller chains are made of highly wear resistant materials and for manufacture tight tolerance requirements exist.

They ensure optimal transmission of power, smooth running and low wear. As a result, powerful conveyance of mix is guaranteed and a long service life.



Machine type	Model	Series range	Chain wheel at the gear		Roller chain	
			Quantity	Part No.	Quantity	Part No.
SUPER 700, SUPER 800	0790	0010 - 9999	1	2031792	1	2014115
SUPER 700-3(i), SUPER 800-3(i)	0890	0010 - 9999	2	2031792	2	2375497
SUPER 1100-2, SUPER 1300-2	0811	0010 - 0665	2	4610062263	2	2044060
		0666 - 9999	2	2365227	2	3301193066
SUPER 1103-2, SUPER 1303-2	0911	0010 - 0567	2	4610062263	2	2044060
		0568 - 9999	2	2365227	2	3301193066
SUPER 1100-3(i), SUPER 1300-3(i)	1011	0010 - 0095	2	461062263	2	2044060
		0096 - 9999	2	2365227		3301193066
SUPER 1103-3(i), SUPER 1303-3(i)	1111	0010 - 0099	2	4610062263	2	2044060
		0100 - 9999	2	2365227	2	3301193066
SUPER 1800	0668	0010 - 0270	2	4610062187	2	3301100054
		0271 - 0558	2	4610062190	2	3301100054
		0559 - 9999	2	4610062217	2	3301100054
SUPER 1804	0669	0010 - 0100	2	4610062187	2	3301100052
		0101 - 9999	2	4610062190	2	3301100052



Machine type	Model	Series range	Chain wheel at the gear		Roller chain	
			Quantity	Part No.	Quantity	Part No.
SUPER 1900, SUPER 2100	0619	0010 - 9999	2	4610062246	2	3301120048
SUPER 1600-1	0782, 0982	0010 - 9999	2	4610062220	2	2026963
SUPER 1800-1	0782, 0982	0010 - 9999	2	4610062175	2	2026963
SUPER 1603-1, SUPER 1803-1	0783	0010 - 9999	2	4610062220	2	2026963
SUPER 1600-2, SUPER 1800-2 (SJ)	1182	0010 - 9999	2	4610062220	2	2026906
SUPER 1603-2, SUPER 1803-2	0883	0010 - 9999	2	4610062220	2	2026906
SUPER 1900-2, SUPER 2100-2, IP	0719	0010 - 9999	2	4610062246	2	3301120048
SUPER 1600-3(i)	1582	0010 - 9999	2	2313254	2	3301120056
SUPER 1603-3(i)	1183	0010 - 9999	2	2313254	2	3301120056
SUPER 1800-3(i), SJ	1482	0010 - 9999	2	2313254	2	2026906
SUPER 1803-3(i)	1083	0010 - 9999	2	2313254	2	2026906
SUPER 1900-3(i), SUPER 2100-3(i)	0819	0010 - 9999	2	2225825	2	2026906
SUPER 2000-3(f)	1174	0010 - 9999	2	2225691	2	3301120062
SUPER 2003-3(f)	0975	0010 - 9999	2	2225691	2	3301120062
SUPER 2500	0674	0010 - 9999	2	4610062209*	2	3301230030
			2	4610062208**		
		0011 - 9999	2	4610062209*	2	3301230032
			2	4610062214**		
SUPER 3000-2	0874	0010 - 0032	2	2115834	2	2118129
		0033 - 9999	2	2362677		
VISION 5100-2	1382	0010 - 9999	2	4610062220	2	3301120056
VISION 5103-2	0983	0010 - 9999	2	4610062220	2	3301120062
VISION 5200-2	0774	0010 - 9999	2	4610062220	2	2052638
VISION 5200-2(i)	0974	0010 - 9999	2	4610062220	2	2052638
VISION 5203-2	0775	0010 - 9999	2	4610062220	2	2052638
VISION 5203-2(i)	0875	0010 - 9999	2	4610062220	2	2052638

* Driving shaft · ** Gear

ORIGINAL VÖGELE

DRIVING SHAFTS FOR CONVEYORS

Original VÖGELE driving shafts for conveyors to ensure efficient transmission of power and perfect conveyance of mix.

Made of a material resistant to severe strain and thanks to manufacture for which tolerances are extremely tight, VÖGELE driving shafts stand out through remarkably long service lives even in tough continuous operation.

Our kit includes preassembled driving shafts. No time-consuming preassembly needs to be done at your end.



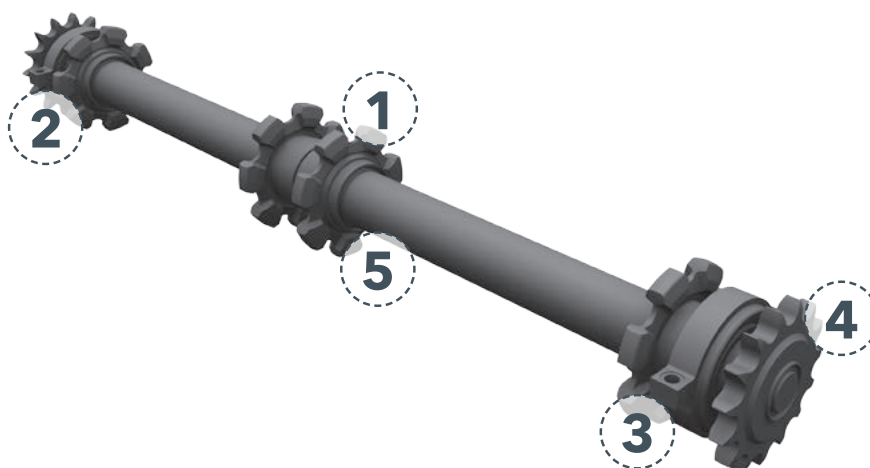
1 *The drive shafts provide an optimal guide of the conveyor tracks.*

2 *Easy access to the drive shafts facilitates maintenance services.*

3 *Heavy-duty material with tight manufacturing tolerances ensure long life.*

4 *The conveyor drive shaft allows reversing (reverse) of the conveyor.*

5 *The massive construction ensures a quiet run of the drive shaft.*

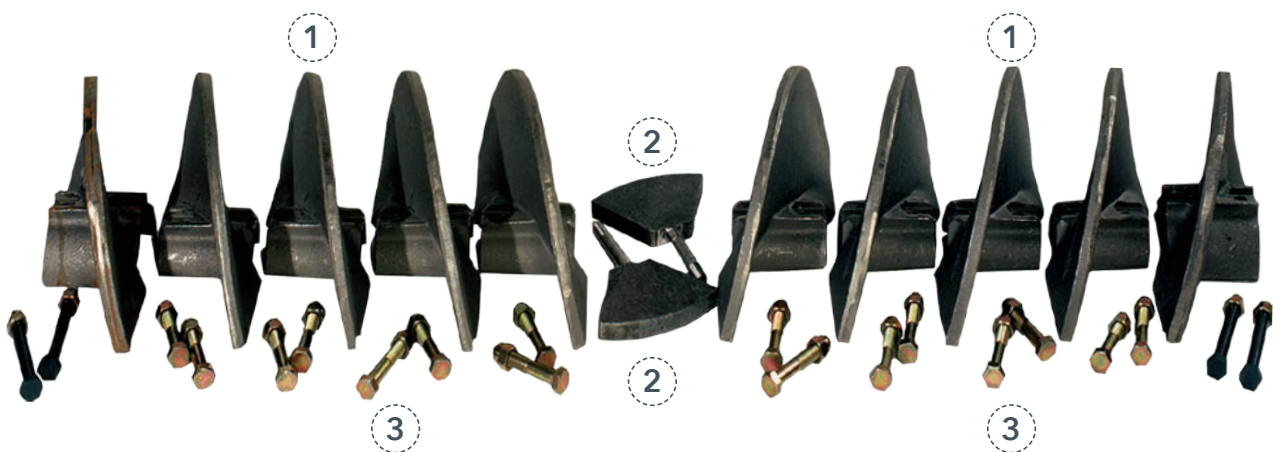
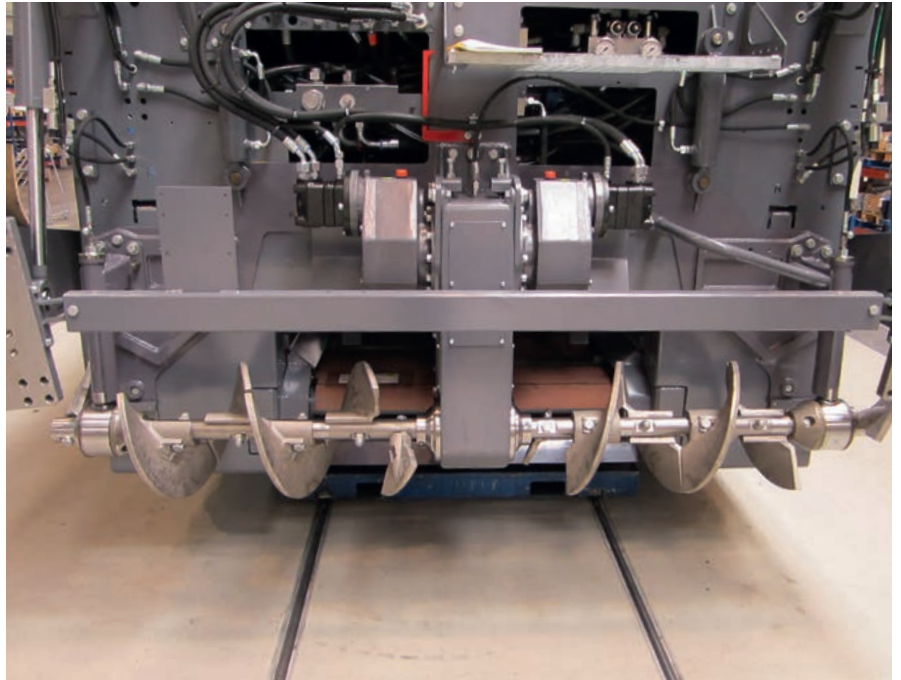




Machine type	Model	Series range	Drive shaft for conveyors	
			left	right
SUPER 700, SUPER 800	0790	0010 - 9999	2086138	
SUPER 700-3(i), SUPER 800-3(i)	0890	0010 - 9999	2086138	
SUPER 1100-2, SUPER 1300-2	0811	0010 - 9999	2086230	2085818
SUPER 1103-2, SUPER 1303-2	0911	0010 - 9999	2086201	2086184
SUPER 1100-3(i), SUPER 1300-3(i)	1011	0010 - 9999	2086230	2085818
SUPER 1103-3(i), SUPER 1303-3(i)	1111	0010 - 9999	2086201	2086184
SUPER 1800	0668	0010 - 9999	4622082022	4622082022
SUPER 1804	0669	0010 - 9999	4622082022	4622082022
SUPER 1900, SUPER 2100	0619	0010 - 9999	4622082826	4622082826
SUPER 1600-1, SUPER 1800-1	0782, 0982	0010 - 9999	4622082829	4622082829
SUPER 1603-1, SUPER 1803-1	0783	0010 - 9999	4622082829	4622082829
SUPER 1600-2, SUPER 1800-2 (SJ)	1182	0010 - 9999	4622082829	4622082829
SUPER 1603-2, SUPER 1803-2	0883	0010 - 9999	4622082829	4622082829
SUPER 1900-2, SUPER 2100-2	0719	0010 - 9999	4622082826	4622082826
SUPER 2100-2 IP	0719	0727 - 9999	4622082826	4622082826
SUPER 1600-3(i)	1582	0010 - 9999	4622082829	4622082829
SUPER 1603-3(i)	1183	0010 - 9999	4622082829	4622082829
SUPER 1800-3(i), SJ	1482	0010 - 9999	4622082829	4622082829
SUPER 1803-3(i)	1083	0010 - 9999	4622082829	4622082829
SUPER 1900-3(i), SUPER 2100-3(i)	0819	0010 - 9999	4622082826	4622082826
SUPER 2000-3(f)	1174	0010 - 9999	4622082826	4622082826
SUPER 2003-3(f)	0975	0010 - 9999	4622082826	4622082826
SUPER 2500	0674	0010 - 9999	2026049	2026049
SUPER 3000-2	0874	0010 - 9999	2164930	2164930
VISION 5100-2	1382	0010 - 9999	4622082829	4622082829
VISION 5103-2	0983	0010 - 9999	2087424	2087424
VISION 5200-2	0774	0010 - 9999	4622082826	4622082826
VISION 5200-2(i)	0974	0010 - 9999	4622082826	4622082826
VISION 5203-2	0775	0010 - 9999	4622082826	4622082826
VISION 5203-2(i)	0875	0010 - 9999	4622082826	4622082826

ORIGINAL VÖGELE SERVICE PACKAGES FOR AUGER BLADES

Our service package, tailored to your augers in basic screed width, includes a set of auger blades complete with bolts and nuts. In other words, all you need for complete or partial exchange.



- 1 > Auger blade left and right
- 2 > Paddle for exterior
- 3 > Mounting material



Machine type	Model	Series range	Part No.
SUPER 700, SUPER 800	0790	0010 - 9999	2178498 (left) 2178495 (right)
SUPER 700-3(i), SUPER 800-3(i)	0890	0010 - 9999	2178498 (left) 2178495 (right)
SUPER 1100-3(i), SUPER 1300-3(i)	1011	0010 - 9999	2403347
SUPER 1103-3(i), SUPER 1303-3(i)	1111	0010 - 9999	2403347
SUPER 1800	0668	0010 - 0375	2013194
		0376 - 9999	2013195
SUPER 1804	0669	0010 - 9999	2013194
SUPER 1600-1, SUPER 1800-1	0782, 0982	0010 - 9999	2013195
SUPER 1603-1, SUPER 1803-1	0783	0010 - 9999	2013195
SUPER 1600-2, SUPER 1800-2 (SJ)	1182	0010 - 9999	2013195
SUPER 1603-2, SUPER 1803-2	0883	0010 - 9999	2013195
SUPER 1600-3(i)	1582	0010 - 9999	2013195
SUPER 1603-3(i)	1183	0010 - 9999	2013195
SUPER 1800-3(i), SJ	1482	0010 - 9999	2355876
SUPER 1803-3(i)	1083	0010 - 9999	2355876
SUPER 1900	0619	0010 - 9999	2013196
SUPER 1900-2	0719	0010 - 9999	2013196
SUPER 1900-3(i)	0819	0010 - 9999	2013196
SUPER 2000-3(f)	1174	0010 - 9999	2013196
SUPER 2003-3(f)	0975	0010 - 9999	2013196
SUPER 2100	0619	0010 - 9999	2013197
SUPER 2100-2, SUPER 2100-2 IP	0719	0010 - 9999	2013197
SUPER 2100-3(i)	0819	0010 - 9999	2013197
SUPER 2100-3 HD(i)	0819	0010 - 9999	2271756
SUPER 2500	0674	0010 - 9999	2013198
SUPER 3000-2	0874	0010 - 0032	2164933
		0033 - 9999	2342656
SUPER 3000-2 HD	0874	0010 - 9999	2342656
VISION 5100-2	1382	0010 - 9999	2013195
VISION 5103-2	0983	0010 - 9999	2013195
VISION 5200-2	0774	0010 - 9999	2091414
VISION 5203-2	0775	0010 - 9999	2091414
VISION 5203-2(i)	0875	0010 - 9999	2091414

ORIGINAL VÖGELE

SERVICE PACKAGES FOR AUGER BLADES FOR AUGER EXTENSION

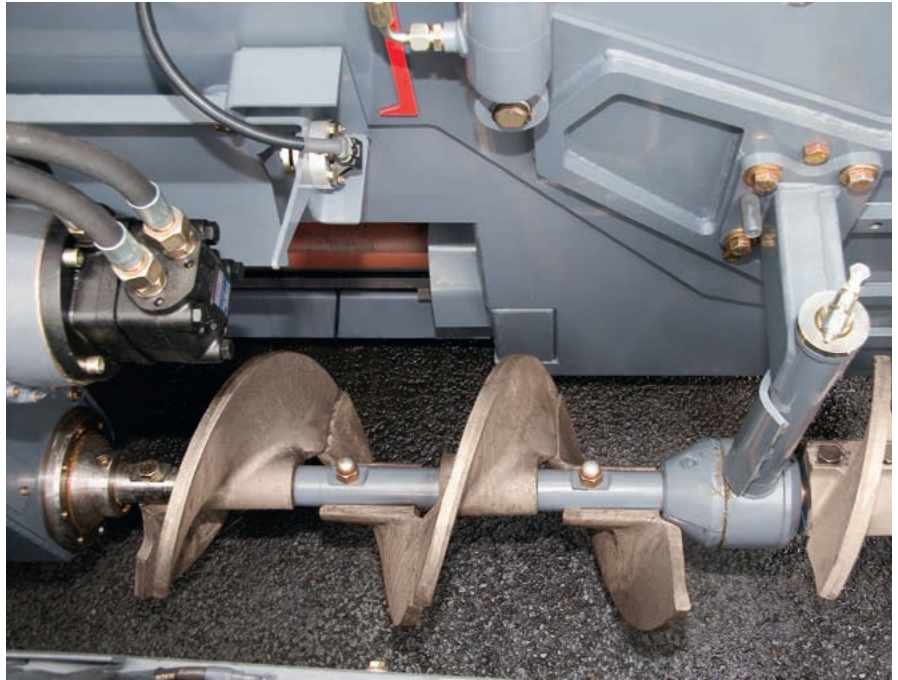
Machine type	Model	Series range	2x 0.65 m	2x 1.0 m	up to 4.6 m (2x 1.045 m)	4.6 m - 7.1 m (2x 2.305 m)	7.1 m - 9.7 m (2x 2.305 m)	10.7 m - 14.3 m (2x 2.305 m)	3x 1 ft, pluggable
SUPER 1600-1, SUPER 1800-1	0782, 0982	0010 - 9999			2432624	2432658			
SUPER 1603-1, SUPER 1803-1	0783	0010 - 9999			2432624				
SUPER 1600-2, SUPER 1800-2 (SJ)	1182	0010 - 9999	2432398	2432450	2432624				
SUPER 1603-2, SUPER 1803-2	0883	0010 - 9999	2432398	2432450	2432624				
SUPER 1600-3(i)	1582	0010 - 9999	2432448	2432450					
SUPER 1603-3(i)	1183	0010 - 9999	2432448	2432450					
SUPER 1800-3(i), SJ	1482	0010 - 9999	2432398	2432450	2432624	2432658			
SUPER 1803-3(i)	1083	0010 - 9999	2432398	2432450	2432624				
SUPER 1900-2	0719	0010 - 9999	2432398	2432450	2432624				
SUPER 1900-3(i)	0819	0010 - 9999	2432398	2432450	2432624	2432658			
SUPER 2000-3(f)	1174	0010 - 9999	2432398	2432450	2432624				2446119
SUPER 2003-3(f)	0975	0010 - 9999	2432398	2432450	2432624				2446119
SUPER 2100-2, SUPER 2100-2 IP	0719	0010 - 9999	2432398	2432450	2432631	2432666	2432666		
SUPER 2100-2	0919	0010 - 9999	2432398	2432450	2432631	2432666	2432666		
SUPER 2100-3(i)	0819	0010 - 9999	2432398	2432450	2432631	2432661	2432666		
SUPER 2100-3(i) HD	0819	0010 - 9999	2432809	2432828	2432839	2432876	2432880		
SUPER 3000-2	0874	0010 - 0032	2432398	2432450	2432631	2432650	2432666	2432696	
		0033 - 9999	2432702	2432814	2432835	2432880	2432880	2432880	
SUPER 3000-2 HD	0874	0010 - 9999	2432702	2432814	2432835	2432880	2432880	2432880	
VISION 5100-2	1382	0010 - 9999	2432448	2432614					
VISION 5103-2	0983	0010 - 9999	2432448	2432614					
VISION 5200-2	0774	0010 - 9999	2432448	2432614	2432624				
VISION 5200-2(i)	0974	0010 - 9999	2432448	2432614	2432624				
VISION 5203-2	0775	0010 - 9999	2432448	2432614	2432624				
VISION 5203-2(i)	0875	0010 - 9999	2432448	2432614	2432624				



**VÖGELE MACHINES
ENSURE UNINTERRUPTED
PAVING**

ORIGINAL VÖGELE SERVICE PACKAGES FOR AUGERS

The service package includes all parts you need for your augers in basic screed width: from auger shafts and auger blades through to bearings, drive chains and chain wheels. In other words, all you need for complete or partial exchange of your augers.



1 > Paddle

2 > Covers with bearing block (outer bearing block)

3 > Drive track wheel on gear and mounting material

4 > Further mounting material

5 > Track lock

6 > Auger blade

7 > Drive tracks

8 > Drive track wheel on shaft

9 > Auger shaft



Machine type	Model	Series range	Part No.
SUPER 700, SUPER 800	0790	0010 - 0014	2211984
		0015 - 9999	2198659
SUPER 700-3(i), SUPER 800-3(i)	0890	0010 - 9999	2198659
SUPER 1100-2, SUPER 1300-2	0811	0010 - 0329	2204813
		0330 - 0543	2198699
		0544 - 9999	2259296
SUPER 1103-2, SUPER 1303-2	0911	0010 - 0331	2204813
		0332 - 0461	2198699
		0462 - 9999	2259296
SUPER 1100-3(i), SUPER 1300-3(i)	1011	0010 - 9999	2356555
SUPER 1103-3(i), SUPER 1303-3(i)	1111	0010 - 9999	2356555
SUPER 1800	0668	0010 - 0240	4617500087
		0241 - 0375	4617500088
		0376 - 9999	4617500085
SUPER 1804	0669	0010 - 0100	4617500087
		0101 - 0298	4617500088
		0299 - 9999	4617500089
SUPER 1900	0619	0010 - 0525	4617500097
		0526 - 9999	2013206
SUPER 2100	0619	0010 - 0525	4617500098
		0526 - 9999	2013207
SUPER 1600-1	0782	0010 - 0118	2013189
		0119 - 9999	2032089
SUPER 1600-1	0982	0010 - 9999	2032089
SUPER 1603-1, SUPER 1803-1	0783	0010 - 0113	2013189
		0114 - 9999	2032089
SUPER 1800-1	0782	0010 - 0118	2146796
		0119 - 9999	2091731
SUPER 1800-1	0982	0010 - 9999	2091731
SUPER 1600-2	1182	0010 - 9999	2204847
SUPER 1603-2, SUPER 1803-2	0883	0010 - 9999	2204847
SUPER 1800-2 (SJ)	1182	0010 - 9999	2198422
SUPER 1900-2	0719	0010 - 9999	2198311
SUPER 2100-2	0719	0010 - 9999	2198287
SUPER 2100-2 IP	0719	0727 - 9999	2198287
SUPER 1600-3(i)	1582	0010 - 9999	2368969
SUPER 1603-3(i)	1183	0010 - 9999	2368969
SUPER 1800-3(i), SJ	1482	0010 - 9999	2355964
SUPER 1803-3(i)	1083	0010 - 9999	2355964
SUPER 1900-3(i)	0819	0010 - 9999	2269380
SUPER 2000-3(f)	1174	0010 - 9999	2449373
SUPER 2003-3(f)	0975	0010 - 9999	2449373
SUPER 2100-3(i)	0819	0010 - 9999	2269382
SUPER 2100-3 HD(i)	0819	0010 - 9999	2271754
SUPER 2500	0674	0010 - 9999	4617500092
SUPER 3000-2	0874	0010 - 0032	2164964
		0033 - 9999	2409908
SUPER 3000-2 HD	0874	0010 - 0032	2342644
		0033 - 9999	2409908
VISION 5100-2	1382	0010 - 9999	2172217
VISION 5103-2	0983	0010 - 9999	2172217
VISION 5200-2	0774	0010 - 9999	2091796
VISION 5200-2(i)	0974	0010 - 9999	2091796
VISION 5203-2	0775	0010 - 9999	2091796
VISION 5203-2(i)	0875	0010 - 9999	2091796

ORIGINAL VÖGELE

SENSORS FOR FEED OF MIX OF THE AUGERS

For auger drives, proportional control is provided. When working in automatic mode, speeds of augers are precisely controlled to match the current laydown rate.

The level of mix is picked up as standard by mechanical sensors.

- > Sensors for augers are located in the auger tunnel at the extreme ends of the screed.
- > Actual values picked up by the sensors are passed on continuously to regulate auger drives.
- > Proportional control is provided for the separate drives (left and right sides), i.e. speeds of augers adapt automatically to the actual levels of mix.
- > This ensures uniform spreading of the mix in front of the screed.
- > The use of sensors is easy on your drives and economical.

For pick-up of actual values, sonic sensors are available as an option:

- > Level of mix picked up more accurately by sonic technology.
- > Non-contacting operation, thus no wear.





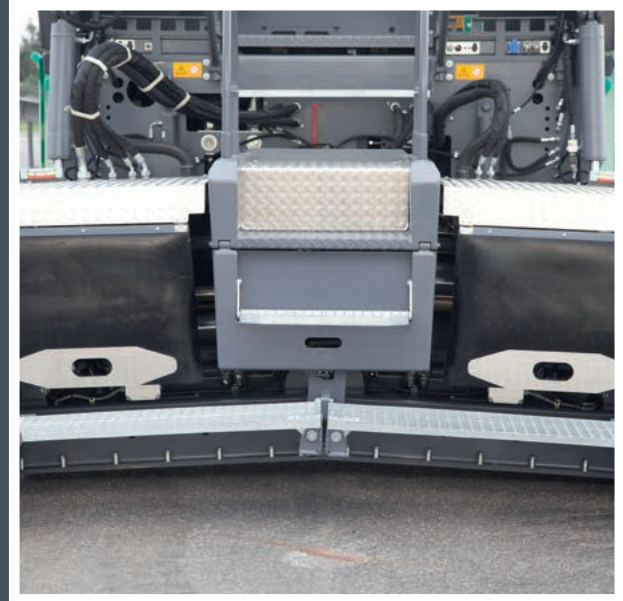
Machine type	Model	Series range	Mechanical sensor		Ultrasonic sensor		
			left	right	left	right	Spiral cable
SUPER 800	0790	0010 - 9999	2028964	2028964	2013495	2013495	2035353
SUPER 700-3(i), SUPER 800-3(i)	0890	0010 - 9999	2028964	2028964	2484809	2484809	2321132
SUPER 1100-2, SUPER 1300-2	0811	0010 - 9999	2042420	2042420	2013496	2013496	2028733
SUPER 1103-2, SUPER 1303-2	0911	0010 - 9999	2042420	2042420	2013496	2013496	2028733
SUPER 1100-3(i), SUPER 1300-3(i)	1011	0010 - 9999	2042420	2042420	2013496	2013496	2028733
			2319502	2319504			
SUPER 1103-3(i), SUPER 1303-3(i)	1111	0010 - 9999	2042420	2042420	2013496	2013496	2028733
			2319502	2319504			
SUPER 1800	0668	0010 - 9999	2454130025	2454130026	2454130057	2454130057	2460770063
SUPER 1804	0669	0010 - 9999	2454130025	2454130026	2454130057	2454130057	2460770063
SUPER 1900, SUPER 2100	0619	0010 - 0994	2454130070	2454130071	2454130067	2454130067	2460770070
		0995 - 9999	2454130070	2454130071	2013496	2013496	2460770070
SUPER 1600-1, SUPER 1800-1	0782	0010 - 0302	2454130070	2454130071	2454130067	2454130067	2460770070
		0303 - 9999	2454130070	2454130071	2013496	2013496	2460770070
SUPER 1600-1 EP, SUPER 1800-1 EP	0982	0010 - 9999	2032512	2032513	2013496	2013496	2028733
SUPER 1603-1, SUPER 1803-1	0783	0010 - 0238	2454130070	2454130071	2454130067	2454130067	2460770070
		0239 - 9999	2454130070	2454130071	2013496	2013496	2460770070
SUPER 1600-2, SUPER 1800-2 (SJ)	1182	0010 - 9999	2032512	2032513	2013496	2013496	2028733
SUPER 1603-2, SUPER 1803-2	0883	0010 - 9999	2032512	2032513	2013496	2013496	2028733
SUPER 1900-2, SUPER 2100-2	0719	0010 - 9999	2032512	2032513	2013496	2013496	2028733
SUPER 2100-2 IP	0719	0727 - 9999	2032512	2032513	2013496	2013496	2028733
SUPER 1600-3(i)	1582	0010 - 9999	2032512	2032513	2484809	2484809	2284323
SUPER 1603-3(i)	1183	0010 - 9999	2032512	2032513	2484809	2484809	2284323
SUPER 1800-3(i), SJ	1482	0010 - 9999	2032512	2032513	2484809	2484809	2284323
SUPER 1803-3(i)	1083	0010 - 9999	2032512	2032513	2484809	2484809	2284323
SUPER 1900-3(i)	0819	0010 - 9999	2032512	2032513	2484809	2484809	2284323
SUPER 2000-3(f)	1174	0010 - 9999			2343348	2343348	2028733
SUPER 2003-3(f)	0975	0010 - 9999			2343348	2343348	2028733
SUPER 2100-3(i)	0819	0010 - 9999	2032512	2032513	2484809	2484809	2284323
SUPER 2500	0674	0010 - 9999	2454130070	2454130071	2454130067	2454130067	2460770070
SUPER 3000-2	0874	0010 - 9999	2032512	2032513	2013496	2013496	2028733
VISION 5100-2	1382	0010 - 9999			2343348	2343348	2028733
VISION 5103-2	0983	0010 - 9999			2343348	2343348	2028733
VISION 5200-2	0774	0010 - 9999			2343348	2343348	2028733
VISION 5200-2(i)	0974	0010 - 9999			2343348	2343348	2028733
VISION 5203-2	0775	0010 - 9999			2343348	2343348	2028733
VISION 5203-2(i)	0875	0010 - 9999			2343348	2343348	2028733

ORIGINAL VÖGELE COVER RUBBERS FOR SCREEDS

The Original VÖGELE cover rubbers are available for every paver type.

The covers are designed so that they ensure optimum protection against every type of soiling of the screed components (e.g. chains and sprockets for the fine adjustment of the screed).

This also ensures that the time requirement for the maintenance of these components is reduced to a minimum.



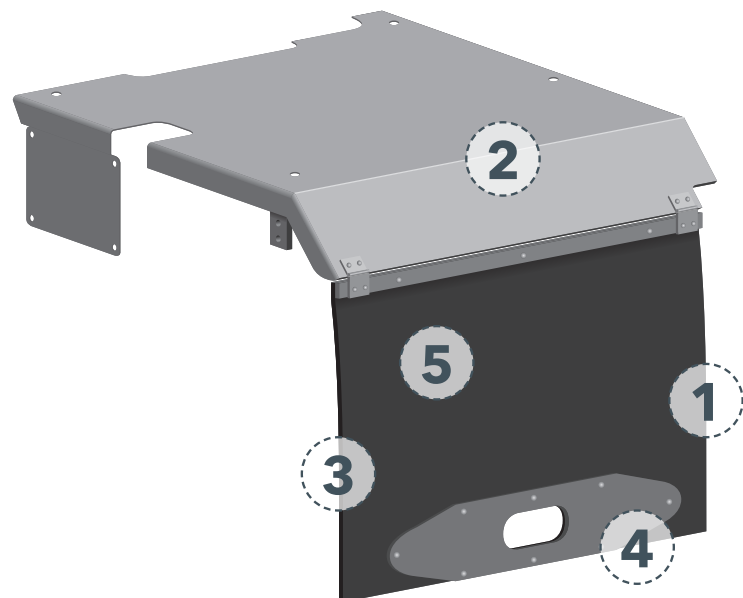
1 *The entire rubber cover protects the machine operator from accidents the best way.*

2 *The cover prevents dirt from entering the screed area.*

3 *The thickness of the rubber covers minimises the noise level considerably.*

4 *Depending on the screed type, the steel strut reinforces the protective strip.*

5 *Optionally, cat's eyes can minimise the risk of accidents through better visibility on the cover.*





Screed type	Model	Series range	Cover rubbers for screeds				
			right	middle	left	Offset right	Offset left
AB 340 V, TV	13AB	0010 - 9999	2061052	2062043	2061052	2061044	2061044
AB 340-3	27AB	0010 - 9999	2288003		2288003	2241887	2241885
AB 500 TV, TP	10AB	0010 - 0022	4601350102		4601350101		
		0023 - 0125	4601350156		4601350155		
		0126 - 9999	4601350156		4601350155	4601350188	4601350187
AB 500-2 TV	14AB	0010 - 9999	2038479		2038478		
AB 500-2 TP	15AB	0010 - 9999	2038479		2038478		
AB 500-3 TV	23AB	0010 - 9999	2278337		2278336		
AB 500-3 TP	24AB	0010 - 9999	2278337		2278336		
AB 600 TV, TP	11AB	0010 - 9999	2002517		2002516		
AB 600-2 TV	16AB	0010 - 9999	2061004		2060987		
AB 600-2 TP	17AB	0010 - 9999	2061004		2060987		
AB 600-3 TV	25AB	0010 - 9999	2278648		2278635		
AB 600-3 TP	26AB	0010 - 9999	2278648		2278635		
VF 500-2 V	18AB	0010 - 9999	2180735		2180732		
VF 600-2 V	19AB	0010 - 9999	2223213		2223210		
VR 600-2 V	20AB	0010 - 9999	2218031		2218027		
SB 250	02SB	0010 - 9999	4601350147		4601350146		
SB 250-2	05SB	0010 - 9999	4601350147		4601350146		
SB 300	03SB	0010 - 9999	4601350147		4601350146		
SB 300-2	06SB	0010 - 9999	4601350145		4601350144		



TAMPER SHIELDS AND SPRING STEEL STRIPS

The tamper shields are designed to direct the mix under the screed.

By the mix in the auger tunnel, high forces are exerted on the screed. Therefore, highest demands are made on the tamper shields in terms of resistance to wear and rigidity. VÖGELE tamper shields perfectly meet these demands.

The spring steel strips - which can of course be changed separately - have the task of elastically sealing the tamper bar against the tamper shield.



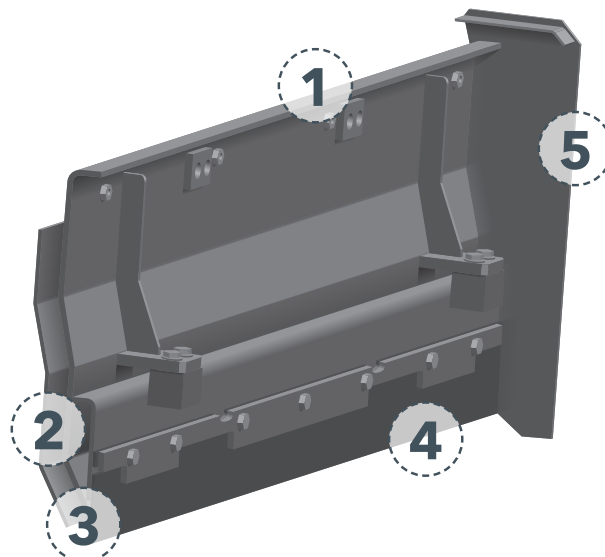
1 *The tamper shield* guides the mix perfectly under the screed due to its form-fit.

2 *Depending on the tamper shield* the material feed changes.

3 *The spring steel strip* seals the front wall to the tamper bar as good as possible, and thus prevents the ingress of the material to be mixed.

4 *With its high-quality materials*, the spring steel strip provides a long service life.

5 *Replacing the entire tamper shields* works faster than the respective individual parts.





Screed type	Model	Series range	Designation	Basic screed		Extending screed	
				left	right	left	right
AB 200 V	12AB	0010 - 0546	Tamper shield	2024451	2024496	2024387	2024401
		0547 - 9999	Tamper shield	2060051	2060054	2060032	2060045
AB 200 TV	12AB	0010 - 0331	Tamper shield complete*	2024057	2024194	2023966	2023994
			Spring steel strip	2024039	2024189	2023957	2023957
		0332 - 9999	Tamper shield complete*	2049967	2049969	2023966	2023994
			Spring steel strip	2024039	2024189	2023957	2023957
AB 220-3 V	28AB	0010 - 9999	Tamper shield	2370881	2371113	2370845	2370847
AB 220-3 TV	28AB	0010 - 9999	Tamper shield complete*	2339754	2339755	2340247	2340248
			Spring steel strip	2369784	2370371	2370536	2370536
AB 340 V	13AB	0010 - 9999	Tamper shield	2060956	2060954	2060856	2060837
AB 340 TV	13AB	0010 - 9999	Tamper shield complete*	2044090	2044112	2044030	2044057
			Spring steel strip	2044084	2044106	2044026	2044026
AB 340-3 V	27AB	0010 - 9999	Tamper shield complete	2095330	2095343	2095354	2095363
AB 340-3 TV	27AB	0010 - 9999	Tamper shield complete*	2235893	2236062	2236151	2236392
			Spring steel strip	2044084	2044106	2044026	2044026
AB 500	10AB	0010 - 9999	Tamper shield complete*	4621300001	4621300002	4621300003	4621300004
			Spring steel strip	4615106688	4615106688	4615106688	4615106688
AB 500-2	14AB, 15AB	0010 - 9999	Tamper shield complete*	2037329	2037330	2037331	2037332
			Spring steel strip	2027338	2027338	2027338	2027338
AB 500-3	23AB, 24AB	0010 - 9999	Tamper shield complete*	2037329	2037330	2037331	2037332
			Spring steel strip	2027338	2027338	2027338	2027338
AB 600	11AB	0010 - 9999	Tamper shield complete*	4621300007	4621300008	4621300009	4621300010
			Spring steel strip	4615106730	4615106730	4615106730	4615106730
AB 600-2	16AB, 17AB	0010 - 9999	Tamper shield complete*	2051960	2052156	2052239	2052261
			Spring steel strip	2052396	2052396	2052396	2052396
AB 600-3	25AB, 26AB	0010 - 9999	Tamper shield complete*	2051960	2052156	2052239	2052261
			Spring steel strip	2052396	2052396	2052396	2052396
VR 600-2 V	18AB	0010 - 9999	Tamper shield, no berm	2128686	2128690	2123232	2127228
VF 500-2 V	19AB	0010 - 9999	Tamper shield, no berm	2180975	2180930	2181087	2181090
VF 600-2 V	20AB	0010 - 9999	Tamper shield, no berm	2144092	2143326	2148567	2148545
SB 250	02SB	0010 - 0275	Tamper shield	4602433581	4602433582		
		0276 - 0436	Tamper shield	4602434552	4602434553		
		0437 - 9999	Tamper shield complete*	2009720	2009721		
			Spring steel strip	4615106722	4615106722		
SB 250-2	05SB	0010 - 9999	Tamper shield complete*	2124064	2124367		
			Spring steel strip	2123414	2123414		
SB 300	03SB	0010 - 0331	Tamper shield	4602433054	4602433055		
		0332 - 0403	Tamper shield	4602434557	4602434558		
		0404 - 9999	Tamper shield complete*	2009722	2009723		
			Spring steel strip	2000202	2000202		
SB 300-2	06SB	0010 - 9999	Tamper shield complete*	2124565	2124916		
			Spring steel strip	2123526	2123526		

* Tamper shield complete includes the steel strip

TAMPER SHIELDS AND SPRING STEEL STRIPS

Screed type	Model	Series range	Bolt-on extension (m)	Designation	Bolt-on extension	
					left	right
AB 200 V	12AB	0010 - 0546	0.35	Tamper shield	2028413	2028521
		0547 - 9999			2060000	2060027
		0010 - 9999	0.60	Tamper shield	2059991	2059988
AB 200 TV	12AB	0010 - 9999	0.35	Tamper shield complete*	2028280	2028493
				Spring steel strip	2028278	2028278
			0.60	Tamper shield complete*	2030895	2030910
				Spring steel strip	2030896	2030896
AB 220-3 V	28AB	0010 - 9999	0.50	Tamper shield	2375495	2375501
AB 220-3 TV	28AB	0010 - 9999	0.50	Tamper shield complete*	2374813	2374892
				Spring steel strip	2374772	2374772
AB 340 V	13AB	0010 - 9999	0.40	Tamper shield	2060871	2060864
AB 340 TV	13AB	0010 - 9999	0.40	Tamper shield complete*	2051297	2051343
				Spring steel strip	2051294	2051294
			0.55	Tamper shield complete*	2047572	2047885
				Spring steel strip	2047521	2047521
AB 340-3 V	27AB	0010 - 9999	0.25 V	Tamper shield complete*	2183885	2183889
			0.40	Tamper shield complete*	2135058	2135172
AB 340-3 TV	27AB	0010 - 9999	0.25 T	Tamper shield complete*	2158539	2158763
				Spring steel strip	2047521	2047521
			0.55	Tamper shield complete*	2047572	2047885
				Spring steel strip	2047521	2047521
0.80	Tamper shield complete*	2066902	2067040			
	Spring steel strip	2066900	2066900			
AB 500, AB 600	10AB, 11AB	0010 - 9999	0.225	Tamper shield complete*	4621300006	4621300006
				Spring steel strip	4615106726	4615106726
			0.75	Tamper shield complete*	4621300005	4621300005
				Spring steel strip	4615106692	4615106692
			1.25	Tamper shield complete*	4621300011	4621300011
				Spring steel strip	4615106734	4615106734
AB 500-2, AB 600-2	14AB, 15AB, 16AB, 17AB	0010 - 9999	0.25	Tamper shield complete*	2041072	2041073
				Spring steel strip	2041081	2041081
			0.75	Tamper shield complete*	2043402	2043403
				Spring steel strip	2038330	2038330
			1.25	Tamper shield complete*	2038065	2038065
				Spring steel strip	2038077	2038077
AB 500-3, AB 600-3	23AB, 24AB, 25AB, 26AB	0010 - 9999	0.25	Tamper shield complete*	2041072	2041073
				Spring steel strip	2041081	2041081
			0.75	Tamper shield complete*	2043402	2043403
				Spring steel strip	2038330	2038330
			1.25	Tamper shield complete*	2038065	2038065
				Spring steel strip	2038077	2038077
VR 600-2 V	18AB	0010 - 9999	0.65	Tamper shield	2124827	2126821
VF 500-2 V	19AB	0010 - 9999	0.305	Tamper shield	2169597	2169597
			0.61	Tamper shield	2171347	2171347
VF 600-2 V	20AB	0010 - 9999	0.305	Tamper shield	2169597	2169597
			0.61	Tamper shield	2171347	2171347

* Tamper shield complete includes the steel strip



Screed type	Model	Series range	Bolt-on extension (m)	Designation	Bolt-on extension	
					left	right
SB 250	02SB	0010 - 0275	0.25	Tamper shield	4602433265	4602433266
		0276 - 0436		Tamper shield	4602434535	4602434536
		0437 - 9999		Tamper shield complete*	2009724	2009727
				Spring steel strip	4615106598	4615106598
		0010 - 0275	0.50	Tamper shield	4602433075	4602433075
		0276 - 0436		Tamper shield	4602434561	4602434561
		0437 - 9999		Tamper shield complete*	2009728	2009728
				Spring steel strip	4615106600	4615106600
		0276 - 0436	0.75 (extensible)	Tamper shield	4602432889	4602432890
		0437 - 9999		Tamper shield complete*	2009731	2009732
				Spring steel strip	4615106711	4615106711
		0010 - 0275	1.00	Tamper shield	4602433076	4602433076
		0276 - 0436		Tamper shield	4602434560	4602434560
		0437 - 9999		Tamper shield complete*	2009729	2009729
				Spring steel strip	2000269	2000269
		0010 - 0275	1.50	Tamper shield	4602433077	4602433077
0276 - 0436	Tamper shield	4602434559		4602434559		
0437 - 9999	Tamper shield complete*	2009730		2009730		
	Spring steel strip	2000295		2000295		
SB 250-2	05SB	0010 - 9999	0.25	Tamper shield complete*	2125428	2125557
				Spring steel strip	2123464	2123464
			0.50	Tamper shield complete*	2125358	2125358
				Spring steel strip	2123476	2123476
			0.75 (extensible)	Tamper shield complete*	2126020	2126211
				Spring steel strip	2123654	2123654
			1.00	Tamper shield complete*	2125276	2125276
				Spring steel strip	2123488	2123488
			1.50	Tamper shield complete*	2125066	2125066
				Spring steel strip	2123516	2123516
SB 300	03SB	0010 - 0331	0.25	Tamper shield	4602433265	4602433266
		0332 - 0403		Tamper shield	4602434535	4602434536
		0404 - 9999		Tamper shield complete*	2009724	2009727
				Spring steel strip	4615106598	4615106598
		0010 - 0331	0.50	Tamper shield	4602433075	4602433075
		0332 - 0403		Tamper shield	4602434561	4602434561
		0404 - 9999		Tamper shield complete*	2009728	2009728
				Spring steel strip	4615106600	4615106600
		0332 - 0403	0.75 (extensible)	Tamper shield	4602432889	4602432890
		0404 - 9999		Tamper shield complete*	2009731	2009732
				Spring steel strip	4615106711	4615106711
		0010 - 0331	1.00	Tamper shield	4602433076	4602433076
		0332 - 0403		Tamper shield	4602434560	4602434560
		0404 - 9999		Tamper shield complete*	2009729	2009729
				Spring steel strip	2000269	2000269
		0010 - 0331	1.50	Tamper shield	4602433077	4602433077
0332 - 0403	Tamper shield	4602434559		4602434559		
0404 - 9999	Tamper shield complete*	2009730		2009730		
	Spring steel strip	2000295		2000295		
SB 300-2	06SB	0010 - 9999	0.25	Tamper shield complete*	2125428	2125557
				Spring steel strip	2123464	2123464
			0.50	Tamper shield complete*	2125358	2125358
				Spring steel strip	2123476	2123476
			0.75 (extensible)	Tamper shield complete*	2126020	2126211
				Spring steel strip	2123654	2123654
			1.00	Tamper shield complete*	2125276	2125276
				Spring steel strip	2123488	2123488
			1.50	Tamper shield complete*	2125066	2125066
				Spring steel strip	2123516	2123516

* Tamper shield complete includes the steel strip

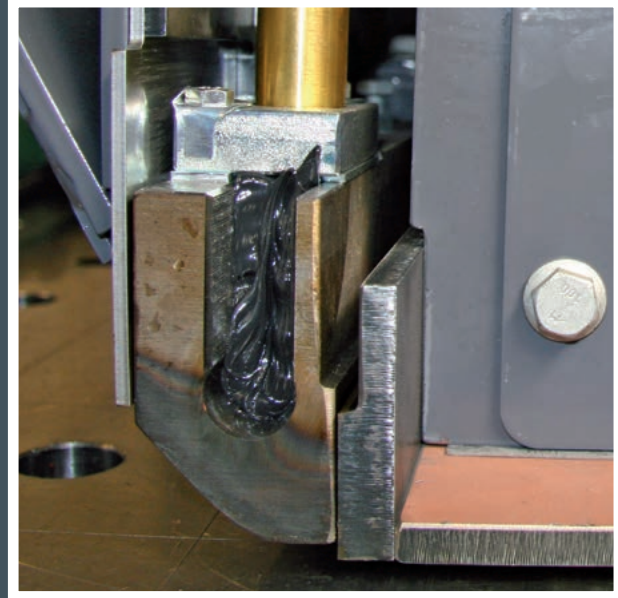


ORIGINAL VÖGELE TAMPER BARS

VÖGELE tamper bars are made of a highly wear-resistant steel alloy for a long service life of these components subject to severe strain.

Tamper bars come with heating rods installed inside. This guarantees uniform heating of the bars across the full pave width.

Thanks to bevelled edges, tamper bars are designed for universal use. They always ensure that mix is perfectly packed under the screed and optimum compaction is achieved. Induction hardening of VÖGELE tamper bars provides for large hardening depth and uniform hardening over the bar's full length.



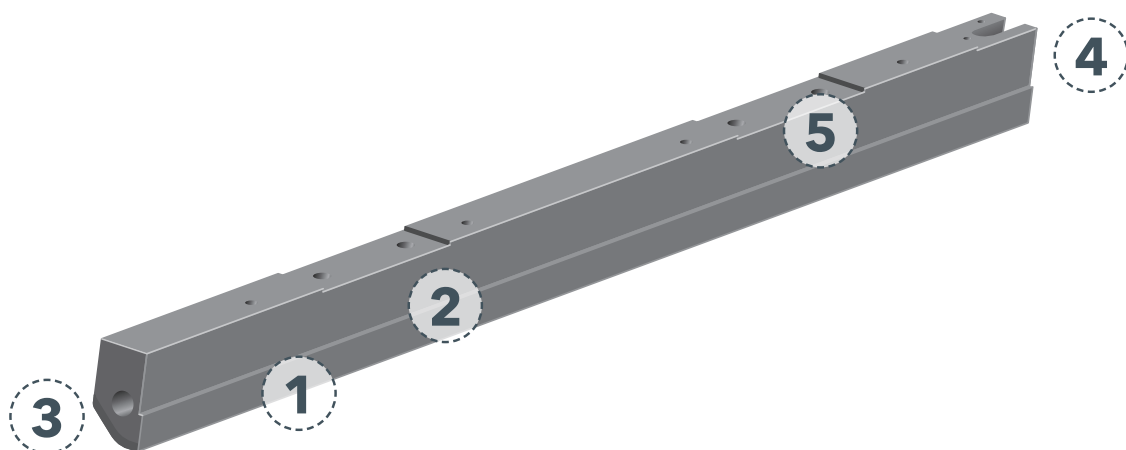
1 On the tamper bar, **the induction hardening process** ensures a high hardening depth.

2 **The highly wear-resistant alloy steel** ensures a long service life.

3 **The bevelled front edge** enhances the uniform material feed and perfects the compaction.

4 **The heating rod** allows for optimal heating of the bar and is safely located in the bore of the tamper bar.

5 In manufacturing, an **exact fit and high form accuracy** are paramount.





Screed type	Model	Series range	Tamper bar basic screed		Tamper bar extending screed	
			left	right	left	right
AB 200 TV	12AB	0010 - 0289	2014805	2014805	2020273	2020273
		0290 - 9999	2049732	2049732	2020273	2020273
AB 220-3 TV	28AB	0010 - 9999	2339107	2339107	2339128	2339128
AB 340 TV	13AB	0010 - 9999	2043707	2043707	2043892	2043892
AB 340-3 TV	27AB	0010 - 9999	2234960	2234960	2235761	2235761
AB 500 TV, TP	10AB	0010 - 9999	2003833	2003834	2003835	2003836
AB 500-2 TV, TP	14AB, 15AB	0010 - 9999	2003833	2003834	2003835	2003836
			2202733*	2202847*	2202970*	2203022*
AB 500-3 TV, TP	23AB, 24AB	0010 - 9999	2202733	2202847	2202970	2203022
AB 600 TV, TP	11AB	0010 - 9999	2003841	2003842	2003843	2003844
AB 600-2 TV, TP	16AB, 17AB	0010 - 9999	2003841	2003842	2003843	2003844
			2203109*	2203136*	2203171*	2203200*
AB 600-3 TV, TP	25AB, 26AB	0010 - 9999	2203109	2203136	2203171	2203200
SB 250 TV, TP	02SB	0010 - 9999	4611353204	4611353205		
SB 250-2 TV, TP	05SB	0010 - 9999	4611353204	4611353205		
SB 300 TV, TP	03SB	0010 - 9999	4611353073	4611353074		
SB 300-2 TV, TP	06SB	0010 - 9999	4611353073	4611353074		

* The wearing bars must also be replaced if you change over to tamper bar model "-3" (AB 500-2: 4x 2261005 / AB 600-2: 4x 2261007).



ORIGINAL VÖGELE TAMPER BARS

Screed type	Model	Series range	Bolt-on extension (m)	Tamper bar bolt-on extension	
				left	right
AB 200 TV	12AB	0010 - 9999	0.35	2028210	2028210
			0.60	2030843	2030843
AB 220-3 TV	28AB	0010 - 9999	0.50	2374331	2374331
			0.65	2376248	2376248
AB 340 TV	13AB	0010 - 9999	0.40	2051125	2051125
			0.55	2046991	2046991
AB 340-3 TV	27AB	0010 - 9999	0.25	2259636	2260205
			0.55	2255578	2255578
			0.80	2254820	2254820
AB 500 TV, TP, AB 600 TV, TP	10AB, 11AB	0010 - 9999	0.225	4611353675	4611353676
			0.75	2038930	2038931
			1.25	2038932	2038933
AB 500-2 TV, TP	14AB, 15AB	0010 - 9999	0.25	2247041	2247043
			0.75	2246755	2246761
			1.25	2246446	2246448
AB 600-2 TV, TP	16AB, 17AB	0010 - 9999	0.25	2247041	2247043
			0.75	2246755	2246761
			1.25	2246446	2246448
AB 500-3 TV, TP, AB 600-3 TV, TP	23AB, 24AB, 25AB, 26AB	0010 - 9999	0.25	2247041	2247043
			0.75	2246755	2246761
			1.25	2246446	2246448
SB 250, SB 300	02SB, 03SB	0010 - 9999	0.25	4611352947	4611352948
			0.50	4611352326	4611352327
			0.75 (extensible)	4611352996	4611352997
			1.00	4611352549	4611352550
			1.50	4611353094	4611353095
SB 250-2, SB 300-2	05SB, 06SB	0010 - 9999	0.25	4611352947	4611352948
			0.50	4611352326	4611352327
			0.75 (extensible)	4611352996	4611352997
			1.00	4611352549	4611352550
			1.50	4611353094	4611353095



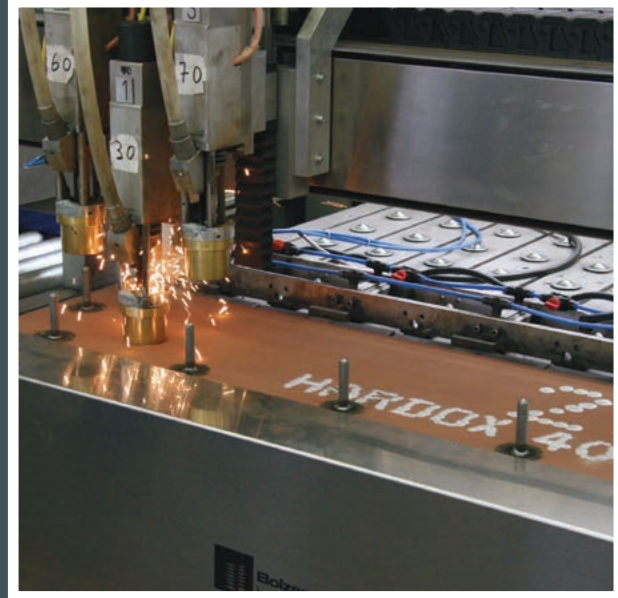
**SUPER 1800-3i:
FULL POWER,
INTELLIGENT TECHNOLOGY**

ORIGINAL VÖGELE SCREED PLATES

The screed plates are designed to wear down evenly.

The use of highly wear-resistant steel for manufacture prolongs the screed plates' service lives, thus enhancing your paver's readiness for service.

VÖGELE screed plates are attached to the screed frame by sturdy welded bolts.



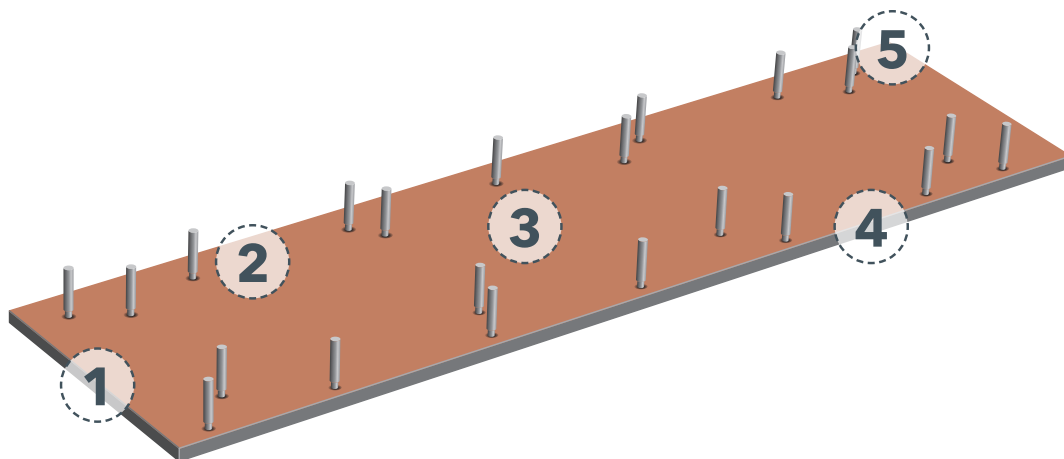
1 **Setting angle of the screed plate edges** influences the compaction, surface structure and the screed floating behaviour.

2 **The micro-encapsulated nuts** and the expansion sleeve ensure a durable connection that withstands even the dynamic requirements.

3 **The material structure** provides a reliable immutable structure.

4 **Chamfered screed plate edges** provide improved feeding.

5 **The weld studs** are securely welded and do not change the material structure even over load periods.





Screed type	Model	Series range	Screed plate basic screed		Screed plate extending screed	
			left	right	left	right
AB 200 V	12AB	0010 - 0546	2014155		2014140	2014137
		0547 - 9999	2057184		2057411	2057420
AB 200 TV	12AB	0010 - 9999	2014155		2014140	2014137
AB 220-3 V	28AB	0010 - 9999	2370427		2370651	2370668
AB 220-3 TV	28AB	0010 - 9999	2369071		2370689	2370688
AB 340 V	13AB	0010 - 9999	2060797	2060781	2060812	2060809
AB 340 TV	13AB	0010 - 9999	2042760	2042924	2043503	2043504
AB 340-3 V	27AB	0010 - 9999	2243673	2100925	2100927	2100931
AB 340-3 TV	27AB	0010 - 9999	2243191	2042924	2043503	2043504
AB 500 TV, TP1, TP2	10AB	0010 - 9999	4602426246	4602426247	4602427998	4602427999
AB 500 TV*	10AB	0010 - 9999	2030819	2030820	2030822	2030823
AB 500-2 TV, TP1, TP2	14AB, 15AB	0010 - 9999	2042535	2042536	2042538	2042539
AB 500-3 TV, TP1, TP2	23AB, 24AB	0010 - 9999	2201289	2201290	2202435	2202445
AB 600 TV, TP1, TP2	11AB	0010 - 9999	4602428170	4602428171	4602428173	4602428174
AB 600 TV*	11AB	0010 - 9999	2031119	2031122	2031125	2031127
AB 600-2 TV, TP1, TP2	16AB, 17AB	0010 - 9999	2052858	2052859	2052887	2052893
AB 600-3 TV, TP1, TP2	25AB, 26AB	0010 - 9999	2211817	2211812	2211964	2211967
VR 600-2 V	18AB	0010 - 9999	2171786	2171789	2119871	2120665
VF 500-2 V without berm	19AB	0010 - 9999	2478970		2374818	2374820
VF 500-2 V with 305-mm berm					2189026	2187303
VF 500-2 V with 457-mm berm					2190038	2189746
VF 500-2 V with 610-mm berm					2224582	2224404
VF 600-2 V without berm	20AB	0010 - 9999	2478991		2374756	2374757
VF 600-2 V with 305-mm berm					2204784	2208891
VF 600-2 V with 457-mm berm					2209321	2210185
VF 600-2 V with 610-mm berm					2221267	2221744
SB 250, SB 250-2	02SB, 05SB	0010 - 9999	4602418916	4602418917		
SB 300, SB 300-2	03SB, 06SB	0010 - 9999	4602418082	4602418083		

* Screed plates 330 mm deep



ORIGINAL VÖGELE SCREED PLATES

Screed type	Model	Series range	Bolt-on extension (m)	Screed plate bolt-on extension	
				left	right
AB 200 V	12AB	0010 - 0546	0.35	2028016	2028016
		0547 - 9999	0.35	2057718	2057718
		0010 - 9999	0.60	2057758	2057758
AB 200 TV	12AB	0010 - 9999	0.35	2028016	2028016
			0.60	2030798	2030798
AB 220-3 V	28AB	0010 - 9999	0.50	2375523	2375523
AB 220-3 TV	28AB	0010 - 9999	0.50	2374066	2374066
			0.65	2376221	2376221
AB 340 V	13AB	0010 - 9999	0.40	2060829	2060829
AB 340 TV	13AB	0010 - 9999	0.40	2050862	2050862
			0.55	2046968	2046968
AB 340-3 V	27AB	0010 - 9999	0.25	2183855	2183855
			0.40	2134911	2134911
AB 340-3 TV	27AB	0010 - 9999	0.25	2158886	2158886
			0.55	2046968	2046968
			0.80	2066364	2066364
AB 500 TV, AB 600 TV	10AB, 11AB	0010 - 9999	0.225	4602428068	4602428068
			0.75	4602426519	4602426520
			1.25	4602428228	4602428228
AB 500 TV*, AB 600 TV*	10AB, 11AB	0010 - 9999	0.225	2032258	2032258
			0.75	2031131	2031132
AB 500 TP1, AB 600 TP1	10AB	0010 - 9999	0.225	4602428068	4602428068
			0.75	4602426519	4602426520
			1.25	4602428228	4602428228
AB 500 TP2, AB 600 TP2	11AB	0010 - 9999	0.225	4602428068	4602428068
			0.75	4602426519	4602426520
			1.25	4602428228	4602428228
AB 500-2 TV, AB 600-2 TV	14AB, 16AB	0010 - 9999	0.25	2040876	2040876
			0.75	2043246	2043247
			1.25	2043248	2043248

* Screed plates 330 mm deep



Screed type	Model	Series range	Bolt-on extension (m)	Screed plate bolt-on extension	
				left	right
AB 500-2 TP1, AB 600-2 TP1	15AB, 17AB	0010 - 9999	0.25	2040876	2040876
			0.75	2043246	2043247
			1.25	2043248	2043248
AB 500-2 TP2, AB 600-2 TP2	15AB, 17AB	0010 - 9999	0.25	2040876	2040876
			0.75	2043246	2043247
			1.25	2043248	2043248
AB 500-3 TV, AB 600-3 TV	23AB, 25AB	0010 - 9999	0.25	2222229	2222229
			0.75	2217007	2217013
			1.25	2214303	2214303
AB 500-3 TP1, AB 600-3 TP1	24AB, 26AB	0010 - 9999	0.25	2222229	2222229
			0.75	2217007	2217013
			1.25	2214303	2214303
AB 500-3 TP2, AB 600-3 TP2	24AB, 26AB	0010 - 9999	0.25	2222229	2222229
			0.75	2217007	2217013
			1.25	2214303	2214303
VR 600-2 V	18AB	0010 - 9999	0.65	2123601	2126171
VF 500-2 V	19AB	0010 - 9999	0.305	2169392	2169392
			0.61	2171115	2171115
VF 600-2 V	20AB	0010 - 9999	0.305	2169392	2169392
			0.61	2171115	2171115
SB 250, SB 300	02SB, 03SB	0010 - 9999	0.25	4602418642	4602418642
			0.50	4602418098	4602418098
			0.75 (extensible)	4602425219	4602425220
			1.00	4602418086	4602418087
			1.50	4602418084	4602418085
SB 250-2, SB 300-2	05SB, 06SB	0010 - 9999	0.25	4602418642	4602418642
			0.50	4602418098	4602418098
			0.75 (extensible)	4602425219	4602425220
			1.00	4602418086	4602418087
			1.50	4602418084	4602418085

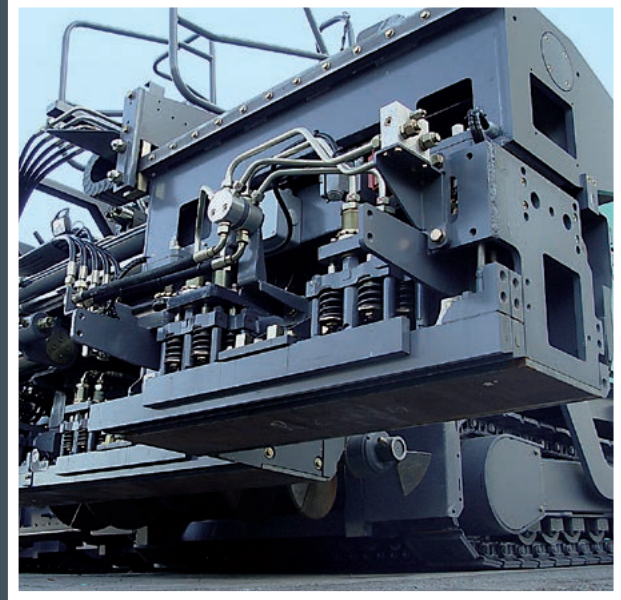


ORIGINAL VÖGELE PRESSURE BARS

The pressure bars driven by pulsed-flow hydraulics produce highest density and, in doing so, they are exposed to severe strain.

VÖGELE pressure bars are made of a highly wear-resistant material. Induction hardening optimises the material's hardening depth and achieves absolutely uniform hardening over the bar's full length.

The pressure bars come with heating rods installed inside, allowing them to achieve highest pavement quality very economically.



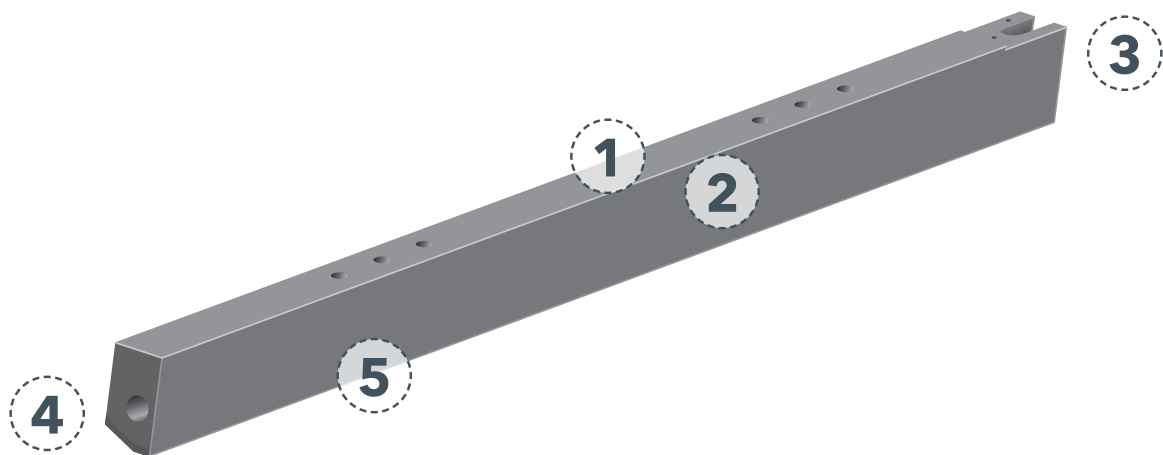
1 *The **pressure bars** are located immediately behind the screed plates and form the seal of the optimum compaction by the screed.*

2 *The **highly wear-resistant material** protects the pressure bar against the extreme loads.*

3 *The **pressure bar** is uniformly heated from the inside via a heating rod to prevent asphalt adhesions.*

4 ***Bevelled edge** makes for an ideal material infeed and an ideal final density.*

5 *The **pressure bars** compress the asphalt, depending on machines and use, either individual or double as TP1 or TP2 version.*





Screed type	Model	Series range	Designation pressure bar	Pressure bar basic screed		Pressure bar extending screed	
				left	right	left	right
AB 500 TP1	10AB	0010 - 9999	P2	2004023	2004024	2004027	2004028
AB 500 TP2	10AB	0010 - 9999	P1	2004020	2004022	2004025	2004026
			P2	2004023	2004024	2004027	2004028
AB 500-2 TP1	15AB	0010 - 9999	P2	2004023	2004024	2004027	2004028
AB 500-2 TP2	15AB	0010 - 9999	P1	2004020	2004022	2004025	2004026
			P2	2004023	2004024	2004027	2004028
AB 500-3 TP1	24AB	0010 - 9999	P2	2004023	2004024	2004027	2004028
AB 500-3 TP2	24AB	0010 - 9999	P1	2004020	2004022	2004025	2004026
			P2	2004023	2004024	2004027	2004028
AB 600 TP1	11AB	0010 - 9999	P2	2004575	2004576	2004579	2004580
AB 600 TP2	11AB	0010 - 9999	P1	2004573	2004574	2004577	2004578
			P2	2004575	2004576	2004579	2004580
AB 600-2 TP1	17AB	0010 - 9999	P2	2004575	2004576	2004579	2004580
AB 600-2 TP2	17AB	0010 - 9999	P1	2004573	2004574	2004577	2004578
			P2	2004575	2004576	2004579	2004580
AB 600-3 TP1	26AB	0010 - 9999	P2	2004575	2004576	2004579	2004580
AB 600-3 TP2	26AB	0010 - 9999	P1	2004573	2004574	2004577	2004578
			P2	2004575	2004576	2004579	2004580
SB 250 TP1	02SB	0010 - 9999	P2	4611353212	4611353213		
SB 250 TP2	02SB	0010 - 9999	P1	4611353210	4611353211		
			P2	4611353212	4611353213		
SB 250-2 TP1	05SB	0010 - 9999	P2	4611353212	4611353213		
SB 250-2 TP2	05SB	0010 - 9999	P1	4611353210	4611353211		
			P2	4611353212	4611353213		
SB 300 TP1	03SB	0010 - 9999	P2	4611353109	4611353110		
SB 300 TP2	03SB	0010 - 9999	P1	4611353107	4611353108		
			P2	4611353109	4611353110		
SB 300-2 TP1	06SB	0010 - 9999	P2	4611353109	4611353110		
SB 300-2 TP2	06SB	0010 - 9999	P1	4611353107	4611353108		
			P2	4611353109	4611353110		



ORIGINAL VÖGELE

PRESSURE BARS

Screed type	Model	Series range	Bolt-on extension (m)	Pressure bar extending screed		
				Designation	Part No.	
					left	right
AB 500 TP1, AB 600 TP1	10AB, 11AB	0010 - 9999	0.225	P2	4611353685	4611353686
			0.75	P2	2004603	2004604
			1.25	P2	2004612	2004613
AB 500 TP2, AB 600 TP2	10AB, 11AB	0010 - 9999	0.225	P1	4611353681	4611353683
				P2	4611353685	4611353686
			0.75	P1	2004600	2004601
				P2	2004603	2004604
			1.25	P1	2004610	2004611
				P2	2004612	2004613
AB 500-2 TP1, AB 500-3 TP1	15AB, 24AB	0010 - 9999	0.25	P2	2041252	2041253
			0.75	P2	2004603	2004604
			1.25	P2	2004612	2004613
AB 600-2 TP1, AB 600-3 TP1	17AB, 26AB	0010 - 9999	0.25	P2	2041252	2041253
			0.75	P2	2004603	2004604
			1.25	P2	2004612	2004613
AB 500-2 TP2, AB 500-3 TP2	15AB, 24AB	0010 - 9999	0.25	P1	2041249	2041251
				P2	2041252	2041253
			0.75	P1	2004600	2004601
				P2	2004603	2004604
			1.25	P1	2004610	2004611
				P2	2004612	2004613
AB 600-2 TP2, AB 600-3 TP2	17AB, 26AB	0010 - 9999	0.25	P1	2041249	2041251
				P2	2041252	2041253
			0.75	P1	2004600	2004601
				P2	2004603	2004604
			1.25	P1	2004610	2004611
				P2	2004612	2004613
SB 250 TP1, SB 250-2 TP1, SB 300 TP1, SB 300-2 TP1	02SB, 05SB, 03SB, 06SB	0010 - 9999	0.25	P2	4611353116	4611353120
			0.50	P2	4611353124	4611353128
			0.75 (extensible)	P2	4611353465	4611353466
			1.00	P2	4611353132	4611353136
			1.50	P2	4611353140	4611353144
SB 250 TP2, SB 250-2 TP2, SB 300 TP2, SB 300-2 TP2	02SB, 05SB, 03SB, 06SB	0010 - 9999	0.25	P1	4611353115	4611353119
				P2	4611353116	4611353120
			0.50	P1	4611353123	4611353127
				P2	4611353124	4611353128
			0.75 (extensible)	P1	4611353467	4611353468
				P2	4611353465	4611353466
			1.00	P1	4611353131	4611353135
				P2	4611353132	4611353136
			1.50	P1	4611353139	4611353143
				P2	4611353140	4611353144



VÖGELE



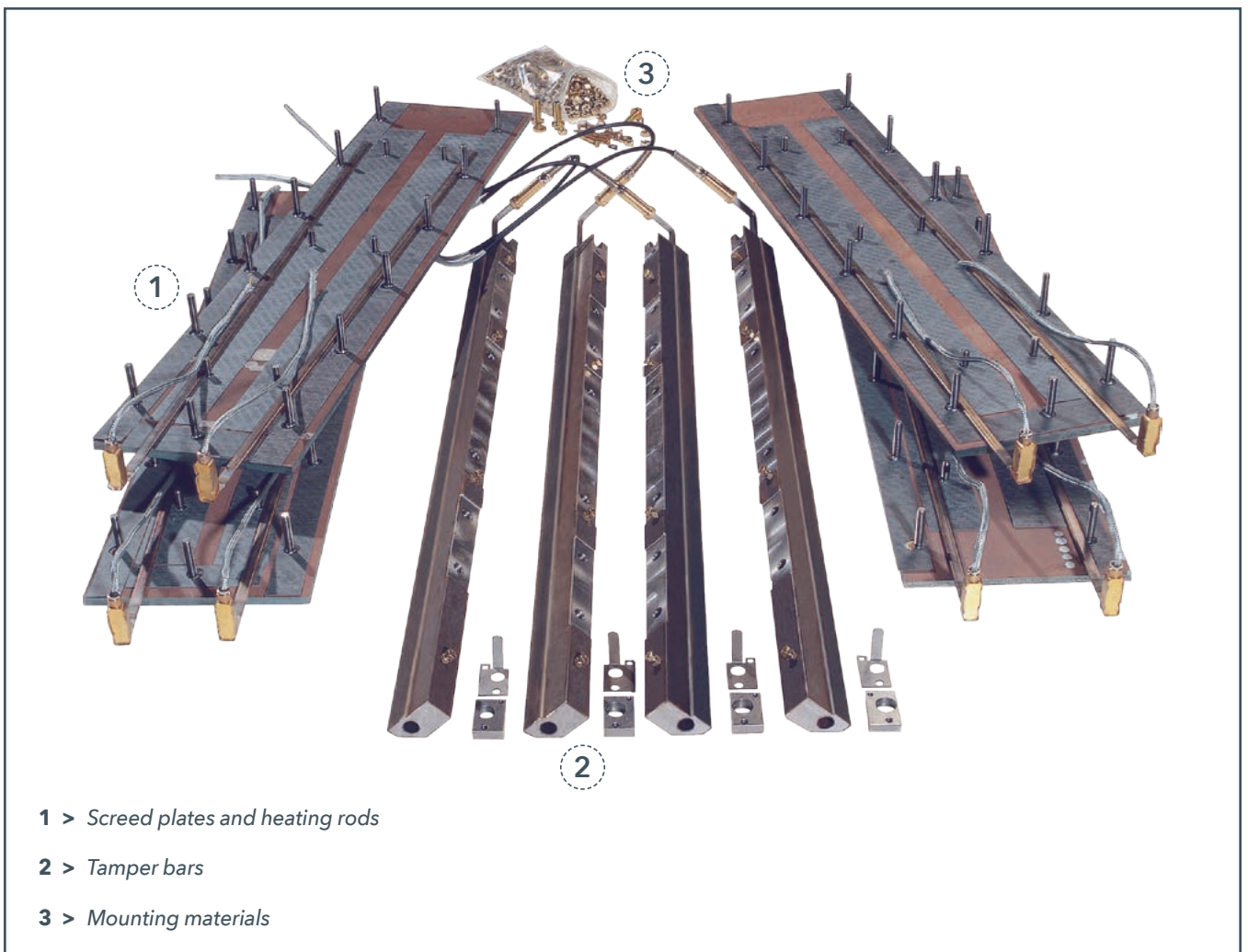
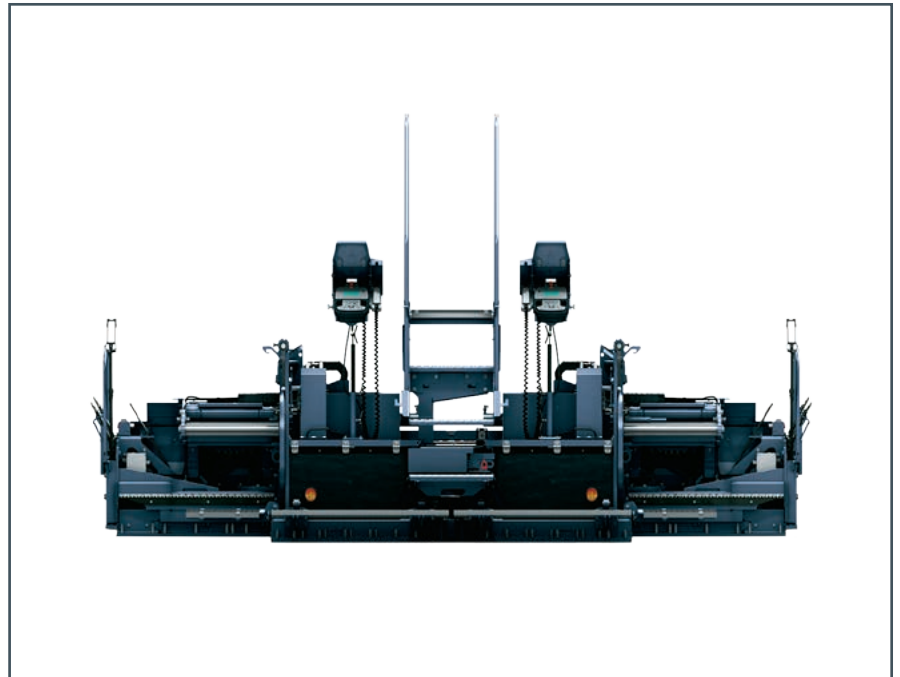
**SUPER SERIES:
THE INNOVATIVE
TRACKED PAVERS**

ORIGINAL VÖGELE SERVICE PACKAGES FOR SCREEDS

THE ALL-ROUND SOLUTION FOR YOUR SCREED

With our packages for screeds you are on the safe side at all times when it comes to quickly exchanging parts.

The service packages available for all screed models include screed plates, tamper bar, pressure bar(s) (for TP1 and TP2 screed versions), heating rods, spring steel strips for tamper bars and pressure bars as well as all insulating and mounting materials.



1 > Screed plates and heating rods

2 > Tamper bars

3 > Mounting materials



Screed type	Model	Series range	Service package with 10-mm screed plates	Service package with 12-mm screed plates	Service package with 12-mm screed plates*	Service package with 15-mm screed plates	Service package with 15-mm screed plates**
AB 200 V	12AB	0010 - 0546	2037577				
		0547 - 9999	2074368				
AB 200 TV	12AB	0010 - 0289	2037578				
		0290 - 9999	2049834				
AB 220-3 V	28AB	0010 - 9999	2436324				
AB 220-3 TV	28AB	0010 - 9999	2436327				
AB 340 V	13AB	0010 - 0492	2069226				
		0493 - 9999	2135330				
AB 340 TV	13AB	0010 - 9999		2069225			
AB 340-3 V	27AB	0010 - 9999	2318801				
AB 340-3 TV	27AB	0010 - 9999		2318821			
AB 500 TV	10AB	0010 - 9999				2009421	2047365
AB 500 TP1	10AB	0010 - 9999				2009422	
AB 500 TP2	10AB	0010 - 9999				2009423	
AB 500-2 TV	14AB	0010 - 9999					2051692
AB 500-2 TP1	15AB	0010 - 9999					2051693
AB 500-2 TP2	15AB	0010 - 9999					2051694
AB 500-3 TV	23AB	0010 - 9999			2310096		
AB 500-3 TP1	24AB	0010 - 9999			2310251		
AB 500-3 TP2	24AB	0010 - 9999			2310253		
AB 600 TV	11AB	0010 - 9999				2013177	2047510
AB 600 TP1	11AB	0010 - 9999				2013178	
AB 600 TP2	11AB	0010 - 9999				2013179	
AB 600-2 TV	16AB	0010 - 9999					2073390
AB 600-2 TP1	17AB	0010 - 9999					2073391
AB 600-2 TP2	17AB	0010 - 9999					2073392
AB 600-3 TV	25AB	0010 - 9999			2310246		
AB 600-3 TP1	26AB	0010 - 9999			2310305		
AB 600-3 TP2	26AB	0010 - 9999			2310306		
VR 600-2 V	18AB	0010 - 9999		2204910			
VF 500-2 V compl. standard	19AB	0010 - 9999		2478782			
VF 500-2 V including sliding blocks	19AB	0010 - 9999		2336789			

* 320 mm deep · ** 330 mm deep



SERVICE PACKAGES FOR SCREEDS

Screed type	Model	Series range	Service package with 10-mm screed plates	Service package with 12-mm screed plates	Service package with 12-mm screed plates*	Service package with 15-mm screed plates	Service package with 15-mm screed plates**
VF 500-2 V extensions	19AB	0010 - 9999		2478724 without berm left			
				2478727 without berm right			
				2336794 12-inch berm left			
				2336795 12-inch berm right			
				2336798 18-inch berm left			
				2336800 18-inch berm right			
				2336802 24-inch berm left			
				2336803 24-inch berm right			
VF 600-2 V compl. standard	20AB	0010 - 9999		2478737			
VF 600-2 V including sliding blocks	20AB	0010 - 9999		2336796			
VF 600-2 V extensions	20AB	0029 - 9999		2478703 without berm left			
				2478713 without berm right			
				2338334 12-inch berm left			
				2338336 12-inch berm right			
				2338340 18-inch berm left			
				2338342 18-inch berm right			
				2338343 24-inch berm left			
				2338344 24-inch berm right			
SB 250 TV	02SB	0010 - 9999				4617500026	
SB 250 TP1	02SB	0010 - 9999				4617500027	
SB 250 TP2	02SB	0010 - 9999				4617500028	
SB 300 TV	03SB	0010 - 9999				4617500029	
SB 300 TP1	03SB	0010 - 9999				4617500030	
SB 300 TP2	03SB	0010 - 9999				4617500031	
SB 250-2 TV	05SB	0010 - 9999				2166153	
SB 250-2 TP1	05SB	0010 - 9999				2166154	
SB 250-2 TP2	05SB	0010 - 9999				2166155	
SB 300-2 TV	06SB	0010 - 9999				2166156	
SB 300-2 TP1	06SB	0010 - 9999				2166157	
SB 300-2 TP2	06SB	0010 - 9999				2166158	

* 320 mm deep · ** 330 mm deep



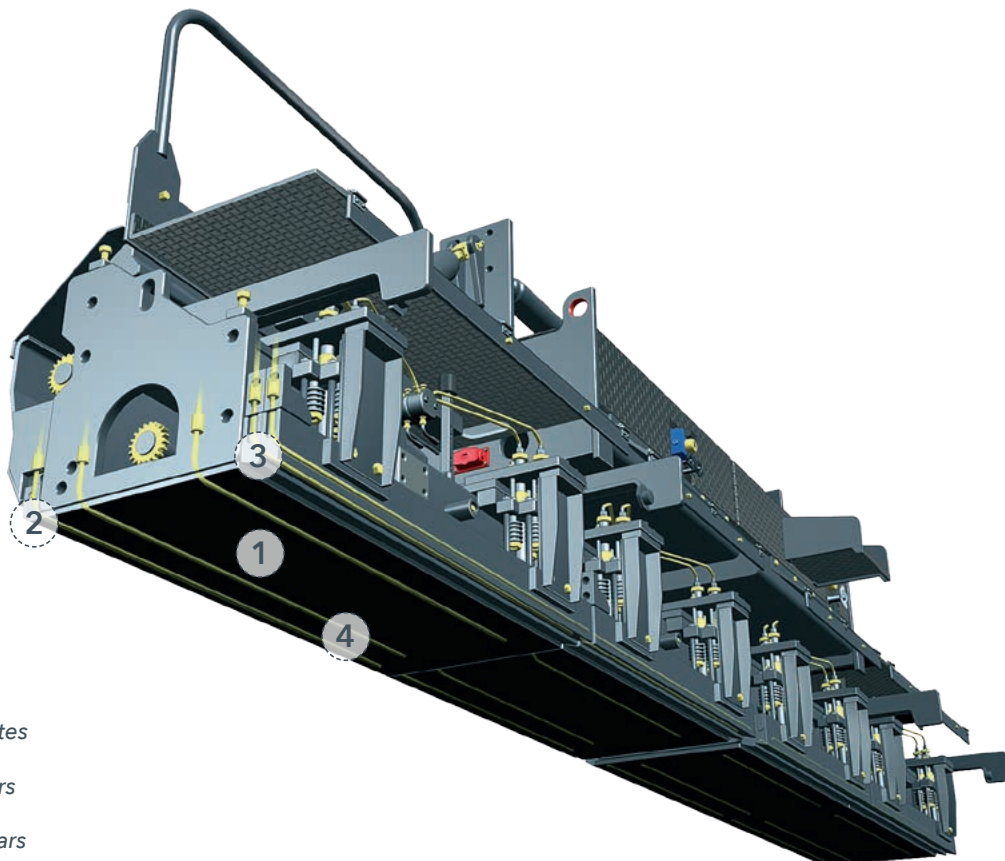
SERVICE PACKAGES FOR BOLT-ON EXTENSIONS



THE ALL-ROUND SOLUTION FOR YOUR BOLT-ON EXTENSIONS

For your paving jobs in large widths, benefit from our service packages for bolt-on extensions.

The service package provides for the left-hand and right-hand extension: the screed plates, tamper bars, pressure bars (with TP screeds), heating rods and spring steel strips for tamper and pressure bars as well as all insulating and mounting material.



- 1 > Screed plates
- 2 > Tamper bars
- 3 > Pressure bars
(on TP screeds)
- 4 > Heating rods

SERVICE PACKAGES FOR BOLT-ON EXTENSIONS

Screed type	Model	Series range	Bolt-on extension (m)	Part No.
AB 200 V	12AB	0010 - 0546	0.35	2037579
		0547 - 9999	0.35	2074369
AB 200 TV	12AB	0010 - 9999	0.35	2037580
			0.60	2037581
AB 220-3 V	28AB	0010 - 9999	0.50	2436328
AB 220-3 TV	28AB	0010 - 9999	0.50	2436329
			0.65	2436330
AB 340 V	13AB	0814 - 9999	0.25	2225607
		0010 - 0492	0.40	2069228
		0493 - 9999	0.40	2135333
AB 340 TV	13AB	0623 - 9999	0.25	2184162
		0010 - 9999	0.40	2069227
			0.55	2069229
		0402 - 9999	0.80	2160123
AB 340-3 V	27AB	0010 - 9999	0.25	2318842
			0.40	2135333
AB 340-3 TV	27AB	0010 - 9999	0.25	2318834
			0.55	2318853
			0.80	2318857
AB 500 TV, AB 600 TV	10AB, 11AB	0010 - 9999	0.225	2013180
			0.225*	2047511
			0.75	2009424
			0.75*	2047509
AB 500 TP1, AB 600 TP1	10AB, 11AB	0010 - 9999	1.25	2013200
			0.225	2013181
			0.75	2009425
AB 500 TP2, AB 600 TP2	10AB, 11AB	0010 - 9999	1.25	2013183
			0.225	2013182
			0.75	2009426
AB 500-2 TV, AB 600-2 TV	14AB, 16AB	0010 - 9999	1.25	2013184
			0.25	2051719
			0.75	2051728
AB 500-2 TP1, AB 600-2 TP1	15AB, 17AB	0010 - 9999	1.25	2051736
			0.25	2051720
			0.75	2051729
AB 500-2 TP2, AB 600-2 TP2	15AB, 17AB	0010 - 9999	1.25	2051737
			0.25	2051721
			0.75	2051730
AB 500-3 TV, AB 600-3 TV	23AB, 25AB	0010 - 9999	1.25	2051738
			0.25	2310232
			0.75	2310237
			1.25	2310239

* with 330 mm deep screed plates



Screed type	Model	Series range	Bolt-on extension (m)	Part No.
AB 500-3 TP1, AB 600-3 TP1	24AB, 26AB	0010 - 9999	0.25	2310296
			0.75	2310298
			1.25	2310302
AB 500-3 TP2, AB 600-3 TP2	24AB, 26AB	0010 - 9999	0.25	2310297
			0.75	2310299
			1.25	2310303
VR 600-2 V	18AB	0010 - 9999	0.65	2228882
VF 500-2 V	19AB	0010 - 9999	0.305	2307061
			0.61	2307064
		0029 - 9999	12-inch berm	2307061
			24-inch berm	2307064
VF 600-2 V	20AB	0010 - 9999	0.305	2307061
			0.61	2307064
			12-inch berm	2307061
			24-inch berm	2307064
SB 250 TV, SB 300 TV	02SB, 03SB	0010 - 9999	0.25	4617500032
			0.50	4617500035
			0.75 (extensible)	2047480
			1.00	4617500038
			1.50	4617500041
SB 250 TP1, SB 300 TP1	02SB, 03SB	0010 - 9999	0.25	4617500033
			0.50	4617500036
			0.75 (extensible)	2047481
			1.00	4617500039
			1.50	4617500042
SB 250 TP2, SB 300 TP2	02SB, 03SB	0010 - 9999	0.25	4617500034
			0.50	4617500037
			0.75 (extensible)	2047483
			1.00	4617500040
			1.50	4617500043
SB 250-2 TV, SB 300-2 TV	05SB, 06SB	0010 - 9999	0.25	2166451
			0.50	2166454
			0.75 (extensible)	2166459
			1.00	2166462
			1.50	2166465
SB 250-2 TP1, SB 300-2 TP1	05SB, 06SB	0010 - 9999	0.25	2166452
			0.50	2166455
			0.75 (extensible)	2166460
			1.00	2166463
			1.50	2166467
SB 250-2 TP2, SB 300-2 TP2	05SB, 06SB	0010 - 9999	0.25	2166453
			0.50	2166456
			0.75 (extensible)	2166461
			1.00	2166464
			1.50	2166468



ORIGINAL VÖGELE

GENERATOR MANAGEMENT AND SCREED HEATING TECHNOLOGY

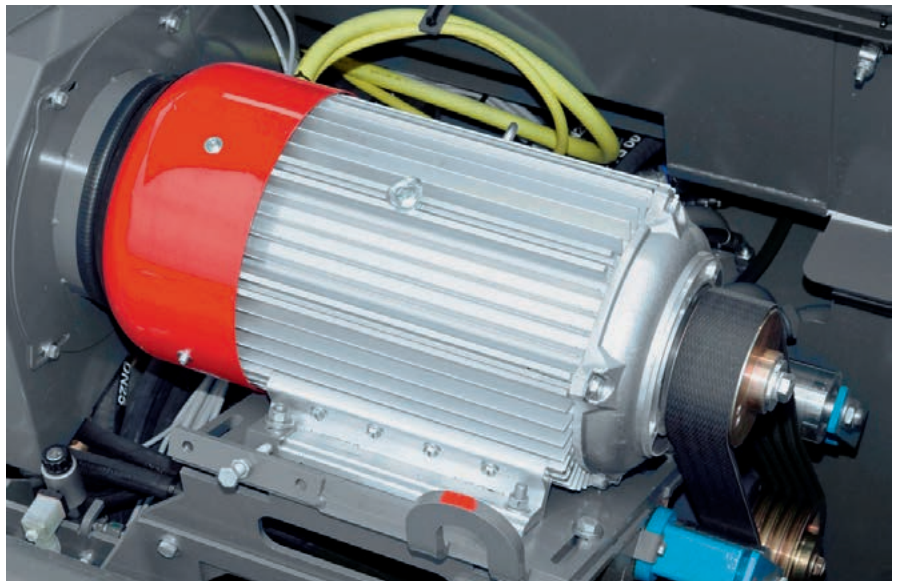
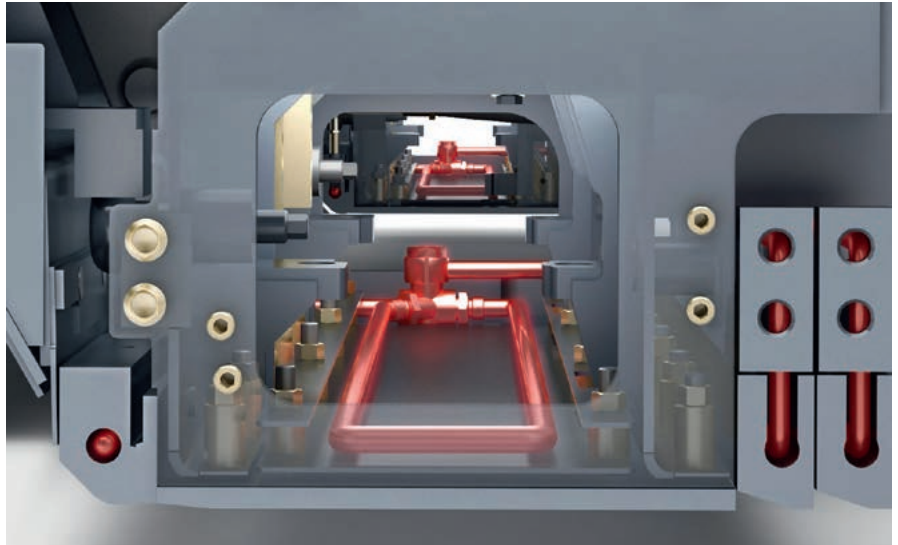
VÖGELE is the technology leader in the field of electric screed heating. As early as 1952 VÖGELE was the first road paver manufacturer to use this highly efficient, eco-friendly design and has shaped the development of screed heating up to the current day with many innovations.

All compacting elements coming into touch with the hot mix are heated across the full pave width in order to support compaction and achieve a smooth surface texture the best way. Hot mix is prevented from sticking to screed elements and an ideal environment is created in terms of temperature for the floating of the screed.

Tamper and pressure bars are heated evenly from the inside via integrated heating rods. As standard the screed plates are fitted with a heating rod that distributes the heat all over the plates. Optionally, the bevel irons and side plate skis can also be equipped with heating.

On all VÖGELE road pavers, powerful and robust three-phase A.C. generators supply the screed heating with the necessary energy. The intelligent generator management system provides optimal efficiency and ensures that irrespective of engine rpm the power needed for heating your screed in its current pave width is made available. Power reserves can be used for paving.

Even with the engine set to minimum rpm, the screed's compacting elements are heated to operating temperature within just a few minutes. With paver functions set to automatic, the Generator Management activates alternating mode, which then heats your screed alternately to left and right.





THIS IS A TYPICAL VÖGELE FEATURE, A TRULY INTELLIGENT PRINCIPLE:

- > Operating temperature remains constant.
- > Power requirement is halved, as only one half of the screed is being heated at the same time.
- > The generator is effectively protected against overheating.
- > No charring of bitumen as local overheating is positively avoided.

USING ELECTRIC POWER THE SMART WAY, COMPLYING WITH THE DEMAND

Optimal distribution of heat and uniform heating of screed plates prevent strips in the pavement surface.

BENEFITS AT A GLANCE:

- > Constant and high pavement quality.
- > No thermal damage caused to your mix.
- > Screed heating is easy on your engine.
- > Fuel consumption is reduced substantially.

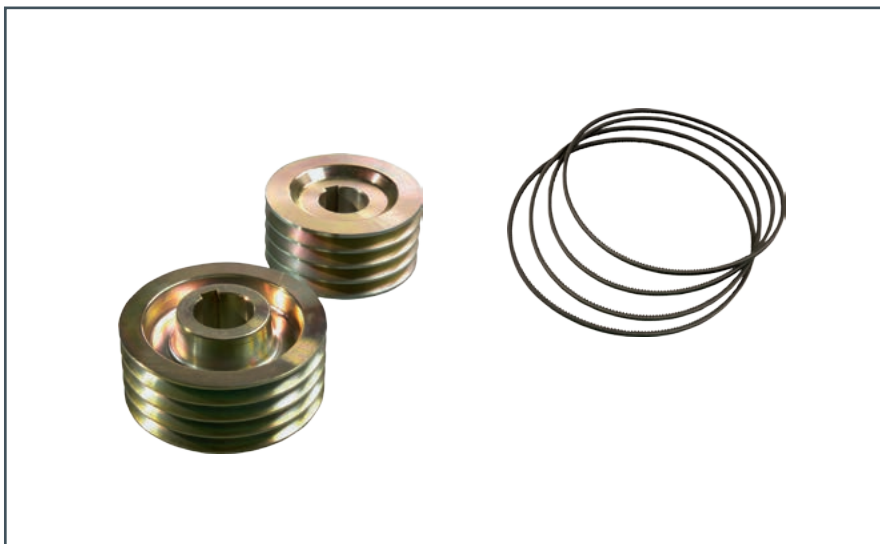
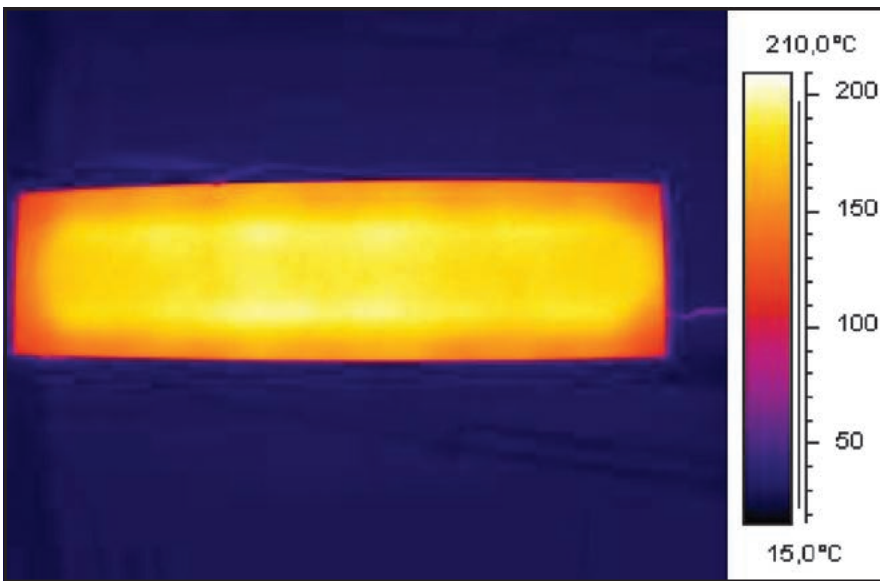
In all VÖGELE tractor units, a sturdy three-phase A.C. generator is installed to supply the electric power for screed heating. Even with the engine running at minimum rpm, the screed's compacting systems are heated to operating temperature within no more than a few minutes.

Proper selection of the generator as a function of your maximum pave width also depends on several other facts, such as:

- > Type of tractor unit and screed type
- > Systems equipped for compaction
- > Use of standard screed heating or extra heating rods
- > Use of working lights or heating rods for end plates

Original VÖGELE V-belt pulleys provide perfect power transmission from the engine to the generator for screed heating. They stand out through absolutely smooth running and, thanks to an optimised coefficient of friction, guarantee long low-wear operation of the heavy-duty V-belts.

For generator drive, VÖGELE use modern heavy-duty V-belts only. Due to optimised contact surfaces, they are characterised by higher performance and feature long service life and excellent power transmission.



ORIGINAL VÖGELE GENERATORS

Machine type	Model	Series range	Power output (kW)	Generator	Voltage regulator
				Part No.	Part No.
SUPER 700, SUPER 800	0790	0010 - 9999	5/8.5	2014354	2011835
SUPER 700-3(i), SUPER 800-3(i)	0890	0010 - 9999	5/8.5	2368769	2413259
SUPER 1100-2, SUPER 1300-2	0811	0010 - 9999	7/13	2044135*	2032377
SUPER 1103-2, SUPER 1303-2	0911	0010 - 9999	7/13	2044135*	2032377
SUPER 1100-3(i), SUPER 1300-3(i)	1011	0010 - 9999	10/13	2220310*	2335729
SUPER 1103-3(i), SUPER 1303-3(i)	1111	0010 - 9999	10/13	2220310*	2335729
SUPER 1800	0668	0010 - 9999	13/18 maximum rpm	2086343**	3515043283
			18/25 maximum rpm	2086345**	3515043283
			18/25 idling rpm	2086345**	3515043283
			16 direct current	4625201077	
			23 direct current	4625201075	
SUPER 1804	0669	0010 - 9999	13/18 maximum rpm	2086343**	3515043283
			18/25 maximum rpm	2086345**	3515043283
			18/25 idling rpm	2086345**	3515043283
			16 direct current	4625201077	
			23 direct current	4625201075	
SUPER 1900, SUPER 2100	0619	0010 - 9999	22/36 idling rpm	2130138	3515180021
			27/44 idling rpm	2130079	3515180021
SUPER 1800-1, SUPER 1600-1	0782	0010 - 9999	13/18 idling rpm	2086343**	3515043283
			22/36 idling rpm	2112706	3515180021
			27/44 idling rpm	2112726	3515180021
SUPER 1600-1, SUPER 1800-1	0982	0010 - 9999	Standard	2026061*	2032378
			Power	2032544*	2032378
SUPER 1603-1, SUPER 1803-1	0783	0010 - 9999	13/18 idling rpm	2086343**	3515043283
			22/36 idling rpm	2112706	3515180021

* V-belt pulley (driven end) already mounted · ** Only available as replacement generators and deposit



Machine type	Model	Series range	Power output (kW)	Generator	Voltage regulator
				Part No.	Part No.
SUPER 1600-2, SUPER 1800-2 (SJ)	1182	0010 - 9999	13/18 idling rpm	2086343**	3515043283
			22/36 idling rpm	2112706	3515180021
			27/44 idling rpm	2112726	3515180021
SUPER 1603-2, SUPER 1803-2	0883	0010 - 9999	13/18 idling rpm	2086343**	3515043283
			22/36 idling rpm	2112706	3515180021
SUPER 1900-2, SUPER 2100-2	0719	0010 - 9999	22/36 idling rpm	2112569	3515180021
			27/44 idling rpm	2112574	3515180021
SUPER 2100-2 IP	0719	0727 - 9999	Power	2112574*	3515180021
SUPER 1600-3(i)	1582	0010 - 9999	Standard	2181135	2287963
SUPER 1603-3(i)	1183	0010 - 9999	Standard	2181135	2287963
SUPER 1800-3(i), SJ	1482	0010 - 9999	Standard	2148312	2222936
			Power	2142586	2222936
SUPER 1803-3(i)	1083	0010 - 9999	Standard	2148312	2222936
SUPER 1900-3(i)	0819	0010 - 9999	Standard	2148312	2222936
			Power	2479725	2222936
SUPER 2000-3(f)	1174	0010 - 9999	Standard	2403721	2372261
SUPER 2003-3(f)	0975	0010 - 9999	Standard	2403721	2372261
SUPER 2100-3(i)	0819	0010 - 9999	Standard	2148312	2222936
			Power	2479725	2222936
SUPER 2500	0674	0010 - 9999	26/34	2086346**	3515043283
SUPER 3000-2	0874	0010 - 9999	Power	2109780	2220300
VISION 5100-2	1382	0004 - 9999	Standard	2071960	2220300
VISION 5103-2	0983	0004 - 9999	Standard	2071960	2220300
VISION 5200-2	0774	0010 - 9999	Standard	2112898*	2266960
			Power	2112894*	2266960
VISION 5203-2	0775	0010 - 9999	Standard	2112898*	2266960
			Power	2112894*	2266960
VISION 5200-2(i)	0974	0010 - 9999	Standard	2112898*	2266960
VISION 5203-2(i)	0875	0010 - 9999	Standard	2112898*	2266960
MT 3000-2	0761	0010 - 9999	Standard	2150018	2277964

* V-belt pulley (driven end) already mounted · ** Only available as replacement generators and deposit



ORIGINAL VÖGELE

V-BELTS

Machine type	Model	Series range	Power output (kW)	V-belt pulley (driven end)	V-belts	
					Quantity	Part No.
SUPER 700, SUPER 800	0790	0010 - 9999	5/8.5	2024975	1	2034422
SUPER 700-3(i), SUPER 800-3(i)	0890	0010 - 9999	5/8.5	2338658	2	3304211357
SUPER 1100-2, SUPER 1300-2	0811	0010 - 9999	7/13	2044085	2	2048342
SUPER 1103-2, SUPER 1303-2	0911	0010 - 9999	7/13	2044085	2	2048342
SUPER 1100-3(i), SUPER 1300-3(i)	1011	0010 - 9999	10/13	2236103	2	2244137
SUPER 1103-3(i), SUPER 1303-3(i)	1111	0010 - 9999	10/13	2236103	2	2244137
SUPER 1800	0668	0010 - 9999	13/18 maximum rpm	4617342295	1	3303241832
			18/25 maximum rpm	4617342350	5	3304211800
			18/25 idling rpm	4617342350	5	3304211800
		0010 - 0608	16 direct current	4617342235	1	3303241157
		0609 - 1177	16 direct current	4617342235	1	3303241807
		1178 - 9999	16 direct current	4617342235	1	3303241832
		0010 - 1402	23 direct current	4617342274	1	3303241832
		1403 - 9999	23 direct current	4617342331	1	3303241832
SUPER 1804	0669	0010 - 9999	13/18 maximum rpm	4617342295	1	3303241832
			18/25 maximum rpm	4617342350	5	3304211800
			18/25 idling rpm	4617342350	5	3304211800
		0010 - 0299	16 direct current	4617342235	1	3303241157
		0300 - 0344	16 direct current	4617342235	1	3303241807
		0345 - 9999	16 direct current	4617342235	1	3303241832
		0010 - 0344	23 direct current	4617342274	1	3303241832
		0345 - 9999	23 direct current	4617342331	1	3303241832
SUPER 1900, SUPER 2100	0619	0010 - 9999	22/36 idling rpm	4617342357	6	3304211457
			27/44 idling rpm	4617342357	6	3304211457



Machine type	Model	Series range	Power output (kW)	V-belt pulley (driven end)	V-belts	
					Quantity	Part No.
SUPER 1600-1, SUPER 1800-1	0782	0010 - 9999	13/18 idling rpm	2009797	1	2028978
			22/36 idling rpm	2009797	1	2028978
			27/44 idling rpm	2009797	1	2028978
SUPER 1600-1, SUPER 1800-1	0982	0010 - 9999	Standard	2014529	1	2028978
			Power	2032523	1	2036648
SUPER 1603-1, SUPER 1803-1	0783	0010 - 9999	13/18 idling rpm	2009797	1	2028978
			22/36 idling rpm	2009797	1	2028978
SUPER 1600-2, SUPER 1800-2 (SJ)	1182	0010 - 9999	13/18 idling rpm	2009797	1	2028978
			22/36 idling rpm	2009797	1	2028978
			27/44 idling rpm	2009797	1	2028978
SUPER 1603-2, SUPER 1803-2	0883	0010 - 9999	13/18 idling rpm	2009797	1	2028978
			22/36 idling rpm	2009797	1	2028978
SUPER 1900-2, SUPER 2100-2	0719	0010 - 9999	22/36 idling rpm	2034929	1	2034969
			27/44 idling rpm	2034929	1	2034969
SUPER 2100-2 IP	0719	0727 - 0852	27/44 idling rpm	2034929	1	2034969
		0853 - 9999	27/44 idling rpm	2034929	1	2131259
SUPER 2500	0674	0010 - 0040	26/34 three-phase current	4617342314	5	3303251732
		0041 - 0042	26/34 three-phase current	4617342314	5	3304211757
		0043 - 9999	26/34 three-phase current	4617342314	5	3304211900
VISION 5200-2	0774	0010 - 9999	Standard	2009797	1	2115169
			Power	2009797	1	2115169
VISION 5203-2	0775	0010 - 9999	Standard	2009797	1	2115169
			Power	2009797	1	2115169
VISION 5200-2(i)	0974	0010 - 9999	Standard	2009797	1	2115169
VISION 5203-2(i)	0875	0010 - 9999	Standard	2009797	1	2115169

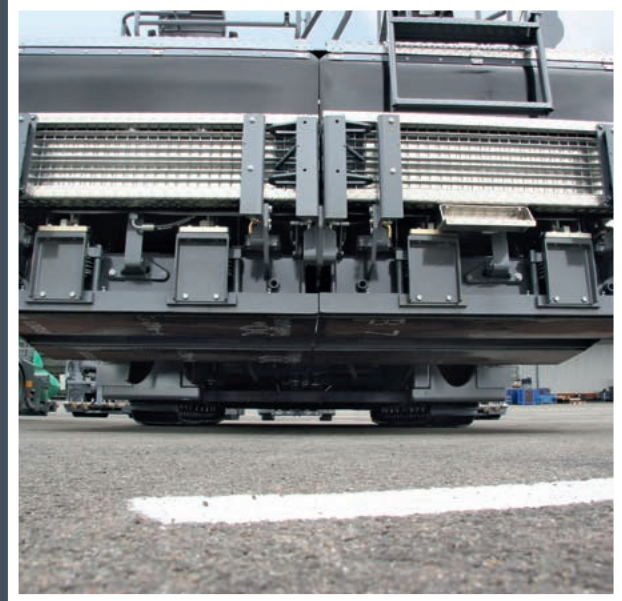


ORIGINAL VÖGELE HEATING RODS

The heating rods of tamper bars, pressure bars and screed plates are vital components of the electrical screed heating system.

Their easy fitting simplifies maintenance and exchange.

Thanks to soldered cable contacts and amply dimensioned cable lengths, the heating rods are unsusceptible to vibrations.



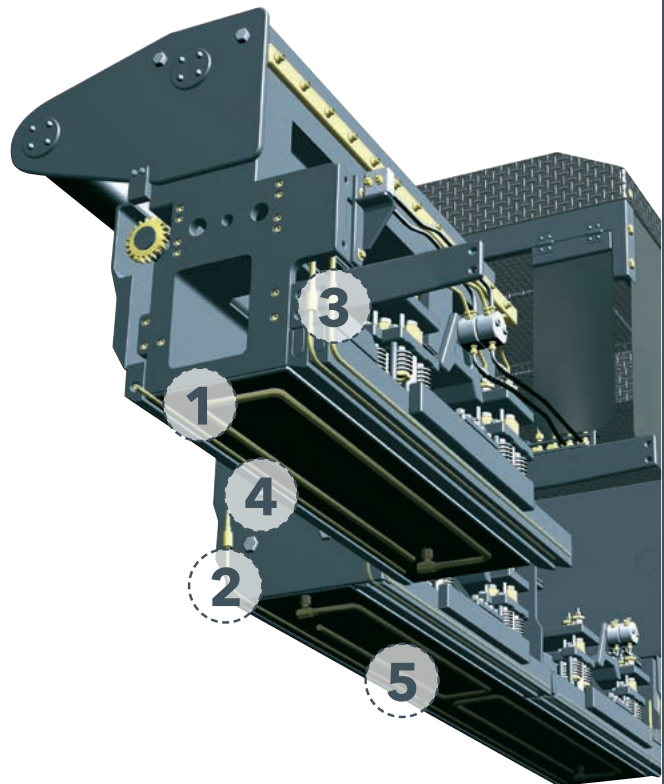
1 *The screed heating system is electrically controlled. The functionality of the heating rods can be checked immediately after switching it on.*

2 *The heating rods can be replaced easily.*

3 *The soldered cable contacts and oversized cable loops in the sleeve help against vibration.*

4 *The use of silicone rubber as a sealing compound in the sleeve prevents the penetration of dirt and diesel.*

5 *The heating rods are resistant to high temperatures.*





HEATING RODS FOR TAMPER BARS OF THE BASIC SCREED

Screed type	Model	Series range	Heating rods for tamper bars and pressure bars	
			Quantity	Part No.
AB 200 TV	12AB	0010 - 9999	4	2013523
AB 220-3 TV	28AB	0010 - 9999	4	2368902
AB 340 TV	13AB	0010 - 9999	4	2044960
AB 340-3 TV	27AB	0010 - 9999	4	2044960
AB 500 TV	10AB	0010 - 9999	4	4608150169
AB 500 TP1	10AB	0010 - 9999	8	4608150169
AB 500 TP2	10AB	0010 - 9999	12	4608150169
AB 500-2 TV	14AB	0010 - 9999	4	2035050
AB 500-2 TP1	15AB	0010 - 9999	8	2035050
AB 500-2 TP2	15AB	0010 - 9999	12	2035050
AB 500-3 TV	23AB	0010 - 9999	4	2035050
AB 500-3 TP1	24AB	0010 - 9999	8	2035050
AB 500-3 TP2	24AB	0010 - 9999	12	2035050
AB 600 TV	11AB	0010 - 9999	4	4608150202
AB 600 TP1	11AB	0010 - 9999	8	4608150202
AB 600 TP2	11AB	0010 - 9999	12	4608150202
AB 600-2 TV	16AB	0010 - 9999	4	2056558
AB 600-2 TP1	17AB	0010 - 9999	8	2056558
AB 600-2 TP2	17AB	0010 - 9999	12	2056558
AB 600-3 TV	25AB	0010 - 9999	4	2056558
AB 600-3 TP1	26AB	0010 - 9999	8	2056558
AB 600-3 TP2	26AB	0010 - 9999	12	2056558
SB 250 TV	02SB	0010 - 9999	2	4608150168
SB 250 TP1	02SB	0010 - 9999	4	4608150168
SB 250 TP2	02SB	0010 - 9999	6	4608150168
SB 250-2 TV	05SB	0010 - 9999	2	4608150168
SB 250-2 TP1	05SB	0010 - 9999	4	4608150168
SB 250-2 TP2	05SB	0010 - 9999	6	4608150168
SB 300 TV	03SB	0010 - 9999	2	4608150100
SB 300 TP1	03SB	0010 - 9999	4	4608150100
SB 300 TP2	03SB	0010 - 9999	6	4608150100
SB 300-2 TV	06SB	0010 - 9999	2	4608150100
SB 300-2 TP1	06SB	0010 - 9999	4	4608150100
SB 300-2 TP2	06SB	0010 - 9999	6	4608150100

ORIGINAL VÖGELE

HEATING RODS

FOR TAMPER BARS OF THE BASIC SCREED

Screed type	Model	Series range	Heating rods for screed plates		
			Designation	Quantity	Part No.
AB 200 V	12AB	0010 - 0546		4	2013521
		0547 - 9999		4	2057071
AB 200 TV	12AB	0010 - 9999		4	2013521
AB 220-3 V	28AB	0010 - 9999		4	2341960
AB 220-3 TV	28AB	0010 - 9999		4	2342131
AB 340 V	13AB	0010 - 9999		4	2060753
AB 340 TV	13AB	0010 - 9999		4	2043840
AB 340-3 V	27AB	0010 - 9999		4	2275929
AB 340-3 TV	27AB	0010 - 9999		4	2275932
AB 500 TV	10AB	0010 - 9999		4	4608150166
AB 500 TP1	10AB	0010 - 9999		4	4608150190
AB 500 TP2	10AB	0010 - 9999		4	4608150173
AB 500-2 TV, TP	14AB, 15AB	0010 - 9999	Screed plate left	1	2035986
			Screed plate right	1	2035992
			Extension left	1	2035992
			Extension right	1	2035986
AB 500-3 TV, TP	23AB, 24AB	0010 - 9999	Screed plate left	1	2035986
			Screed plate right	1	2035992
			Extension left	1	2035992
			Extension right	1	2035986
AB 600 TV	11AB	0010 - 9999		4	4608150199
AB 600 TP	11AB	0010 - 9999		4	4608150200
AB 600-2 TV, TP	16AB, 17AB	0010 - 9999	Screed plate left	1	2056568
			Screed plate right	1	2056569
			Extension left	1	2056569
			Extension right	1	2056568
AB 600-3 TV, TP	25AB, 26AB	0010 - 9999	Screed plate left	1	2056568
			Screed plate right	1	2056569
			Extension left	1	2056569
			Extension right	1	2056568
VR 600-2 V	18AB	0010 - 9999	Screed plate left + right	2	2119873
			Extension left + right	2	2112914
				4	2096490



Screed type	Model	Series range	Heating rods for screed plates		
			Designation	Quantity	Part No.
VF 500-2 V	19AB	0010 - 9999	Screed plate right	1	2190671
				1	2190087
				1	2276013
			Screed plate left	1	2190087
				1	2160671
				1	2276013
			Extension left + right without berm	2	2182409
				2	2137038
			Extension left 305-mm berm	1	2141834
				1	2137044
				1	2137043
				1	2137037
			Extension right 305-mm berm	1	2137041
				1	2137044
				1	2137043
				1	2137037
			Extension left 457-mm berm	1	2191782
				1	2137048
				1	2191048
				1	2137039
			Extension right 457-mm berm	1	2191058
				1	2137048
				1	2191048
				1	2137039
			Extension left 610-mm berm	1	2194547
				1	2137046
				1	2193930
				1	2137042
			Extension right 610-mm berm	1	2192596
				1	2137046
1	2193930				
1	2137042				



ORIGINAL VÖGELE
HEATING RODS
FOR TAMPER BARS OF THE BASIC SCREED

Screed type	Model	Series range	Heating rods for screed plates		
			Designation	Quantity	Part No.
VF 600-2 V	20AB	0010 - 9999	Screed plate right	1	2137032
				1	2137031
				1	2137029
			Screed plate left	1	2137031
				1	2137032
				1	2137029
			Extension left + right without berm	2	2138475
				2	2169384
			Extension left 305-mm berm	1	2141819
				1	2137044
				1	2137038
				1	2137037
			Extension right 305-mm berm	1	2137045
				1	2137044
				1	2137038
				1	2137037
			Extension left 457-mm berm	1	2141794
				1	2137048
				1	2137040
				1	2137039
			Extension right 457-mm berm	1	2147047
				1	2137048
				1	2137040
				1	2137039
			Extension left 610-mm berm	1	2141834
				1	2137046
				1	2137043
				1	2137042
			Extension right 610-mm berm	1	2137041
				1	2137046
				1	2137043
				1	2137042
SB 250 TV, TP1, TP2	02SB	0010 - 9999		4	4608150006
SB 250-2 TV, TP1, TP2	05SB	0010 - 9999	Screed plate left	1	2121664
				1	2121669
			Screed plate right	1	2121669
				1	2121664
SB 300 TV, TP1, TP2	03SB	0010 - 9999		4	4608150003
SB 300-2 TV, TP1, TP2	06SB	0010 - 9999	Screed plate left	1	2119621
				1	2119711
			Screed plate right	1	2119711
				1	2119621



HEATING RODS FOR ADDITIONAL HEATING OF THE BASIC SCREED

Screed type	Model	Series range	Heating rod for additional heating	
			Quantity	Part No.
AB 500 TV, TP1, TP2	10AB	0010 - 9999	4	4608150167*
			4	4608150192
AB 600 TV, TP1, TP2	11AB	0010 - 9999	4	4608150210
			4	4608150208*
SB 250 TV, TP1, TP2	02SB	0010 - 9999	2	2053770
SB 300 TV, TP1, TP2	03SB	0010 - 9999	2	2053768



> SUPER Series:
Uniform and constant
screed heating adds
to high pavement
quality.

* Not for SUPER 1800 (0668), SUPER 2500 (0674)

ORIGINAL VÖGELE

HEATING RODS FOR BOLT-ON EXTENSIONS

Screed type	Model	Series range	Bolt-on extension (m)	Heating rods for tamper bars and pressure bars		Heating rods for screed plates			
				Quantity	Part No.	Designation	Quantity	Part No.	
AB 200 V	12AB	0010 - 0546	0.35				2	2014017	
		0547 - 9999					2	2057073	
		0010 - 9999	0.60				2	2057080	
AB 200 TV	12AB	0010 - 9999	0.35	2	2014019		2	2014017	
			0.60	2	2030992		2	2030954	
AB 220-3 V	28AB	0010 - 9999	0.50				2	2375552	
AB 220-3 TV	28AB	0010 - 9999	0.50	2	2374683		2	2372972	
			0.65	2	2376402		2	2376443	
AB 340 V	13AB	0814 - 9999	0.25				2	2158785	
		0010 - 9999	0.40				2	2060750	
AB 340 TV	13AB	0010 - 9999	0623 - 9999	0.25	2	2157593		2	2158785
			0010 - 9999	0.40	2	2051126		2	2051149
			0010 - 9999	0.55	2	2047003		2	2047175
			0402 - 9999	0.80	2	2067126		2	2067119
AB 340-3 V	27AB	0010 - 9999	0.25				2	2158785	
			0.40				2	2060750	
AB 340-3 TV	27AB	0010 - 9999	0.25	2	2157593		2	2158785	
			0.55	2	2047003		2	2047175	
			0.80	2	2255040		2	2255038	
AB 500 TV, AB 600 TV	10AB, 11AB	0010 - 9999	0.225	2	4608150189		2	4608150195	
			0.75	2	4608150174		2	4608150170	
			1.25	2	4608150169		2	4608150204	
AB 500 TP1, AB 600 TP1	10AB, 11AB	0010 - 9999	0.225	4	4608150189		2	4608150195	
			0.75	4	4608150174		2	4608150191	
			1.25	4	4608150169		2	4608150204	
AB 500 TP2, AB 600 TP2	10AB, 11AB	0010 - 9999	0.225	6	4608150189		2	4608150195	
			0.75	6	4608150174		2	4608150172	
			1.25	6	4608150169		2	4608150204	
AB 500-2 TV, AB 600-2 TV	14AB, 16AB	0010 - 9999	0.25	2	2041147	left	1	2041149	
						right	1	2041151	
			0.75	2	2035055	left	1	2036690	
						right	1	2036728	
			1.25	2	2035050	left	1	2035986	
						right	1	2035992	



Screed type	Model	Series range	Bolt-on extension (m)	Heating rods for tamper bars and pressure bars		Heating rods for screed plates		
				Quantity	Part No.	Designation	Quantity	Part No.
AB 500-2 TP1, AB 600-2 TP1	15AB, 17AB	0010 - 9999	0.25	4	2041147	left	1	2041149
						right	1	2041151
			0.75	4	2035055	left	1	2036690
						right	1	2036728
			1.25	4	2035050	left	1	2035986
						right	1	2035992
AB 500-2 TP2, AB 600-2 TP2	15AB, 17AB	0010 - 9999	0.25	6	2041147	left	1	2041149
						right	1	2041151
			0.75	6	2035055	left	1	2036690
						right	1	2036728
			1.25	6	2035050	left	1	2035986
						right	1	2035992
AB 500-3 TV, AB 600-3 TV	23AB, 25AB	0010 - 9999	0.25	2	2041147	left	1	2041149
						right	1	2041151
			0.75	2	2035055	left	1	2036690
						right	1	2036728
			1.25	2	2035050	left	1	2035986
						right	1	2035992
AB 500-3 TP1, AB 600-3 TP1	24AB, 26AB	0010 - 9999	0.25	4	2041147	left	1	2041149
						right	1	2041151
			0.75	4	2035055	left	1	2036690
						right	1	2036728
			1.25	4	2035050	left	1	2035986
						right	1	2035992
AB 500-3 TP2, AB 600-3 TP2	24AB, 26AB	0010 - 9999	0.25	6	2041147	left	1	2041149
						right	1	2041151
			0.75	6	2035055	left	1	2036690
						right	1	2036728
			1.25	6	2035050	left	1	2035986
						right	1	2035992
VR 600-2 V	18AB	0010 - 9999	0.65	2	2123611	left	1	2123603
						right	1	2126439
VF 500-2 V	19AB	0010 - 9999	0.305	2	2137044		2	2137037
			0.61	2	2137042		2	2137046
VF 600-2 V	20AB	0010 - 9999	0.305	2	2137044		2	2137037
			0.61	2	2137042		2	2137046
SB 250 TV, SB 300 TV	02SB, 03SB	0010 - 9999	0.25	2	4608150189		4	4608150115
			0.50	2	4608150105		4	4608150071
			0.75 (extensible)	2	4608150184		4	4608150116
			1.00	2	4608150184		4	4608150037
			1.50	2	4608150100		4	4608150003



VÖGELE

ORIGINAL VÖGELE

HEATING RODS FOR BOLT-ON EXTENSIONS

Screed type	Model	Series range	Bolt-on extension (m)	Heating rods for tamper bars and pressure bars		Heating rods for screed plates					
				Quantity	Part No.	Designation	Quantity	Part No.			
SB 250 TP1, SB 300 TP1	02SB, 03SB	0010 - 9999	0.25	4	4608150189		4	4608150115			
			0.50	4	4608150105		4	4608150071			
			0.75 (extensible)	4	4608150184		4	4608150116			
			1.00	4	4608150184		4	4608150037			
			1.50	4	4608150100		4	4608150003			
SB 250 TP2, SB 300 TP2	02SB, 03SB	0010 - 9999	0.25	6	4608150189		4	4608150115			
			0.50	6	4608150105		4	4608150071			
			0.75 (extensible)	6	4608150184		4	4608150116			
			1.00	6	4608150184		4	4608150037			
			1.50	6	4608150100		4	4608150003			
SB 250-2 TV, SB 300-2 TV	05SB, 06SB	0010 - 9999	0.25	2	4608150189	left	1	2122379			
						right	1	2122384			
			0.50	2	4608150105	left	2	2121768			
						right	2	2121859			
			0.75 (extensible)	2	4608150184	left	1	2121689			
						right	1	2121757			
			1.00	2	4608150184	left	2	2119791			
						right	2	2119815			
			1.50	2	4608150100	left	2	2148138			
						right	2	2148151			
			SB 250-2 TP1, SB 300-2 TP1	05SB, 06SB	0010 - 9999	0.25	4	4608150189	left	1	2122379
									right	1	2122384
0.50	4	4608150105				left	2	2121768			
						right	2	2121859			
0.75 (extensible)	4	4608150184				left	1	2121689			
						right	1	2121757			
1.00	4	4608150184				left	2	2119791			
						right	2	2119815			
1.50	4	4608150100				left	2	2148138			
						right	2	2148151			
SB 250-2 TP2, SB 300-2 TP2	05SB, 06SB	0010 - 9999				0.25	6	4608150189	left	1	2122379
									right	1	2122384
			0.50	6	4608150105	left	2	2121768			
						right	2	2121859			
			0.75 (extensible)	6	4608150184	left	1	2121689			
						right	1	2121757			
			1.00	6	4608150184	left	2	2119791			
						right	2	2119815			
			1.50	6	4608150100	left	2	2148138			
						right	2	2148151			



HEATING RODS FOR ADDITIONAL HEATING FOR BOLT-ON EXTENSIONS

Screed type	Model	Series range	Bolt-on extension (m)	Heating rods for additional heating	
				Quantity	Part No.
AB 500 TV, AB 600 TV	10AB, 11AB	0010 - 9999	0.75	2	4608150171
				2	4608150193*
			1.25	2	4608150209
				2	4608150211*
AB 500 TP1, AB 600 TP1	10AB, 11AB	0010 - 9999	0.75	2	4608150171
				2	4608150193*
			1.25	2	4608150209
				2	4608150211*
AB 500 TP2, AB 600 TP2	10AB, 11AB	0010 - 9999	0.75	2	4608150171
				2	4608150193*
			1.25	2	4608150209
				2	4608150211*
SB 250 TV, SB 300 TV	02SB, 03SB	0010 - 9999	0.25	2	4608150115
			0.50	2	4608150071
			0.75 (extensible)	2	4608150116
			1.00	2	4608150037
			1.50	2	4608150003
SB 250 TP1, SB 300 TP1	02SB, 03SB	0010 - 9999	0.25	2	4608150115
			0.50	2	4608150071
			0.75 (extensible)	2	4608150116
			1.00	2	4608150037
			1.50	2	4608150003
SB 250 TP2, SB 300 TP2	02SB, 03SB	0010 - 9999	0.25	2	4608150115
			0.50	2	4608150071
			0.75 (extensible)	2	4608150116
			1.00	2	4608150037
			1.50	2	4608150003

* Not for SUPER 1800 (0668), SUPER 2500 (0674)



ORIGINAL VÖGELE GUIDE RAILS AND SLIDE BLOCKS

VÖGELE guide rails and slide blocks are a guarantee for paving to a high standard of accuracy.

Materials, which are adapted best to each other provide perfect guidance of the screed's extending units, free from slack. Be sure that greasing services are performed on a regular basis.

They are part of the VÖGELE torque restraint system. The guide bar is attached to the screed body of the extending parts using bolts. The sliding blocks are attached to the outer extending parts of the screed. They are located above and below the guide bar.



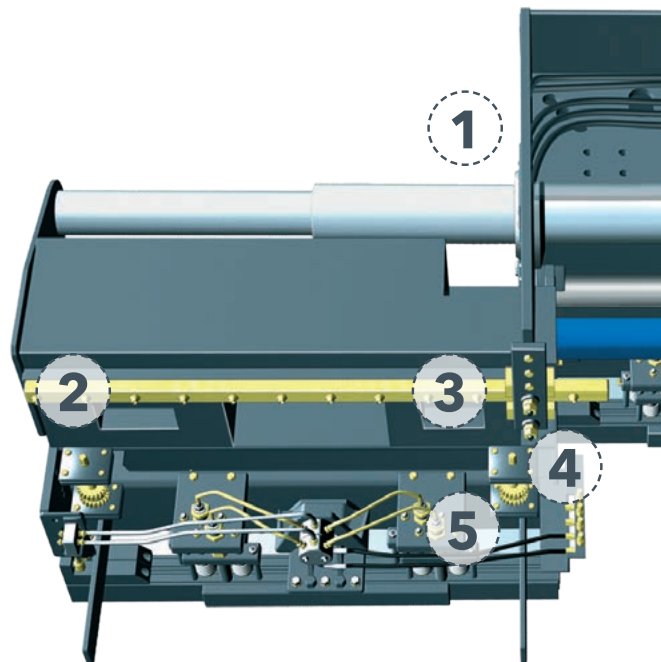
1 *The cleverly designed guide provides a high degree of strengthening that enables the extending units to cope safely with the loads placed on them.*

2 *The guide bar is securely attached to the screed body of the extending units using bolts.*

3 *The sliding blocks can be reused - they just have to be rotated.*

4 *The bottom sliding block is attached in such a way that when it wears it can be adjusted without difficulty using an eccentric attachment.*

5 *To ensure optimal adjustment, loosen the counter nut, extend the screed completely and then retract it again.*





Screed type	Model	Series range	Guide rails		Sliding blocks	
			Quantity	Part No.	Quantity	Part No.
AB 200	12AB	0010 - 0107	2	2014112	2	2020398
					2	2020401
		0108 - 9999	2	2038101	2	2020398
					2	2020401
AB 220-3	28AB	0010 - 9999	2	2369358	4	2242347
AB 340	13AB	0010 - 9999	2	2043185	2	2020398
					2	2020401
AB 340-3	27AB	0010 - 9999	2	2043185	4	2242347
AB 500	10AB	0010 - 0366	2	4606123466	4	4607252008
		0367 - 9999	2	2009647	4	4607252008
AB 500-2	14AB, 15AB	0010 - 9999	2	2009647	4	4607252008
AB 500-3	23AB, 24AB	0010 - 9999	2	2228916	4	4607252008
AB 600	11AB	0010 - 0049	2	4606123484	4	4607252008
		0050 - 9999	2	2014773	4	4607252008
AB 600-2	16AB, 17AB	0010 - 9999	2	2014773	4	4607252008
AB 600-3	25AB, 26AB	0010 - 9999	2	2228918	4	4607252008
VR 600-2	18AB	0010 - 9999	2	2014773	4	4607252008
SB 250 / 0.75 m hydraulic bolt-on extension	02SB	0010 - 9999	2	4615106642	4	4607252006
SB 250 / 0.75 m hydraulic bolt-on extension	05SB	0010 - 9999	2	4615106642	4	4607252006
SB 300 / 0.75 m hydraulic bolt-on extension	03SB	0010 - 9999	2	4615106642	4	4607252006
SB 300 / 0.75 m hydraulic bolt-on extension	06SB	0010 - 9999	2	4615106642	4	4607252006



ORIGINAL VÖGELE TELESCOPING TUBES

The telescoping tubes' whole process of manufacture meets tight tolerance requirements, thus ensuring a high level of quality.

Telescoping tubes are nickel-plated. This provides for low wear operation as well as positive and accurate paving throughout a long service life.

The extending tubes package consists of an outer tube, an intermediate tube, and an inner tube.



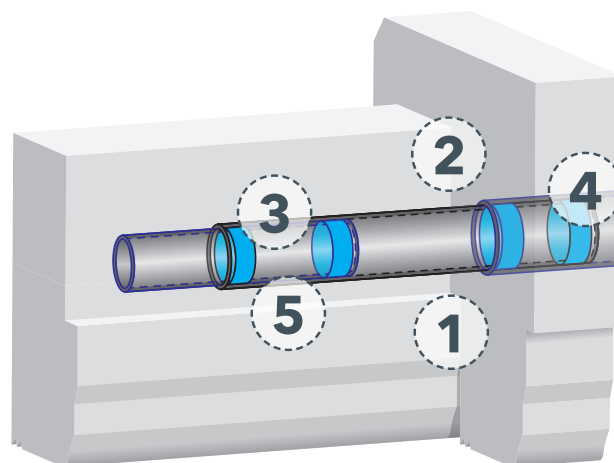
1 *Telescoping tubes* provide the extending screed with the necessary stability.

2 *Honing and grinding processes* ensure the best play.

3 *The nickel-plated surface* is low-wear.

4 *Teflon tapes* ensure perfect gliding properties.

5 *The highest possible precision* facilitates the extension and retraction.





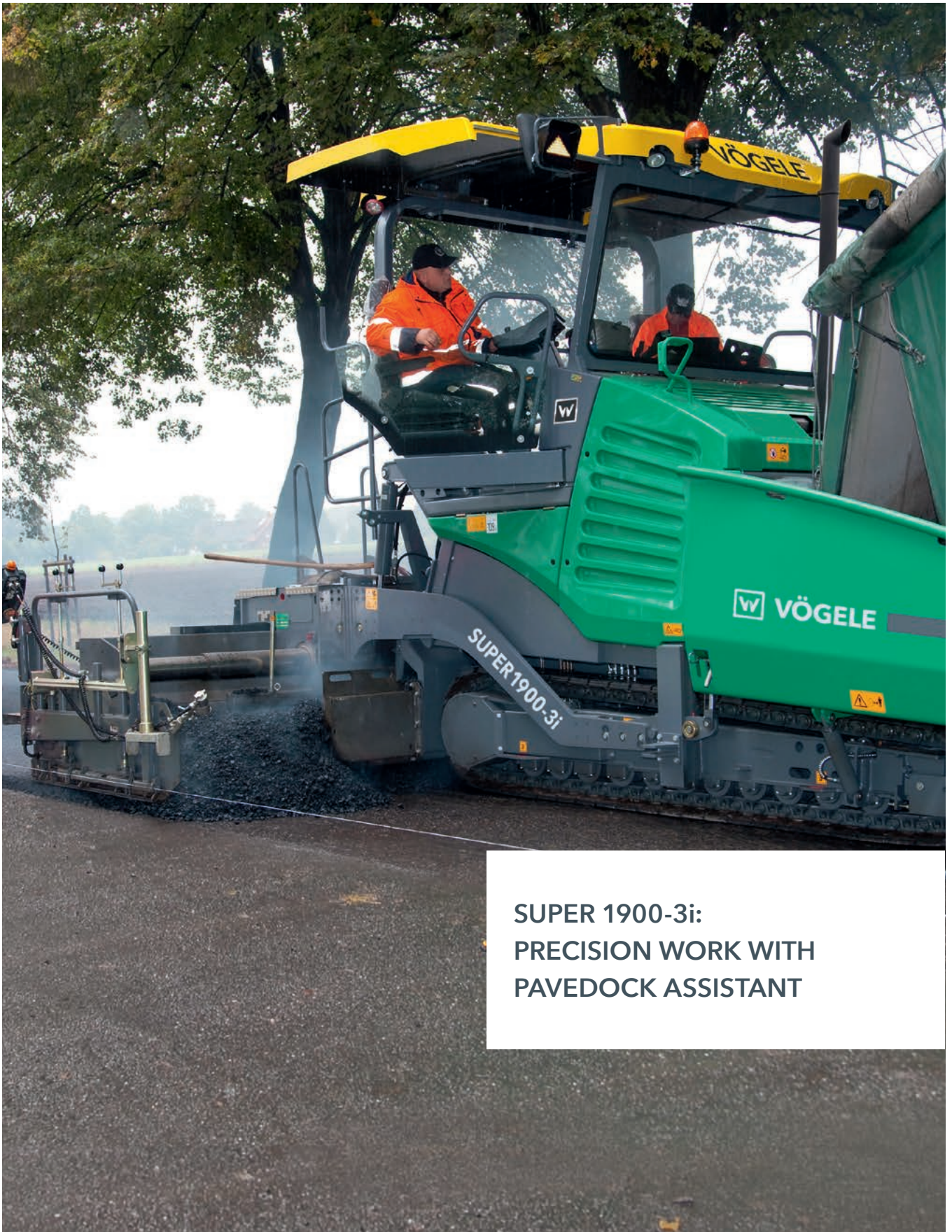
Screed type	Model	Series range	Designation	Quantity	Part No.
AB 200	12AB	0010 - 0041	Outer tube	2	2035620
			Piston rod	2	2014469
			Scraper	2	2014682
			Guide ring	2	2014681
		0042 - 9999	Outer tube	2	2037603
			Piston rod	2	2037604
			Scraper	4	2014682
			Guide ring	8	2014680
			Guide ring	2	2014681
AB 220-3	28AB	0010 - 9999	Outer tube	2	2369616
			Piston rod	2	2369621
			Scraper	4	2014682
			Guide ring	8	2014680
			Guide ring	2	2014681
AB 340	13AB	0010 - 9999	Outer tube	2	2043540
			Intermediate tube	2	2043553
			Scraper	4	2044142
			Guide ring	8	2044139
			Guide ring	2	2044141
AB 340-3	27AB	0010 - 9999	Outer tube	2	2043540
			Intermediate tube	2	2043553
			Scraper	4	2044142
			Guide ring	8	2044139
			Guide ring	2	2044141
AB 500	10AB	0010 - 9999	Set of telescoping tubes*	2	2005960
			Wiper ring small	2	4604112068
			Wiper ring large	2	4604112059
			Teflon tape for half shell	2	4624132029
			Glue and hardener for half-shell	1	2013981
AB 500-2	14AB, 15AB	0010 - 9999	Set of telescoping tubes*	2	2005960
			Wiper ring small	2	4604112068
			Wiper ring large	2	4604112059
			Teflon tape for half shell	2	4624132029
			Glue and hardener for half-shell	1	2013981
AB 500-3	23AB, 24AB	0010 - 9999	Set of telescoping tubes*	2	2005960
			Wiper ring small	2	4604112068
			Wiper ring large	2	4604112059
			Plain bearing bush	2	2211074

* Set of telescoping tubes consisting of 1 outer tube, 1 intermediate tube and 1 inner tube

ORIGINAL VÖGELE TELESCOPING TUBES

Screed type	Model	Series range	Designation	Quantity	Part No.
AB 600	11AB	0010 - 9999	Set of telescoping tubes*	2	2038213
			Wiper ring small	2	4604112068
			Wiper ring large	2	4604112059
			Teflon tape for half shell	2	4624132029
			Glue and hardener for half-shell	1	2013981
AB 600-2	16AB, 17AB	0010 - 9999	Set of telescoping tubes*	2	2038213
			Wiper ring small	2	4604112068
			Wiper ring large	2	4604112059
			Teflon tape for half shell	2	4624132029
			Glue and hardener for half-shell	1	2013981
AB 600-3	25AB, 26AB	0010 - 9999	Set of telescoping tubes*	2	2038213
			Wiper ring small	2	4604112068
			Wiper ring large	2	4604112059
			Plain bearing bush	2	2211074
VR 600-2	18AB	0010 - 9999	Set of telescoping tubes*	2	2038213
			Wiper ring small	2	4604112068
			Wiper ring large	2	4604112059
			Teflon tape for half shell	2	4624132029
			Glue and hardener for half-shell	1	2013981
VF 500-2	19AB	0010 - 9999	Telescoping tubes	8	2201947
			Guide ring	48	2134632
			Wiper ring	16	2140458
VF 600-2	20AB	0010 - 9999	Telescoping tubes	8	2134690
			Guide ring	48	2134632
			Wiper ring	16	2140458
SB 250 / 0.75 m hydraulic bolt-on extension	02SB	0010 - 9999	Guide tube	2	4617305116
			Scraper	4	9650060147
SB 250 / 0.75 m hydraulic bolt-on extension	05SB	0010 - 9999	Guide tube	2	4617305116
			Scraper	4	9650060147
SB 300 / 0.75 m hydraulic bolt-on extension	03SB	0010 - 9999	Guide tube	2	4617305116
			Scraper	4	9650060147
SB 300 / 0.75 m hydraulic bolt-on extension	06SB	0010 - 9999	Guide tube	2	4617305116
			Scraper	4	9650060147

* Set of telescoping tubes consisting of 1 outer tube, 1 intermediate tube and 1 inner tube

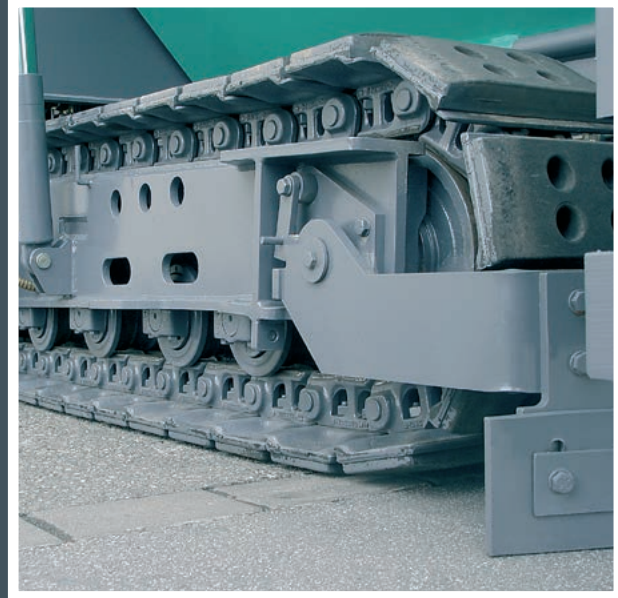


**SUPER 1900-3i:
PRECISION WORK WITH
PAVEDOCK ASSISTANT**

ORIGINAL VÖGELE CRAWLER UNIT CHAINS

VÖGELE crawler tracks are easily able to withstand constant, enormous mechanical stress during day-to-day operations.

Die-forged chain links made of a boron/manganese modified steel feature extraordinarily high strength for a long service life. Contact surfaces are induction hardened, the best precondition also for longevity. The chain's optimised geometry reduces strain when under extreme tension and improves fatigue strength.



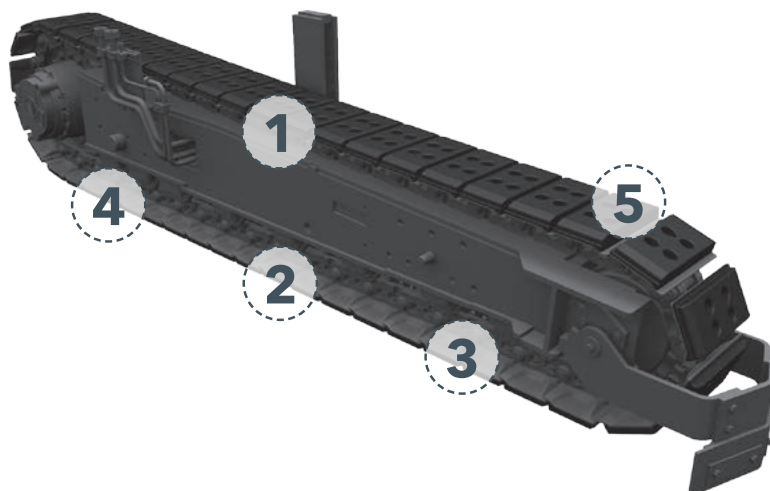
1 *The steel alloy of the track links ensures a long service life.*

2 *Induction-hardened, curved treads perfect the wear behaviour.*

3 *Special design and high intrinsic strength of the track links guarantee the permanent edge stability.*

4 *Hinges withstand extreme soiling and screw connections provide a high dynamic load capacity thanks to their optimised elongation length.*

5 *With their self-locking nut seat the crawler tracks can be easily mounted.*





Machine type	Model	Series range	Crawler track chain	
			with track pads	without track pads
SUPER 700, SUPER 800	0790	0010 - 9999	2013741	2033717
SUPER 700-3(i), SUPER 800-3(i)	0890	0010 - 9999	2013741	2033717
SUPER 1100-2, SUPER 1300-2	0810	0010 - 9999	2043936	2043937
SUPER 1100-3(i), SUPER 1300-3(i)	1011	0010 - 9999	2043936	2043937
SUPER 1800	0668	0010 - 1572	4610302084	4610302086
		1573 - 9999	4610302132	4610302133
SUPER 1900, SUPER 2100	0619	0010 - 9999	4610302130	4610302101
SUPER 1600-1, SUPER 1800-1	0782, 0982	0010 - 9999	4610302084	4610302086
SUPER 1600-2, SUPER 1800-2 (SJ)	1182	0010 - 9999	4610302084	4610302086
SUPER 1900-2, SUPER 2100-2	0719	0010 - 9999	2252658	2056009
SUPER 2100-2 IP	0719	0727 - 9999	2252658	2056009
SUPER 1600-3(i)	1582	0010 - 9999	2332089	2335404
SUPER 1800-3(i), SJ	1482	0010 - 9999	4610302084	4610302086
SUPER 1900-3(i), SUPER 2100-3(i)	0819	0010 - 9999	2252658	2056009
SUPER 2000-3(f)	1174	0010 - 9999		2041065
SUPER 2500	0674	0010 - 9999	4610302096	4610302098
SUPER 3000-2	0874	0010 - 9999	2120854	2120878
VISION 5100-2	1382	0010 - 9999	Fluted	2068496
			Slicks	2375795
VISION 5200-2	0774	0010 - 9999		2041065
VISION 5200-2(i)	0974	0010 - 9999		2041065
MT 1000-1	01MT	0017 - 9999	4610302103	4610302095
MT 3000-2	0761	0010 - 9999	2252658	2056009

ORIGINAL VÖGELE TRACK PADS

VÖGELE road pavers are real powerhouses. It takes an undercarriage with a strong grip to convert their high engine power into optimum traction.

Every centimetre of ground contact counts here. And the right rubber compound. VÖGELE uses track shoes with rubber pads of premium quality to meet their high standards.

Compared with imitated track shoes, original VÖGELE shoes yield clearly higher values in terms of tensile strength, resistance to abrasion, ultimate strain and resistance to tear propagation. VÖGELE rubber pads stand out through a long service life due to a larger volume of solid rubber material.



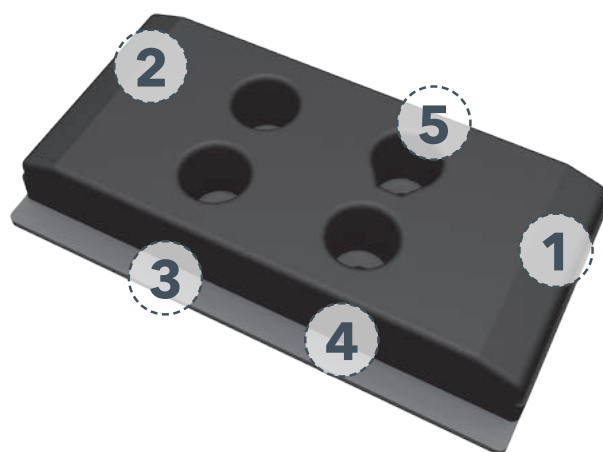
1 *The tapered shape of the track pad ensures excellent running properties and high tensile strength.*

2 *The special rubber compound ensures best traction and maximum pulling power.*

3 *The flat forging plate ensures a significantly better substrate adhesion of the rubber pad.*

4 *The rubber pads are fitted with maximum adhesive strength on the steel plate.*

5 *High-strength special bolts and nuts ensure a durable threaded connection.*



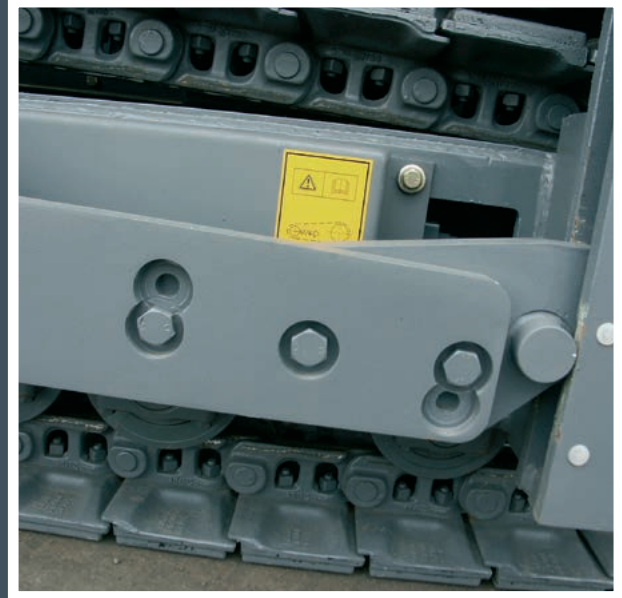


Machine type	Model	Series range	Track pad kit (contains track pad with 4 nuts and bolts)	
			Quantity	Part No.
SUPER 700, SUPER 800	0790	0010 - 9999	66	4624701852
SUPER 700-3(i), SUPER 800-3(i)	0890	0010 - 9999	66	4624701852
SUPER 1100-2, SUPER 1300-2	0811	0010 - 9999	76	2027949
SUPER 1100-3(i), SUPER 1300-3(i)	1011	0010 - 9999	76	2027949
SUPER 1800	0668	0010 - 1572	92	2028019
		1573 - 9999	94	2028019
SUPER 1900, SUPER 2100	0619	0010 - 9999	98	2028019
SUPER 1600-1, SUPER 1800-1	0782, 0982	0010 - 9999	92	2028019
SUPER 1600-2, SUPER 1800-2 (SJ)	1182	0010 - 9999	92	2028019
SUPER 1900-2, SUPER 2100-2	0719	0010 - 9999	98	2372467
SUPER 2100-2 IP	0719	0727 - 9999	98	2372467
SUPER 1600-3(i)	1582	0010 - 9999	82	2028019
SUPER 1800-3(i), SJ	1482	0010 - 9999	92	2028019
SUPER 1900-3(i), SUPER 2100-3(i)	0819	0010 - 9999	98	2372467
SUPER 2500	0674	0010 - 9999	108	2027993
SUPER 3000-2	0874	0010 - 9999	108	2027993
MT 1000-1	01MT	0017 - 9999	100	2028019
MT 3000-2	0761	0010 - 9999	98	2028019

ORIGINAL VÖGELE TRACK ROLLERS

In order to allow positive and reliable tracking even under highest strain, the track rollers are of rugged design and feature a perfect fit.

Due to the high strength of the track rollers, expanding of bushes is positively avoided. Thanks to lifetime grease lubrication, no servicing is required.



1 *The high-quality ball bearings withstand the high loads safely.*

2 *The ideal shape and location of the track roller lead to an optimal guidance of the roller track.*

3 *The wear-resistant seals avoid burdensome maintenance.*

4 *The roller bodies are differently hardened, which ensures maximum wear resistance.*

5 *The hardness of the track rollers and track links is fine-tuned in order to achieve maximum wear life of both components.*





Machine type	Model	Series range	Track roller		
			Ø (mm)	Quantity	Part No.
SUPER 700, SUPER 800	0790	0010 - 9999	130	12	2013745
SUPER 700-3(i), SUPER 800-3(i)	0890	0010 - 9999	130	12	2013745
SUPER 1100-2, SUPER 1300-2	0811	0010 - 9999	135	14	4611340027
SUPER 1100-3(i), SUPER 1300-3(i)	1011	0010 - 9999	135	14	2307941
SUPER 1800	0668	0010 - 9999	150	8	4611340028
			180	10	4611340029
SUPER 1900, SUPER 2100	0619	0010 - 9999	150	12	4611340028
			180	8	4611340029
SUPER 1600-1, SUPER 1800-1	0782, 0982	0010 - 9999	150	10	4611340028
			180	6	4611340029
SUPER 1600-2, SUPER 1800-2 (SJ)	1182	0010 - 9999	150	10	4611340028
			180	6	4611340029
SUPER 1900-2, SUPER 2100-2	0719	0010 - 9999	150	12	2038734
			180	8	2038715
SUPER 2100-2 IP	0719	0727 - 9999	150	12	2038734
			180	8	2038715
SUPER 1600-3(i)	1582	0010 - 9999	150	10	4611340028
			180	6	4611340029
				4	2306186
SUPER 1800-3(i), SJ	1482	0010 - 9999	150	10	4611340028
			180	8	4611340029
				4	2306186
SUPER 1900-3(i), SUPER 2100-3(i)	0819	0010 - 9999	150	14	2038734
			180	8	2038715
			98	6	2199919
SUPER 2000-3(f)	1174	0010 - 9999	300	24	2184765
SUPER 2500	0674	0010 - 9999	180	22	4611340029
SUPER 3000-2	0874	0010 - 9999	180	16	2038715
			180	6	2133094
VISION 5100-2	1382	0010 - 9999	270	24	2080543
VISION 5200-2	0774	0010 - 0146	300	24	2062372
			300	24	2184765
VISION 5200-2(i)	0974	0010 - 9999	300	24	2184765
MT 1000-1	01MT	0017 - 9999	180	18	4611340029
			105	4	4617090001
		0026 - 9999	Plastic cover	4	2013503
MT 3000-2	0761	0010 - 9999	180	8	2038715
			180	12	2149095

ORIGINAL VÖGELE SPROCKETS

In all tracked VÖGELE pavers, the drive units are incorporated into the sprockets.

This allows to transmit engine power to the tracks the best way and translate it into high tractive effort.

The drive wheel transmits the driving torque from the respective hydraulic motor through the gearbox to the crawler track, so that it acts in the crawler track, rotates and so the crawler unit is set in motion.



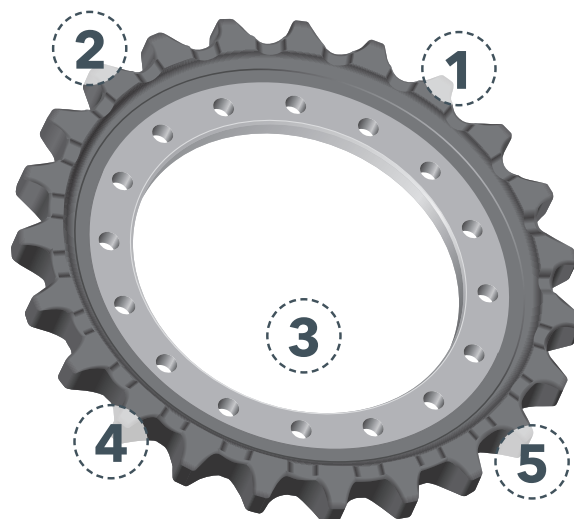
1 *Exact positioning of the drive wheels through machined mating surfaces.*

2 *The tooth divisions of the track and drive wheel are matched accurately to one another.*

3 *The entire drive gear is built for optimal efficiency of the undercarriage.*

4 *The large surface hardening, hardening depth and core hardness ensure particularly high wear and breakage resistance.*

5 *The tooth hardness of the drive wheels is tuned to achieve the best possible service life for the entire drive system.*





Machine type	Model	Series range	Part No.
SUPER 700, SUPER 800	0790	0010 - 9999	2013454
SUPER 700-3(i), SUPER 800-3(i)	0890	0010 - 9999	2364430
SUPER 1100-2, SUPER 1300-2	0811	0010 - 9999	2043368
SUPER 1100-3(i), SUPER 1300-3(i)	1011	0010 - 9999	2043368
SUPER 1800	0668	0010 - 1572	4610042038
		1573 - 9999	4610042048
SUPER 1900, SUPER 2100	0619	0010 - 9999	4610042048
SUPER 1600-1, SUPER 1800-1	0782, 0982	0010 - 9999	4610042048
SUPER 1600-2, SUPER 1800-2 (SJ)	1182	0010 - 9999	4610042048
SUPER 1900-2, SUPER 2100-2	0719	0010 - 9999	2038741
SUPER 2100-2 IP	0719	0727 - 9999	2038741
SUPER 1600-3(i)	1582	0010 - 9999	2331885
SUPER 1800-3(i), SJ	1482	0010 - 9999	4610042048
SUPER 1900-3i, SUPER 2100-3i	0819	0010 - 9999	2038741
SUPER 2000-3(f)	1174	0010 - 9999	2216498
SUPER 2500	0674	0010 - 9999	4610042042
SUPER 3000-2	0874	0010 - 9999	2115904
VISION 5100-2	1382	0010 - 9999	2080552
VISION 5200-2	0774	0010 - 9999	2045214
VISION 5200-2(i)	0974	0010 - 9999	2216498
MT 1000-1	01MT	0017 - 0025	4610062233
		0026 - 9999	2013509
MT 3000-2	0761	0010 - 9999	2038741

ORIGINAL VÖGELE WHEELS AND TYRES

On road pavers, highest demands are made in terms of manoeuvrability, smooth running and tractive effort. In order to guarantee this on any terrain and in all weather conditions VÖGELE, together with renowned suppliers, have optimised tyres for their pavers to meet these demands.

The users' benefits are smooth running, high tractive effort and long service lives of both tyres and undercarriage.



- 1 > Grooved tyres
- 2 > Grooved tyre with rim
- 3 > Slicks



Machine type	Model	Series range	Position	Designation	Version front wheel	Quantity	Part No.
SUPER 1103-2, SUPER 1303-2	0911	0010 - 9999	Front without front wheel drive	Wheel complete		4	4606162067
			Front with front wheel drive 6x4	Wheel complete	1. front axle	2	4606162067
					2. front axle	2	4606162070
			Rear	Wheel complete		2	2045376
		Tyre			2	2045375	
		0222 - 9999	Rear	Wheel complete with water filling		2	2111933
SUPER 1103-3(i), SUPER 1303-3(i)	1111	0010 - 9999	Front without front wheel drive	Wheel complete		4	4606162067
			Front with front wheel drive 6x4	Wheel complete	1. front axle	2	4606162067
					2. front axle	2	4606162070
			Rear	Wheel complete		2	2045376
		Tyre			2	2045375	
		Rear	Wheel complete with water filling		2	2111933	
SUPER 1804	0669	0010 - 9999	Front	Wheel complete		4	4606162020
				Tyre		8	4924170230
			Rear	Wheel complete		4	4602302068
				Tyre		4	4602302069



ORIGINAL VÖGELE

WHEELS AND TYRES

Machine type	Model	Series range	Position	Designation	Version front wheel	Quantity	Part No.
SUPER 1603-1, SUPER 1803-1	0783	0010 - 9999	Front without front wheel drive	Wheel complete		4	4602302086
			Front with front wheel drive 6x4	Wheel complete		4	4602302086
			Front with front wheel drive 6x6	Wheel complete		4	4602302086
			Rear	Wheel complete		2	4602302084
				Tyre		2	4602302072
SUPER 1603-2, SUPER 1803-2	0883	0010 - 9999	Front without front wheel drive	Wheel complete		4	4602302086
			Front with front wheel drive 6x4	Wheel complete		4	4602302086
			Front with front wheel drive 6x6	Wheel complete		4	4602302086
			Rear	Wheel complete		2	4602302084
				Tyre		2	4602302072
SUPER 1603-3(i)	1183	0010 - 9999	Front without front wheel drive	Wheel complete		4	2255671
			Front with front wheel drive 6x4	Wheel complete		4	2255671
			Front with front wheel drive 6x6	Wheel complete		4	2255671
			Rear	Wheel complete		2	2355218
				Tyre		2	2355217



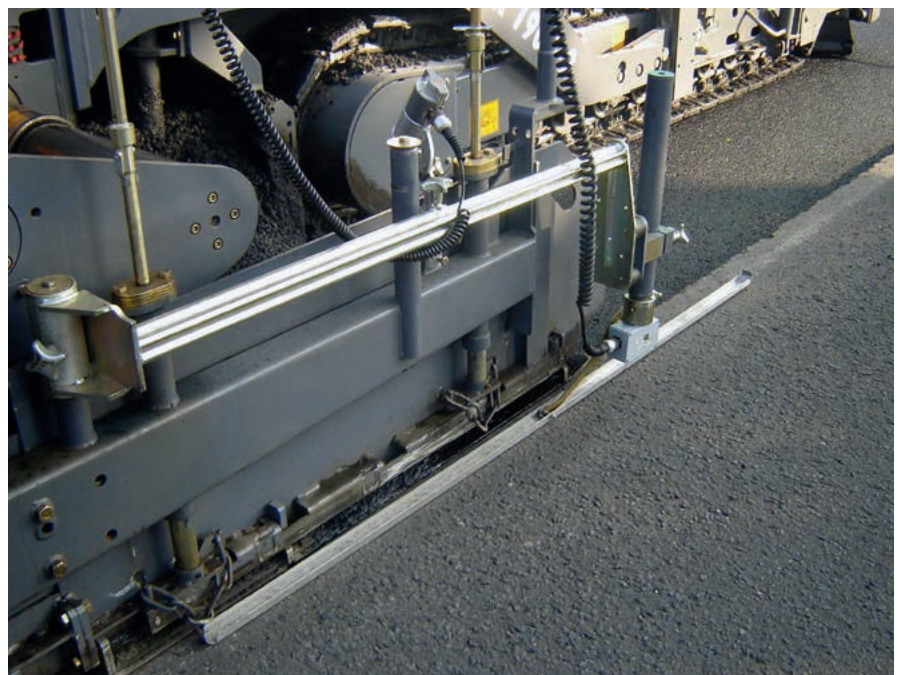
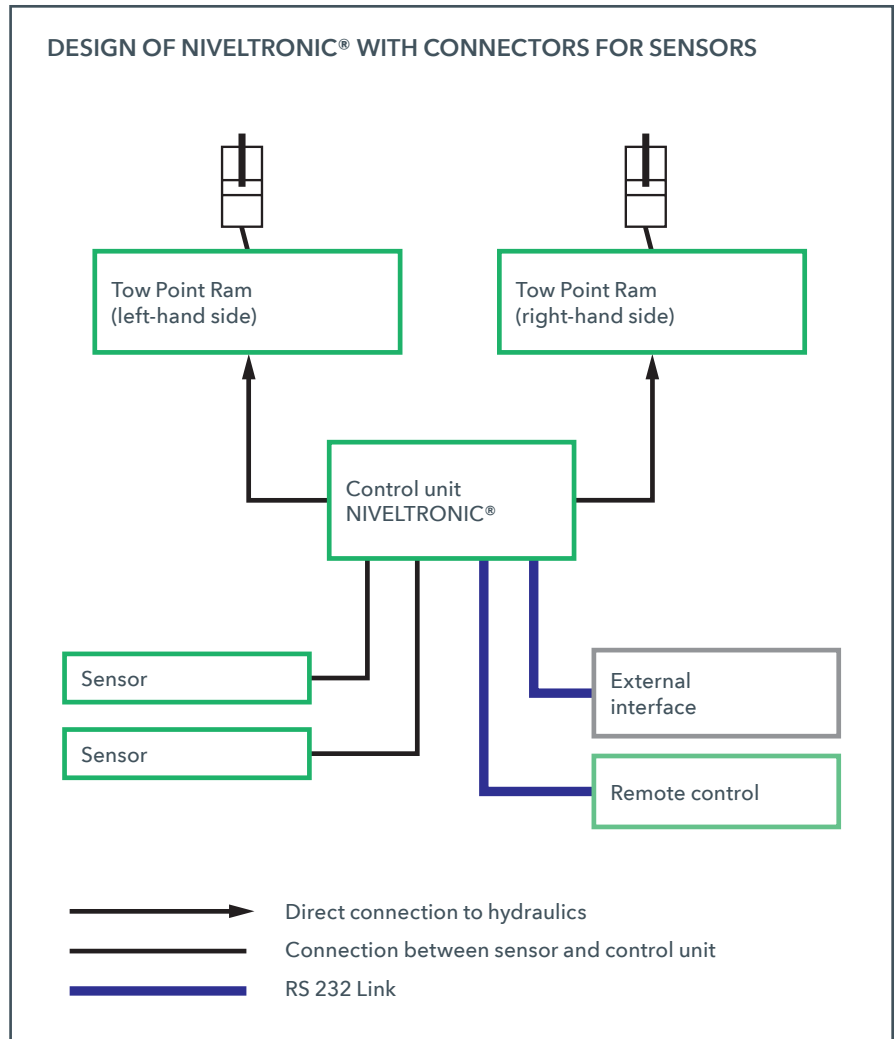
Machine type	Model	Series range	Position	Designation	Version front wheel	Quantity	Part No.
SUPER 1803-3(i)	1083	0010 - 9999	Front without front wheel drive	Wheel complete		4	2255671
			Front with front wheel drive 6x4	Wheel complete		4	2255671
			Front with front wheel drive 6x6	Wheel complete		4	2255671
			Rear	Wheel complete		2	2273440
Tyre		2		4602302072			
SUPER 2003-3(f)	0975	0010 - 9999	Front without front wheel drive	Wheel complete		4	2359496
			Front with front wheel drive 6x4	Wheel complete		4	2359496
			Front with front wheel drive 6x6	Wheel complete		4	2359496
			Rear	Wheel complete		2	2340458
Tyre		2		2326084			
VISION 5103-2	0983	0010 - 9999	Front without front wheel drive	Wheel complete		4	4602302086
			Front with front wheel drive 6x4	Wheel complete		4	4602302086
			Rear	Wheel complete		2	2080476
				Tyre		2	2080477
VISION 5203-2, VISION 5203-2i	0775, 0875	0010 - 9999	Front without front wheel drive	Wheel complete		4	4602302086
			Front with front wheel drive 6x4	Wheel complete		4	4602302086
			Front with front wheel drive 6x6	Wheel complete		4	4602302086
			Rear	Wheel complete		2	2075841
Tyre		2		2047732			



LEVELLING SYSTEMS FOR ROAD PAVERS

NIVELTRONIC®

- > Of modular design (which allows to add options later and to combine components in many different ways).
- > Installs easily and quickly (due to compact-sized system components).
- > Recognises automatically whether a sensor is connected and, if so, what type of sensor it is (thanks to microprocessor technology).
- > Stores all specific process data until changed (which allows to switch off NIVELTRONIC® grade and slope control at any time without loss of data. When switched off while paving, the current system status is stored in a buffer from where it will be retrieved and displayed as soon as NIVELTRONIC® is switched back on.)
- > Programs easily and quickly (set-up of grade and slope easily accomplished on a single handset with keypad and LC display. An advantage above all in places where grade and slope values change continuously as they do, for instance, in an elevated bend).
- > Features quick grasp and prompt response (due to high sensitivity of control circuits).
- > Levels out irregularities with always the same high accuracy.
- > Has interface capability with a laser-based navigation system (thanks to digital electronics).
- > Is compatible with any road paver featuring electro-hydraulic control of grade and slope.





NIVELTRONIC® PLUS

Perfect match between paver and grade and slope control system NIVELTRONIC® Plus offered by VÖGELE for automated grade and slope control is a unique system providing the basis for efficient paving true to line and level on any kind of base.

NIVELTRONIC® is an in-house development of VÖGELE and based on many years of experience with grade and slope control technology. The latest VÖGELE development is now available in the form of NIVELTRONIC® Plus – the perfect solution for all grade and slope control jobs in terms of easy handling, quality and reliability.

NIVELTRONIC® Plus, a fully integrated system, offers the advantage that the paver's machine technology matches the grade and slope control system perfectly. All wiring and connections are integrated into the tractor unit and screed, thus eliminating any risk of damage.

As a typical VÖGELE feature, the focus is on the operator. NIVELTRONIC® Plus has been developed with the user in mind and great importance has been attached to easy and user-friendly handling. All set-up can be carried out from the clearly-laid-out screwman's console. Within a very short time, screwmen get fully familiar with all vital NIVELTRONIC® functions and their positive handling. As NIVELTRONIC® Plus is integral part of the paver's control system, extra instructions or training is not required.

It goes without saying that VÖGELE offer a wide and practical selection of sensors for most varied use of NIVELTRONIC® Plus. No matter whether your job is car park, roundabout or highway construction, VÖGELE have the right sensor for each field of application. Note as a very practical feature: NIVELTRONIC® Plus recognises automatically all sensors connected, thus enabling users to easily and quickly carry out set-up.

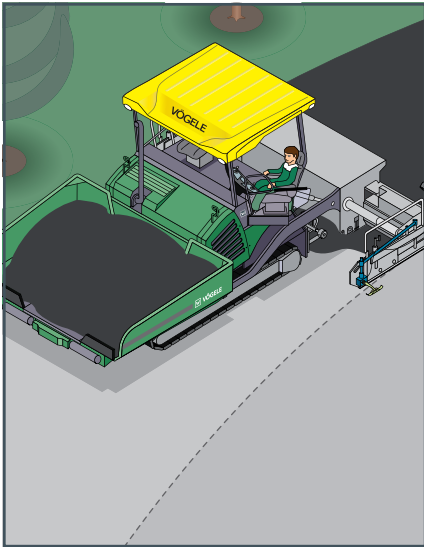
THE ADVANTAGES AT A GLANCE:

- > Unique: Automated grade and slope control supplied directly by the paver manufacturer. Machine technology and grade and slope control are perfectly matched, thus ensuring excellent pavement results.
- > Wiring and connections are integrated into tractor unit and screed.
- > Wide and varied selection of sensors permitting use of NIVELTRONIC® Plus in all fields of applications.
- > Automatic recognition of sensors connected for easy and quick set-up.
- > Particularly easy, user-friendly control and monitoring of all NIVELTRONIC® Plus functions.
- > Logical, self-explanatory symbols neutral in language support quick learning of all functions.
- > NIVELTRONIC® Plus, fully integrated into the paver's control system, does not require any extra training for handling.

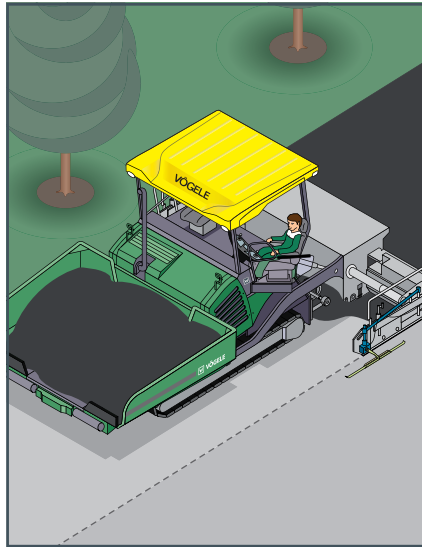


> Referencing from a tensioned wire with sonic grade sensor

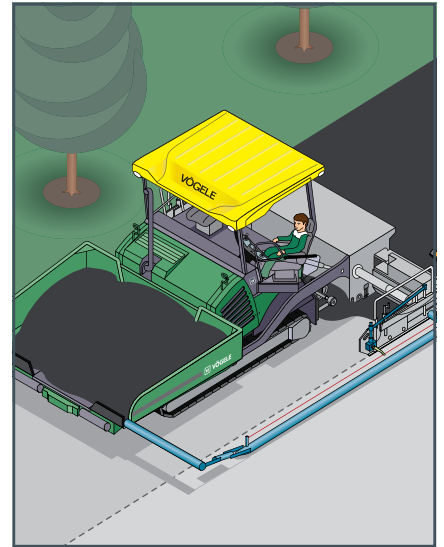
ORIGINAL VÖGELE LEVELLING SYSTEMS FOR ROAD PAVERS



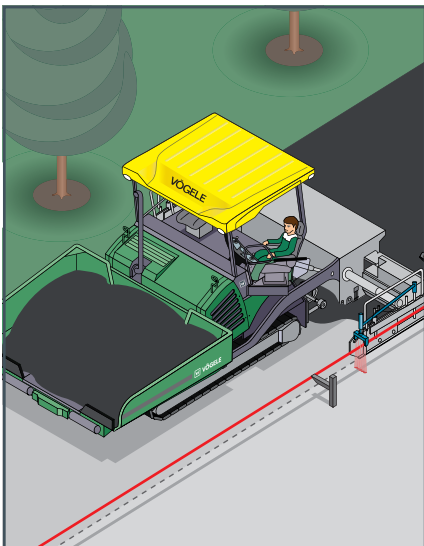
Referencing with mechanical grade sensor and short ski (0.35 m). Ideal in tight curves or used for deliberately copying irregularities from the base.



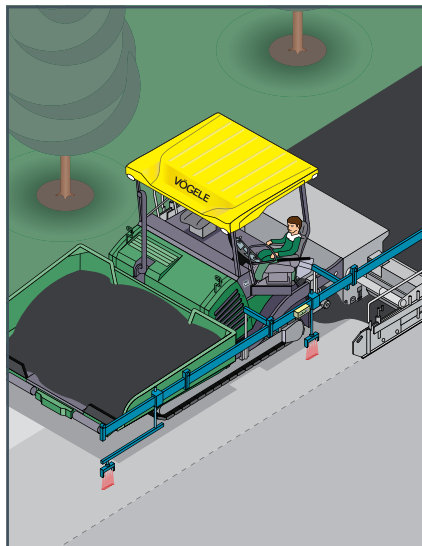
Referencing with mechanical grade sensor and long ski (1 m). Used when paving large bends or straight sections.



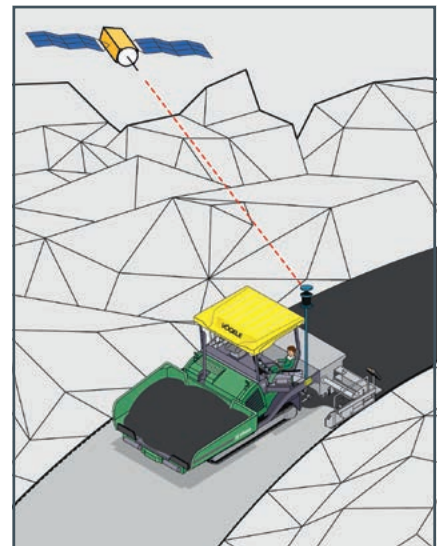
Referencing with averaging beam (7 m). Ideal when paving surfaces requiring high evenness.



Sonic grade sensor working in stringline mode. Five ultrasound cones are emitted and the shortest reflected signal (stringline) is sent to NIVELTRONIC® grade and slope control.



By arranging 3 sonic grade sensors in a row, it is possible to tap the physical reference at several points lying far apart from each other. Based on the values, a virtual reference can be calculated. In other words, this system offers higher accuracy than a single sonic grade sensor.



Navitronic Plus, the 3D control system for grade and slope control and navigation in road pavers, takes NIVELTRONIC® Plus into the third dimension. The layer thickness and width and the working direction can be automatically controlled based on the digital design data.



**NIVELTRONIC® PLUS
SCREWMAN'S CONSOLE**

The VÖGELE NIVELTRONIC® Plus system stands out through convenient set-up and easy use. As a wide selection of sensors is available, the system perfectly matches most varied requirements - a vital precondition to handle high-quality paving jobs impeccably and economically.

The particularity about NIVELTRONIC® Plus is its easy handling and the clear arrangement of its display. Each screwman's console has access to both sides of the screed. For this purpose, the screen is divided into two sections - on the left you find information and can carry out set-up for the left-hand side of the screed, on the right you can do the same for the right-hand side.



**NIVELTRONIC®
HANDSET**

The handset serves for entry of specified grade and slope as well as for constantly monitoring conformity with the specified values.

A single handset controls and monitors the two tow point rams, left and right sides. The light-weight handset comes with a sturdy shock-proof housing.

Large LC display, easy to read under any job site conditions, informs at a glance about tow point ram movements.

The handset with film keypad is designed for the hostile environment of a road building site. Guided by a very simple menu, operators easily perform accurate control and monitoring of all NIVELTRONIC® functions.



**NIVELTRONIC®
BASIC OPERATING UNIT**

This is the latest generation of the automated grade and slope control. It has been adapted and simplified, particularly for the SUPER 700-3(i) and SUPER 800-3(i) pavers.

ORIGINAL VÖGELE

COMPONENTS OF THE LEVELLING SYSTEM

NIVELTRONIC® SONIC GRADE SENSOR

The sonic sensor can be used for tracing any kind of reference whether tensioned wire, kerbstone or previously laid adjacent lane. It measures the distance to the reference by means of sound pulses. Whenever the distance changes due to irregularities in the base, deviations from specified grade are signalled to NIVELTRONIC®'s control unit for correction.

The sensing element is provided with a total of 6 sensors, 5 of them picking up the elevation and 1 determining the sound velocity which is subject to temperature changes. From measurements, a mean value is calculated which ensures optimum levelling accuracy at all times. Obstacles like, for instance, a stone the size of a fist are recognised and ignored.

NIVELTRONIC® MECHANICAL GRADE SENSOR WITH SKI OR BOW

The ski is ideally suited for direct referencing from a kerb or a previously laid adjacent lane. Where direct referencing is not possible, the bow may be used for tracing an averaging beam or tensioned wire.

NIVELTRONIC® SINGLE-CELL SONIC SENSOR

The single-cell sonic sensor allows contactless scanning to copy a reference height. Scanning is performed with a sound cone. This means that the height of the reference is transmitted directly without calculating an average. Thanks to its reduced dimensions, the sensor is suitable for highly confined fields or winding distances with small curve radii. It is also recommended for situations where precise copying of a reference is desired.





NIVELTRONIC® SLOPE SENSOR

The slope sensor is a kind of electronic spirit level. The sensor continuously picks up actual slope and passes on data to the control unit of NIVELTRONIC®. Easy entry of specified slope on keypad of handset. The tolerance range of the electronic precision instrument is $\pm 0.05\%$.



NIVELTRONIC® BIG MULTIPLEX SKI

The Big MultiPlex Ski translates the advantages of the well-proven VÖGELE sonic grade sensor onto a greater length. Three sonic sensors fitted to the Big MultiPlex Ski cover a distance up to 13 m. The Big MultiPlex Ski stands out through versatility and is designed for levelling out any kind of irregularity. By calculating an average from values picked up by several sensors, even long irregularities are compensated without problems. When working with a single sensor, these would not be recognised as a fault.

NIVELTRONIC® LASER RECEIVER

When using a laser receiver for grade and slope control, the elevation of the screed is determined by receiving laser beams emitted by a laser unit. The VÖGELE laser receiver is ideal, above all, when it comes to paving large surfaces with constant grade and slope (such as stadiums, car parks, container storage areas etc.). The rotating beam emitted by the laser unit creates a perfect plane picked up by the laser receiver fitted to the screed arm. The laser plane serves as a virtual reference which is independent of physical base conditions.



ORIGINAL VÖGELE

NIVELTRONIC® AND NIVELTRONIC® PLUS COMPONENTS

Machine type	Control unit	Mechanical grade sensor	Ultrasonic grade sensor	Tilt sensor	Handset	Road scanner/laser head	Big ski
SUPER 700, SUPER 800	2454130106	2472560017	2197266	2462560026	2024191	2136633	
			2076055*		2041684**		
SUPER 700-3(i), SUPER 800-3(i)		2331721	2403330	2090106	2304891		
SUPER 1100-2, SUPER 1300-2		2039585	2197266	2462560026	2052116	2136633	
			2076055*				
SUPER 1103-2, SUPER 1303-2		2039585	2197266	2462560026	2052116	2136633	
			2076055*				
SUPER 1100-3(i), SUPER 1300-3(i)		2039585	2197266	2090106	2480191	2136633	
			2076055*				
SUPER 1103-3(i), SUPER 1303-3(i)		2039585	2197266	2090106	2480191	2136633	
			2076055*				
SUPER 1800, SUPER 1804	2454130029	2457110137		2462560025	2457110117		
SUPER 1900, SUPER 2100	2454130106	2472560017	2197266	2462560026	2454130119	2462560032	
SUPER 1600-1, SUPER 1800-1		2472560017	2197266	2462560026	4603014013	2462560032	
SUPER 1603-1, SUPER 1803-1		2472560017	2197266	2462560026	4603014013	2462560032	
SUPER 1600-2, SUPER 1800-2 (SJ)		2039585	2197266	2462560026	2052116 (0010 - 2327)	2136633	2069778
			2076055*		2480181 (2328 - 9999)		
SUPER 1603-2, SUPER 1803-2		2039585	2197266	2462560026	2052116 (0010 - 2327)	2136633	2069778
			2076055*		2480181 (2328 - 9999)		

* Single sensor · ** Tilt sensor adapter · *** If "3" screed



Machine type	Control unit	Mechanical grade sensor	Ultrasonic grade sensor	Tilt sensor	Handset	Road scanner/ laser head	Big ski
SUPER 1900-2, SUPER 2100-2		2039585	2197266	2462560026	2052116 (0010 - 1399)	2136633	2069778
			2076055*		2480181 (1400 - 9999)		
SUPER 2100-2 IP		2039585	2197266	2462560026	2052116 (0010 - 1399)	2136633	2069778
			2076055*		2480181 (1400 - 9999)		
SUPER 1600-3(i), SUPER 1603-3(i)		2484805	2197266	2090106	2480191	2136633	2342994
			2076055*				
SUPER 1800-3(i), SUPER 1803-3(i)		2484805	2197266	2090106	2480191	2136633	2342994
			2076055*				
SUPER 1900-3(i), SUPER 2100-3(i)		2484805	2197266	2090106	2480181	2136633	2342994
			2076055*		2480191***		
SUPER 2000-3(f)		2484805	2197266 2076055*	2090106	2427731		2342994
SUPER 2003-3(f)		2484805	2197266 2076055*	2090106	2427731		2342994
SUPER 2500	2454130106	2472560017	2197266	2462560026	2010779	2462560032	
			2076055*				
SUPER 3000-2		2039585	2197266	2090106	2480181	2136633	2069778
			2076055*				
VISION 5100-2, VISION 5103-2		2039585	2197266	2090106	2134303		2083037
			2076055*		2476368		
VISION 5200-2, VISION 5200-2(i)		2039585	2197266	2462560026	2134303		2083037
			2076055*		2476368		
VISION 5203-2, VISION 5203-2(i)		2039585	2197266	2462560026	2134303		2083037
			2076055*		2476368		

* Single sensor - ** Tilt sensor adapter - *** If "3" screed

ORIGINAL VÖGELE ACCESSORIES FOR NIVELTRONIC®

SKI

For tracing a grade reference. Available in different lengths for universal use.

BOW

Used in conjunction with the mechanical grade sensor for indirect referencing from a tensioned wire.





Designation	Part No.
Ski sensor 350 mm	2452260014
Ski sensor 350 mm (for variable mechanical grade sensor), NIVELTRONIC® Plus	2042513
Ski sensor 350 mm (SUPER 700-3, SUPER 800-3)	2373027
Ski sensor 1.0 m	2452260015
Ski sensor 1.0 m (for variable mechanical grade sensor), NIVELTRONIC® Plus	2042514
Ski sensor 1.0 m (SUPER 700-3, SUPER 800-3)	2355133
Ski sensor 2.0 m	2452260017
Ski sensor 2.0 m (for variable mechanical grade sensor), NIVELTRONIC® Plus	2042515
Ski sensor 2.0 m (SUPER 700-3, SUPER 800-3)	2374570
Grade sensor	2452140009
Grade sensor (for variable mechanical grade sensor), NIVELTRONIC® Plus	2042554
Grade sensor (SUPER 700-3, SUPER 800-3)	2355095
Averaging beam 7.0 m, NIVELTRONIC®	2645940003
Polyester line for stringline (3 mm - 500 m)	2060897
Reel for line, on wheels	2060899
Line holder (50 - 250 mm, mounting every 5 m)	2060728
Cord irons (mounting every 5 m)	2060896
Tension spring balance (attached every 100 m)	4606032026
Pulley block with accessories	4606352002
Tension spring balance kit with pulley block	4624250008
Cable 2.5 m (for grade sensor)	2460770015
Cable 1 m (for slope sensor)	2460770014
Extension cable 4 m	2460770096
Electrical connecting cable for CAN slope sensor	2090331
Electrical connecting cable for CAN mechanical grade sensor	2321132
Electrical connecting cable for CAN-Sonic	2403417
RoadScan connecting cable	2460770103
RoadScan control unit	2454130137
Cable 2.5 m (for laser receiver)	2460770015
Pole for laser receiver	2014697
Coiled cable 12-m distributor box - Sonic Ski (Big Ski)	2037422
Coiled cable 6-m distributor box - Sonic Ski (Big Ski)	2037423

ORIGINAL VÖGELE SPARE KEYS

The available spare keys ensure that every machine operator is able to move the machine anywhere and at any time, and to open locked areas containing elements that need to be protected against vandalism.

If the number of keys supplied as standard is therefore not enough for operating personnel, more keys should be ordered.



1 > Key ring

Part No.:
3516031120

3 > Tank key

Part No.:
4619112010

5 > Switch cabinet key

Part No.:
4618270022

7 > Operation panel key

Part No.:
4624250027

2 > Emergency-stop key

Part No.:
3515043262

4 > Ignition key

Part No.:
4912911343

6 > Square key

Part No.:
4618382084

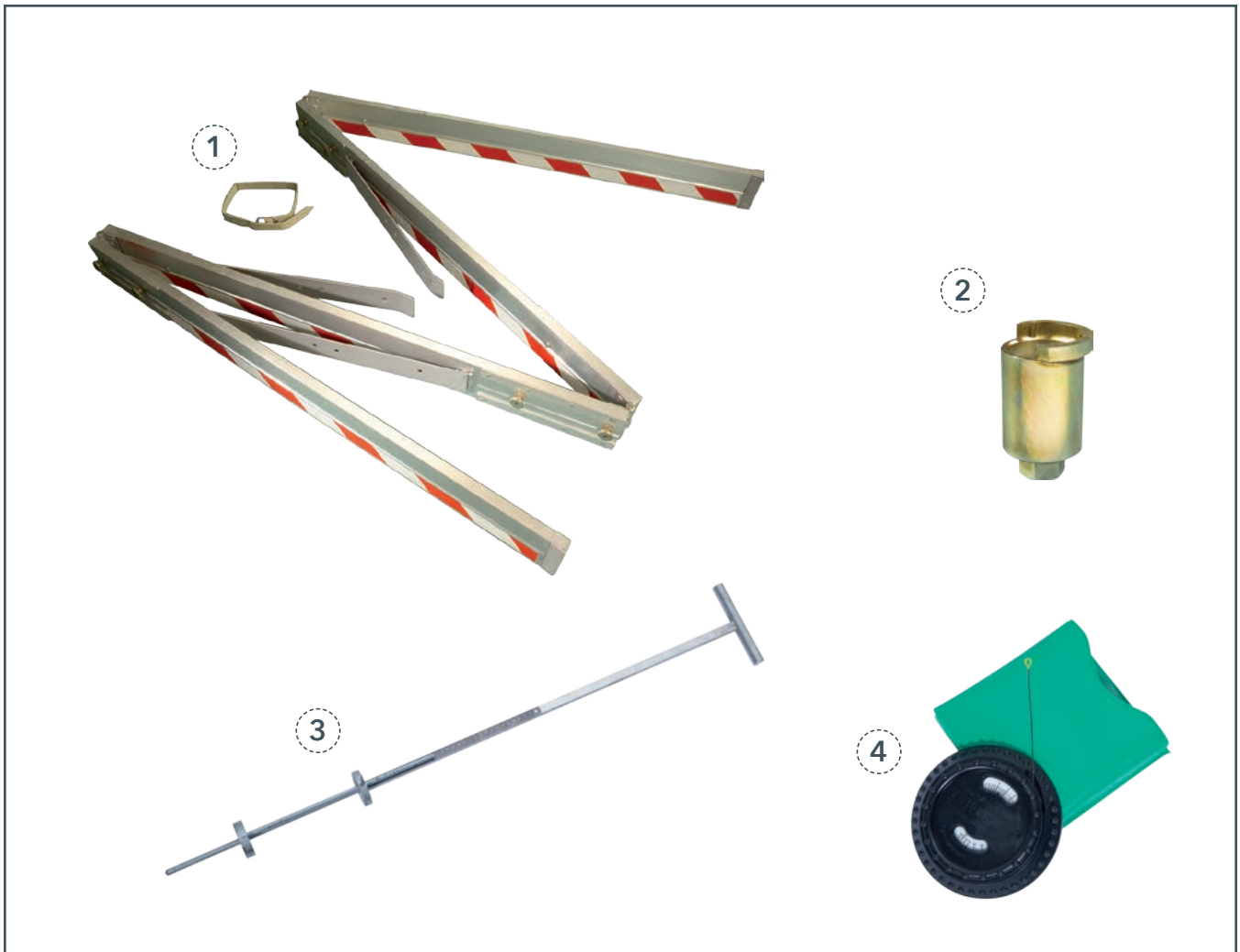
8 > Ignition key

Part No.:
3515046032



Machine type	Key ring	Emergency-stop key	Tank key	Ignition key	Switch cabinet key	Square key	Operation panel key
SUPER 700, SUPER 800	3516031120		4619112010	3515046032	4618270022	4618382084	
SUPER 700-3(i), SUPER 800-3(i)	3516031120		4919112010	3515046032	4618270022	4618382084	
SUPER 1100-2, SUPER 1300-2	3516031120		4619112010	3515046032	4618270022	4618382084	
SUPER 1103-2, SUPER 1303-2	3516031120		4619112010	3515046032	4618270022	4618382084	
SUPER 1100-3, SUPER 1300-3	3516031120		4619112010	3515046032	4618270022	4618382084	
SUPER 1103-3, SUPER 1303-3	3516031120		4619112010	3515046032	4618270022	4618382084	
SUPER 1800 (0668)	3516031120	3515043262	4619112010	4912911343	4618270022	4618382084	4624250027
SUPER 1804 (0669)	3516031120	3515043262	4619112010	4912911343	4618270022	4618382084	4624250027
SUPER 1900, SUPER 2100	3516031120	3515043262	4619112010	4912911343		4618382084	4624250027
SUPER 1600-1, SUPER 1800-1	3516031120		4619112010	3515046032		4618382084	
SUPER 1603-1, SUPER 1803-1	3516031120		4619112010	3515046032		4618382084	
SUPER 1600-2, SUPER 1800-2	3516031120		4619112010	3515046032		4618382084	
SUPER 1603-2, SUPER 1803-2	3516031120		4619112010	3515046032		4618382084	
SUPER 1800-2 (SJ)	3516031120		4619112010	3515046032		4618382084	
SUPER 1900-2, SUPER 2100-2	3516031120		4619112010	3515046032		4618382084	
SUPER 2100-2 IP	3516031120		4619112010	3515046032		4618382084	
SUPER 1600-3(i)	3516031120		4619112010	3515046032		4618382084	
SUPER 1603-3(i)	3516031120		4619112010	3515046032		4618382084	
SUPER 1800-3(i)	3516031120		4619112010	3515046032		4618382084	
SUPER 1803-3(i), SJ	3516031120		4619112010	3515046032		4618382084	
SUPER 1900-3(i), SUPER 2100-3(i)	3516031120		4619112010	3515046032		4618382084	
SUPER 2000-3(f)	3516031120		4619112010	3515046032		4618382084	
SUPER 2003-3(f)	3516031120		4619112010	3515046032		4618382084	
SUPER 2500	3516031120		4619112010	4912911343		4618382084	4624250027
SUPER 3000-2	3516031120		4619112010	3515046032		4618382084	
VISION 5200-2(i)	3516031120		4619112010	3515046032		4618382084	
VISION 5203-2(i)	3516031120		4619112010	3515046032		4618382084	
VISION 5100-2	3516031120		4619112010	3515046032		4618382084	
VISION 5103-2	3516031120		4619112010	3515046032		4618382084	
MT 1000-1	3516031120		4619112010	4912911343	4618270022	4618382084	4624250027
MT 3000-2	3516031120		4619112010	3515046032		4618382084	

ORIGINAL VÖGELE SERVICE TOOLS



No.	Designation	Description	Part No.
1	Level 4 m	Length of level 4 m, folding down to 1 m, 90 x 18 mm, no bubbles.	2034936
2	Special socket: "hydraulic rams for pressure bar(s)"	For unscrewing and tightening up locking nuts on hydraulic rams for pressure bars.	4618270012
3	Measuring instrument for layer thickness	For measuring layer thickness during the paving process.	2060727
4	Sirometer	For measuring, the Sirometer is held to the housing of the running machine and will display the number of revolutions per minute (in 1000 steps). The lower scale shows the number of vibrations per second, i.e. in hertz.	4612070034



No.	Designation	Description	Part No.
1	Rod for stake	Rod to accommodate stake for stringline. Recommended for every 5 m.	2060896
2	Polyester line	Stringline made of polyester, 500 m coil, diameter 3 mm, colour: red.	2060897
3	Stake	Stake for stringline, distance between stakes 50 - 250 mm. Recommended for every 5 m.	2060728
4	Reel for line, on wheels	Reel to coil up polyester line, easy unwinding.	2060899
5	Tension spring balance	To anchor the polyester wire. Recommended for every 100 m.	4606032026
6	Pulley block with accessories	Pulley block to tension the polyester wire	4606352002
5+6	Tension spring balance kit with pulley block	Kit consists of tension spring balance (no. 5) and pulley block with accessories (no. 6).	4624250008
1-6	Wire tensioning system Basic set - 500 m	Kit consists of numbers 1 to 6 in suitable quantities	2541050
1-3+5	Wire tensioning system Set for 500 m extension	Kit consists of numbers 1, 2, 3 and 5 in suitable quantities	2541051

ORIGINAL VÖGELE SERVICE TOOL KITS



No.	Designation	Description	Part No.
1	Service tool kit	Sets of screw drivers and pliers, crimping tool, a variety of switches, sensors and relays, digital measuring equipment pressure gauges etc.	2024590
2	Electrical service kit	Which part is faulty? Is everything there? With this case, you can be sure of having everything you need. It contains all the standard parts needed to remedy a fault in the electrical system without wasting time.	2052241
3	O-ring kit	Leakages in the hydraulic system? Have this well-assorted O-ring kit on hand and be prepared.	4614062005



TOOLS FOR HYDRAULIC SYSTEMS



No.	Designation	Description	Part No.
1	Hydraulic connection kit	Every service vehicle and every repair shop should have such a case. It is packed with a clearly laid-out assortment of cutting rings, union nuts, Minimes connections, SAE couplings and all standard couplings.	2056134
2	Vacuum exhauster / pump	When working on the hydraulic system it is important to prevent oil from passing out. The vacuum exhauster / pump creates a stable pressure column in your hydraulic circuit which allows to carry out repairs with loss of oil reduced to a minimum. For producing a stable pressure column in the hydraulic system, so that repair work can be carried out without oil escaping - no pollution. For leak testing of the hydraulic system.	2008975

ORIGINAL VÖGELE TOOLS FOR ELECTRICAL SYSTEMS



No.	Designation	Description	Part No.
1	Clip-on ammeter	For measuring A.C. / D.C. from 0.3 - 700 amperes, A.C. / D.C. voltage from 0 - 750 Volts, frequency from 0.5 - 9999 Hz, resistance from 0 - 4 k Ω or for carrying out continuity test. With belt pouch.	2008516
2	Infrared temperature measuring instrument	Non-contacting measurement by infrared sensor. Emittance adjustable for measurement on most various surfaces. Infrared and contacting measurement combined in one instrument. With belt pouch and batteries.	2008493
3	Insulation continuity tester	For identifying insulation faults in the heating system and for resistance measurements.	2014661
4	Multimeter Fluke	Multi-measuring devices for voltage, ampere, ohm and hertz.	425191
5	Cable for insulation continuity tester	Cables, probe tips and crocodile clips for the insulation resistance meter.	2014662



No.	Designation	Description	Part No.
1	Hand-held digital speedometer	For measuring rpm, speed, length. Non-contacting measurement with reflector mark. Slip-on adapter for contacting measurement. Memory. Turns off automatically.	2008504
2	Crimping pliers 0.5 - 2.5	For crimp connectors 0.5 - 2.5 mm ² .	449391
3	Removal tool for crimp contacts	Removal tool for loosening the star-shaped protection of the crimp contacts.	437591
4	Demounting tool for crimp contacts	For demounting the crimp contact's protection.	437491

ORIGINAL VÖGELE

ELECTRICAL AND HYDRAULIC EMERGENCY KITS

AVOID DOWNTIME AND ENHANCE YOUR PAVER'S OPERATIONAL AVAILABILITY

Nothing is more important than operational reliability of your VÖGELE paver. Minor faults in your electrical or electronic systems, however, may have major consequences for your VÖGELE paver's reliability in service.

Original VÖGELE "Electrical Emergency Kits" contain an assortment of switches, sensors, fuses and control items to quickly fix minor faults.

Original VÖGELE "Electrical Emergency Kits" avoid downtime and maintain your paver's operational availability.

EMERGENCY KIT

Sturdy case with all the most frequently needed electrical and hydraulic components to remedy technical problems directly on the job. The handy kit is supplied with appropriate spare parts for each machine model.





Machine type	Model	Series range	Part No.
SUPER 700, SUPER 800	0790	0010 - 9999	2055594
SUPER 1800	0668	0010 - 9999	2055593
SUPER 1900, SUPER 2100	0619	0010 - 9999	2055586
SUPER 1600-1, SUPER 1800-1	0782	0010 - 9999	2055583
SUPER 1603-1, SUPER 1803-1	0783	0010 - 9999	2055585
SUPER 1100-2, SUPER 1300-2	0811	0010 - 9999	2110715
SUPER 1103-2, SUPER 1303-2	0911	0010 - 9999	2110719
SUPER 1600-2, SUPER 1800-2	1182	0010 - 9999	2110709
SUPER 1603-2, SUPER 1803-2	0883	0010 - 9999	2110712
SUPER 1900-2, SUPER 2100-2	0719	0010 - 9999	2055491
SUPER-3 Series		0010 - 9999	2257880
SUPER 3000-2	0874	0010 - 9999	2164865
VISION 5200-2, VISION 5203-2	0774, 0775	0010 - 9999	2101420
VISION 5200-2i, VISION 5203-2i	0974, 0875	0010 - 9999	2101420
VISION 5100-2, VISION 5103-2	1382, 0983	0010 - 9999	2151111

ORIGINAL VÖGELE FILTER PACKAGES

Make use of our filter packages offered for paver models and maintenance intervals. They include all components and seals required.





Machine type	Model	Series range	Replacement interval		
			50 h	500 h	1000 h
SUPER 700, SUPER 800	0790	0010 - 9999		2033689	2033691
SUPER 700-3(i), SUPER 800-3(i)	0890	0010 - 9999	2373954	2373955	2373956
SUPER 1100-2, SUPER 1300-2	0811	0010 - 9999		2069167	2069169
SUPER 1103-2, SUPER 1303-2	0911	0010 - 9999		2069167	2069169
SUPER 1100-3(i), SUPER 1300-3(i)	1011	0010 - 9999	2283867	2248324	2248325
SUPER 1103-3(i), SUPER 1303-3(i)	1111	0010 - 9999	2283867	2248324	2248325
SUPER 1800	0668	0010 - 0270		2028580	2028262
		0271 - 1325		2028580	2028253
		1326 - 1681		2028581	2028244
		1682 - 9999		2028562	2028563
SUPER 1804	0669	0010 - 0100		2028580	2028234
		0101 - 0424		2028580	2028213
		0425 - 9999		2028581	2028127
SUPER 1900, SUPER 2100	0619	0010 - 0393		2028582	2028115
		0394 - 9999		2013769	2028076
SUPER 1600-1	0782	0010 - 0333		2011361	2011362
		0334 - 9999		2037317	2037318
SUPER 1603-1	0783	0010 - 0241		2011361	2011362
		0242 - 9999		2037317	2037318
SUPER 1800-1	0782, 0982	0010 - 9999		2012539	2012540
SUPER 1803-1	0783	0010 - 9999		2012539	2012540

ORIGINAL VÖGELE FILTER PACKAGES

Machine type	Model	Series range	Replacement interval		
			50 h	500 h	1000 h
SUPER 1600-2	1182	0010 - 9999	2052665	2052666	2052667
SUPER 1603-2	0883	0010 - 9999	2052665	2052666	2052667
SUPER 1800-2 (SJ)	1182	0010 - 9999	2052665	2052668	2052669
SUPER 1803-2	0883	0010 - 9999	2052665	2052668	2052669
SUPER 1900-2, SUPER 2100-2	0719	0010 - 1304	2041586	2041587	2041588
		1305 - 9999	2041586	2188956	2188959
SUPER 2100-2 IP	0719	0727 - 1304	2041586	2041587	2041588
		1305 - 9999	2041586	2188956	2188959
SUPER 1600-3	1582	0010 - 9999	2343131	2343133	2343135
SUPER 1600-3i	1582	0010 - 9999	2343126	2343128	2343129
SUPER 1603-3	1183	0010 - 9999	2343131	2343133	2343135
SUPER 1603-3i	1183	0010 - 9999	2343126	2343128	2343129
SUPER 1800-3	1482	0010 - 0150	2318759	2318760	2318761
		0151 - 9999	2318759	2341401	2341407
SUPER 1800-3i	1482	0010 - 9999	2318749	2302975	2318757
SUPER 1800-3i SJ	1482	0010 - 9999		2456669*	2456668*
SUPER 1803-3	1083	0010 - 9999	2318759	2341401	2341407
SUPER 1803-3i	1083	0010 - 9999	2318749	2302975	2318757
SUPER 1900-3, SUPER 2100-3	0819	0010 - 0342	2041586	2241430	2241432
		0343 - 9999		2304176	2304180
SUPER 1900-3i	0819	0010 - 0050	2041586	2241427	2241431
		0051 - 9999		2320238	2320241

*Use the maintenance kit in addition to the standard maintenance kit.
Due to possible technical changes, please always compare with the information in the instruction manual.



Machine type	Model	Series range	Replacement interval		
			50 h	500 h	1000 h
SUPER 2000-3	1174	0010 - 9999	2041586	2304176	2304180
SUPER 2000-3f	1174	0010 - 9999	2041586	2442195	2442196
SUPER 2003-3	0975	0010 - 9999	2041586	2304176	2304180
SUPER 2003-3f	0975	0010 - 9999	2041586	2442195	2442196
SUPER 2100-3i	0819	0010 - 0182	2041586	2296142	2296144
		0183 - 9999		2320239	2320242
SUPER 1900-3f, SUPER 2100-3f, SUPER 2100-3f+	0819	0010 - 9999	2041586	2442195	2442196
SUPER 2500	0674	0010 - 0042		2013770	2028067
		0043 - 0102		2028606	2028029
		0103 - 9999		2028560	2028561
SUPER 3000-2	0874	0010 - 0014	2136257	2136259	2136261
		0015 - 9999		2287476	2287481
VISION 5100-2	1382	0010 - 9999	2087480	2087481	2087482
VISION 5103-2	0983	0010 - 9999	2087480	2087481	2087482
VISION 5200-2	0774	0010 - 9999		2075493	2075498
VISION 5200-2	0974	0010 - 9999	2075492	2283668	2283670
VISION 5200-2i	0974	0010 - 9999	2075492	2295868	2295870
VISION 5203-2	0775	0010 - 9999		2075493	2075498
VISION 5203-2	0875	0010 - 9999	2075492	2283668	2283670
VISION 5203-2i	0875	0010 - 9999	2075492	2295868	2295870
MT 1000-1	01MT	0010 - 0060		2013602	2013603
		0061 - 0081		2137013	2137014
		0082 - 9999		2188960	2188962
MT 3000-2	0761	0010 - 9999	2184906	2184908	2184909
MT 3000-2f+	0761	0010 - 9999	2184906	2487993	2487995

ORIGINAL WIRTGEN GROUP LUBRICANTS

PREMIUM LUBRICANTS

WIRTGEN GROUP lubricants combine the best possible basic oils and unique additives in customised specifications. The advantages for you:

- > Compatibility with the first filling
- > Optimum protection against wear
- > Perfect protection against corrosion
- > Traceability in the event of damage

WIRTGEN GROUP lubricants consequently improve the performance and service life of your machines while at the same time durably cutting their running costs. The sensible way to save money!

ONE-STOP SUPPLY

All WIRTGEN GROUP machines - whether WIRTGEN milling machine, VÖGELE paver, HAMM roller or KLEEMANN plant can be filled and lubricated with the corresponding WIRTGEN GROUP lubricant for each application (exceptions are indicated).

Together with the carefully coordinated mixture of container sizes, this results in optimised ordering, storage and filling processes.

ACCESSORIES FOR FILLING AND LUBRICATION

Practical and well-tries accessories "made in Germany", such as canister pumps and grease guns, are available to assist you in filling and lubricating your machines.





ACCESSORIES FOR FILLING AND LUBRICATION

Oil pumps

1 > Hand pump for 20-l canisters

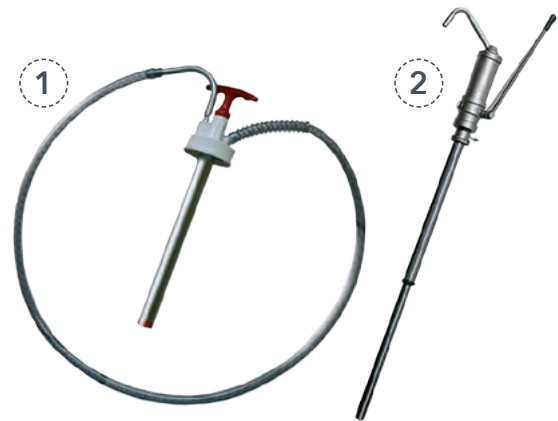
Part No.: 2065044

- Piston pump
- Delivery hose with spring-loaded spiral and anti-kink spring
- Non-drip spout with holder
- Foot valve

2 > Lever-operated hand pump for 208-l barrels

Part No.: 2065045

- Made of metal
- Telescoping intake tube
- Pivotal delivery manifold
- Delivery capacity: 0.2l/stroke



Filling cylinder and grease presses

1 > Filling cylinder

Part No.: 2065046 (500g)

Part No.: 2065047 (1000g)

- Made of metal
- Flexible hose

2 > Grease press/grease gun

Part No.: 2065049

- Made of metal
- High pressure output
- Size: 400-g cartridge

3 > Lever-operated hand grease press

Part No.: 2065048



Filling cans and funnels

1 > Filling cans

Part No.: 2065041 (1l)

Part No.: 2065042 (2l)

Part No.: 2065043 (5l)

- Flexible spout
- Complete with lid
- Different sizes

2 > Filling funnels

Part No.: 2065039 (180mm)

Part No.: 2065040 (220mm)

- Transparent plastic material
- Complete with lid
- Different diameters



ORIGINAL WIRTGEN GROUP LUBRICANTS IN DETAIL

Engine oil			
Designation	Description	Container	Part No.
WIRTGEN GROUP Engine Oil 15W-40	Powerful high-performance engine oil made from excellent basic oils and special additives. Increases the performance output of your engine while at the same time ensuring maximum operational reliability.	5 l	2065020
		20 l	2065025
		208 l	2065026
		1000 l IBC	2118572
WIRTGEN GROUP Engine Oil 10W-40	The smooth-running engine oil produced using modern synthesis technology with outstanding wear protection and cleaning characteristics is suitable for excellent and safe operating properties. Enables longer maintenance intervals as approved by the engine manufacturer.	5 l	2112355
		20 l	2112354
		208 l	2219171
		1000 l IBC	2118569
WIRTGEN GROUP Engine Oil "Low SAPS" 10W-30	Semi-synthetic "Low SAPS" engine oil (low sulphated ash, sulphur and phosphorous content) with fuel economy technology. Its low sulphate ash content ensures that burnt oil particles do not prematurely clog the emissions aftertreatment particle filter (DPF).	5 l	2210320
		20 l	2210322
		208 l	2210323
		1000 l IBC	2118570
WIRTGEN GROUP Engine Oil "Low SAPS" 10W-40 MB	The very latest synthetic diesel engine oil, extremely high performance, "Low SAPS" (lower levels of sulphur, sulphated ash and phosphor). The engine oil has been specially developed for use in all diesel engines with particle filters (DPF) and SCR systems (AdBlue®). Helps protect the environment by reducing harmful emissions.	5 l	2346869
		20 l	2346870
		208 l	2346871

Hydraulic oil			
Designation	Description	Container	Part No.
WIRTGEN GROUP Clutch Fluid 32	High-performance hydraulic fluid for use in couplers of KLEEMANN machines.	5 l	2268030
		20 l	2268032
WIRTGEN GROUP Hydraulic Oil HVLP 32	High-grade multi-range hydraulic oil with zinc for optimum protection against wear, even in the most difficult service conditions. Thanks to its enhanced specifications, it can be used with long replacement intervals.	20 l	2118573
WIRTGEN GROUP Hydraulic Oil HVLP 46	High-grade multi-range hydraulic oil with zinc for optimum protection against wear, even in the most difficult service conditions. Thanks to its enhanced specifications, it can be used with long replacement intervals.	20 l	2065028
		208 l	2065029
		1000 l IBC	2118571
WIRTGEN GROUP Hydraulic Oil HVLP 68	High-grade multi-range hydraulic oil with zinc for optimum protection against wear, even in the most difficult service conditions. Thanks to its enhanced specifications, it can be used with long replacement intervals.	20 l	2118574

Due to possible technical changes, please always compare with the information in the instruction manual.



Bio hydraulic oil			
Designation	Description	Container	Part No.
WIRTGEN GROUP Bio Hydraulic Oil 46	Easily biodegradable multi-use hydraulic oil made from all-synthetic esters and ash-free additives results in excellent lubricating properties and protects the environment. Bears the ecolabel for lubricants of the EU.	20 l	2118575
		208 l	2270558
WIRTGEN GROUP Bio Hydraulic Oil 68	Easily biodegradable multi-use hydraulic oil made from all-synthetic esters and ash-free additives results in excellent lubricating properties and protects the environment. Bears the ecolabel for lubricants of the EU.	20 l	2124179

Gear oil			
Designation	Description	Container	Part No.
WIRTGEN GROUP Gear Oil 85W-90	Mineral gear oil of the latest generation for versatile use in gearboxes and axle drives. Stands out through maximum protection against wear and oxidation. Note: Must not be used for WIRTGEN milling drum gearboxes, HAMM vibratory bearings and drum drives as well as for VÖGELE pump splitter gearboxes and travel drives.	5 l	2065030
		20 l	2065031
		208 l	2065032
WIRTGEN GROUP Multi Gear Oil VG 220	Mineral-oil based high-performance gear oil with EP (extreme pressure) additives offers very good wear protection and excellent performance in gearboxes. Recommended for use in KLEEMANN cone crushers MCO 9 EVO and MCO 11 PRO.	20 l	2483282
		208 l	2483283
WIRTGEN GROUP Special Gear Oil	Special all-synthetic high-performance gear oil for HAMM vibratory bearings and drum drives, VÖGELE pump splitter gearboxes and advance drives and KLEEMANN advance drives. Extremely resistant to pressure and temperature. Note: Must not be mixed with mineral gear oil. Must not be used for WIRTGEN milling drum gearboxes.	5 l	1238051
		20 l	2065037
		208 l	2065038
WIRTGEN GROUP High-Performance Gear Oil VG 150	Exclusive all-synthetic gear oil designed for heavy-duty use in WIRTGEN milling drum gearboxes. Extremely resistant to pressure and temperature. Note: Never mix with mineral gear oil. Must not be used for HAMM vibratory bearings and drum drives.	5 l	2173019
		20 l	199752
		208 l	2120829
WIRTGEN GROUP High-Performance Gear Oil VG 220	Exclusive all-synthetic gear oil designed for heavy-duty use in WIRTGEN milling drum gearboxes and KLEEMANN belt and bevel gearboxes. Extremely resistant to pressure and temperature. Note: Never mix with mineral gear oil. Must not be used for HAMM vibratory bearings and drum drives.	5 l	2170074
		20 l	2065033
		208 l	2065034
WIRTGEN GROUP High-Performance Gear Oil VG 460	Exclusive all-synthetic gear oil designed for heavy-duty use in WIRTGEN hot recyclers and S-Pack binding agent dosing unit. Note: Never mix with mineral gear oil. Must not be used for HAMM vibratory bearings and drum drives.	5 l	2461524
		20 l	2120830

Due to possible technical changes, please always compare with the information in the instruction manual.

ORIGINAL WIRTGEN GROUP

LUBRICANTS IN DETAIL

Grease			
Designation	Description	Container	Part No.
WIRTGEN GROUP Multipurpose Moly Grease	Highly refined black multipurpose grease for a wide range of lubricating jobs, such as on link pins and wheel bearings. State-of-the-art additive technology makes this product particularly suitable for use in conditions subject to impacts and vibration.	400 g	2065035
WIRTGEN GROUP High-Performance Grease	Premium multipurpose grease for use in WIRTGEN GROUP machines, e.g. in clutches and WIRTGEN remixers. It is particularly suitable for use under high temperatures and high loads.	400 g	47259
WIRTGEN GROUP High-Performance Grease KLEEMANN	Grease for KLEEMANN screen mounts.	400 g	M10021195
WIRTGEN GROUP Friction and Roller Bearing Grease	Exclusive grease for lubricating rolling and plain bearings exposed to high temperatures in VÖGELE machines.	18 kg	2027868
		12 x 400 g	2086136
WIRTGEN GROUP Telescoping Tube Grease	Special high-performance grease based on silicone for use on VÖGELE telescoping tubes.	100 g	2086137
WIRTGEN GROUP Low-Viscosity Grease	Thermally stable, high-performance low-viscosity grease with exceptional wear-resistance properties for VÖGELE auger drives.	5 kg	2050152
WIRTGEN GROUP Drum Bearing Grease	Exclusive grease for lubricating HAMM drum bearings. Extremely resistant to temperature and pressure.	1 kg	1205757
WIRTGEN GROUP Drive Bearing Grease	Special high-performance grease for use in HAMM drive bearings. Extremely resistant to pressure and water-repellent.	1 kg	1227114
WIRTGEN GROUP Quick-Change Toolholder Grease	Lubricant for greasing the WIRTGEN quick-change toolholder.	480 g	2310279
WIRTGEN GROUP Cone Moly Grease	Special high-performance grease for use in KLEEMANN cone crushers.	400 g	2342967

Other			
Designation	Description	Container	Part No.
WIRTGEN GROUP Asphalt Anti Stick	Perfect solution for HAMM rubber and combined wheel rollers: It prevents adhesion of the bitumen on the rubber tyres. The emulsion is based on a non-toxic solution and is thus rapidly biodegradable.	5 l	2117378
		20 l	2117379
WIRTGEN GROUP Antifreezing Compound	Coolants, anti-freeze and anti-corrosion agents. Note: Do not use 09WR (WR 200) or for KLEEMANN units.	5 l	2173022
		20 l	2173023
		208 l	2173024
WIRTGEN GROUP Antifreezing Compound MB	Coolants, anti-freeze and anti-corrosion agents for Mercedes Benz diesel engines; only for 09WR (WR 200).	210 l	2301878
WIRTGEN GROUP Antifreezing Compound KLEEMANN	Coolants, anti-freeze and anti-corrosion agents for KLEEMANN units	20 l	2535933
WIRTGEN GROUP Silicone Transformer Liquid	DOW transformer oil can be used in the magnetic separator in KLEEMANN systems.	20 l	2346389
AdBlue®	32.5% high-purity urea solution in compliance with AUS 32.	10 l	2434706
		210 l	2090870



ONLY THE BEST LUBRICANTS FOR YOUR MACHINE

THE QUICK WAY TO ORIGINAL WIRTGEN GROUP LUBRICANT AND FILTER PRODUCTS

You can benefit from our online service at www.partsandmore.net to find the perfect product for your machine. In just a few steps, you can, for instance, select suitable lubricants, filter elements and filter and maintenance packages - clearly laid out and including all the relevant details.

You order - we deliver promptly. The ideal tool to support you efficiently in your daily work.

PLEASE REFER TO: WWW.PARTSANDMORE.NET

**OUR
SERVICE
FOR YOU**



ALWAYS UP-TO-DATE, INCLUDING ON MOBILE DEVICES

Complete flexibility: in the office, on the move or out on the jobsite - our new service tool is very userfriendly and convenient to operate, including on mobile devices such as tablets and smartphones.



ORIGINAL WIRTGEN GROUP SMART SERVICE

OUR SERVICE IS SMART

WIRTGEN GROUP SmartService offers you reliable support to ensure your machines retain their value. Benefit from the advantages of our service package such as cost-effectiveness, minimisation of machine downtimes, value retention, comfort and safety.

In combination with WITOS® FleetView*, we are offering for the first time a telematics-based service that sets new standards in terms of prevention, responsiveness and efficiency.

OUR TAILOR-MADE SERVICE AGREEMENTS FOR YOUR MACHINES





+ WITOS® FleetView*

- > Proactive maintenance planning
- > Faster response times in the event of faults
- > Current location and status information for your machines

SmartService

- > Professional maintenance in accordance with operating instructions (incl. filters, lubricants, work time and travel expenses)
- > Visual inspection
- > Check and report on wear
- > Software updates
- > Safety check in line with accident prevention regulations

SmartService

- > Professional maintenance in accordance with operating instructions (incl. filters, lubricants, work time and travel expenses)
- > Visual inspection
- > Check and report on wear
- > Software updates
- > Safety check in line with accident prevention regulations

**INTERESTED? PLEASE CONTACT OUR
SALES AND SERVICE COMPANY.**



WITOS® FLEET VIEW RETROFIT KITS



The table shows you for which machines the WIRTGEN Road Technologies WITOS® FleetView is already available as a retrofit kit.











For information on additional retrofit kits, please contact your WIRTGEN GROUP sales and service company.

Machine type	Model	Series range	WITOS® FleetView 3 years (EU)	WITOS® FleetView 3 years (Non-EU)
			Part No.	Part No.
SUPER 700, SUPER 800	0790	0020 - 9999	2430485	
SUPER 700-3, SUPER 800-3	0890	0020 - 9999	2480613	
SUPER 1100-3, SUPER 1300-3	1011	0020 - 9999	2370243	2370243
SUPER 1103-3, SUPER 1303-3	1111	0020 - 9999	2370243	2370243
SUPER 1600-3	1582	0020 - 9999	2370243	2370243
SUPER 1603-3	1183	0020 - 9999	2370243	2370243
SUPER 1800-2	1182	0020 - 9999	2292398	
SUPER 1800-3	1482	0020 - 9999	2370243	2370243
SUPER 1803-2	0883	0020 - 9999	2292398	
SUPER 1803-3	1083	0020 - 9999	2370243	2370243
SUPER 1900-2, SUPER 2100-2	0719	0020 - 9999	2292398	
SUPER 1900-3, SUPER 2100-3	0819	0020 - 9999	2370243	2370243
SUPER 3000-2	0874	0020 - 9999	2439886	
MT 3000-2	0761	0020 - 9999	2472297	2472297
VISION 5100-2	1382	0020 - 9999		2472290
VISION 5103-2	0983	0020 - 9999		2472290
VISION 5200 -2	0774	0020 - 9999		2453800
VISION 5200-2i	0974	0020 - 9999		2453800
VISION 5203-2	0775	0020 - 9999		2453800
VISION 5203-2i	0875	0020 - 9999		2453800

HAMM AG

COMPACTION AND A WHOLE LOT MORE



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ORIGINAL HAMM

CORE COMPETENCE COMPACTION TECHNOLOGY

HAMM OSCILLATION: THE INNOVATIVE SOLUTION FOR ALL APPLICATIONS IN THE FIELD OF SOIL AND ASPHALT COMPACTION

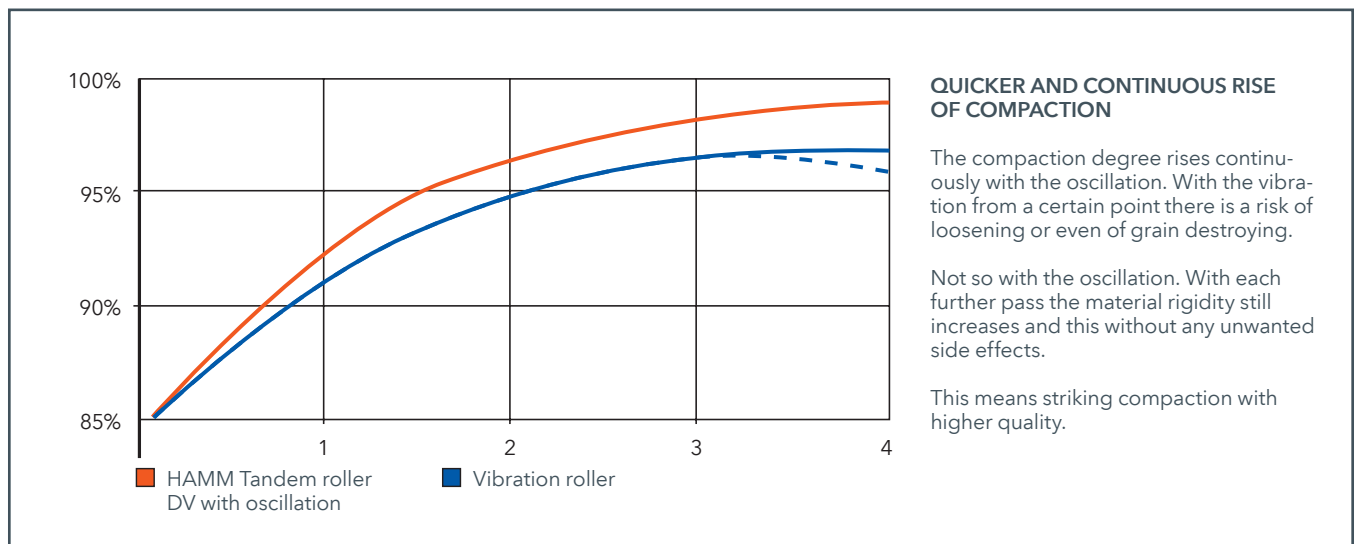
In the oscillation drum masses turning in the same direction, produce one moment around the drum axle. The moment changes its effect direction during a turn of the mass (forward and reverse), so that the oscillation drum movement is created. Here thrusts are introduced into the soil.

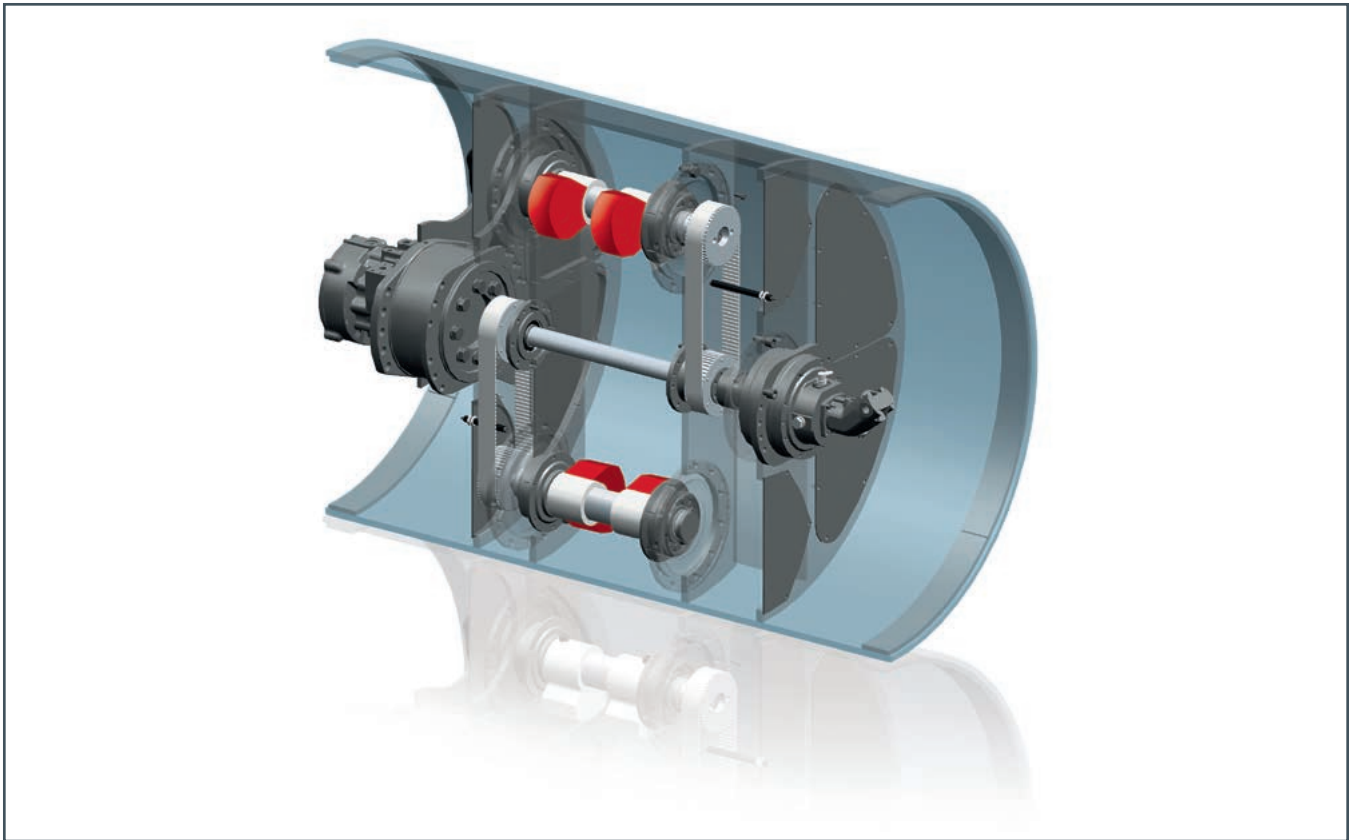
With oscillation clearly lower resonances are generated than with the vibration. It only causes up to 10% of the stress exerted by vibrating compactors. Oscillating rollers do not "use up" their energy to create undesired vibration of the surroundings but transmit it purposefully into the material to be compacted - exactly where the energy is needed.

On all bitumen job sites - from the smallest surface, bridges, multistorey car parks up to highways - the oscillation shows its performance and clear advantages. The oscillating movement in combination with the permanent static load of the drum guarantee a fast increase of compaction together paired with very homogeneous compaction and good surface roughness. The sub base remains thereby preserved.



For earth compactors there is also the possibility for the oscillation compaction, here is the VIO drum used. In this drum both systems are combined, so that there can be selected between oscillation and vibration.





YOUR ADVANTAGES WITH OSCILLATION

- > No vibrations in the machine-surrounding field
- > Working in building areas, on bridges, within multistorey car parks or other sensitive ranges becomes just now possible
- > Higher temperature range, thereby more flexibility
- > Better compaction results through fast and continuous rise of the compaction
- > Immediate adjustment to changed structural conditions of the subgrade, without complex control mechanism
- > No grain destroying by smooth compaction
- > Good compaction on joints
- > Good initial grip on the bitumen surface by a homogeneous compaction
- > Oscillation turns rollers into all-round machines
- > Faster compaction with better result

ORIGINAL HAMM

CORE COMPETENCE COMPACTION TECHNOLOGY

HCO-NAVIGATOR - THE COST-EFFECTIVE SOLUTION FOR CONTINUOUS COMPACTION CONTROL DURING EARTHWORKS OR ASPHALTING

Continuous Compaction Control (CCC) has been the standard for many years in compaction. CCC supports the driver during compaction, which results in a more efficient, higher quality result.

The HCO-Navigator has a display unit (panel PC) and a highly accurate DGPS receiver (e.g. differential signal via satellite or local ground station). The HCO-Navigator couples all compaction information with the position of the roller and can therefore display important data graphically. This way, the roller driver can see at any time where the required compaction has been reached and where not.

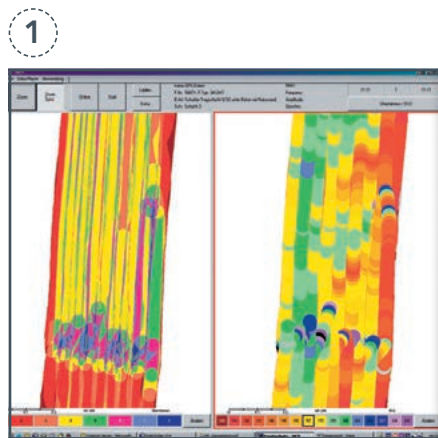
The compaction and position data are saved automatically by the system as soon as activated by the operator.

To keep the system as simple as possible, two different user interfaces are implemented: the standard mode and the extended mode. In the standard mode all the functions the machine driver needs for working with the HCO-Navigator are available. The driver can display the most important information on the cab monitor. For improved orientation on the construction site, it is also possible to display digital planning data or geo lines.

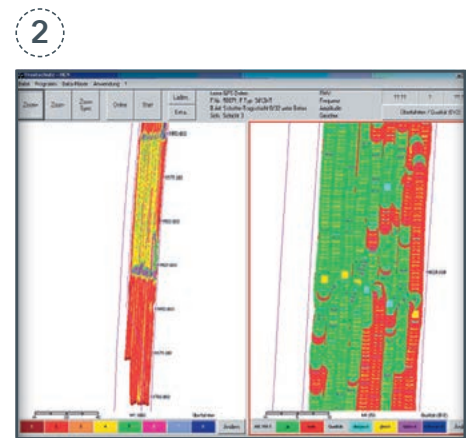
In the extended mode, site managers or laboratory technicians can utilise all the features of the system, make the necessary basic settings and evaluate existing data. The panel PC can be operated using a touchscreen. For simple and reliable data exchange and project data backup a standard USB stick is used. On completion of the construction project, you can easily and reliably archive project data and generate reports and logs required by the client. It is possible to analyse the compaction data for each individual item of the construction project at any time.

1 > On the operator's screen the operator reads the number of passes, the compaction and the compaction quality.

2 > For easier orientation on the job site, stations can be loaded with their designations onto the operator's screen.



Number of passes Load-bearing capacity (EV²)



Geo lines Quality (EV²)



> HCQ-Navigator display set - Earthworks



> HCQ-Navigator display set - Asphaltting



HCQ-NAVIGATOR - EARTHWORKS

The compaction information displayed during the earthworks is based on the measured data from the HCQ-Indicator and the position data for the roller.

With this information, the following views can be generated:

- > Number of passes
- > HVM value (soil stiffness)
- > Qualitative change in the soil stiffness
- > HVM value or load-bearing capacity: increasing, constant or dropping values
- > Load-bearing capacity (following calibration)

HCQ-NAVIGATOR - ASPHALTING

Unlike for earthworks, the information displayed for asphaltting is based not just on the measured data from the HCQ-Indicator (due to temperature and ground effects the asphalt stiffness is not reliable enough), but on a large number of related parameters.

For asphaltting the following useful views can be generated:

- > Passes by all rollers, including static rollers
- > Asphalt temperature

ORIGINAL HAMM

SMOOTH AND EARTHWORK TYRES

Today's compactors of HAMM reach highest climbing power in the toughest terrain. The tyres on the compactors are exposed to the highest loads. Therefore, the tyres are optimised for all operating conditions and guarantee safe traction and best handling.

Earthwork tyres are available in different profiles, depending on machine type and site of operation.

The design of the tyres and rims, and the rubber compound used are specifically designed for the requirements in asphaltting. Depending on air pressure the effect of the compaction changes.



1 *Special rubber mixtures* ensure the dependability of the tyres for diverse uses with different profiles.

2 *Smooth tyres* for asphaltting provide the best compaction results.

3 *Smooth tyres* are designed for the highest machine weight and have a maximum bearing load.

4 *Profile tyres* run with the ideal self-cleaning effect.

5 *Profile tyres* provide the best traction and are characterised by their high damage resistance.





Machine type	Model	Series range	Smooth tyres	
			Description	Part No.
HD 10K, HD 12K, HD 13K	H139	0001 - 9999	Pirelli	380261
			Condor	1270745
HD 10C VT	H199	0001 - 9999	Condor	1270745
HD 10 VT	H171, H200	0001 - 9999	Condor	1270745
HD 12 VT	H171	0001 - 9999		2080808
HD 12 VT	H200	0001 - 0945		2080808
		0946 - 2812	Condor	1270745
		2813 - 9999		2080808
HD 13 VT, HD 14 VT, HD 14 TT	H172, H201, H196, H208	0001 - 9999		2172109
HD 13i - 14i	H231	0001 - 9999		2172109
HD 70K, HD 75K, HD O75K, HD 75.4K, HD 90K, HD 90.4K, HD 110K	H152, H153, H173, H174, H181, H187	0001 - 9999	Dunlop	1209353
			Michelin	329096
HD+ 70i VT, HD+ 80i VT, HD+ 80i OT, HD+ 90 VT, HD+ 110 VT, HD+ 90i VT, HD+ 110i VT	H186, H185, H209, H242	0001 - 9999	Dunlop	1209353
			Michelin	329096
DV 40 VT	H164	0001 - 0172		2043068
		0173 - 9999		2172109
DV 70 TV, DV 70 TO, DV 90 TV, DV 90 TO, DV 65 TV, DV 65 TO, DV 85 TV, DV 85 TO, DV+ 70i VT, DV+ 90i VT	H165, H191, H166, H192, H197, H198, H225, H226	0001 - 9999	Dunlop	1209353
			Michelin	329096
HD 150 TT, GRW 10, GRW 15, GRW 18, GRW 21, GRW 24, GRW 280, GRW 180	H168, H183, H193, H178, H190, H195, H212, H229, H228	0001 - 9999	Dunlop	1209353
			Michelin	329096
GRW 280, GRW 180	H195, H212, H229, H228	0001 - 9999	HAMM Special	2301739

ORIGINAL HAMM

SMOOTH AND EARTHWORK TYRES

Machine type	Model	Series range	Earthwork tyres			Rock tyre (without rim)
			Grooved tyre	Diamond tread	Tractor tread	
3205	H158, H188	0001 - 9999	2030936		364193	
3307	H159, H189	0001 - 9999		2213630	355127	
3410, 3411, 3412, 3414	H169, H179, H206, H217, H269, H160, H180, H214	0001 - 9999		387851	342009	
3516, 3518, 3520, H 11i, H 11i P, H 13i, H 13i P, H 13i VIO, H 16i, H 16i P, H 11ix, H 11ix P, H 13ix, H 12i	H161, H176, H215, H210, H211, H235	0001 - 9999		387851	342009	
H 18i, H 20i, H 25i	H202	0001 - 9999		387851	342009	
H 25i	H202	0001 - 9999		387851		
3625, H 25i	H162, H177, H202	0001 - 9999			2129836	
H 5i	H222	0001 - 9999		2388996	364193	
H 7i	H222	0001 - 9999		2213630	355127	
3410, 3411, 3412, 3414, 3516, H 11i, H 11i P, H 13i, H 13i P, H 13i VIO, H 16i, H 16i P, H 11ix, H 11ix P, H 13ix, H 12i	H169, H179, H206, H217, H269, H160, H180, H214, H161, H176, H215, H210, H211, H235	0001 - 9999				1289926 (option)
						2071620 (standard)
3518, 3520, 3625, H 18i, H 20i, H 25i, H 25i VC	H161, H176, H202, H238	0001 - 9999				1232975 (option)
						2068866 (standard)



SCRAPERS FOR TYRES AND DRUMS



Original HAMM scrapers are wear-resistant and guarantee a safe cleaning of the drum and asphalt tyres.

Fixed to the frame, they run over the bandage and prevent the adhesion of dust and asphalt.

Depending on the machine type HAMM also offers folding scrapers.

The scraper materials optimised by HAMM are wear-resistant at lowest operating costs.

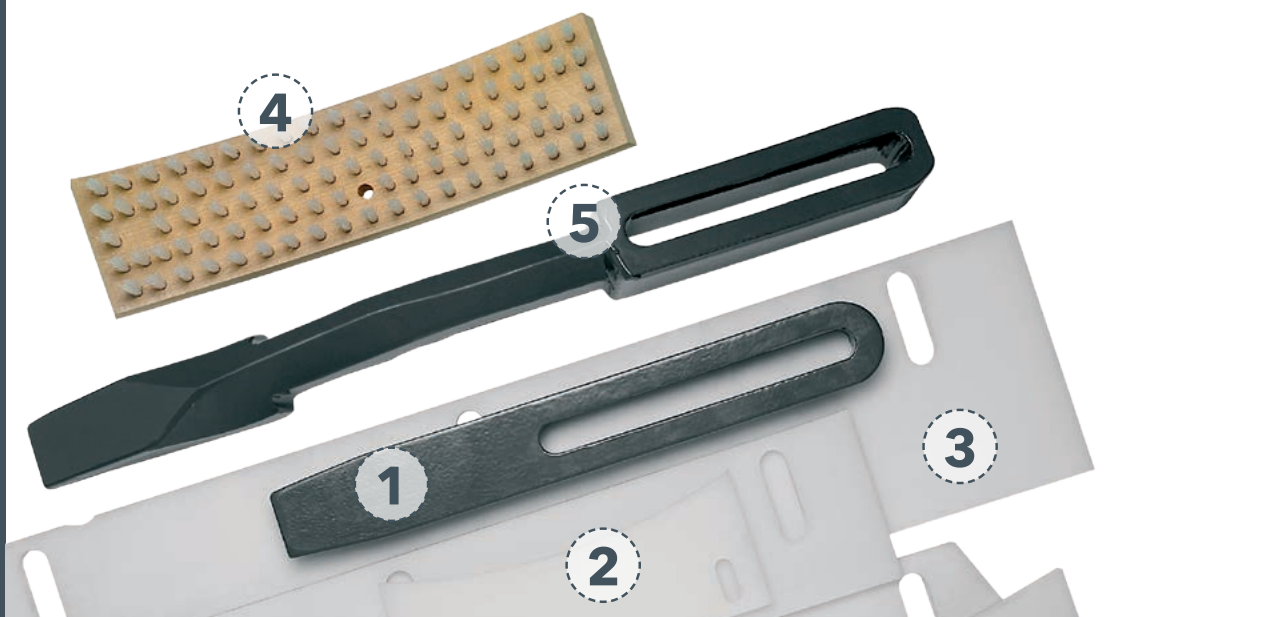
1 *The wear-resistant scrapers ensure safe cleaning of the bandages and the smooth tyres.*

2 *The material used provides the best surface quality with clean roller drum.*

3 *Plastic scrapers are durable and wear-resistant, at low usage costs.*

4 *The scraper brushes fit perfectly to the tyre surface, and thus offer the best cleaning effect.*

5 *The gaps of the padfoot drum are easily cleaned by scraper teeth made of high-quality steel.*



ORIGINAL HAMM

SCRAPERS FOR TYRES AND DRUMS

Machine type	Model	Series range	Scrapers for tyres	
			Description	Part No.
DV 40	H154	0001 - 0172	Condor	1508148
		0173 - 9999	Bridgestone	2076350
DV 65	H197	0001 - 9999	PVC	1406248
DV 70	H165, H191	0001 - 9999	PVC	1406248
DV 85	H198	0001 - 9999	PVC	1406248
DV 90	H166, H192	0001 - 9999	PVC	1406248
DV+ 70i VT - DV+ 90i VT	H225, H226	0001 - 9999	PVC	2171169
GRW 10 - 18	H114, H178, H190	0001 - 9999	Brushes	2295331
			PVC	1406248
GRW 280	H195	0001 - 9999	Brushes	2295331
			PVC	2171169
GRW 280	H229	0001 - 9999	Brushes	2295331
		0001 - 0045	PVC	2171169
		0046 - 9999	PVC	1406248
GRW 280i	H212	0001 - 9999	Brushes	2295331
			PVC	1406248
GRW 180	H228	0001 - 9999	Brushes	2295331
			PVC	1406248
HD 10 TV	H171	0001 - 9999		2085393
HD 10 TV	H200	0001 - 0945		2085393
		0946 - 9999		2091348
HD 10 - 13	H139	0001 - 9999	Pirelli	444871
			Condor	1508148
HD 12 TV	H171	0001 - 9999		2085390
HD 12 TV	H200	0001 - 0945		2085390
		0946 - 9999		2091348
HD 13 - 14 TV	H172	0001 - 9999	Bridgestone	2076350
HD 13 - 14 TV	H201	0001 - 0219	Bridgestone	2076350
		0220 - 9999		2187115
HD 13i - 14i	H231	0001 - 9999		2187115
HD 14 TT	H196	0001 - 9999	Bridgestone	2076350
HD 14 TT	H208	0001 - 0010	Bridgestone	2076350
		0011 - 9999		2187115
HD 70, HD 75	H152, H173, H187	0001 - 9999	PVC	1406248
HD 90 - 110	H153, H174, H181	0001 - 9999	PVC	1406248
HD 150 TT	H168, H183, H193	0001 - 9999	PVC	1406248
HD+ 70i - 80i	H186	0001 - 9999	PVC	1406248
HD+ 90 - 110	H185	0001 - 9999	PVC	1406248
HD+ 90i - 110i	H209, H242	0001 - 9999	PVC	1406248



Machine type	Model	Series range	Scrapers for smooth drums
3205	H158, H188	0001 - 9999	468207
3307	H159, H189	0001 - 9999	492280
3410 - 3411	H169, H179, H206	0001 - 9999	1499327
3412 - 3414	H160, H180, H214	0001 - 9999	1499327
3516	H161, H176, H215	0001 - 9999	1499327
3518 - 3520	H161, H176, H215	0001 - 9999	1499351
3625	H162, H177	0001 - 9999	1499351
DV 40	H154	0001 - 9999	1414984
DV 65	H197	0001 - 9999	1503987
DV 70	H165, H191	0001 - 9999	1503987
DV 85	H198	0001 - 9999	407976
DV 90	H166, H192	0001 - 9999	407976
DV+ 70i	H225	0001 - 9999	2256981
DV+ 90i	H226	0001 - 9999	2129161
H 5i	H222	0001 - 9999	2395899
H 7i	H222	0001 - 9999	2394659
H 11i - H 13i - H 16i	H211	0001 - 9999	2161611
H 11ix - H 13ix	H210	0001 - 9999	2161611
H 11i, H 12i	H235	0001 - 9999	2161611
H 18i - H 20i - H 25i	H202	0001 - 9999	2161611
HD 8 VV	H170, H199	0001 - 9999	2033739
HD 10	H139	0001 - 9999	1414976
HD 10 VV, TV	H171, H200	0001 - 9999	2031269
HD 10C VV	H170, H199	0001 - 9999	2031269
HD 12	H139	0001 - 9999	1414984
HD 12 VV, TV	H171, H200	0001 - 9999	2069570
HD 13	H139	0001 - 9999	1433636
HD 13 VV, TV	H172, H201	0001 - 9999	2047124
HD 14 VV, TV	H172, H201	0001 - 9999	2034672
HD 13i	H231	0001 - 9999	2047124
HD 14i	H231	0001 - 9999	2034672
HD 70	H152, H173, H187	0001 - 9999	1466763
HD 75	H152, H173, H187	0001 - 9999	1461796
HD 90 - 110	H153, H174, H181	0001 - 9999	1461796
HD 120	H163, H175, H182	0001 - 9999	1504185
HD 130	H163, H175, H182	0001 - 9999	1473638
HD+ 70i	H186	0001 - 9999	2256981
HD+ 80i	H186	0001 - 9999	2129161
HD+ 90 - 110, HD+ 90i - 110i	H185, H209, H242	0001 - 9999	2129161
HD+ 120	H184	0001 - 9999	2056544
HD+ 120i	H207	0001 - 9999	2148763
HD+ 140	H184	0001 - 9999	2092340
HD+ 140i	H207	0001 - 9999	2148766
HW 90	H123	0001 - 9999	557048 (front)
			422851 (rear - 650 wide)
			434795 (rear - 610 wide)
			557374 (rear - 550 wide)

ORIGINAL HAMM

RUBBER BUFFERS FOR DRUMS

In the daily site work, the original HAMM rubber buffers prevent that the high compaction capacities, produced by the vibration and oscillation drums, do not transfer the damaging resonances to the roller.

The rubber buffers are located between the drum and the tyres.

Original HAMM rubber buffers ensure that the torque of the drive is reliably transferred even under the hardest conditions.

The original HAMM rubber buffers provide ideal driving comfort for the operator, with minimal maintenance costs.



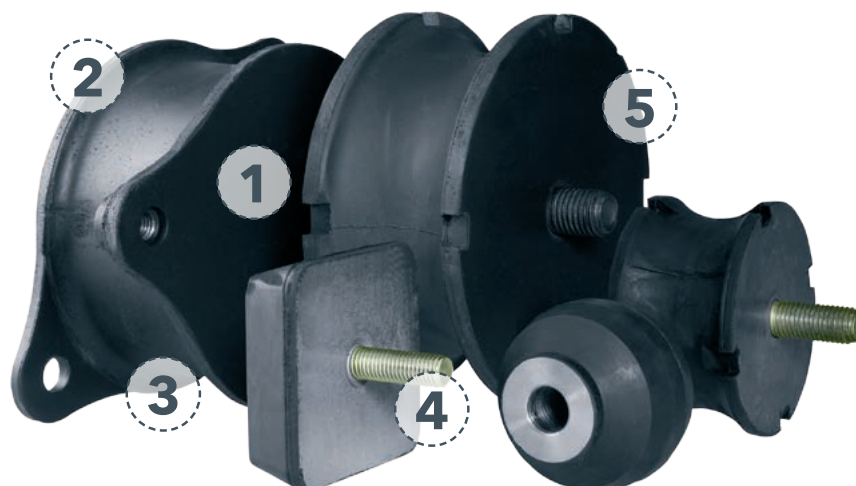
1 *The hardness of the original rubber buffers is adjusted ideally to the machine and the compacting performance.*

2 *The rubber buffers prevent the transfer of vibration to the drum.*

3 *The rubber elements have a vibration-insulating effect and allow concentrated and undisturbed working.*

4 *They are maintenance-free and easy to attach.*

5 *The vibrations are insulated and not transferred to the environment.*





Machine type	Model	Series range	Rubber buffer for drum
3205, 3307, 3410 - 3411	H158, H188, H159, H189, H169, H179, H217	0001 - 9999	1487116
3412 - 3414	H160	0001 - 1039	1487116
		1040 - 9999	1524771
3516, 3518, 3520	H161	0001 - 0538	1487116
		0539 - 9999	1524771
3625	H162	0001 - 0052	1487116
		0053 - 9999	1524771
	H177	0001 - 9999	1524771
DV 40, DV 70, DV 90	H164, H165, H166, H191, H192	0001 - 9999	1487116
DV 65, DV 85	H197, H198	0001 - 9999	1487116
DV+ 70i, DV+ 90i	H225, H226	0001 - 9999	1487116
H 5i - H 7i	H222	0001 - 9999	1487116
H 11i, H 11ix, H 11ix P	H211, H210	0001 - 9999	1487116
H 13i, H 16i, H 13ix	H211, H210	0001 - 9999	1524771
H 11i - H 12i	H235	0001 - 9999	1487116
H 18i - H 20i - H 25i	H202	0001 - 9999	1524771
H 25i VC	H238	0001 - 9999	1524771
HD 8 VV, HD 10C VV	H170, H199	0001 - 9999	2029281
HD 10 - 12	H171, H200	0001 - 9999	2029281
HD 10 - 13	H139	0001 - 9999	324353
HD 13 - 14	H172, H201	0001 - 9999	1487116
HD 13i - 14i	H231	0001 - 9999	1487116
HD 70 - 75, HD 90 - 110, HD 120 - 130	H152, H173, H153, H163, H174, H181, H175, H182, H187	0001 - 9999	354082
HD+ 70i - 80i	H186	0001 - 9999	1487116
HD+ 90 - 110	H185	0001 - 9999	1487116
HD+ 90i - 110i	H209, H242	0001 - 9999	1487116
HD+ 120 - 140	H184	0001 - 9999	1524771
HD+ 120i - 140i	H207	0001 - 9999	1524771

ORIGINAL HAMM SPRINKLING PARTS

Original HAMM parts for sprinkling guarantee the reliable water distribution on the drums of asphalt rollers.

The HAMM sprinkling system for asphalt machines has been optimised for the application on most difficult paving and is extremely water-saving. Depending on the machine type, the individual components of the system can be ordered and replaced.

The complete sprinkling system is designed for optimum reliability.



- 1 > Water pump
- 2 > Water filter complete with spare glass and filter element
- 3 > Spray nozzle, complete
- 4 > Hose coupling
- 5 > Spray nozzle



Machine type	Model	Series range	Water sprinkling unit	
			Description	Part No.
DV 40, DV 65, DV 70, DV 85, DV 90	H164, H165, H166, H191, H192, H197, H198	0001 - 9999	Water filter complete	813249
			Filter element	386596
			Felt seals for filter element	392731
			Spare glass	878685
			O-rings for spare glass	392758
			Union nut	390313
			Water pump	2335548
			Sprinkler nozzle complete (vibration drum)	2027825
			Sprinkler nozzle complete (oscillation drum DV 70 - 90)	2027844
			Nozzle holder	1232770
			Sieving filter (not DV 40)	2028603
			Sieving filter (DV 40)	1212281
			Spray nozzle	1232762
			Spray nozzle (not DV 40)	2028605
			Union nut (additive sprinkling)	1212273
			Adapter for hose coupling (DV 70 - 90)	2029231
			Hose coupling (DV 70 - 90)	2031621
Hose coupling complete (DV 70 - 90)	2035493			
DV+ 70i, DV+ 90i	H225, H226	0001 - 9999	Water filter	2033909
			O-rings for water filter	2035815
			O-rings for water filter	2035816
			Water pump	2335548
			Bayonet cap	2026016
			Hose nozzle	2025162
			Spray nozzle	1232762
			Sieving filter	1212281
			Union nut	1212273
			Nozzle holder	1232770
GRW 10 - 18	H114	0993 - 9999	Water filter complete	274097
			Filter element	280283
			O-ring	293717
			Spare glass	293598
			Spray nozzle	394297
GRW 10 - 24	H178, H190	0001 - 9999	Water filter complete	813249
			Filter element	386596
			Felt seal	392731
			Spare glass	878685
			Union nut	390313
Spray nozzle	2045333			



ORIGINAL HAMM

SPRINKLING PARTS

Machine type	Model	Series range	Water sprinkling unit	
			Description	Part No.
GRW 280, GRW 280i, GRW 180i	H195, H229, H212, H228	0001 - 9999	Water filter	2033909
			O-rings for water filter	2035815
			O-rings for water filter	2035816
			Water pump	2335548
			Adapter for hose coupling	2029231
			Hose coupling	2031621
			Hose coupling complete	2035493
			Spray nozzle	1232762
			Sieving filter	1212281
			Union nut	1212273
			Nozzle holder	1232770
HD 8 VV, HD 10C VV	H170, H199	0001 - 9999	Water filter	2033909
			O-rings for water filter	2035815
			O-rings for water filter	2035816
			Water pump	2335548
			Spray nozzle	1232762
HD 10 - 12	H171, H200, H230	0001 - 9999	Water filter	2033909
			O-rings for water filter	2035815
			O-rings for water filter	2035816
			Water pump	2335548
			Spray nozzle	1232762
HD 10 - 13	H139	0001 - 1485	Water filter complete	823112
			Filter element	386596
			Felt seals for filter element	392731
			Spare glass	1428683
			O-rings for spare glass	392758
			Union nut	390313
			Water pump	2335548
			Spray nozzle	394297
		1486 - 9999	Water filter complete	842397
			Filter element	386596
			Felt seals for filter element	392731
			Spare glass	878685
			O-rings for spare glass	392758
			Union nut	390313
			Water pump	2335548
			Spray nozzle	394297
HD 13 - 14, HD 13i - 14i, HD 14 TT	H172, H201, H196, H208, H231	0001 - 9999	Water filter	2033909
			O-rings for water filter	2035815
			O-rings for water filter	2035816
			Water pump	2335548
			Outlet lid	2031438
Spray nozzle	1232762			



Machine type	Model	Series range	Water sprinkling unit	
			Description	Part No.
HD 70 - 75, HD 90 - 110, HD 120 - 130, HD 150 TT	H152, H153, H163, H168	0001 - 9999	Water filter complete	842397
			Filter element	386596
			Felt seals for filter element	392731
			Spare glass	878685
			O-rings for spare glass	392758
			Union nut	390313
			Water pump	2335548
			Spray nozzle complete (vibration drum)	2027825
			Spray nozzle complete (oscillation drum)	2027844
			Adapter for hose coupling	2029231
			Hose coupling	2031621
Hose coupling complete	2035493			
HD 70 - 75, HD 90 - 110, HD 120 - 130, HD 150 TT	H173, H174, H181, H182, H183, H187, H193	0001 - 9999	Water filter complete	813249
HD+ 70i - 80i, HD+ 90 - 110, HD+ 90i - 110i, HD+ 120 - 140, HD+ 120i - 140i	H184, H185, H186, H207, H209, H242	0001 - 9999	Water filter	2033909
			O-rings for water filter	2035815
			O-rings for water filter	2035816
			Spray nozzle complete	2027825
			Adapter for hose coupling	2029231
			Hose coupling	2031621
			Hose coupling complete	2035493
			Spray nozzle	1232762
			Sieving filter	1212281
			Union nut	1212273
Nozzle holder	1232770			
HD+ 70i - 80i, HD+ 90 - 110, HD+ 90i - 110i	H185, H186, H209, H242	0001 - 9999	Water pump	2335548
HD+ 120 - 140	H184	0001 - 0858	Water pump	2335548
		0859 - 9999	Water pump	2245726
HD+ 120i - 140i	H207	0001 - 9999	Water pump	2245726
HW 90	H123	0522 - 1034	Water filter complete	274097
			Filter element	280283
			O-ring	293717
			Spare glass	293598
			Spray nozzle	1212257
			Sieving filter	1212281
			Water pump	2335548
		1035 - 9999	Water filter complete	813249
			Filter element	386596
			O-ring	392731
			Spare glass	878685
			O-rings for spare glass	392758
			Union nut	390313
			Spray nozzle	1212257
Sieving filter	1212281			
Water pump	2335548			

ORIGINAL HAMM WINDSCREEN WIPERS

The original HAMM windscreen wiper system is optimised for the modern cab concept of the HAMM rollers. Through its powerful configuration, the wiper guarantees the best visibility even in difficult weather conditions.

The original HAMM windscreen wiper system is reliable and service-reduced. The used rubber parts for the wipers are optimised for the application on sites throughout the world. Beside the wiper motor, wiper arms and wiper blades are also available.



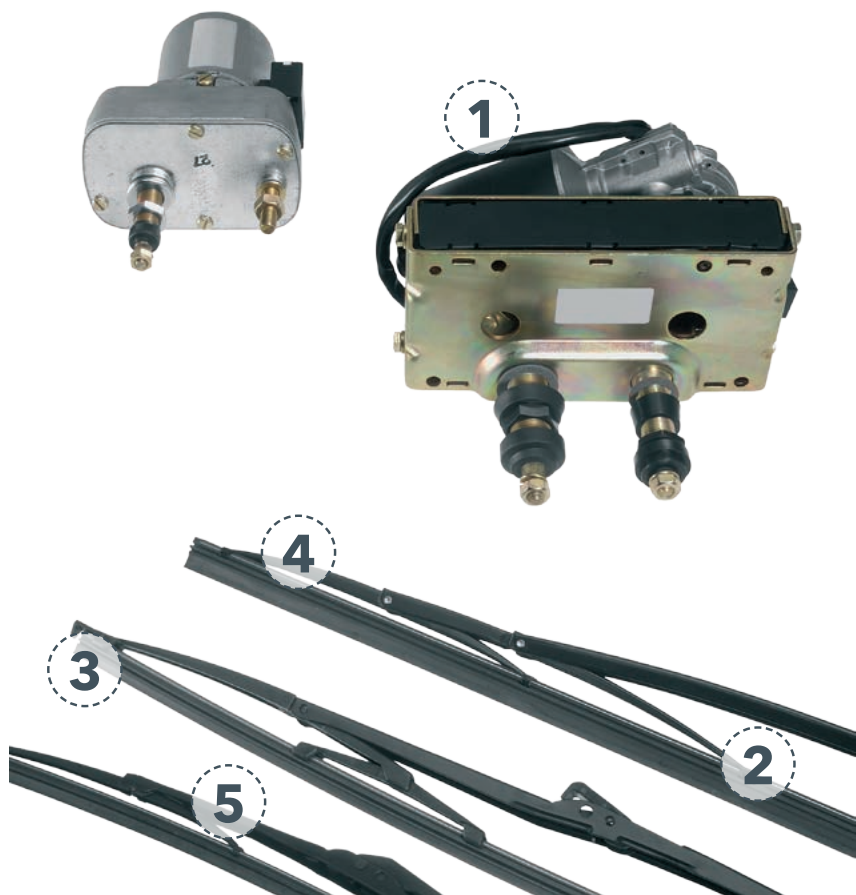
1 **Powerful wiper motor** controls the wiper arms reliably even in heavy rain.

2 **Wiper arms made of metal** combined with wiper blades and rubber profile are designed for worldwide use.

3 **The wiper blades** allow an easy and quick installation.

4 **The wiper's two thin, flexible metal inserts** with rubber profile ensure the uniform distribution of the contact pressure.

5 **The length and curvature** of the wiper blade is matched to the particular drum type.





Machine type	Model	Series range	Windscreen wipers, wiper arms and wiper blades		
			Description	Part No.	
				Front	Rear
3205, 3307, 3410 - 3411, 3412 - 3414, 3516 - 3520, 3625	H158, H159, H169, H160, H161, H162	0001 - 9999	Wiper motor	1270036	1270044
			Wiper arm	1272152	1272179
			Wiper blade	1272187	1272160
3205	H188	0001 - 0052	Wiper motor	1270036	1270044
3307	H189	0001 - 0246			
3410 - 3411	H179	0001 - 1224	Wiper arm	1272152	2073692
3412 - 3414	H180	0001 - 1365			
3516 - 3520	H176	0001 - 1252	Wiper blade	1272187	2073691
3625	H177	0001 - 0058			
3205	H188	0053 - 9999	Wiper motor	2187419	2187516
3307	H189	0247 - 9999			
3410 - 3411	H179	1225 - 9999			
3410 - 3411	H206, H217	0001 - 9999	Wiper arm	2187241	2073692
3412 - 3414	H180	1366 - 9999			
3412 - 3414	H214	0001 - 9999			
3516 - 3520	H176	1253 - 9999	Wiper blade	1272187	2073691
3516 - 3520	H215	0001 - 9999			
3625	H177	0059 - 9999			
H 18i - H 20i - H 25i, H 11i - H 13i - H 16i, H 11ix - H 13ix, H 25i VC	H202, H211, H210, H238	0001 - 9999	Wiper motor	2294910	2294905
			Wiper arm	2187241	2294906
			Wiper blade	2294908	2073691
			Nozzle	2292460	2292460

ORIGINAL HAMM

WINDSCREEN WIPERS

Machine type	Model	Series range	Windscreen wipers, wiper arms and wiper blades		
			Description	Part No.	
				Front	Rear
DV 40	H164	0001 - 9999	Wiper motor	2035435	
			Wiper arm	2035437	
			Wiper blade	2035438	
DV 65, DV 70, DV 85, DV 90	H197, H165, H191, H198, H166, H192	0001 - 9999	Wiper motor	2034533	
			Wiper arm	2035371	
			Wiper blade	2035372	
HD 13 - 14, HD 13i - 14i	H201, H231	0001 - 9999	Wiper motor	2243012	2243012
			Wiper arm	2315165	2314580
			Wiper blade	1249169	2314360
			Nozzle	2314336	2314336
HD 70 - 75, HD 90 - 110, HD 120 - 130, HD 150 TT	H152, H173, H153, H174, H181, H163, H175, H182, H168, H183, H187, H193	0001 - 9999	Wiper motor	1247484	1247476
			Wiper arm	1249371	1249150
			Wiper blade	1249398	1249169
HD+ 70i - 80i, HD+ 90 - 110, HD+ 90i - 110i	H185, H186, H209, H242	0001 - 9999	Wiper motor	2135318	2132774 (left) 2132778 (right)
			Wiper arm	2135317	2135308 (left) 2135313 (right)
			Wiper blade	2135320	2135311
HD+ 120 - 140, HD+ 120i - 140i	H184, H207	0001 - 9999	Wiper motor	2132775	2132774 (left) 2132778 (right)
			Wiper arm	2135321	2135308 (left) 2135313 (right)
			Wiper blade	2135320	2135311



Machine type	Model	Series range	Windscreen wipers, wiper arms and wiper blades		
			Description	Part No.	
				Front	Rear
GRW 10 - 18	H114, H178, H190	0001 - 9999	Wiper motor	356956	
			Wiper arm	356964	
			Wiper blade	385999	
GRW 280	H195	0001 - 0238	Wiper motor	2132775	2162364 (left) 2162359 (right)
			Wiper arm	2135321	2162358 (left) 2162363 (right)
			Wiper blade	2135320	2162361
		0239 - 9999	Wiper motor	2264974	2162364 (left) 2162359 (right)
			Wiper arm	2264973	2162358 (left) 2162363 (right)
			Wiper blade	2264972	
GRW 280, GRW 280i, GRW 180i	H229, H212, H228	0001 - 9999	Wiper motor	2264974	2162364 (left) 2162359 (right)
			Wiper arm	2264973	2162358 (left) 2162363 (right)
			Wiper blade	2264972	2162361
HW 90	H123	0001 - 9999	Wiper motor	356956	534250
			Wiper arm	356964	207683
			Wiper blade	385999	224901

ORIGINAL HAMM ELECTRICAL ACCESSORIES

The original HAMM lighting system allows the safe operation of the HAMM rollers even on night sites.

The robust design of the HAMM headlights ensure operating safety even under the toughest site conditions. The lighting parts are made of weatherproof and temperature-resistant material.

Besides the usual headlights and rear lights HAMM also offers direction indicator lamps, side-marker lamps, and the corresponding illuminants.



1 *Reliable metal mount of the headlights provides a secure hold on the machine.*

2 *The design is tailored to maximum light transmission and illumination.*

3 *Depending on the task of the lights, the appropriate light colour will light through the patterned plastic surface according to the standard.*

4 *The housing of the headlight is made of glass-reinforced plastic.*

5 *The headlights are characterised by their vibration resistance and a high light period.*





Machine type	Model	Series range	Lighting			
			Front		Rear	
			Description	Part No.	Description	Part No.
3205, 3307	H158, H188, H159, H189	0001 - 9999	Headlight, left Headlight, right Illuminant 12 V H7	1266985 1266993 1277499	Rear light Illuminant 12 V 10 W	330639 283142
			Illuminant 12 V 21 W Illuminant 12 V 4 W	283150 209635	Direction indicator Illuminant 12 V 21 W	311685 283150
			Headlight cabin Illuminant 12 V 55 W H3	1272209 366528	Headlight cabin Illuminant 12 V 55 W H3	1272209 366528
					Rear reflector	398225
3410 - 3411, 3412 - 3414, 3516 - 3520, 3625	H169, H179, H206, H160, H180, H161, H176, H162, H177, H214, H215, H217	0001 - 9999	Headlight, left Headlight, right Illuminant 12 V H7 Illuminant 12 V 21 W Illuminant 12 V 4 W	1266985 1266993 1277499 283150 209635	Rear light Illuminant 12 V 10 W	330639 283142
			Side lamp, right Side lamp, left Illuminant 12 V 4 W	2029266 2029166 209635	Direction indicator Illuminant 12 V 21 W	311685 283150
			Headlight cabin Illuminant 12 V 55 W H3	1272209 366528	Headlight cabin Illuminant 12 V 55 W H3	1272209 366528
					Rear reflector	398225
DV 40, DV 70, DV 90, DV 65, DV 85	H164, H165, H166, H191, H192, H197, H198	0001 - 9999	Headlight Illuminant 12 V H4	388483 346357	Headlight Illuminant 12 V 55 W H3	385085 366528
			Direction indicator Illuminant 12 V 21 W	311685 283150	Direction indicator Illuminant 12 V 21 W	311685 283150
			Drum lighting Illuminant 12 V 21 W Illuminant 12 V 10 W	330647 283150 283142	Rear light Illuminant 12 V 10 W	330639 283142
					Drum lighting Illuminant 12 V 21 W Illuminant 12 V 10 W	330647 283150 283142
					Rear reflector	2025134
		Headlight cabin Illuminant 12 V 55 W H3	2035376 366528	Headlight cabin Illuminant 12 V 55 W H3	2035376 366528	
DV+ 70i, DV+ 90i	H225, H226	0001 - 9999	Headlight Illuminant 12 V H4 Illuminant 12 V 4 W	2030857 346357 209635	Rear light Illuminant 12 V 21 W Illuminant 12 V 21/5 W	2030860 283150 2065509
			Direction indicator Illuminant 12 V 21 W	2142234 283150	Headlight Illuminant 12 V H4 Illuminant 12 V 4 W	2030857 346357 209635
					Rear reflector	2025134



ORIGINAL HAMM

ELECTRICAL ACCESSORIES

Machine type	Model	Series range	Lighting			
			Front		Rear	
			Description	Part No.	Description	Part No.
GRW 10 - 24	H114, H178, H190	0001 - 9999	Headlight Illuminant 12 V 45/40 W Illuminant 12 V 4 W	311987 209651 209635	Headlight Illuminant 12 V 45/40 W Illuminant 12 V 4 W	311987 209651 209635
			Side lamp, left Side lamp, right Illuminant 12 V 4 W	2029166 2029266 209635	Rear light Illuminant 12 V 21 W Illuminant 12 V 10 W	230286 283150 283142
					Rear reflector	221074
GRW 280, GRW 280i, GRW 180	H195, H229, H212, H228	0001 - 9999	Headlight Illuminant 12 V H4 Illuminant 12 V 4 W	2030857 346357 209635	Headlight Illuminant 12 V 21 W	2030859 283150
			Direction indicator Illuminant 12 V 21 W Illuminant 12 V 10 W	2142251 283150 283142	Rear light Illuminant 12 V 21 W Illuminant 12 V 21/5 W	2030860 283150 2065509
					Rear reflector	2025134
H 18i - H 20i, H 20i - H 25i, H 11i, H 12i, H 13i, H 13i - H 16i, H 11ix - H 13ix, H 25i VC, H 5i - H 7i	H202, H211, H210, H238, H222, H235	0001 - 9999	Headlight, left Headlight, right Illuminant 12 V 21 W Illuminant 12 V 55 W H3 Illuminant 12 V 4 W Illuminant 12 V H7	2173316 2173317 283150 366528 209635 1277499	Rear light Illuminant 12 V 5 W Illuminant 12 V 21 W	2030860 209694 283150
					Reversing light Illuminant 12 V 21 W	2030859 283150
HD 8 VV, HD 10C VV	H170, H199	0001 - 9999	Headlight Illuminant 12 V H4 Illuminant 12 V 4 W	2030857 346357 209635	Rear light Illuminant 12 V 21 W Illuminant 12 V 21/5 W	2030860 283150 2065509
			Direction indicator Illuminant 12 V 21 W	2030858 2055118	Reversing light Illuminant 12 V 21 W	2030859 283150
					Rear reflector	398225



Machine type	Model	Series range	Lighting			
			Front		Rear	
			Description	Part No.	Description	Part No.
HD 10 - 12	H171, H200	0001 - 9999	Headlight Illuminant 12 V H4 Illuminant 12 V 4 W	2030857 346357 209635	Rear light Illuminant 12 V 21 W Illuminant 12 V 21/5 W	2030860 283150 2065509
					Reversing light Illuminant 12 V 21 W	2030859 283150
			Direction indicator Illuminant 12 V 21 W	2030858 2055118	Rear reflector	398225
HD 10 - 13	H139	0001 - 1485	Direction indicator, left Direction indicator, right Illuminant 12 V 21 W	1200631 1200623 283150	Rear reflector Illuminant 12 V 21 W	330647 283150
					Rear light Illuminant 12 V 10 W	330639 283142
			Headlight Illuminant 12 V H4 Illuminant 12 V 4 W	388483 346357 209635	Direction indicator Illuminant 12 V 21 W	311685 283150
		1486 - 9999	Headlight Illuminant 12 V H4 Illuminant 12 V 4 W	388483 346357 209635	Rear reflector	398225
					Rear light Illuminant 12 V 10 W	330639 283142
			Direction indicator Illuminant 12 V 21 W	311685 283150	Headlight Direction indicator Illuminant 12 V 21 W	330647 311685 283150
HD 13 - 14, HD 14 TT, H 13i - 14i	H172, H201, H196, H208, H231	0001 - 9999	Headlight Illuminant 12 V H4 Illuminant 12 V 4 W	2030857 346357 209635	Rear light Illuminant 12 V 21 W Illuminant 12 V 21/5 W	2030860 283150 2065509
					Reversing light Illuminant 12 V 21 W	2030859 283150
			Direction indicator Illuminant 12 V 21 W	2030858 2055118	Rear reflector	398225
HD 70 - 75, HD 90 - 110, HD 120 - 130, HD 150 TT	H152, H173, H153, H174, H163, H175, H168, H181, H182, H183, H187, H193	0001 - 9999	Headlight Illuminant 12 V H4 Illuminant 12 V 4 W	388483 346357 209635	Rear light Illuminant 12 V 10 W	330639 283142
					Headlight Illuminant 12 V 55 W H3	385085 366528
			Direction indicator Illuminant 12 V 21 W	311685 283150	Direction indicator Illuminant 12 V 21 W	311685 283150
					Headlight cabin Illuminant 12 V 55 W	385077 355283
			Rear reflector	398225		



ELECTRICAL ACCESSORIES

Machine type	Model	Series range	Lighting			
			Front		Rear	
			Description	Part No.	Description	Part No.
HD+ 90 - 110	H185	0001 - 9999	Headlight Illuminant 12 V H4 Illuminant 12 V 4 W	2030857 346357 209635	Headlight Illuminant 12 V H4 Illuminant 12 V 4 W	2030857 346357 209635
			Direction indicator Illuminant 12 V 21 W	2142234 283150	Rear light Illuminant 12 V 21 W Illuminant 12 V 21/5 W	2030860 283150 2065509
					Rear reflector	2025134
HD+ 120 - 140	H184	0001 - 0243	Headlight Illuminant 12 V H7	2065584 1277499	Headlight Illuminant 12 V 55 W H3	2060918 366528
			Direction indicator, left Illuminant 12 V 10 W Illuminant 12 V 21 W	2066214 283142 283150	Rear light, left Illuminant 12 V 21 W Illuminant 12 V 21/5 W	2060712 283150 2065509
			Direction indicator, right Illuminant 12 V 10 W Illuminant 12 V 21 W	2066215 283142 283150	Rear light, right Illuminant 12 V 21 W Illuminant 12 V 21/5 W	2060713 283150 2065509
		0244 - 9999	Headlight Illuminant 12 V H4 Illuminant 12 V 4 W	2030857 346357 209635	Headlight Illuminant 12 V H4 Illuminant 12 V 4 W	2030857 346357 209635
			Direction indicator Illuminant 12 V 21 W	2142234 283150	Rear light Illuminant 12 V 21 W Illuminant 12 V 21/5 W	2030860 283150 2065509
					Rear reflector	2025134
HD+ 70i - 80i, HD+ 90i - 110i, HD+ 120i - 140i	H186, H209, H207, H242	0001 - 9999	Headlight Illuminant 12 V H4 Illuminant 12 V 4 W	2030857 346357 209635	Headlight Illuminant 12 V H4 Illuminant 12 V 4 W	2030857 346357 209635
			Direction indicator Illuminant 12 V 21 W	2142234 283150	Rear light Illuminant 12 V 21 W Illuminant 12 V 21/5 W	2030860 283150 2065509
					Rear reflector	2025134
HW 90	H123	0001 - 9999	Headlight Illuminant 12 V H4 Illuminant 12 V 4 W	346349 346357 209635	Headlight Illuminant 12 V 35 W	207500 209619
			Direction indicator Illuminant 12 V 21 W	230375 283150	Rear light Illuminant 12 V 21 W Illuminant 12 V 10 W	230286 283150 283142
					Rear reflector	221074



**DV+ SERIES: WORK SAFELY
AND WITH CONFIDENCE**

ORIGINAL HAMM

EMERGENCY KITS FOR ELECTRONIC SYSTEMS AND WATER SPRINKLING

Small malfunctions in the electronic or electric system can disturb the site work severely. With the original HAMM service package, you will have all necessary sensors, relays, switches, fuses as well as control elements at your disposal locally. The machine can continue the operation without longer downtime. Due to the variety of parts, your service and maintenance staff is supported effectively. The original HAMM service packages should not be missing in any workshop or service car.



Machine type	Model	Series range	Version	Electronic systems	Water sprinkling	
				Emergency kit	Service package	Driver kit
3205, 3307, 3410 - 3411, 3412 - 3414, 3516 - 3520, 3625	H158, H159, H169, H160, H161, H162	0001 - 9999	Standard	2035790		
			Hammtronic	2034656		
3205, 3307, 3410 - 3411, 3412 - 3414, 3516 - 3520, 3625	H188, H189, H179, H180, H176, H177	0001 - 9999	Standard	2117310		
			Hammtronic	2117311		
DV 40	H164	0001 - 9999				2047936
DV 70, DV 65	H165	0001 - 9999		2035744	2032389	2047936
	H191, H197	0001 - 9999		2117318	2032389	2047936
DV 85, DV 90	H166	0001 - 9999		2035744	2032389	2047936
	H192, H198	0001 - 9999		2117319	2032389	2047936



Machine type	Model	Series range	Version	Electronic systems	Water sprinkling	
				Emergency kit	Service package	Driver kit
GRW 280, GRW 280i, GRW 180	H195, H229, H212, H228	0001 - 9999				2196411
HD 8 - 10C, HD 10 - 12, HD 13 - 14, HD 13i - 14i	H170, H199, H171, H200, H172, H201, H231	0001 - 9999				2047906
HD 10 - 13	H139	0001 - 9999				2047945
HD 70 - 75, HD 90 - 110, HD 120 - 130, HD 150 TT	H152, H153, H163, H168	0001 - 9999	Standard	2035747	2039034	2047933
			Divided drum (ASC)	2035760	2039034	2047933 2047944
HD 70 - 75, HD 90 - 110, HD 120 - 130, HD 150 TT	H187, H181, H182, H193	0001 - 9999	Standard	2117312	2039034	2047933
HD 90 - 110	H187, H181, H182, H193	0001 - 9999	Standard	2117312	2039034	2047933
HD 120 - 130			Divided drum (ASC)	2117313	2039034	2047933
HD 150 TT						2047944
HD+ 70i - 80i, HD+ 90 - 110, HD+ 90i - 110i, HD+ 120 - 140, HD+ 120i - 140i	H184, H185, H186, H207, H209, H242	0001 - 9999				2117320



ORIGINAL HAMM SPECIAL TOOLS



No.	Designation	Description	Part No.
1	Frequency meter	The frequency meter is used for testing and setting the belt tension on oscillation and VIO drums.	2256382
2	Frequency meter and amplitude meter	With these special tools the vibration frequencies and the amplitude of vibration drums can be measured.	2277444
3	Oscillating drum adjusting tool	This tool is used to adjust the oscillating drum after a belt change or after a repair. The adjusting tool is matching for all oscillating drums of series HD+ 120 - 140 (H184, H207) and HD 120 - 130 (H175, H182, H275).	2247253



**H COMPACTLINE:
COMPACT ATHLETES
FOR SOIL COMPACTION**

ORIGINAL HAMM FILTER PACKAGES

An original HAMM filter is safe, reliable and cleans efficiently.

Original HAMM filters effectively protect the installed aggregates from damaging particles and guarantee maximum service life of the modern diesel and hydraulic aggregates.

Original HAMM service packages include all necessary parts per maintenance step, exactly coordinated for the particular machine type.





Machine type	Model	Series range	Replacement interval				
			50 h*	250 h, 750 h, 1250 h ...	500 h, 1500 h, 2500 h ...	1000 h, 3000 h, 5000 h ...	2000 h, 4000 h, 6000 h ...
3205	H158	0001 - 0032			2013742	2013738	2013704
		0033 - 0245	2013703		2013679	2013662	2013636
		0246 - 9999	2051657		2051661	2051662	2051663
	H188	0001 - 0052	2057970		2057971	2057972	2057973
		0053 - 9999	2221165		2221168	2221170	2221172
3307	H159	0001 - 0005			2029812	2029813	2029855
		0006 - 0155			2013604	2013517	2013500
		0156 - 0976	2013609		2013594	2013514	2013491
		0977 - 9999	2051652		2051654	2051655	2051656
	H189	0001 - 0246	2058130		2058131	2058132	2058133
		0247 - 9999	2243713		2243406	2243408	2243409
3410 - 3411	H169	0001 - 0213	2012873		2012861	2012848	2012843
		0214 - 9999	2034356		2034358	2034359	2034360
	H179	0001 - 9999	2060088		2060092	2060093	2060094
	H269	0001 - 9999	2034356		2034358	2034359	2034360
	H206	0001 - 9999	2130142		2130143	2130145	2130147
H217	0001 - 9999	2325208		2325215		2325216	
3412 - 3414	H160	0002 - 0327			2013469	2013448	2013410
		0328 - 0457			2013455	2013441	2012629
		0458 - 1026	2012873		2012861	2012848	2012843
		1027 - 9999	2034356		2034358	2034359	2034360
	H180	0001 - 1346	2060095		2060096	2060098	2060099
		1347 - 9999	2215509		2215512		2215513
	H214	0001 - 9999	2186745		2186746		2186747
3516 - 3520	H161	0001 - 0156			2012929	2013162	2013240
		0157 - 0296			2013253	2013252	2013250
		0297 - 0641	2013273		2013276	2013281	2013289
		0642 - 9999	2034361		2034396	2034404	2034405
	H176	0001 - 1501	2043632		2043633	2043635	2043637
		1502 - 9999	2218059		2218061	2218061	2218064
H215	0001 - 9999	2203258		2203261	2203261	2203264	
3625	H162	0053 - 9999	2034436		2034451	2034457	2034458
	H177	0001 - 0058	2043632		2043633	2043635	2043637
		0059 - 9999	2218059		2218061	2218061	2218064
DV 40	H164	0001 - 0172	2024045		2024047	2024048	2024054
		0173 - 9999	2111741		2111742	2111743	2111744
DV 70	H165	0002 - 9999	2024055		2024056	2024058	2024059
	H191	0001 - 9999	2050500		2050501	2050503	2050555
DV 65	H197	0001 - 9999	2050500		2050501	2050503	2050555
DV 90	H166	0003 - 9999	2024060		2024061	2024069	2024070
	H192	0001 - 9999	2051236		2051237	2051248	2051250
DV 85	H198	0001 - 9999	2051236		2051237	2051248	2051250
DV+ 70i	H225	0001 - 9999			2441901	2441903	2441906
DV+ 90i	H226	0001 - 9999			2443482	2443482	2443484

* First service

Due to possible technical changes, please always compare with the information in the instruction manual.

ORIGINAL HAMM FILTER PACKAGES

Machine type	Model	Series range	Replacement interval				
			50 h*	250 h, 750 h, 1250 h ...	500 h, 1500 h, 2500 h ...	1000 h, 3000 h, 5000 h ...	2000 h, 4000 h, 6000 h ...
GRW 10 - 18 (Cummins)	H114	0693 - 0992			2020429	2020430	2020431
GRW 10 - 18 (BF4M1013E)	H114	0993 - 1042			2020426	2020427	2020428
		1043 - 1558			2020441	2020440	2020425
		1559 - 1738	2020425		2020438	2020437	2020436
		1739 - 9999	2041764		2041737	2041740	2041741
GRW 10 - 18 (BF4M2012C)	H114	1709 - 2241	2020432		2020433	2020434	2020435
		2242 - 9999	2060117		2060119	2060120	2060121
	H178	0001 - 9999	2060117		2060119	2060120	2060121
GRW 10 - 24 (TCD 2012)	H190	0001 - 1974	2047980		2047998	2048005	2048025
		1975 - 9999	2449647		2450196	2450200	2450209
GRW 280	H195, H229	0001 - 9999			2160576	2160576	2160577
GRW 280i	H212	0001 - 9999			2283765	2283765	2283770
GRW 180	H228	0001 - 9999			2457218	2457218	2457222
H 5i - H 7i	H222	0001 - 9999			2428761	2428764	2428766
H 11i - H 13i - H 16i	H211	0001 - 9999	2308768		2260053	2260053	2260055
H 11ix - H 13ix	H210	0001 - 9999			2356666	2356666	2356671
H11i - H12i	H235	0001 - 9999			2521856		2527076
H 18i - H 20i - H 25i	H202	0001 - 9999	2194245		2204871	2204871	2204874
H 25i VC	H238	0001 - 9999			2416543	2416543	2416551
HD 8 VV, HD 10C VV	H170	0001 - 9999	2057805		2057806	2057807	2057808
	H199	0001 - 0220	2151915		2151916	2151916	2151917
		0221 - 2090	2171751		2171753	2171753	2171754
		2091 - 9999	2371678	2160199	2371680	2371680	2371682
HD 10 - 12	H171	0001 - 9999	2057801		2057802	2057803	2057804
		0001 - 0688	2151918		2151919	2151919	2151921
	H200	0689 - 4322	2171757		2171758	2171758	2171760
		4323 - 9999	2349670	2349675	2349677	2349677	2349678
H230	0001 - 9999	2349670	2349675	2349677	2349677	2349678	
HD 10 - 13	H139	1486 - 9999	2020442		2020443	2020444	2020445
HD 13 - 14	H172	0001 - 9999	2057400		2057401	2057402	2057404
		0001 - 0169	2151922		2151924	2151924	2151927
	H201	0170 - 9999 (without cabin)	2171507	251496	2171508	2171508	2171509
		0170 - 9999 (with cabin)	2171507	251496	2171508	2171508	2271371
HD 13i - 14i	H231	0001 - 9999 (without cabin)	2461475		2461477	2462699	2461478
		0001 - 9999 (with cabin)	2461475		2461480	2510670	2510674
HD 14 TT	H196	0001 - 9999	2057400		2057401	2057402	2057404
		0001 - 9999 (without cabin)	2171507	251496	2171508	2171508	2171509
	H208	0001 - 9999 (with cabin)	2171507	251496	2271706	2271706	2271707

*First service

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Machine type	Model	Series range	Replacement interval				
			50 h*	250 h, 750 h, 1250 h ...	500 h, 1500 h, 2500 h ...	1000 h, 3000 h, 5000 h ...	2000 h, 4000 h, 6000 h ...
HD 70 - 75	H152	0001 - 0017			2020446	2020448	2020449
		0018 - 0448			2020451	2020452	2020453
		0449 - 0660	2020454		2020455	2020456	2020457
		0661 - 9999	2029661		2029693	2029696	2029726
	H173	0001 - 0343	2029661		2029693	2029696	2029726
		0344 - 9999	2052620		2052622	2052623	2052624
	H187	0001 - 0613	2058010		2058011	2058012	2058013
		0614 - 9999	2249211		2249212	2249215	2249216
HD 85 - 100 (F4L 912)	H122	0083 - 9999			2020458	2020459	2020460
HD 85 - 100 (BF4L 913)	H122	0083 - 9999			2020461	2020462	2020463
HD 90 - 110	H153	0001 - 0043			2020502	2020503	2020504
		0044 - 0685	2020491		2020495	2020498	2020501
		0686 - 0925	2020490		2020493	2020497	2020500
		0926 - 9999	2020489		2020492	2020496	2020499
	H174	0001 - 9999	2020489		2020492	2020496	2020499
	H181	0001 - 9999	2060101		2060103	2060104	2060105
HD 120 - 130	H163	0001 - 0108	2020491		2020495	2020498	2020501
		0109 - 9999	2020490		2020493	2020497	2020500
		0184 - 9999	2020489		2020492	2020496	2020499
	H175	0001 - 9999	2020489		2020492	2020496	2020499
	H182	0001 - 9999	2060107		2060110	2060111	2060112
	H275	0001 - 9999	2020489		2020492	2020496	2020499
HD 150 TT	H168	0002 - 9999	2020517		2020518	2020519	2020520
	H183	0001 - 9999	2060113		2060114	2060115	2060116
	H193	0001 - 9999	2048055		2048063	2048110	2048128
HD+ 70i - 80i	H186	0001 - 9999			2318278	2318278	2318283
HD+ 90 - 110	H185	0001 - 9999			2140973	2140973	2140976
HD+ 90 - 110i	H209	0001 - 9999			2277490	2277490	2277491
HD+ 90 - 110i	H242	0001 - 9999			2506291		2506296
HD+ 120 - 140	H184	0001 - 0053			2057901	2057901	2057903
		0054 - 9999			2057901	2057901	2140976
HD+ 120i - 140i	H207	0001 - 9999	2308768		2308636	2308636	2308637
HW 90	H123	0522 - 0541			2013780	2013756	2013749
		0542 - 0861	2013815		2013830	2013829	2013817
		0862 - 0989	2029734		2029736	2029756	2029775
		0990 - 1023	2052612		2052614	2052615	2052618
		1024 - 1110	2058251		2058252	2058253	2058254
		1111 - 9999	2370197		2370199	2370201	2370202

* First service

Due to possible technical changes, please always compare with the information in the instruction manual.



ORIGINAL HAMM MAINTENANCE PACKAGES

HAMM maintenance packages contain all the necessary air, fuel, motor oil and hydraulic fluid filters and the corresponding lubricants, oils, liquids and seals appropriate for the roller types concerned.





Machine type	Model	Series range	Replacement interval				
			50 h*	250 h	500 h, 1500 h, 2500 h ...	1000 h, 3000 h, 5000 h ...	2000 h, 4000 h, 6000 h ...
DV 65 VV / VT	H197	0040 - 9999			2410341	2410341	2410342
DV 70 VV / VT	H191	0115 - 9999					2410343
DV 65 VO / TO	H197	0040 - 9999			2410345	2410345	2410346
DV 70 VO / TO	H191	0115 - 9999					2410348
DV 85 VV / VT	H198	0050 - 9999			2410355	2410360	2410369
DV 90 VV / VT	H192	0120 - 9999					2410372
DV 85 VO / TO	H198	0050 - 9999					2410378
DV 90 VO / TO	H192	0120 - 9999			2410376	2410380	2410386
DV+ 70i VV/VT	H225	0001 - 9999	2503846				2410380
DV+ 70i VO			2503863		2410385		2410392
DV+ 90i VV/VT	H226	0001 - 9999	2503863		2410456	2410456	2410394
DV+ 90i VO			2503863		2410487		2410409
HD 8 / 10C VV / VT	H199	0221 - 2090	2410350	2410355	2410360	2410360	2410369
HD 8 / 10C VV / VT		2091 - 9999	2410352		2410364	2410364	2410372
HD 10 / 12 VV / VT	H200	0689 - 4322	2410373	2410376	2410378	2410378	2410382
HD 10 / 12 VO		0689 - 4322	2410483		2410380	2410380	2410384
HD 10 / 12 VV / VT	H200, H230	4323 - 9999	2410483	2410464	2410456	2410456	2410392
HD 10 / 12 VO		4323 - 9999	2410488		2410456	2410456	2410394
HD 13 / 14 VV / VT (with cabin)	H201	0170 - 9999	2410485	2410464	2410456	2410456	2410397
HD 13 / 14 VV / VT (without cabin)			2410486				2410409
HD 13 / 14 VO (with cabin)	H201	1351 - 9999	2410487	2410492	2410458	2410458	2410411
HD 13 / 14 VO (without cabin)			2410488				2410413
HD 14 TT (with cabin)	H208	0001 - 9999	2410489	2410492	2410458	2410458	2410411
HD 14 TT (without cabin)			2410489				2410413
HD 13i / 14i VV / VT (with cabin)	H231	0001 - 9999	2504358		2504359	2504360	2504361
HD 13i / 14i VV / VT (without cabin)					2504662	2504667	2504669
HD 13i / 14i VO (with cabin)					2504359	2504360	2504451
HD 13i / 14i VO (without cabin)					2504662	2504667	2504670
HD 70	H187	0614 - 9999			2410460	2410431	2410415
HD 75						2410433	2410417
HD 70 / 75K						2410436	2410419
HD O70V / O75V / O75K (ASC)						2410446	2410421
HD O75V						2410448	2410423
HD 75.4 / HD 75.4K (ASC)						2410450	2410425
HD 90 / 110 / 110 HV / 110 VHV	H181	1889 - 9999	2410490		2410462	2410452	2410427
HD 90 / 110K						2410454	2410430
HD 90.4 (ASC)						2410344	2410347
HD O90V						2410344	2410347
HD O90V (ASC)						2410349	2410351
HD O90K (ASC)						2410349	2410351

* First service
Due to possible technical changes, please always compare with the information in the instruction manual.



ORIGINAL HAMM

MAINTENANCE PACKAGES

Machine type	Model	Series range	Replacement interval				
			50 h*	250 h	500 h, 1500 h, 2500 h ...	1000 h, 3000 h, 5000 h ...	2000 h, 4000 h, 6000 h ...
HD+ 70i / 80i VV / HV	H186	0001 - 9999			2410353	2410353	2410354
HD+ 70i / 80i VO							2410356
HD+ 70i / 80i VT							2410357
HD+ 80i VV-S / VT-S							2410359
HD+ 80i VO-S							2410361
HD+ 90 / 110 VV / HV	H185	0001 - 9999			2410362	2410362	2410363
HD+ 90 / 110 VO							2410365
HD+ 90 / 110 VT							2410366
HD+ 90 VV-S / VT-S							2410367
HD+ 90 VO-S							2410368
HD+ 90i / 110i VV / HV	H209	0001 - 9999			2410370	2410370	2410371
HD+ 90i / 110i VO							2410374
HD+ 90i / 110i VT							2410375
HD+ 90i VV-S / VT-S							2410377
HD+ 90i VO-S							2410379
HD+ 120 VV / HV	H184	0054 - 9999			2410381	2410381	2410383
HD+ 120 / 140 VO							2410385
HD+ 140 VV / HV							2410387
HD+ 120i VV / HV	H207	0001 - 9999			2410388	2410388	2410389
HD+ 120i / 140i VO							2410391
HD+ 140i VV / HV							2410393
3205	H188	0378 - 9999	2410479		2410395	2410396	2410398
3307	H189	1127 - 9999	2410399		2410400	2410402	2410403
3307 VIO							2410404
3410 / 3411	H179	1207 - 9999	2410405		2410406	2410407	2410408
3410 / 3411	H206	0081 - 9999	2410410		2410412	2410414	2410416
3412 / 3414	H180	1357 - 9999	2410418		2410420	2410422	2410424
3412 / 3414 VIO							2410426
3516 / 3518 / 3520	H176	1502 - 9999	2410428		2410429	2410432	2410434
3625	H177	0059 - 9999	2410435		2410437	2410438	2410439
H 5i / H 7i	H222	0001 - 9999	2504364		2504367	2504371	2504375
H 7i VIO							2504449
H 11i / H 13i / H 16i	H211	0001 - 9999	2410440		2410441	2410442	2410443
H 13i VIO							2410444
H 18i / H 20i / H 25i	H202	0001 - 9999	2410445		2410447	2410449	2410451
H 11ix / H 13ix	H210	0001 - 9999	2410453		2410455	2410457	2410459
HW 90	H123	1024 - 9999	2410461		2410463	2410465	2410466
GRW 10 / 15 / 18 / 21 / 24	H190	0001 - 9999	2410467		2410468	2410469	2410470
GRW 280	H195	0001 - 9999	2410540		2410541	2410542	2410543
	H229	0001 - 9999	2410471		2410472	2410473	2410474
GRW 280i	H212	0001 - 9999	2410475		2410476	2410477	2410478
GRW 180i	H228	0001 - 9999	2410475		2410476	2410477	2504376

* First service

Due to possible technical changes, please always compare with the information in the instruction manual.



**THE H SERIES: POWERFUL,
ENVIRONMENT-FRIENDLY,
COMFORTABLE**

ORIGINAL WIRTGEN GROUP LUBRICANTS

PREMIUM LUBRICANTS

WIRTGEN GROUP lubricants combine the best possible basic oils and unique additives in customised specifications. The advantages for you:

- > Compatibility with the first filling
- > Optimum protection against wear
- > Perfect protection against corrosion
- > Traceability in the event of damage

WIRTGEN GROUP lubricants consequently improve the performance and service life of your machines while at the same time durably cutting their running costs. The sensible way to save money!

ONE-STOP SUPPLY

All WIRTGEN GROUP machines - whether WIRTGEN milling machine, VÖGELE paver, HAMM roller or KLEEMANN plant can be filled and lubricated with the corresponding WIRTGEN GROUP lubricant for each application (exceptions are indicated).

Together with the carefully coordinated mixture of container sizes, this results in optimised ordering, storage and filling processes.

ACCESSORIES FOR FILLING AND LUBRICATION

Practical and well-tried accessories "made in Germany", such as canister pumps and grease guns, are available to assist you in filling and lubricating your machines.





ACCESSORIES FOR FILLING AND LUBRICATION

Oil pumps

1 > Hand pump for 20-l canisters

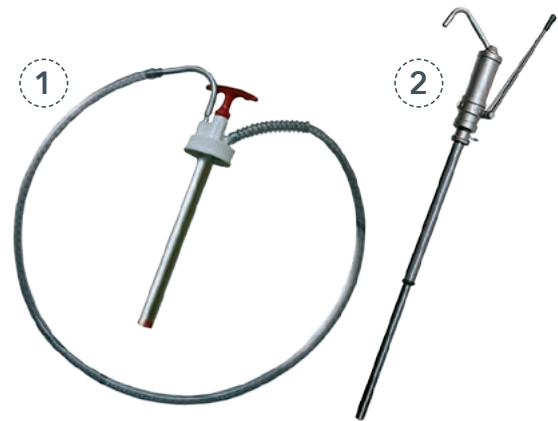
Part No.: 2065044

- Piston pump
- Delivery hose with spring-loaded spiral and anti-kink spring
- Non-drip spout with holder
- Foot valve

2 > Lever-operated hand pump for 208-l barrels

Part No.: 2065045

- Made of metal
- Telescoping intake tube
- Pivotal delivery manifold
- Delivery capacity: 0.2l/stroke



Filling cylinder and grease presses

1 > Filling cylinder

Part No.: 2065046 (500g)

Part No.: 2065047 (1000g)

- Made of metal
- Flexible hose

2 > Grease press/grease gun

Part No.: 2065049

- Made of metal
- High pressure output
- Size: 400-g cartridge

3 > Lever-operated hand grease press

Part No.: 2065048



Filling cans and funnels

1 > Filling cans

Part No.: 2065041 (1l)

Part No.: 2065042 (2l)

Part No.: 2065043 (5l)

- Flexible spout
- Complete with lid
- Different sizes

2 > Filling funnels

Part No.: 2065039 (180mm)

Part No.: 2065040 (220mm)

- Transparent plastic material
- Complete with lid
- Different diameters



ORIGINAL WIRTGEN GROUP LUBRICANTS IN DETAIL

Engine oil			
Designation	Description	Container	Part No.
WIRTGEN GROUP Engine Oil 15W-40	Powerful high-performance engine oil made from excellent basic oils and special additives. Increases the performance output of your engine while at the same time ensuring maximum operational reliability.	5 l	2065020
		20 l	2065025
		208 l	2065026
		1000 l IBC	2118572
WIRTGEN GROUP Engine Oil 10W-40	The smooth-running engine oil produced using modern synthesis technology with outstanding wear protection and cleaning characteristics is suitable for excellent and safe operating properties. Enables longer maintenance intervals as approved by the engine manufacturer.	5 l	2112355
		20 l	2112354
		208 l	2219171
		1000 l IBC	2118569
WIRTGEN GROUP Engine Oil "Low SAPS" 10W-30	Semi-synthetic "Low SAPS" engine oil (low sulphated ash, sulphur and phosphorous content) with fuel economy technology. Its low sulphate ash content ensures that burnt oil particles do not prematurely clog the emissions aftertreatment particle filter (DPF).	5 l	2210320
		20 l	2210322
		208 l	2210323
		1000 l IBC	2118570
WIRTGEN GROUP Engine Oil "Low SAPS" 10W-40 MB	The very latest synthetic diesel engine oil, extremely high performance, "Low SAPS" (lower levels of sulphur, sulphated ash and phosphor). The engine oil has been specially developed for use in all diesel engines with particle filters (DPF) and SCR systems (AdBlue®). Helps protect the environment by reducing harmful emissions.	5 l	2346869
		20 l	2346870
		208 l	2346871

Hydraulic oil			
Designation	Description	Container	Part No.
WIRTGEN GROUP Clutch Fluid 32	High-performance hydraulic fluid for use in couplers of KLEEMANN machines.	5 l	2268030
		20 l	2268032
WIRTGEN GROUP Hydraulic Oil HVLP 32	High-grade multi-range hydraulic oil with zinc for optimum protection against wear, even in the most difficult service conditions. Thanks to its enhanced specifications, it can be used with long replacement intervals.	20 l	2118573
WIRTGEN GROUP Hydraulic Oil HVLP 46	High-grade multi-range hydraulic oil with zinc for optimum protection against wear, even in the most difficult service conditions. Thanks to its enhanced specifications, it can be used with long replacement intervals.	20 l	2065028
		208 l	2065029
		1000 l IBC	2118571
WIRTGEN GROUP Hydraulic Oil HVLP 68	High-grade multi-range hydraulic oil with zinc for optimum protection against wear, even in the most difficult service conditions. Thanks to its enhanced specifications, it can be used with long replacement intervals.	20 l	2118574

Due to possible technical changes, please always compare with the information in the instruction manual.



Bio hydraulic oil			
Designation	Description	Container	Part No.
WIRTGEN GROUP Bio Hydraulic Oil 46	Easily biodegradable multi-use hydraulic oil made from all-synthetic esters and ash-free additives results in excellent lubricating properties and protects the environment. Bears the ecolabel for lubricants of the EU.	20 l	2118575
		208 l	2270558
WIRTGEN GROUP Bio Hydraulic Oil 68	Easily biodegradable multi-use hydraulic oil made from all-synthetic esters and ash-free additives results in excellent lubricating properties and protects the environment. Bears the ecolabel for lubricants of the EU.	20 l	2124179

Gear oil			
Designation	Description	Container	Part No.
WIRTGEN GROUP Gear Oil 85W-90	Mineral gear oil of the latest generation for versatile use in gearboxes and axle drives. Stands out through maximum protection against wear and oxidation. Note: Must not be used for WIRTGEN milling drum gearboxes, HAMM vibratory bearings and drum drives as well as for VÖGELE pump splitter gearboxes and travel drives.	5 l	2065030
		20 l	2065031
		208 l	2065032
WIRTGEN GROUP Multi Gear Oil VG 220	Mineral-oil based high-performance gear oil with EP (extreme pressure) additives offers very good wear protection and excellent performance in gearboxes. Recommended for use in KLEEMANN cone crushers MCO 9 EVO and MCO 11 PRO.	20 l	2483282
		208 l	2483283
WIRTGEN GROUP Special Gear Oil	Special all-synthetic high-performance gear oil for HAMM vibratory bearings and drum drives, VÖGELE pump splitter gearboxes and advance drives and KLEEMANN advance drives. Extremely resistant to pressure and temperature. Note: Must not be mixed with mineral gear oil. Must not be used for WIRTGEN milling drum gearboxes.	5 l	1238051
		20 l	2065037
		208 l	2065038
WIRTGEN GROUP High-Performance Gear Oil VG 150	Exclusive all-synthetic gear oil designed for heavy-duty use in WIRTGEN milling drum gearboxes. Extremely resistant to pressure and temperature. Note: Never mix with mineral gear oil. Must not be used for HAMM vibratory bearings and drum drives.	5 l	2173019
		20 l	199752
		208 l	2120829
WIRTGEN GROUP High-Performance Gear Oil VG 220	Exclusive all-synthetic gear oil designed for heavy-duty use in WIRTGEN milling drum gearboxes and KLEEMANN belt and bevel gearboxes. Extremely resistant to pressure and temperature. Note: Never mix with mineral gear oil. Must not be used for HAMM vibratory bearings and drum drives.	5 l	2170074
		20 l	2065033
		208 l	2065034
WIRTGEN GROUP High-Performance Gear Oil VG 460	Exclusive all-synthetic gear oil designed for heavy-duty use in WIRTGEN hot recyclers and S-Pack binding agent dosing unit. Note: Never mix with mineral gear oil. Must not be used for HAMM vibratory bearings and drum drives.	5 l	2461524
		20 l	2120830

Due to possible technical changes, please always compare with the information in the instruction manual.

ORIGINAL WIRTGEN GROUP

LUBRICANTS IN DETAIL

Grease			
Designation	Description	Container	Part No.
WIRTGEN GROUP Multipurpose Moly Grease	Highly refined black multipurpose grease for a wide range of lubricating jobs, such as on link pins and wheel bearings. State-of-the-art additive technology makes this product particularly suitable for use in conditions subject to impacts and vibration.	400 g	2065035
WIRTGEN GROUP High-Performance Grease	Premium multipurpose grease for use in WIRTGEN GROUP machines, e.g. in clutches and WIRTGEN remimers. It is particularly suitable for use under high temperatures and high loads.	400 g	47259
WIRTGEN GROUP High-Performance Grease KLEEMANN	Grease for KLEEMANN screen mounts.	400 g	M10021195
WIRTGEN GROUP Friction and Roller Bearing Grease	Exclusive grease for lubricating rolling and plain bearings exposed to high temperatures in VÖGELE machines.	18 kg	2027868
		12 x 400 g	2086136
WIRTGEN GROUP Telescoping Tube Grease	Special high-performance grease based on silicone for use on VÖGELE telescoping tubes.	100 g	2086137
WIRTGEN GROUP Low-Viscosity Grease	Thermally stable, high-performance low-viscosity grease with exceptional wear-resistance properties for VÖGELE auger drives.	5 kg	2050152
WIRTGEN GROUP Drum Bearing Grease	Exclusive grease for lubricating HAMM drum bearings. Extremely resistant to temperature and pressure.	1 kg	1205757
WIRTGEN GROUP Drive Bearing Grease	Special high-performance grease for use in HAMM drive bearings. Extremely resistant to pressure and water-repellent.	1 kg	1227114
WIRTGEN GROUP Quick-Change Toolholder Grease	Lubricant for greasing the WIRTGEN quick-change toolholder.	480 g	2310279
WIRTGEN GROUP Cone Moly Grease	Special high-performance grease for use in KLEEMANN cone crushers.	400 g	2342967

Other			
Designation	Description	Container	Part No.
WIRTGEN GROUP Asphalt Anti Stick	Perfect solution for HAMM rubber and combined wheel rollers: It prevents adhesion of the bitumen on the rubber tyres. The emulsion is based on a non-toxic solution and is thus rapidly biodegradable.	5 l	2117378
		20 l	2117379
WIRTGEN GROUP Antifreezing Compound	Coolants, anti-freeze and anti-corrosion agents. Note: Do not use 09WR (WR 200) or for KLEEMANN units.	5 l	2173022
		20 l	2173023
		208 l	2173024
WIRTGEN GROUP Antifreezing Compound MB	Coolants, anti-freeze and anti-corrosion agents for Mercedes Benz diesel engines; only for 09WR (WR 200).	210 l	2301878
WIRTGEN GROUP Antifreezing Compound KLEEMANN	Coolants, anti-freeze and anti-corrosion agents for KLEEMANN units	20 l	2535933
WIRTGEN GROUP Silicone Transformer Liquid	DOW transformer oil can be used in the magnetic separator in KLEEMANN systems.	20 l	2346389
AdBlue®	32.5% high-purity urea solution in compliance with AUS 32.	10 l	2434706
		210 l	2090870

Due to possible technical changes, please always compare with the information in the instruction manual.



ONLY THE BEST LUBRICANTS FOR YOUR MACHINE

THE QUICK WAY TO ORIGINAL WIRTGEN GROUP LUBRICANT AND FILTER PRODUCTS

You can benefit from our online service at www.partsandmore.net to find the perfect product for your machine. In just a few steps, you can, for instance, select suitable lubricants, filter elements and filter and maintenance packages - clearly laid out and including all the relevant details.

You order - we deliver promptly. The ideal tool to support you efficiently in your daily work.

PLEASE REFER TO: WWW.PARTSANDMORE.NET

**OUR
SERVICE
FOR YOU**



ALWAYS UP-TO-DATE, INCLUDING ON MOBILE DEVICES

Complete flexibility: in the office, on the move or out on the jobsite - our new service tool is very userfriendly and convenient to operate, including on mobile devices such as tablets and smartphones.



ORIGINAL WIRTGEN GROUP SMART SERVICE

OUR SERVICE IS SMART

WIRTGEN GROUP SmartService offers you reliable support to ensure your machines retain their value. Benefit from the advantages of our service package such as cost-effectiveness, minimisation of machine downtimes, value retention, comfort and safety.

In combination with WITOS® FleetView*, we are offering for the first time a telematics-based service that sets new standards in terms of prevention, responsiveness and efficiency.

OUR TAILOR-MADE SERVICE AGREEMENTS FOR YOUR MACHINES





+ WITOS® FleetView*

- > Proactive maintenance planning
- > Faster response times in the event of faults
- > Current location and status information for your machines

SmartService

- > Professional maintenance in accordance with operating instructions (incl. filters, lubricants, work time and travel expenses)
- > Visual inspection
- > Check and report on wear
- > Software updates
- > Safety check in line with accident prevention regulations

SmartService

- > Professional maintenance in accordance with operating instructions (incl. filters, lubricants, work time and travel expenses)
- > Visual inspection
- > Check and report on wear
- > Software updates
- > Safety check in line with accident prevention regulations

**INTERESTED? PLEASE CONTACT OUR
SALES AND SERVICE COMPANY.**



WITOS® FLEET VIEW RETROFIT KITS



The table shows you for which machines the WIRTGEN Road Technologies WITOS® FleetView is already available as a retrofit kit.












For information on additional retrofit kits, please contact your WIRTGEN GROUP sales and service company.

Machine type	Model	Series range	WITOS® FleetView 3 years (EU)	WITOS® FleetView 3 years (Non-EU)
			Part No.	Part No.
3410, 3411	H179	0010 - 9999	2480523	2490882
3412 HT, 3414 HT, 3412, 3414	H180	0010 - 9999	2480523	2490882
3516 HT, 3518 HT, 3516, 3518	H176	0010 - 9999	2480523	2490882
3625 HT	H177	0010 - 9999	2480523	2490882
H 5i - H 7i	H222	0010 - 9999	2408617	2490806
H 11i - H 15i	H211	0010 - 0088	2356998	2490792
		0010 - 9999	2355425	2490791
H 11i - H 12i	H235	0010 - 9999	2384218	2490838
H 11ix - H 13ix	H210	0010 - 9999	2355425	2490791
H 18i, H 20i, H 25i	H202	0010 - 0047	2356998	2490792
		0048 - 9999	2355425	2490791
H 25i VC	H238	0010 - 9999	2355425	2490791
DV+ 70i	H225	0010 - 9999	2409686	2490822
DV+ 90i	H226	0010 - 9999	2409686	2490822
HD 10-12	H200	0010 - 9999	2480632	2490858
HD 13-14	H201	0010 - 9999	2467085	2533065
HD 13i-14i	H231	0010 - 9999	2469867	2490841
HD+ 70i, HD+ 80i	H186	0010 - 9999	2355423	2490781
HD+ 90-110	H185	0010 - 9999	2467062	2490901
HD+ 90i, HD+ 110i	H209	0010 - 9999	2355423	2490781
HD+ 90i-110i	H242	0010 - 9999	2545521	2545520
HD+ 120-140	H184	0010 - 9999	2467062	2490901
HD+ 120i, HD+ 140i	H207	0010 - 9999	2355423	2490781
HD 14 TT	H208	0010 - 9999	2467085	2533065
GRW 180i	H228	0010 - 9999	2345897	2490802
GRW 280	H229	0010 - 9999	2527574	2527582
GRW 280i	H212	0010 - 9999	2345897	2490802

KLEEMANN GMBH

PERFECT MOBILE CRUSHER AND SCREENING SYSTEMS



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ORIGINAL KLEEMANN

CORE COMPETENCE CRUSHING TECHNOLOGY

THE CRUSHERS CAN BE CLASSIFIED INTO TWO MAIN GROUPS:

- > All KLEEMANN jaw and cone crushers operate according to the pressure crushing principle. This means that the material is subjected to high pressure until it breaks.
- > Impact crushing is the principle of impact crushers. Here, the material is crushed through quick impacts.

PRESSURE CRUSHING JAW CRUSHERS

The KLEEMANN jaw crushers are used for crushing virtually any natural stone and for recycling construction waste. The material is crushed in the wedge-shaped duct between the fixed crusher jaw and the crusher jaw that is moved by an eccentric shaft.

The feed material is crushed by the elliptical movement and transported downwards. This action continues until the material is smaller than the crusher gap set.



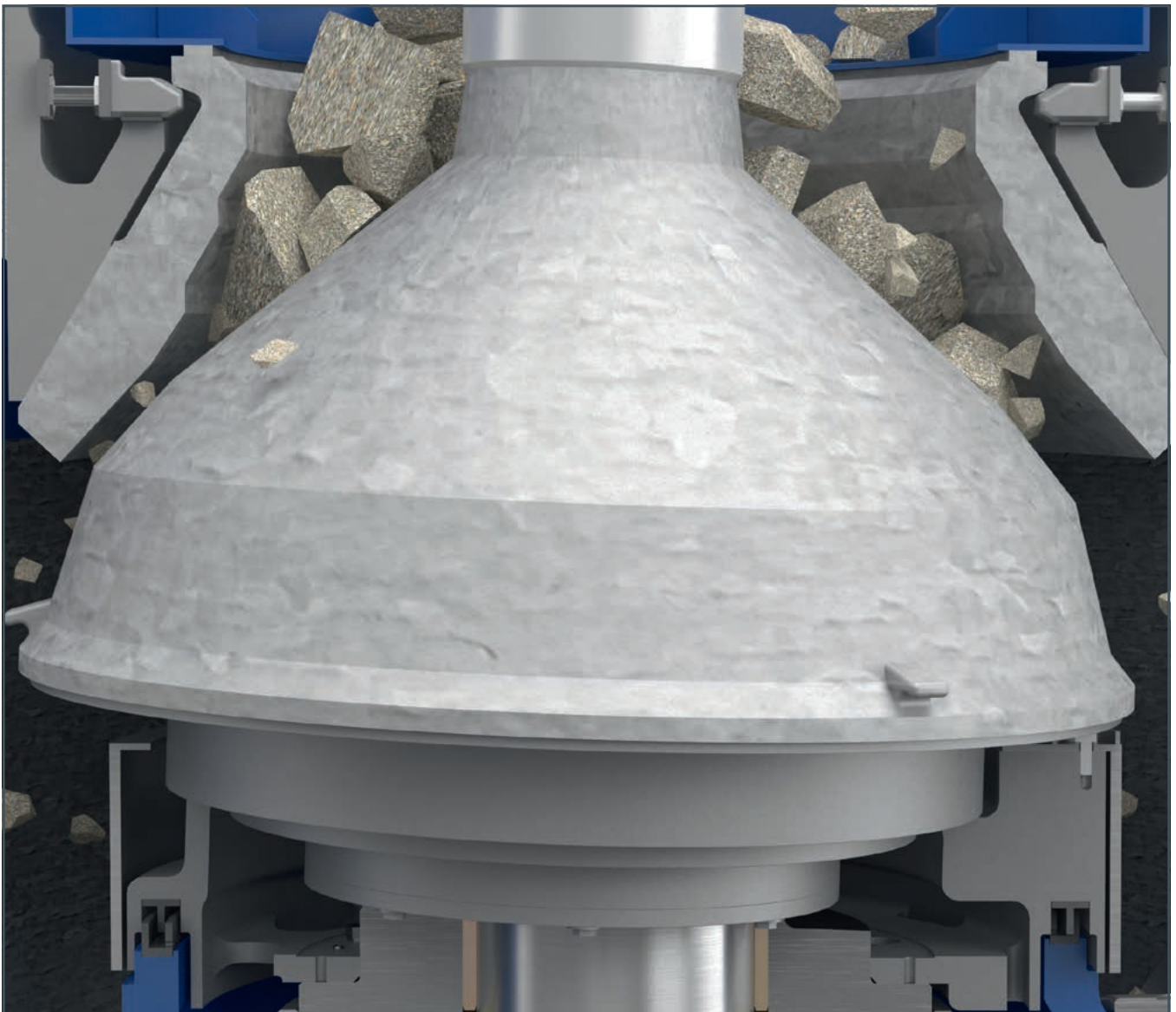


PRESSURE CRUSHING CONE CRUSHERS

Cone crushers are mostly used as secondary crushers. The feed material is produced through an upstream crushing stage, e.g. a jaw crusher.

Crushing takes place between the rigid crushing shell and the moving crushing cone. A gear-driven eccentric bushing creates a circular oscillation, which results in periodically varying distances of the crushing cone to the shell.

The gap width (o.s.s. = open gap width, c.s.s. = closed gap width) and thereby the grain size of the crusher product can be varied by raising and lowering the crushing shell.



ORIGINAL KLEEMANN

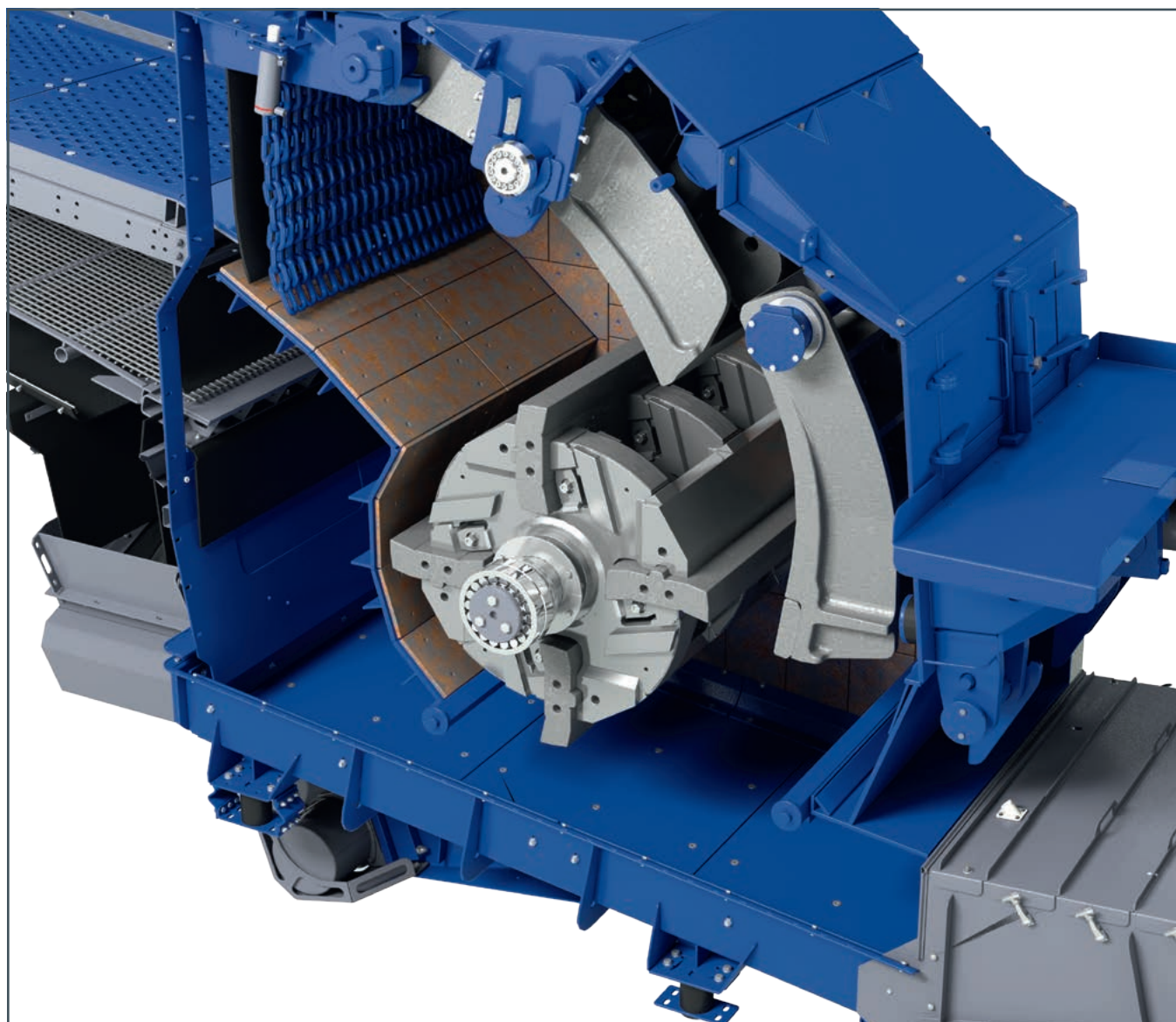
CORE COMPETENCE CRUSHING TECHNOLOGY

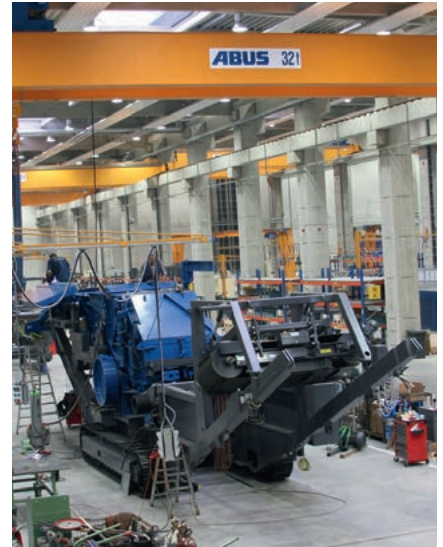
IMPACT CRUSHING IMPACT CRUSHERS

Upon impact of the feed material with the blow bars, the material is accelerated and thrown onto the impact toggle or abrasion lining of the impact area. During this process the material is primarily crushed by the impact of the blow bars.

Impact crushers allow for a higher crushing ratio and produce a cubic final product. In certain cases on wear-resistant material the whole process can thus be performed with a crusher, for which usually several crushing stages are required.

To obtain a better crushing effect, the impact edge is chamfered. It is important that the impact edge remains "sharp" even with advancing wear (like on the C-shape blow bars) to ensure the best possible crushing result.





The mobile system is only as good as the sum of its individual parts. The deciding factor however is that the individual parts are adjusted to each other. And whoever can do this correctly, can positively influence the total performance of the system through targeted innovation at the right location.

Through decades of experiences, in both the stationary and mobile plant engineering, KLEEMANN continues to constantly produce ground breaking innovations. For example, drive concepts perfectly aligned to the respective application.

The crusher is a component in the complete process. To take full advantage of the crusher performance and to keep wear to a minimum, the optimum interaction of all components with conveyor belts, screens, chute, drive is required.

The table shows some key criteria through which the corresponding crusher can be selected. The here mentioned selection is a recommendation due to the long-term use on sites. It thus represents a guideline only, but offers no fixed rule.

Feature	Impact crushers	Jaw crushers	Cone crushers
Common crushing level	primary/secondary	primary	secondary/tertiary
Abrasiveness of the feed material	low	high	high
Influence on grain size	yes	no	yes
Fines in the crushed material	medium/high	low	low
Feed size up to (mm)	1500	1300	300
Crushing ratio	15:1 in the pre-crushing area 20:1 in the secondary crushing area	5:1	5:1

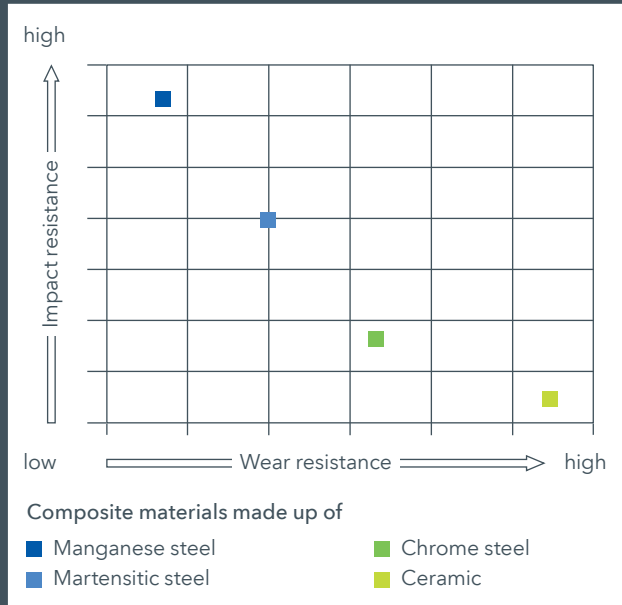


ORIGINAL KLEEMANN BLOW BARS

Blow bars - the perfect crushing outcome

Original KLEEMANN blow bars offer more than just the correct dimensions. The materials used, alloying elements and the entire casting process are important foundations for a reliable crushing tool.

A KLEEMANN impact crusher has many different areas of use. From conventional natural stone processing to construction waste recycling and mining applications, the main focus is on two tasks: increasing the blow bar service life and reducing the operating costs.



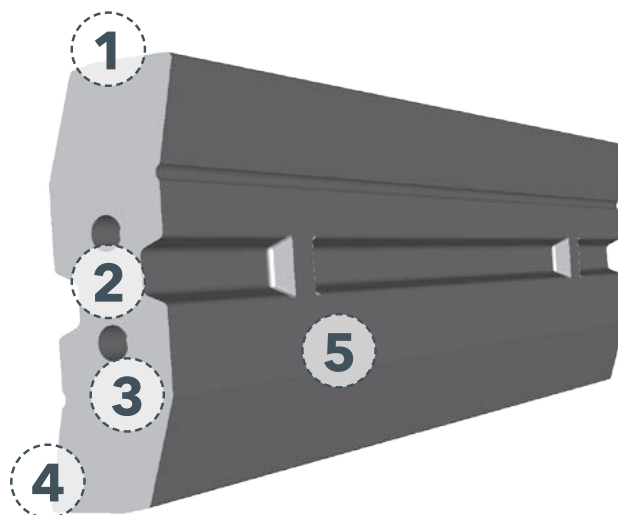
1 *The high utilisation rate* represents long life.

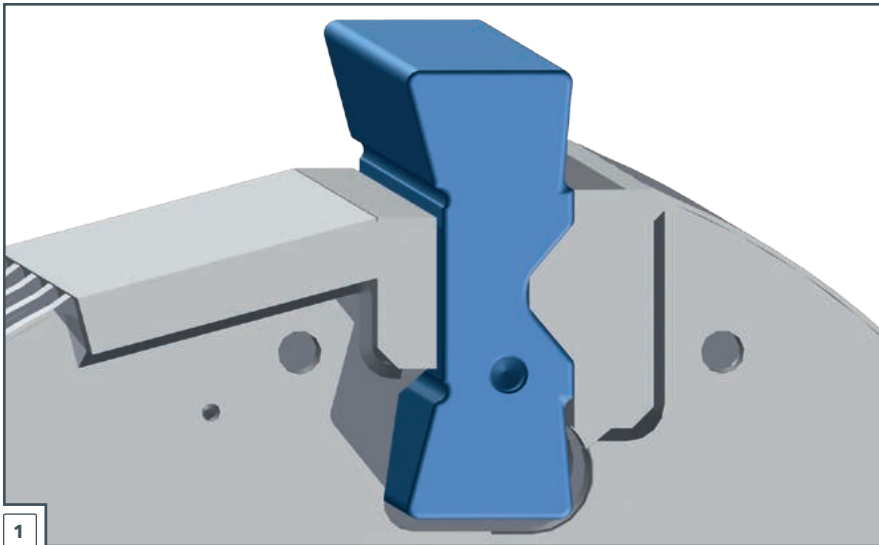
2 *The unique rotation* ensures high availability.

3 *Holes* ensure easy and quick handling.

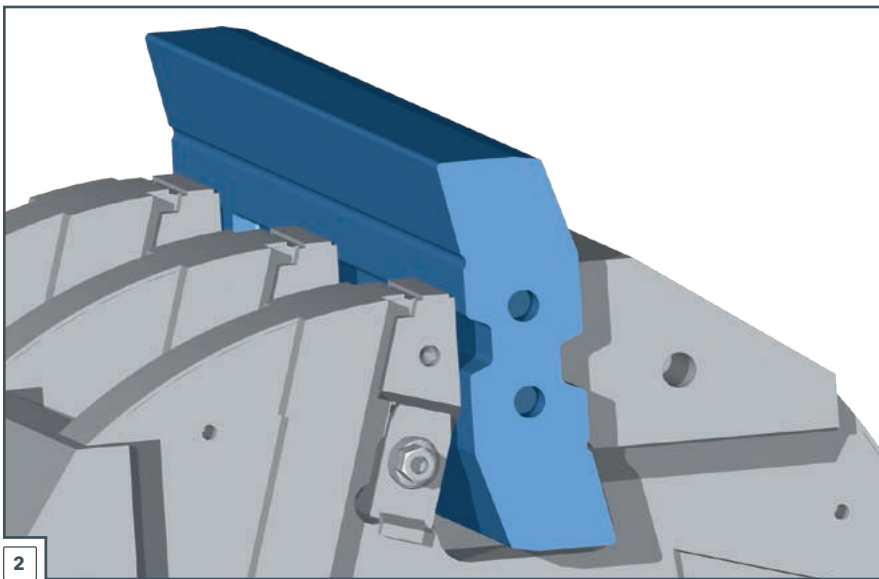
4 *The impact edge* is chamfered to maintain the impact edge longer, and thus for better crushing over a long period.

5 *The modified clamping surface* along the entire length provides exact fit with a reduced danger of breakage.

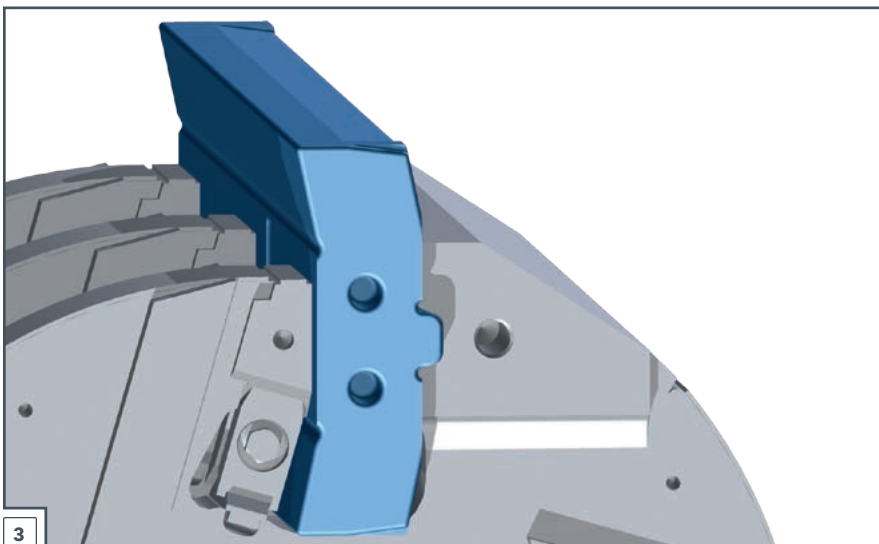




1



2



3

Depending on the model series of the machines, different blow bar shapes are used. KLEEMANN offers three different shapes: X-Shape, S-Shape and C-Shape.

The **X-Shape** blow bars are fitted to the MR 100, MR 122 and MR 150. These are pushed into the rotor from the side and affixed. In contrast to the other systems, the blow bars rest loosely in the rotor. The use of highly wear-resistant blow bars, e.g. chrome or chrome with ceramic, is not recommended for these mounting variants due to the increased risk of breakage.

A newly developed clamping system is now used with the **S-Shape** blow bars installed in the MR 130 V3. The blow bars are fastened to the rotor without any play using clamping wedges. This reduces the risk of breakage for wear-resistant blow bars, such as those made of chrome or chrome with ceramic. In contrast to the X-shaped blow bars, the blow bars can be mounted and dismantled from above.

Further developed for the EVO generation, the design is known as the **C-Shape**. The blow bar affixing to the rotor is handled here by means of the lug of the blow bar. These are made thicker at this place, so that the clamp cross-section is strengthened in the highly-stressed area. The rigid mounting also ensures that impact energy is optimally transferred to the rotor, which substantially further reduces the risk of breakage in highly wear-resistant chrome blow bars.

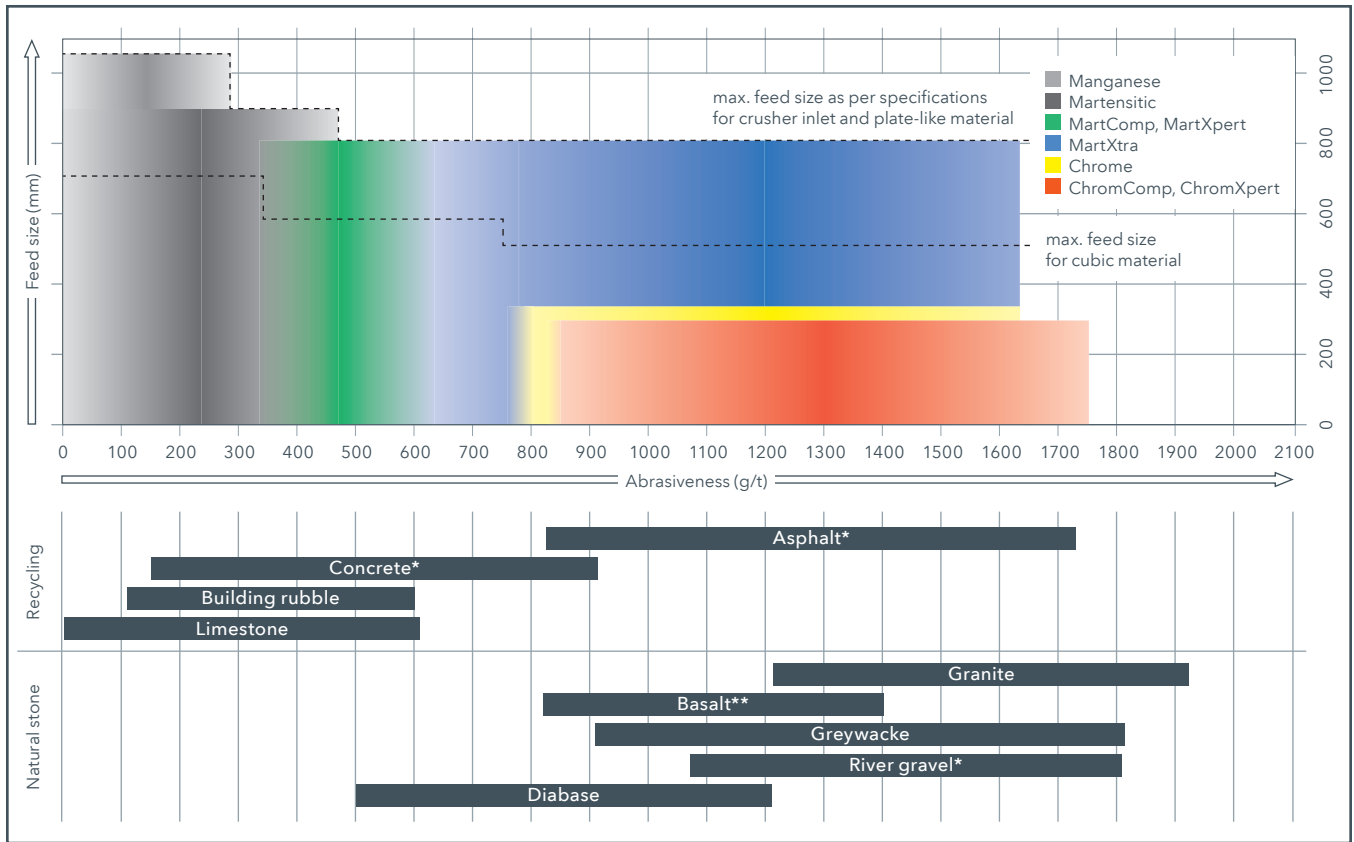
- 1 > X-Shape
- 2 > S-Shape
- 3 > C-Shape

RECOMMENDED USE FOR BLOW BARS

Blow bar	Recommended for	Properties
Manganese steel	<ul style="list-style-type: none"> > Mild abrasiveness, e.g. limestone > In case of very large feed size > When there is a very high proportion of unbreakable objects in the feed material e.g. iron 	<ul style="list-style-type: none"> > Manganese is used when an increased impact resistance or elongation capability is a prerequisite. When the impact force is sufficient, the manganese steel of the blow bar consolidates (cold consolidation) and therefore reduces the wear.
Martensitic steel	<ul style="list-style-type: none"> > Building rubble > Blasted limestone > In case of large feed material (depends on the geometry of the crusher inlet) 	<ul style="list-style-type: none"> > This steel combines hardness and impact resistance where using chromium steel would lead to breakage. Furthermore, martensite blow bars have a longer service life than manganese blow bars for applications with abrasive materials.
Martensitic steel with ceramic (MartXpert/MartComp)	<ul style="list-style-type: none"> > Recycling of building rubble with little to medium iron content > Concrete > Natural stone 	<ul style="list-style-type: none"> > The blow bar comprises a martensite body which is reinforced on the inside with ceramic inlays. This composite material combines the hardness of a ceramic with the mechanical characteristics of steel and has a 2 to 4 times longer service life when compared to blow bars made of single alloys.
Martensitic steel with ceramic (MartXtra)	<ul style="list-style-type: none"> > Recycling of building rubble with little to medium iron content > Concrete > Natural stone > Asphalt 	<ul style="list-style-type: none"> > The ceramic inlay is cast in deeper and more elongated. The impact edge therefore is preserved until the end of the wear period, increasing the service life compared to the MartXpert/MartComp blow bar for abrasive applications.
Chrome steel	<ul style="list-style-type: none"> > Secondary crushing level with natural stone or river gravel > In case of smaller feed sizes 	<ul style="list-style-type: none"> > Chromium steel is characterised in particular by its increased hardness and has the advantage of being particularly wear resistant in applications where manganese and martensitic steels wear down more quickly.
Chrome steel with ceramic (ChromXpert/ChromComp)	<ul style="list-style-type: none"> > Secondary crushing level with very abrasive natural stone or river gravel > Asphalt in case of smaller feed size, milled material without any iron content 	<ul style="list-style-type: none"> > The bond between chrome body and ceramic inlays ensures a constant wear profile with very abrasive pre-crushed materials which are encountered especially in gravel pits and quarries.



SELECTION OF BLOW BARS



i If you are unable to determine a suitable blow bar when assisted by the selection aid, then please contact our sales and service company directly, or KLEEMANN GmbH, to have your application usage checked and an appropriate solution found.



The cost-effective use of the blow bars is influenced by many factors (e.g. feed material, rotor speed, moisture content, feed size, crushing ratio). In the guidance table you will find the most important influencing factors for selecting the blow bars.

Go through the questions and determine the most cost-effective blow bar grade for your application based on the material conditions that you are aware of. If this leads you to choose various blow bars, start with the most cost-effective crusher tool for your application.

- 1) Questions on selecting blow bars appropriate to the application:
 - > Which material will be crushed (broken-up concrete, for example)?
 - > How can the feed size be classified (e.g. largest grain size 600 mm)?
 - > Is the material cubic or plate-like?
 - > In which area is the abrasiveness?

2) Determining the possible blow bars

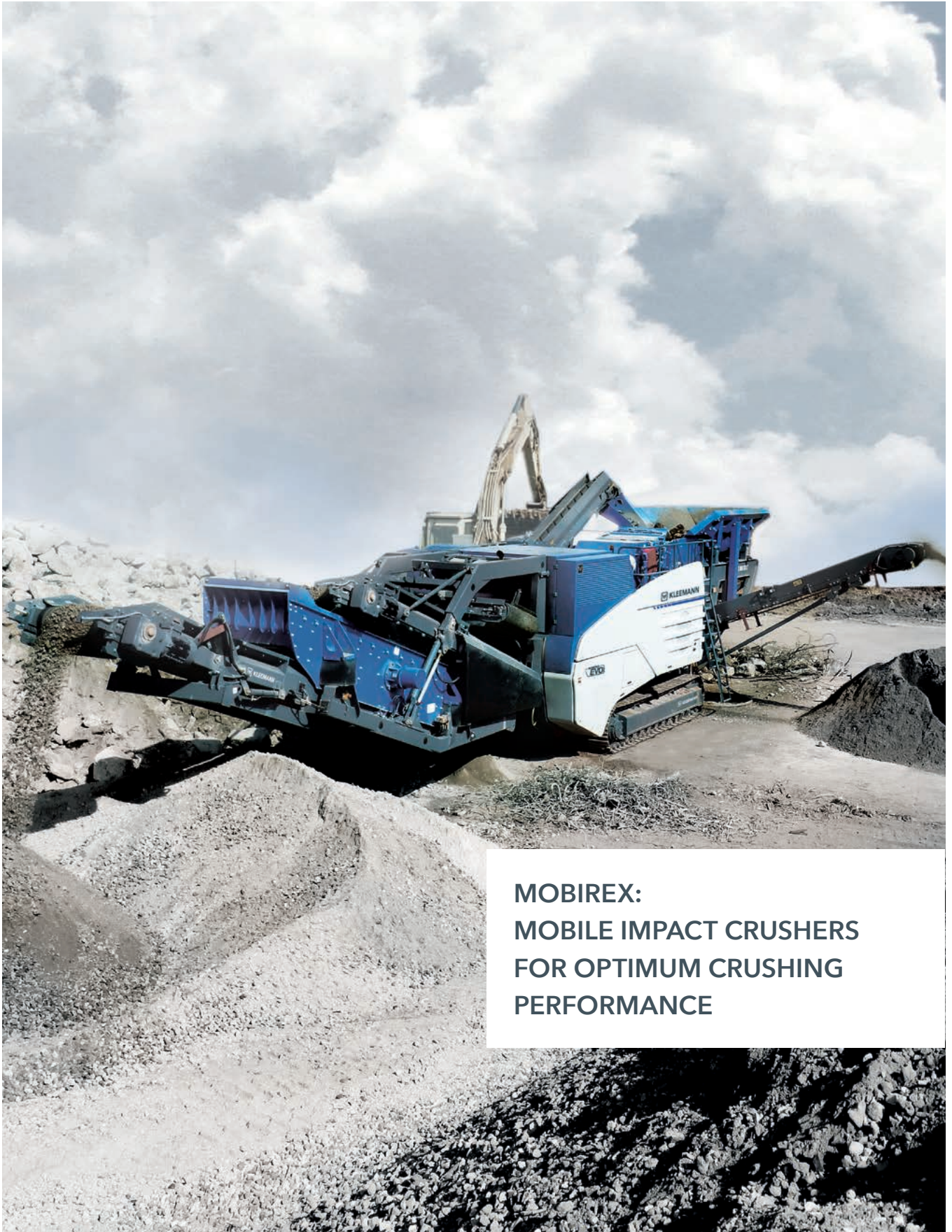
3) Verification of the determined blow bar with regard to the availability of the crusher type

* Additional materials are decisive (e.g. granite, quartzite, basalt).
 ** Usage must be checked by KLEEMANN by means of a material sample.

PRODUCT RANGE OF BLOW BARS

Machine type	Model	Series range	Material version				
			Manganese	Martensitic	Martensitic + ceramic		
			MANGANESE	MARTENSITIC	MARTCOMP	MARTXPERT	MARTXTRA
MR 100 R, MR 100 Z	K012, K013	0001 - 9999	F10039722	F10327412	F10408402	F20000018	2446993
MR 110 R EVO, MR 110 Z EVO	K016, K017	0001 - 9999	F20013343	F20007840	F20011044		2366368
MR 110 Z EVO 2, MR 110 Zi EVO 2	K018, K019	0001 - 9999	F20013343	F20007840	F20011044		2366368
MR 122 Z	K062	0001 - 9999	F10038791	F10308431	F10356771	F20000019	2414417
MR 130 R, MR 130 R EVO	K023	0001 - 0199	F10343421	F10330751	F10408421	F20001298	F20012306
		0200 - 9999	F20013344	F20010951	F20011039		2366459
MR 130 Z, MR 130 Z EVO	K024	0001 - 0299	F10343421	F10330751	F10408421	F20001298	F20012306
		0300 - 9999	F20013344	F20010951	F20011039		2366459
MR 130 Z EVO 2, MR 130 Zi EVO 2	K077, K078	0001 - 9999	F20013344	F20010951	F20011039		2366459
MR 150 Z	K063	0001 - 9999	F10214341	F10364061	F10408391		

Machine type	Model	Series range	Material version		
			Chrome	Chrome steel + Ceramic	
			CHROME	CHROMCOMP	CHROMXPERT
MR 100 R, MR 100 Z	K012, K013	0001 - 9999		F10620222	
MR 110 R EVO, MR 110 Z EVO	K016, K017	0001 - 9999	2268297	2219822	2366419
MR 110 Z EVO 2, MR 110 Zi EVO 2	K018, K019	0001 - 9999	2268297	2219822	2366419
MR 122 Z	K062	0001 - 9999			
MR 130 R, MR 130 R EVO	K023	0001 - 0199	2191368	F10411951	F20006171
		0200 - 9999	2196048	2200201	2366511
MR 130 Z, MR 130 Z EVO	K024	0001 - 0299	2191368	F10411951	F20006171
		0300 - 9999	2196048	2200201	2366511
MR 130 Z EVO 2, MR 130 Zi EVO 2	K077, K078	0001 - 9999	2196048	2200201	2366511
MR 150 Z	K063	0001 - 9999			



**MOBIREX:
MOBILE IMPACT CRUSHERS
FOR OPTIMUM CRUSHING
PERFORMANCE**



SERVICE PACKAGES FOR IMPACT PLATES

To protect the bottom impact toggle against premature wear and to further increase the service life, high-strength wear plates - which can be replaced individually - are fitted in the bottom part of the impact toggle, which is highly stressable.

The service package contains both the impact plates that you need as well as all the fastening material.



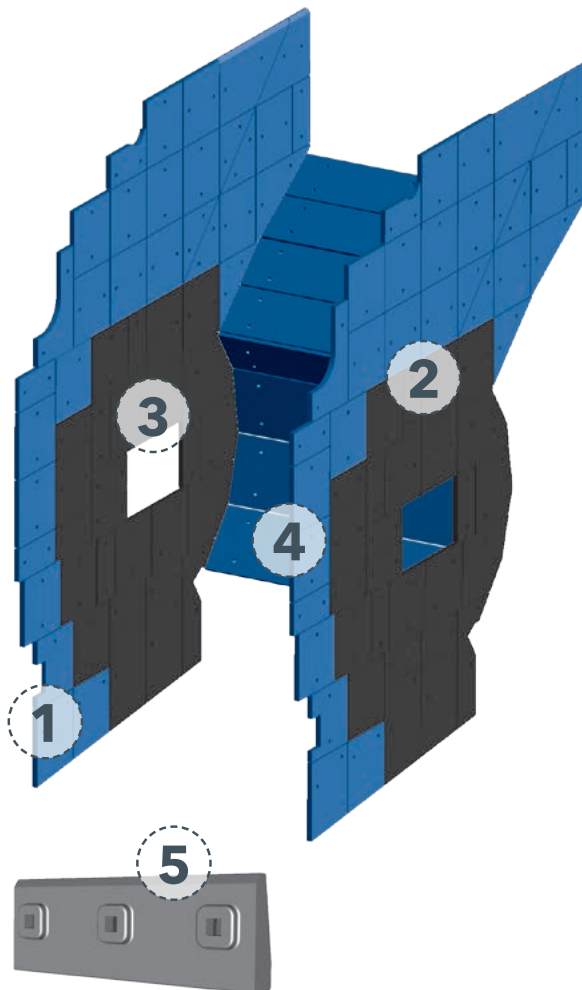
- 1** All wear plates from the main wear zone with mounting hardware are included in the service package for easy exchange.

- 2** Thick-walled KLEEMANN Resistant Steel wear plates protect the housing.

- 3** The wear plates are for the most part interchangeable, greatly reducing the spare parts stock.

- 4** The mounting hardware includes all necessary screws for a secure fit.

- 5** Example of a manganese cast impact plate, which is individually replaceable depending on the machine and requirement.





Machine type	Model	Series range	Manganese impact plate set	Martensitic impact plate set
			Part No.	Part No.
MR 110 R EVO, MR 110 Z EVO	K016, K017	0002 - 9999	2274596	2277483
MR 110 Z EVO 2, MR 110 Zi EVO 2	K018, K019	0001 - 9999	2274596	2277483
MR 122 Z	K062	0001 - 9999	2274599	2535411
MR 130 R, MR 130 R EVO	K023	0001 - 0199	2274600	2277481
		0200 - 9999	2274601	2277486
MR 130 Z, MR 130 Z EVO	K024	0001 - 0299	2274600	2277481
		0301 - 9999	2274601	2277486
MR 130 Z EVO 2, MR 130 Zi EVO 2	K077, K078	0001 - 9999	2274601	2277486

ORIGINAL KLEEMANN SERVICE PACKAGES WEAR PLATES FOR CRUSHER HOUSINGS

KRS (KLEEMANN Resistant Steel)

To protect the expensive crusher housing against damage, it is completely lined with special wear-resistant plates. The wear load may vary significantly within the housing. Increased wear is to be expected in the zone shown in red and orange, in the area of direct impacts from the rotor.

To reduce retooling times and costs due to wear, KLEEMANN offers KRS solutions with a hardness of 400 to over 700 HV especially for this segment.



- 1** *A variety of versions for the main wear zone ensures easy changing.*
- 2** *The thick-walled KRS metal sheets in various hardnesses (KRS-COMP and KRS-XPRT) protect the housing.*
- 3** *Composite plates (KRS-XTRA) with a highly wear-resistant coating ensure maximum wear protection.*
- 4** *The wear plates are for the most part interchangeable, greatly reducing the spare parts stock.*
- 5** *The threaded borehole enables easy assembly.*



Dark red: very high wear, light red: high wear, orange: medium wear, grey: low wear



Machine type	Model	Series range	Wear plates KRS		
			Designation	Shape (exemplary)	Part No.
MR 110 R EVO, MR 110 Z EVO	K016, K017	0002 - 9999	KRS-COMP		F20009533
					F20009534
					F20009535
			KRS-XPERT		2389211
					2389216
					2462226
			KRS-XTRA		2234056
					2234057
					2245882
MR 110 Z EVO 2, MR 110 Zi EVO 2	K018, K019	0001 - 9999	KRS-COMP		F20009533
					F20009534
					F20009535
			KRS-XPERT		2389211
					2389216
					2462226
			KRS-XTRA		2234056
					2234057
					2245882
MR 130 R EVO	K023	0200 - 9999	KRS-COMP		F20009533
					F20009534
					F20009535
			KRS-XPERT		2389211
					2389216
					2462226
			KRS-XTRA		2234056
					2234057
					2245882
MR 130 Z EVO	K024	0301 - 9999	KRS-COMP		F20009533
					F20009534
					F20009535
			KRS-XPERT		2389211
					2389216
					2462226
			KRS-XTRA		2234056
					2234057
					2245882
MR 130 Z EVO 2, MR 130 Zi EVO 2	K077, K078	0001 - 9999	KRS-COMP		F20009533
					F20009534
					F20009535
			KRS-XPERT		2389211
					2389216
					2462226
			KRS-XTRA		2234056
					2234057
					2245882



ORIGINAL KLEEMANN

RUBBER CURTAIN ELEMENTS AND CHAINS FOR THE CRUSHER INLET

On an open crusher housing, material and dust would escape. To prevent this, the crusher inlet is lined with a wear-resistant chain and a fibre-reinforced rubber curtain.

They are attached to the crusher inlet cover. This front part of the crusher inlet cover is made of special cast iron to allow mobility.

The parts are subject to natural wear and tear and should be regularly checked and renewed to protect against material flying out.



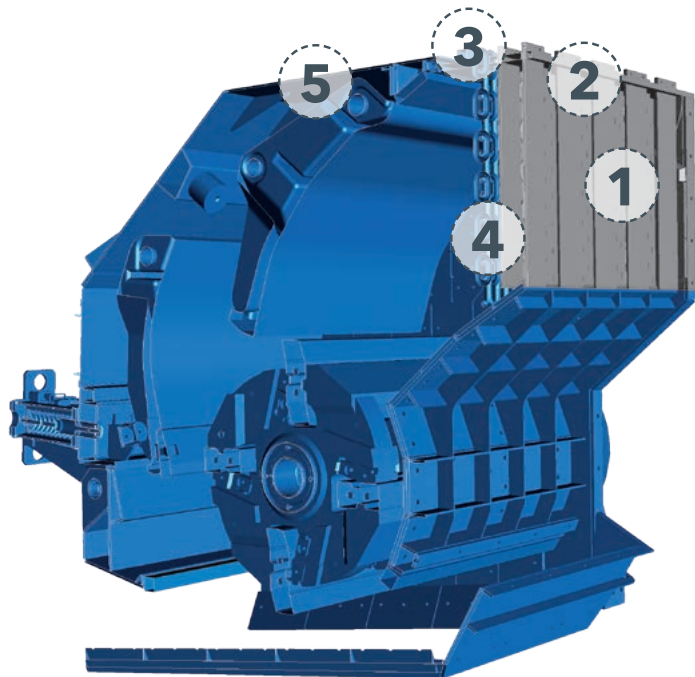
1 *The labyrinth rubber curtain and the chain curtain prevent the unintentional discharge of crushed material.*

2 *The rubber elements can be individually replaced easily and quickly.*

3 *All components are bolted from the outside to avoid premature wear.*

4 *The crusher inlet angle ensures optimal material supply.*

5 *The front of the crusher inlet cover is raised hydraulically by remote control and can be replaced easily.*





Machine type	Model	Series range	Rubber curtain element		Chain	
			Quantity	Part No.	Quantity	Part No.
MR 100 R, MR 100 Z	K012, K013	0001 - 9999	9	F10579704	18	F10331504
MR 110 R EVO, MR 110 Z EVO	K016, K017	0002 - 9999	10	F10473414	18	F10473404
MR 110 Z EVO 2, MR 110 Zi EVO 2	K018, K019	0001 - 9999	10	F10473414	18	F10473404
MR 122 Z	K062	0001 - 9999	14	F10503364	20	F20002132
					16	F20000489
MR 130 R, MR 130 R EVO	K023	0001 - 0199	14	F10473414	21	F10473404
		0200 - 9999	13	F20011339	21	F20002132
MR 130 Z, MR 130 Z EVO	K024	0001 - 0299	14	F10473414	21	F10473404
		0301 - 9999	13	F20011339	21	F20002132
MR 130 Z EVO 2, MR 130 Zi EVO 2	K077, K078	0001 - 9999	13	F20011339	21	F20002132
MR 150 Z	K063	0001 - 9999	1	F10365633	24	F10253714
					20	F10265244



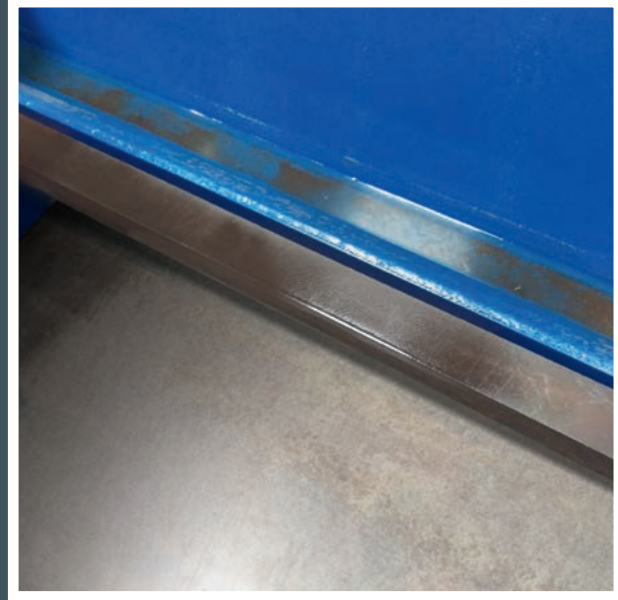
> Chains and rubber curtain in use in the MR 130 R EVO impact crusher



ORIGINAL KLEEMANN IMPACT BARS

The impact bar dampens the impact of the crushed material onto the conveyor belt and the chute. It is subject to extreme stress.

KLEEMANN therefore only uses impact bars made of extremely wear-resistant material (KLEEMANN Resistant Steel). The precise shape of the connection ensures a quick replacement during assembly.



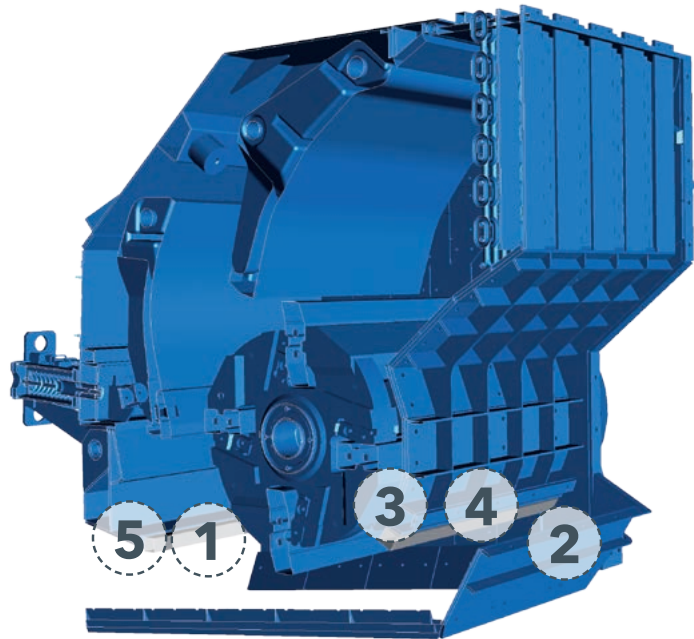
1 *Impact bars at the front catch the crushed material.*

2 *Rear impact bar dampens the impact on the conveyor belt and chute.*

3 *The precise shape of the connection provides for a quick and easy change during assembly.*

4 *The material of the impact bar is particularly wear-resistant to withstand extreme stress.*

5 *The front impact bar ensures complete protection of the crusher housing.*





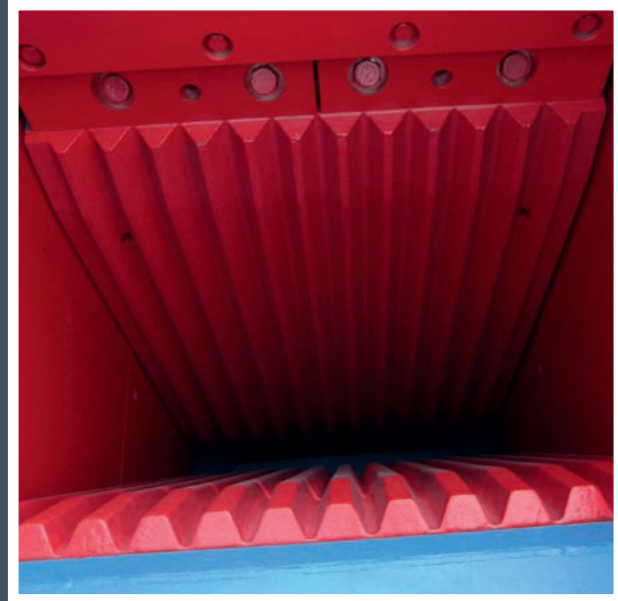
Machine type	Model	Series range	Rear impact bar	Front impact bar
			Part No.	Part No.
MR 100 R, MR 100 Z	K012, K013	0001 - 9999	F10293604	F10293614
MR 110 R EVO, MR 110 Z EVO	K016, K017	0002 - 9999	F20010151	F20010151
MR 110 Z EVO 2, MR 110 Z EVO 2	K018, K019	0001 - 9999	F20010151	F20010151
MR 122 Z	K062	0001 - 9999	F10501494	F10501494
MR 130 R, MR 130 R EVO	K023	0001 - 9999	F10534824	F10534824
MR 130 Z, MR 130 Z EVO	K024	0001 - 9999	F10534824	F10534824
MR 130 Z EVO 2, MR 130 Zi EVO 2	K077, K078	0001 - 9999	F10534824	F10534824
MR 150 Z	K063	0001 - 9999	F10365564	F10365564

ORIGINAL KLEEMANN CHEEK PLATES

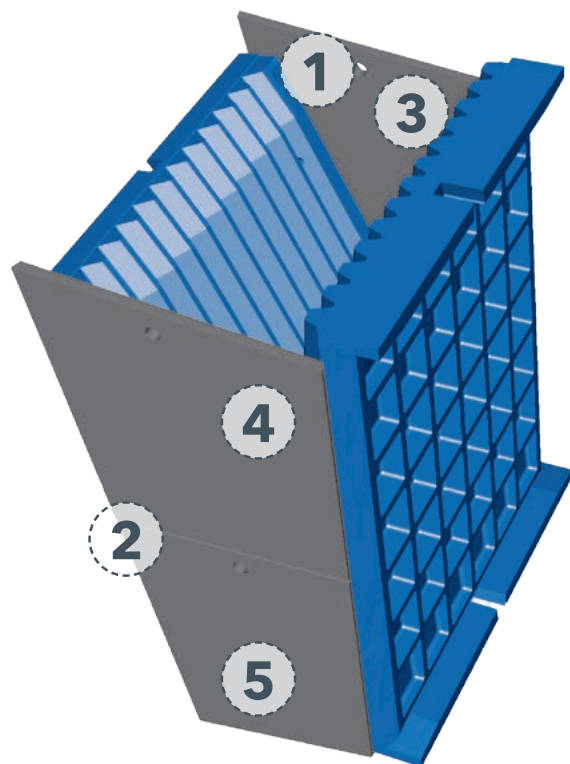
The cheek plates are located to the right and left of the crusher jaws. They are made of highly wear-resistant steel to protect the crusher housing.

Depending on the type of machine the cheek plates can be replaced one-part or two-part.

Designed for ease of use, the cheek plates can be assembled without screws, saving valuable dismantling and fitting time.



- 1** *The cheek plates are made of high-quality steel (KLEEMANN Resistant Steel) to minimise wear as much as possible.*
- 2** *For ease of assembly and depending on the type of machine, the cheek plates are in two parts.*
- 3** *The practical design of the cheek plates allows quick installation without screws.*
- 4** *The cheek plates protect the entire crusher housing.*
- 5** *Cheek plates together with crusher jaws form an optimum crushing chamber for material crushing.*





Machine type	Model	Series range	KRS-COMP cheek plate left		KRS-COMP cheek plate right	
			top	bottom	top	bottom
			Part No.	Part No.	Part No.	Part No.
MC 100 R	K001	0001 - 9999	F10350993 (one-piece)		F10350983 (one-piece)	
MC 100 R EVO, MC 100 Ri EVO	K002, K011	0001 - 9999	2282528		2282528	
MC 110 R, MC 110 Z	K003, K004	0001 - 9999	F10377273	F10377293	F10377263	F10377283
MC 110 R EVO, MC 110 Z EVO, MC 110 Ri EVO, MC 110 Zi EVO	K005, K006, K014, K015	0001 - 9999	2242112	2242120	2242111	2242115
MC 120 Z	K007	0001 - 9999	F20002093	F20002094	F20002091	F20002092
MC 125 Z	K008	0005 - 9999	F10109101	F10109111	F10109101	F10109111

Machine type	Model	Series range	KRS-XPERT cheek plate left		KRS-XPERT cheek plate right	
			top	bottom	top	bottom
			Part No.	Part No.	Part No.	Part No.
MC 100 R	K001	0001 - 9999	2314602		2314596	
MC 100 R EVO, MC 100 Ri EVO	K002, K011	0001 - 9999	2383215		2383215	
MC 110 R, MC 110 Z	K003, K004	0001 - 9999	2243829	2243840	2243817	2243821
MC 110 R EVO, MC 110 Z EVO, MC 110 Ri EVO, MC 110 Zi EVO	K005, K006, K014, K015	0001 - 9999	2355333	2355337	2355332	2355334
MC 120 Z	K007	0001 - 9999	2314575	2314587	2314582	2314590
MC 125 Z	K008	0005 - 9999	2369899	2369903	2369899	2369903

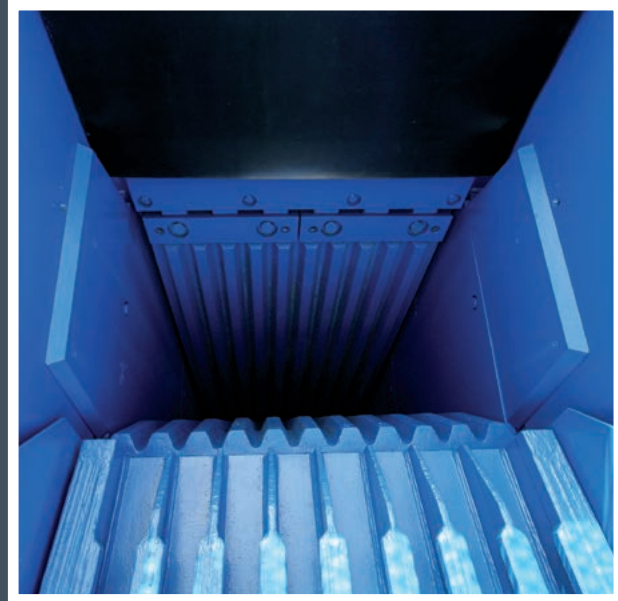
Machine type	Model	Series range	KRS-XTRA cheek plate left		KRS-XTRA cheek plate right	
			top	bottom	top	bottom
			Part No.	Part No.	Part No.	Part No.
MC 100 R	K001	0001 - 9999				
MC 100 R EVO, MC 100 Ri EVO	K002, K011	0001 - 9999	2462899		2462899	
MC 110 R, MC 110 Z	K003, K004	0001 - 9999				
MC 110 R EVO, MC 110 Z EVO, MC 110 Ri EVO, MC 110 Zi EVO	K005, K006, K014, K015	0001 - 9999	2462971	2462960	2463084	2463069
MC 120 Z	K007	0001 - 9999				
MC 125 Z	K008	0005 - 9999				



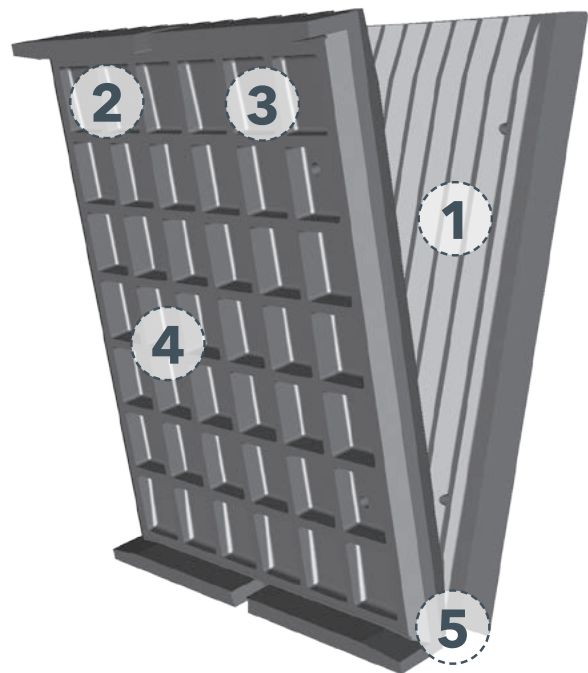
ORIGINAL KLEEMANN CRUSHER JAWS

A good crushing result with low wear costs is significantly influenced by the choice of the right crushing tools. The quality of the steel has a significant influence on the service life.

The crusher jaws are made of special manganese steel with high manganese content. The wear resistance results from strain hardening. During high impact or compression stress, the hardness of the surface increases up to 700 HV, while the base material remains resilient. For wear parts with a high wear resistance and quality, the raw material used and the entire moulding process are critical.



- 1** *Special manganese steel* ensures long service life.
- 2** *The honeycomb design* reduces the weight and increases the stiffness.
- 3** *The flat-ground rear wall* saves costly removal and fitting time due to the good fit and provides long service lives.
- 4** *Due to the exact support*, damage to the crusher is prevented and the risk of fracture due to the poor distribution of the crushing forces reduced.
- 5** *The symmetrical shape* increases the utilisation factor as it can be turned once.





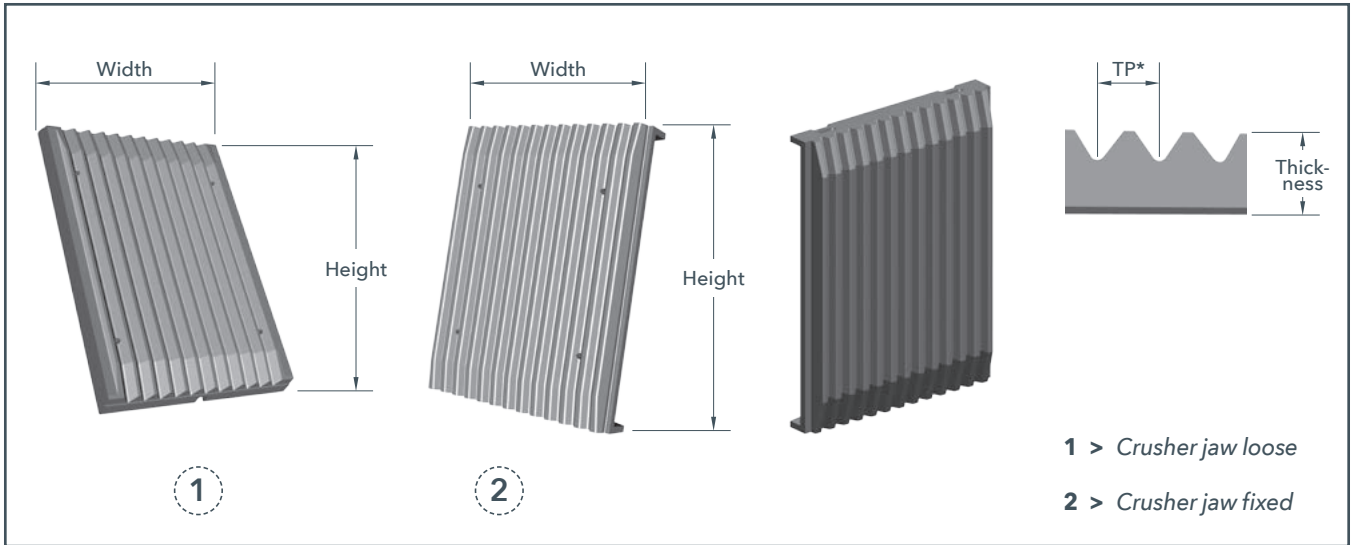
For best results you need the right crushing tools. Below is a description of the main crusher jaw tooth profiles and their primary uses.

Tooth shape	End product size	Feed material				
		Hard rock	Soft and medium hard rock	Gravel	Building rubble / recycling	Plate-like, medium hard rocks
RT (regular-teeth)	> 60 mm	●	● ●	● ●	● ●	● ●
FT (flat-teeth)	> 60 mm	● ●	●	●	●	
ST (sharp-teeth)	< 60 mm		●	● ●	●	● ●

● ● Highly recommended
 ● Recommended
 Not recommended

Illustration	Tooth shape	Properties
	RT (regular-teeth)	Balanced with respect to lifetime, energy consumption and crushing pressure, suitable for natural stone and gravel.
	FT (flat-teeth)	Due to the higher wear dimensions, the flat teeth are especially powerful in abrasive material. The result is a higher pressure load and thus higher energy consumption.
	ST (sharp-teeth)	The pointed teeth reduce the plate-like share in the crushed material. Recommended for small gap widths (< 60 mm).

ORIGINAL KLEEMANN CRUSHER JAWS



Machine type	Model	Series range	Tooth shape for fixed crusher jaw								
			RT (regular-teeth)			FT (flat-teeth)			ST (sharp-teeth)		
			Design.	TP*	Part No.	Design.	TP*	Part No.	Design.	TP*	Part No.
MC 100 R	K001	0001 - 9999	RT-XPERT	85	2419030						
MC 100 R EVO, MC 100 Ri EVO	K002, K011	0001 - 9999	RT-XPERT	85	2419243				ST-XPERT	37	2337542
MC 110 R, MC 110 Z	K003, K004	0001 - 9999	RT-XPERT	85	2292016						
			RT-XTRA	85	2412228						
MC 110 R EVO, MC 110 Z EVO, MC 110 Ri EVO, MC 110 Zi EVO	K005, K006, K014, K015	0001 - 9999	RT-XPERT	85	2419252	FT-XPERT	120	2305307	ST-XPERT	37	2305306
			RT-XTRA	85	2419253						
MC 120 Z	K007	0001 - 9999	RT-XPERT	110	2292013						
			RT-XTRA	110	2412366						
MC 125 Z	K008	0005 - 9999	RT-XPERT	150	F10156701	FT-XPERT	150	F10399811			

Machine type	Model	Series range	Tooth shape for moving crusher jaw								
			RT (regular-teeth)			FT (flat-teeth)			ST (sharp-teeth)		
			Design.	TP*	Part No.	Design.	TP*	Part No.	Design.	TP*	Part No.
MC 100 R	K001	0001 - 9999	RT-XPERT	85	2418998						
MC 100 R EVO, MC 100 Ri EVO	K002, K011	0001 - 9999	RT-XPERT	85	2419223				ST-XPERT	37	2337527
MC 110 R, MC 110 Z	K003, K004	0001 - 9999	RT-XPERT	85	2292019						
			RT-XTRA	85	2412269						
MC 110 R EVO, MC 110 Z EVO, MC 110 Ri EVO, MC 110 Zi EVO	K005, K006, K014, K015	0001 - 9999	RT-XPERT	85	2419250	FT-XPERT	120	2305311	ST-XPERT	37	2305309
			RT-XTRA	85	2419251						
MC 120 Z	K007	0001 - 9999	RT-XPERT	110	2292007						
			RT-XTRA	110	2412356						
MC 125 Z	K008	0005 - 9999	RT-XPERT	150	F10156711						

* Other tooth pitches (TP) and steel grades are of course available on request.
Please contact the relevant sales and service company.



**MOBICAT MC 110 Z EVO:
THE EFFICIENT
HIGH-PERFORMERS**

ORIGINAL KLEEMANN

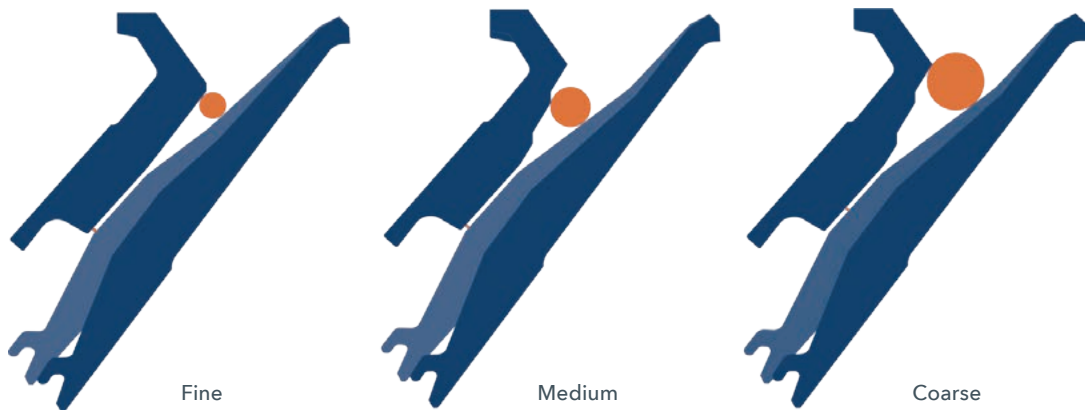
CRUSHING TOOL FOR CONE CRUSHER

The crushing tools must be selected according to the initial material size and the final product, so that the entire wear surface is used and the desired performance is achieved throughout the life. If, for example, wear parts for a coarse crushing chamber are used when crushing fine feed material, the crushing process is focused on only the lower part of the tools, while the upper portion is hardly stressed. This results in a premature change of crushing tools.

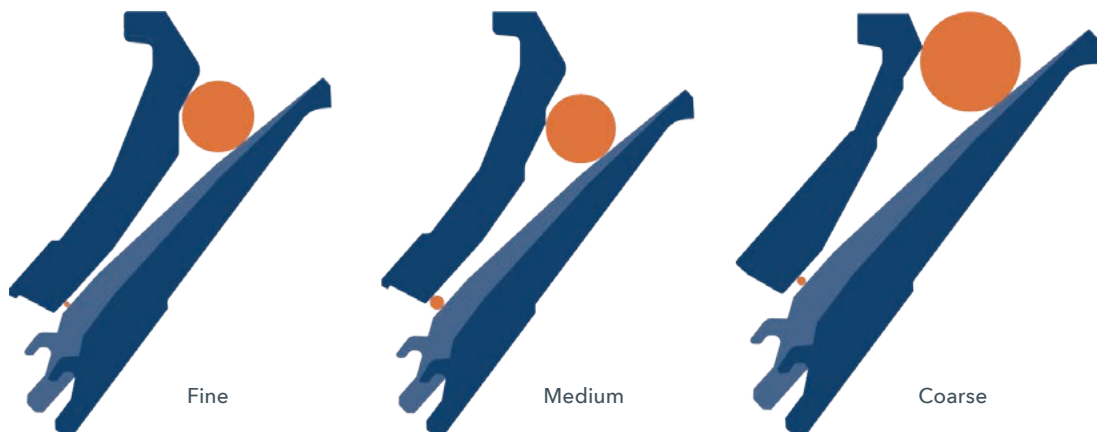
A well-tuned combination ensures a normal wear performance, good utilisation of crushing tools and a good end product.



Version: Standard



Version: Short head





Machine type	Model	Crushing cone and crushing shell		
		Version	Designation	Part No.
MCO 9, MCO 9i, MCO 9 S, MCO 9 Si	K072, K073, K074, K075	Crushing cone standard	Cone S-XPERT	2295672
		Crushing shell standard fine	Shell SF-XPERT	2295652
		Crushing shell standard medium	Shell SM-XPERT	2295649
		Crushing shell standard coarse	Shell SC-XPERT	2295646
		Crushing cone standard	Cone S-XTRA	2450546
		Crushing shell standard fine	Shell SF-XTRA	2450551
		Crushing shell standard medium	Shell SM-XTRA	2450550
		Crushing shell standard coarse	Shell SC-XTRA	2450548
		Crushing cone short head	Cone SH-XPERT	2295676
		Crushing shell short head fine	Shell SHF-XPERT	2369178
		Crushing shell short head medium	Shell SHM-XPERT	2369191
		Crushing shell short head coarse	Shell SHC-XPERT	2369180
MCO 11, MCO 11S, MCO 11SX	K038, K064, K041	Crushing cone standard	Cone S-XPERT	2272901
		Crushing shell standard fine	Shell SF-XPERT	2272891
		Crushing shell standard medium	Shell SM-XPERT	2272893
		Crushing shell standard coarse	Shell SC-XPERT	2272894
		Crushing cone standard	Cone S-XTRA	2359102
		Crushing shell standard fine	Shell SF-XTRA	2359113
		Crushing shell standard medium	Shell SM-XTRA	2359107
		Crushing shell standard coarse	Shell SC-XTRA	2359105
		Crushing shell Short Head	Cone SH-XPERT	2272900
		Crushing shell short head fine	Shell SHF-XPERT	2272889
		Crushing shell short head medium	Shell SHM-XPERT	2272890
		Crushing shell short head coarse	Shell SHC-XPERT	2272897
MCO 13, MCO 13S	K042, K044	Crushing cone standard	Cone S-XPERT	2269083
		Crushing shell standard fine	Shell SF-XPERT	2268977
		Crushing shell standard medium	Shell SM-XPERT	2268979
		Crushing shell standard coarse	Shell SC-XPERT	2268981
		Crushing cone standard	Cone S-XTRA	2359123
		Crushing shell standard fine	Shell SF-XTRA	2359127
		Crushing shell standard medium	Shell SM-XTRA	2359126
		Crushing shell standard coarse	Shell SC-XTRA	2359124
		Crushing shell Short Head	Cone SH-XPERT	2268993
		Crushing shell short head fine	Shell SHF-XPERT	2268967
		Crushing shell short head medium	Shell SHM-XPERT	2268968
		Crushing shell short head coarse	Shell SHC-XPERT	2268971
MCO 11 PRO, MCO 11i PRO	K110, K111	Crushing cone standard	Cone S-XPERT	2461750
		Crushing shell standard fine	Shell SF-XPERT	2487691
		Crushing shell standard medium	Shell SM-XPERT	2462360
		Crushing shell standard coarse	Shell SC-XPERT	2461748
		Crushing cone short head	Cone SH-XPERT	2462298
		Crushing shell short head fine	Shell SHF-XPERT	2487609
		Crushing shell short head medium	Shell SHM-XPERT	2487664
		Crushing shell short head coarse	Shell SHC-XPERT	2462422

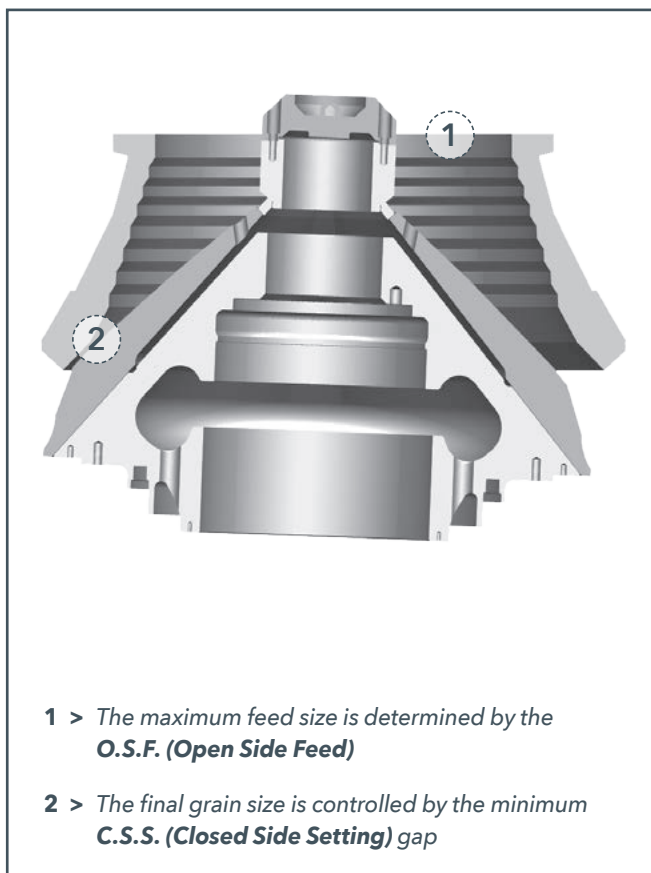
* Breaking tools only for KLEEMANN cone crusher



ORIGINAL KLEEMANN GAP SETTING



The material feed size, the crusher tool used and the right crusher setting play a crucial role in ensuring optimum crushing performance from the cone crusher. This combination of factors ensures a high crushing rate, low wear and maintenance costs, a long service life and high-quality grains.





Machine type	Version	Inlet opening	Gap width opening											
			Closed gap width in mm (C.S.S.)											
			6	8	10	13	16	19	22	25	32	38	45	
MC 9 EVO	Short Head Fine	Maximum feed size in mm (O.S.F.)	66*	68*	71	73	76	80						
	Short Head Medium				99	102	105	108	111					
	Short Head Coarse					130	133	135	139	142				
	Standard Fine						116	119	122	125	131			
	Standard Medium								138	141	144	151	157	
	Standard Coarse										179	186	192	199*
MCO 11 (KX 300), MCO 11 PRO	Short Head Fine	Maximum feed size in mm (O.S.F.)		50*	52	55	58	62						
	Short Head Medium				81	84	87	90	93					
	Short Head Coarse					102	105	108	111	114				
	Standard Fine						131	134	137	140	147			
	Standard Medium								173	173	178	183	190	
	Standard Coarse										220	227	233	240*
MCO 13 (KX400)	Short Head Fine	Maximum feed size in mm (O.S.F.)			62	66	69	73						
	Short Head Medium				74	77	80	84	87					
	Short Head Coarse					119	122	125	129	132				
	Standard Fine						152	155	158	161	169			
	Standard Medium									228	231	238	244	251
	Standard Coarse										320	323	326	329

* Only after consultation and approval by KLEEMANN

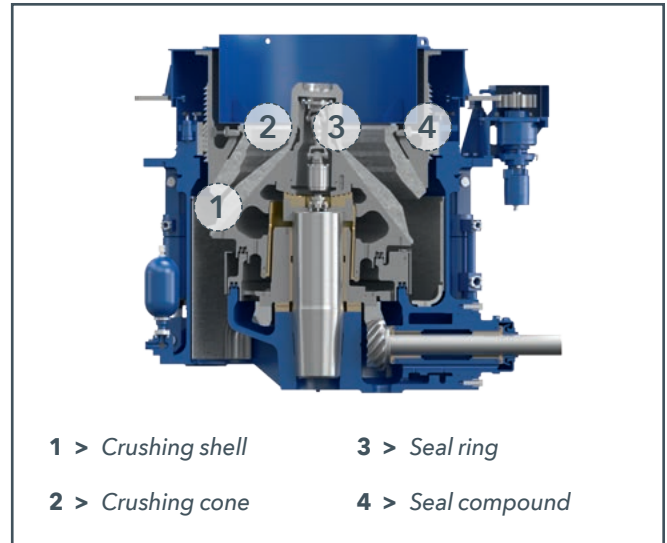


WEAR COMPONENTS FOR CONE CRUSHER

THE COMPLETE SOLUTION FOR CRUSHER TOOL REPLACEMENT

The cone crusher service package is optimally equipped for crusher tool replacement.

The service package contains all components which are required to replace the crushing shell (1), the crushing cone (2), the seal ring (3) made of specially processed steel, the seal compound (4) and the mounting hardware.



- 1 > *Crushing shell*
- 2 > *Crushing cone*
- 3 > *Seal ring*
- 4 > *Seal compound*

Machine type	Model	Series range	Designation/ content of kit	Quantity	Version	Fine	Medium	Coarse
						Part No.	Part No.	Part No.
MCO 9, MCO 9i, MCO 9 S, MCO 9 Si	K072, K073, K074, K075	0001 - 9999	Crushing shell	1	Short Head	2369178	2369191	2369180
			Crushing cone	1		2295676	2295676	2295676
			Seal ring	1		2322420	2322420	2322420
			Wedge locking washer	4		M20000449	M20000449	M20000449
			Cheese-head screw	4		2328490	2328490	2328490
			Cotter	6		M00182958	M00182958	M00182958
			Lubrication grease	1		2342967	2342967	2342967
			Welding protection paste	1		2300574	2300574	2300574
			Flat gasket Anti-Spin	1		2334881	2334881	2334881
			Kit No.			2402524	2402523	2402522
			Crushing shell	1		2295652	2295649	2295646
			Crushing cone	1		2295672	2295672	2295672
			Seal ring	1		2322420	2322420	2322420
			Wedge locking washer	4		M20000449	M20000449	M20000449
			Cheese-head screw	4		2328490	2328490	2328490
			Cotter	6		M00182958	M00182958	M00182958
			Lubrication grease	1		2342967	2342967	2342967
			Welding protection paste	1		2300574	2300574	2300574
			Flat gasket Anti-Spin	1		2334881	2334881	2334881
Kit No.		2402521	2402519	2402518				
MCO 11, MCO 11 S, MCO 11 SX	K038, K064, K041	0001 - 9999	Crushing shell	1	Short Head	2272889	2272890	2272897
			Crushing cone	1		2272900	2272900	2272900
			Seal ring	1		2272888	2272888	2272888
			Spring lock washer	4		M00182005	M00182005	M00182005
			Cheese-head screw	4		2328491	2328491	2328491
			Seal compound	6		M10021732	M10021732	M10021732
			Cotter	6		2246426	2246426	2246426
			Lubrication grease	1		2342967	2342967	2342967
			Welding protection paste	1		2300574	2300574	2300574
			Flat gasket Anti-Spin	1		2334881	2334881	2334881
			Kit No.			2402538	2402537	2402536
			Crushing shell	1		2272901	2272901	2272901
			Crushing cone	1		2272891	2272893	2272894
			Seal ring	1	2272888	2272888	2272888	
			Spring lock washer	4	M00182005	M00182005	M00182005	
			Cheese-head screw	4	2328491	2328491	2328491	
			Seal compound	6	M10021732	M10021732	M10021732	
			Cotter	6	2246426	2246426	2246426	
			Lubrication grease	1	2342967	2342967	2342967	
			Welding protection paste	1	2300574	2300574	2300574	
			Flat gasket Anti-Spin	1	2334881	2334881	2334881	
			Kit No.		2402535	2402534	2402532	



Machine type	Model	Series range	Designation/ content of kit	Quantity	Version	Fine	Medium	Coarse
						Part No.	Part No.	Part No.
MCO 13, MCO 13 S	K042, K044	0001 - 9999	Crushing shell	1	Short Head	2268967	2268968	2268971
			Crushing cone	1		2268993	2268993	2268993
			Seal ring	1		2269095	2269095	2269095
			Spring lock washer	4		M00182007	M00182007	M00182007
			Cheese-head screw	4		2328492	2328492	2328492
			Seal compound	8		M10021732	M10021732	M10021732
			Cotter	6		2330762	2330762	2330762
			Lubrication grease	1		2342967	2342967	2342967
			Welding protection paste	1		2300574	2300574	2300574
			Flat gasket Anti-Spin	1		2334881	2334881	2334881
			Kit No.		2402582	2402581	2402580	
			Crushing shell	1	Standard	2268977	2268979	2268981
			Crushing cone	1		2269083	2269083	2269083
			Seal ring	1		2269095	2269095	2269095
			Spring lock washer	4		M00182007	M00182007	M00182007
			Cheese-head screw	4		2328492	2328492	2328492
			Seal compound	8		M10021732	M10021732	M10021732
			Cotter	6		2330762	2330762	2330762
			Lubrication grease	1		2342967	2342967	2342967
			Welding protection paste	1		2300574	2300574	2300574
Flat gasket Anti-Spin	1	2334881	2334881	2334881				
Kit No.		2402579	2402577	2402576				
MCO 11 PRO	K110	0001 - 9999	Crushing shell	1	Short Head	2487609	2487664	2462422
			Crushing cone	1		2462298	2462298	2462298
			Seal ring	1		2493405	2493405	2493405
			Wedge locking washer	1		M10010061	M10010061	M10010061
			Cheese-head screw	1		M00171727	M00171727	M00171727
			Cheese-head screw	6		M10010044	M10010044	M10010044
			Cone nut	6		2475142	2475142	2475142
			Cotter	6		M00182960	M00182960	M00182960
			Lubrication grease	1		2342967	2342967	2342967
			Welding protection paste	1		2300574	2300574	2300574
			Kit No.		2531640	2531639	2531637	
			Crushing shell	1	Standard	2487691	2462360	2461748
			Crushing cone	1		2461750	2461750	2461750
			Seal ring	1		2493405	2493405	2493405
			Wedge locking washer	1		M10010061	M10010061	M10010061
			Cheese-head screw	1		M00171727	M00171727	M00171727
			Cheese-head screw	6		M10010044	M10010044	M10010044
			Cone nut	6		2475142	2475142	2475142
			Cotter	6		M00182960	M00182960	M00182960
			Lubrication grease	1		2342967	2342967	2342967
Welding protection paste	1	2300574	2300574	2300574				
Kit No.		2531636	2531635	2531630				

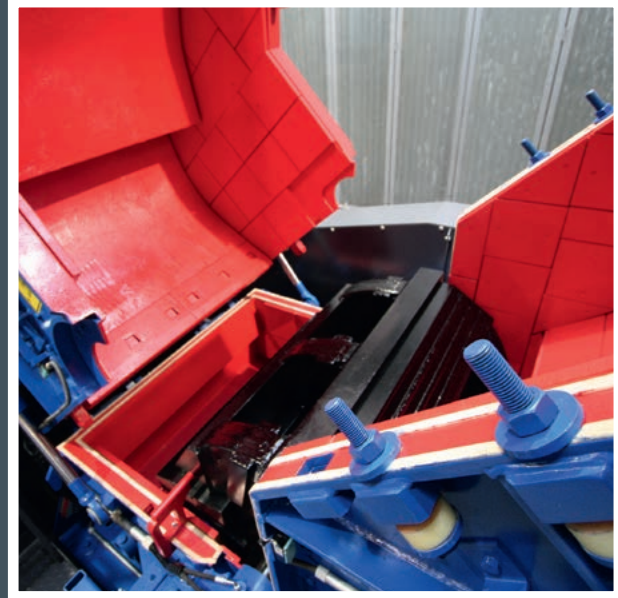


IMPACT TOGGLES IN MONOBLOCK DESIGN

After the crushed material was collected by the blow bars, it is greatly accelerated and thrown onto the impact tools.

Impact toggles are exposed to a constant load in operation. Along with factors such as the feed material, rotor speed and gap setting, above all the correct choice of materials plays a major role in the wear.

KLEEMANN uses only high manganese steels with excellent strain hardening on the impact toggles for high resistance to wear.



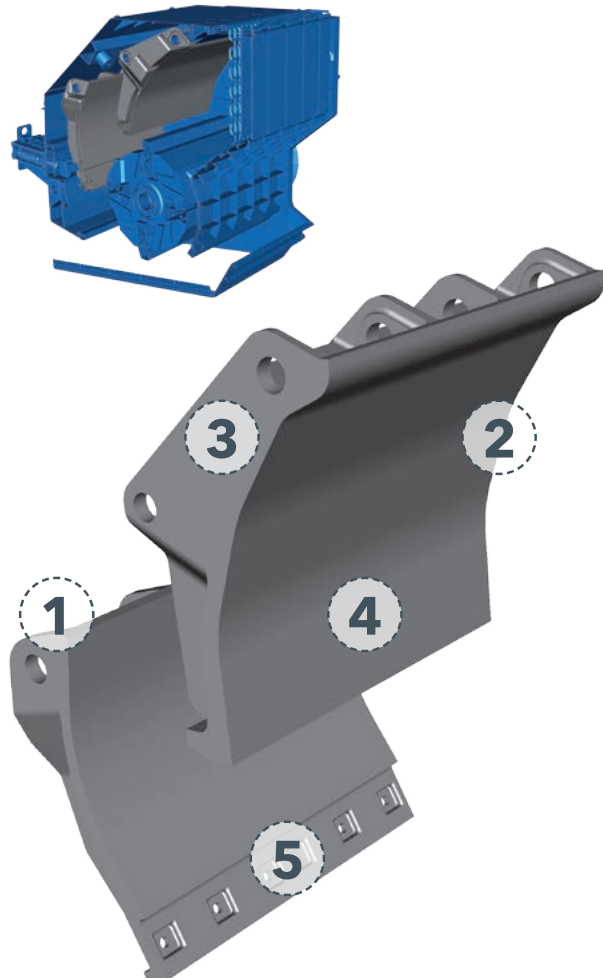
1 A shaft mounting checked for correct alignment eases fitting on the construction site.

2 The thick-walled wear coat reduces downtimes.

3 Forms adjusted to the rotor and inlet area ensure optimum crushing results even during advanced wear.

4 Special manganese steel castings with very high strain hardening increase the wear resistance, parallel to that the tough core minimises the risk of breakage.

5 Special pockets for retaining cams ensure the impact plates are retained the best way.





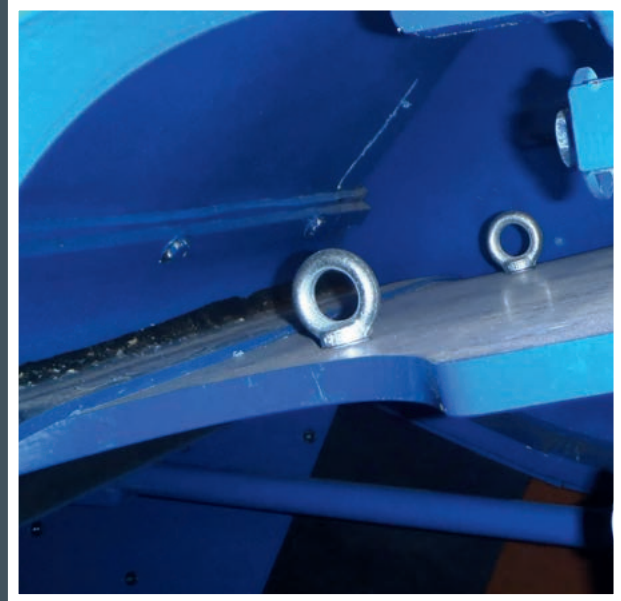
Machine type	Model	Series range	Impact toggle top	Impact toggle bottom
			Part No.	Part No.
MR 100 R, MR 100 Z	K012, K013	0001 - 9999	F10322171	F10322161
MR 110 R EVO, MR 110 Z EVO	K016, K017	0002 - 9999	F20009826	F20009852
MR 110 Z EVO, MR 110 Zi EVO 2	K018, K019	0001 - 9999	F20009826	F20009852
MR 122 Z	K062	0001 - 9999	F10501501	F10501511
MR 130 R, MR 130 R EVO	K023	0001 - 0199	F10329091	F10483791
		0200 - 9999	F20011752	F20011758
MR 130 Z, MR 130 Z EVO	K024	0001 - 0299	F10329091	F10483791
		0301 - 9999	F20011752	F20011758
MR 130 Z EVO 2, MR 130 Z EVO 2	K077, K078	0001 - 9999	F20011752	F20011758

ORIGINAL KLEEMANN BEARING BLOCKS

Crusher overload protection

The bearing block is used to protect the crusher against materials that cannot be processed, e.g. pieces of steel. If an overload occurs, the bearing block protects the crusher against damage and expensive consequential loss.

Thanks to their special geometry and their manufacture from special steel, the original KLEEMANN bearing blocks are optimally designed for the forces in the crusher.



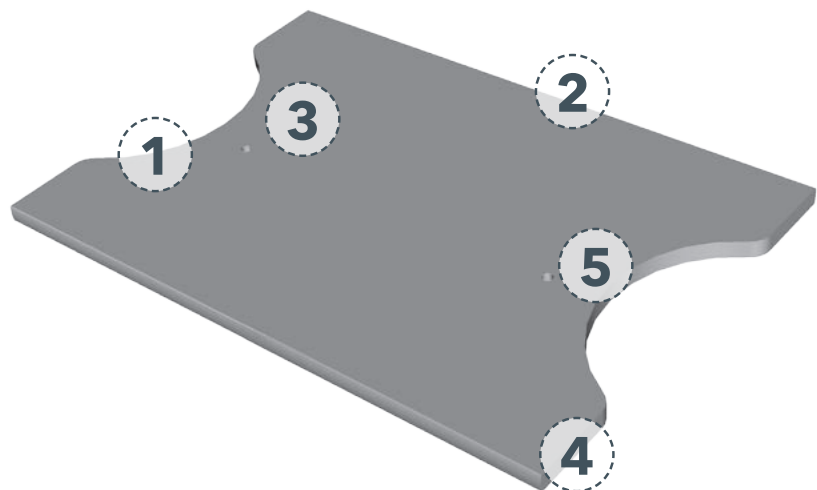
1 *Through special geometries (lateral recesses) of the pressure plate a crusher overload is prevented.*

2 *The special steel (KLEEMANN Resistant Steel) is particularly resistant to wear.*

3 *The designated fixtures allow an easy installation.*

4 *Radii are precisely matched to the pressure plate bearing.*

5 *Defined breaking points prevent damage to the toggle and bearing.*





Machine type	Model	Series range	Bearing block
			Part No.
MC 100 R	K001	0001 - 9999	F10351413
MC 100 R EVO, MC 100 Ri EVO	K002, K011	0001 - 9999	2285728
MC 110 R, MC 110 Z	K003, K004	0001 - 9999	F10377373
MC 110 R EVO, MC 110 Z EVO, MC 110 Ri EVO, MC 110 Zi EVO	K005, K006, K014, K015	0001 - 9999	2426262
MC 120 Z	K007	0001 - 9999	2235531
MC 125 Z	K008	0005 - 9999	F10264034



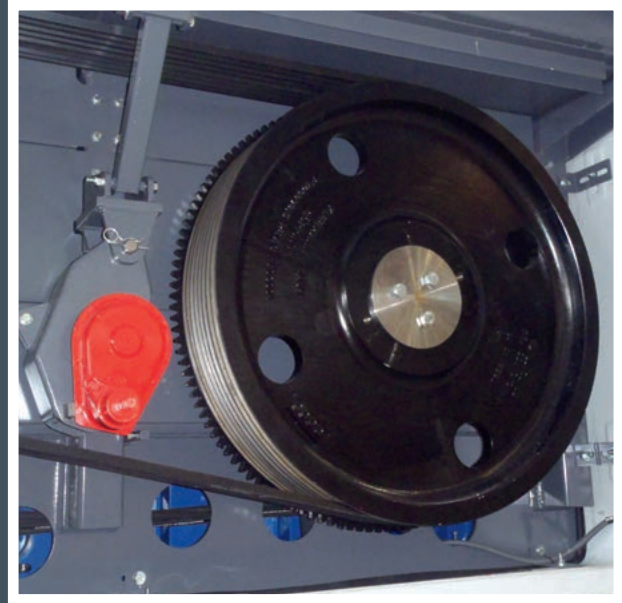
ORIGINAL KLEEMANN POWER BELTS

Optimal power transmission

The high-performance narrow V-belts are specially designed for large drives subject to heavy loads.

The low-elongation material has a high tensile strength and also provides extremely high abrasion and wear resistance.

Contrary to popular V-belts, the high-performance belt has a tapered shape, which causes an increased profile. Thus, it also meets the high demands of the crusher drive and runs pretty quiet.



1 *Power belts with high performance ensure ideal crusher drive.*

2 *Made of low stretch material, the belt is extremely abrasion- and wear-resistant.*

3 *The profile increases the power transmission of the belt and extends the service life.*

4 *The interplay of material and profile properties optimises the quiet running characteristics.*

5 *The cover fabric used is extremely drive-resistant.*





Machine type	Model	Series range	Narrow V-belt	
			Quantity	Part No.
MC 100 R	K001	0001 - 9999	8	M00211423
MC 100 R EVO	K002	0002 - 9999	8	2337123
MC 100 Ri EVO	K011	0001 - 9999	8	2337123
MC 110 R, MC 110 Z	K003, K004	0001 - 9999	10	M00211423
MC 110 R EVO, MC 110 Z EVO	K005, K006	0001 - 9999	10	2290313
MC 120 Z	K007	0001 - 9999	10	M10002720
MC 125 Z	K008	0005 - 9999	10	M00211050
MR 100 Z	K013	0001 - 9999	6	M10015185
MR 110 R EVO, MR 110 Z EVO	K016, K017	0002 - 9999	8	2227289
MR 110 Z EVO 2, MR 110 Zi EVO 2	K018, K019	0001 - 9999	1 Set (8 pcs)	2404710
MR 122 Z	K062	0001 - 9999	10	M10001690
MR 130 R, MR 130 R EVO	K023	0001 - 0199	10	M00211032
		0200 - 9999	10	M00211041
MR 130 Z, MR 130 Z EVO	K024	0001 - 0299	10	M00211032
		0301 - 9999	10	M00211041
MR 130 Z EVO 2, MR 130 Zi EVO 2	K077, K078	0001 - 9999	1 Set (10 pcs)	2404713

ORIGINAL KLEEMANN CONVEYOR BELTS

The crushing performance is determined among other things by the conveying capacity of the individual conveyor belts of the KLEEMANN systems.

For many years, KLEEMANN has used three- or multiply conveyor belts, which meet all requirements in quarries and gravel pits. For the conveyor belt to be operated without interruption, it must be closed indefinitely.

Here, KLEEMANN offers two alternatives:

- > Produced as endless belts.
- > Open, that means the connection is provided on site during the installation of the belt.



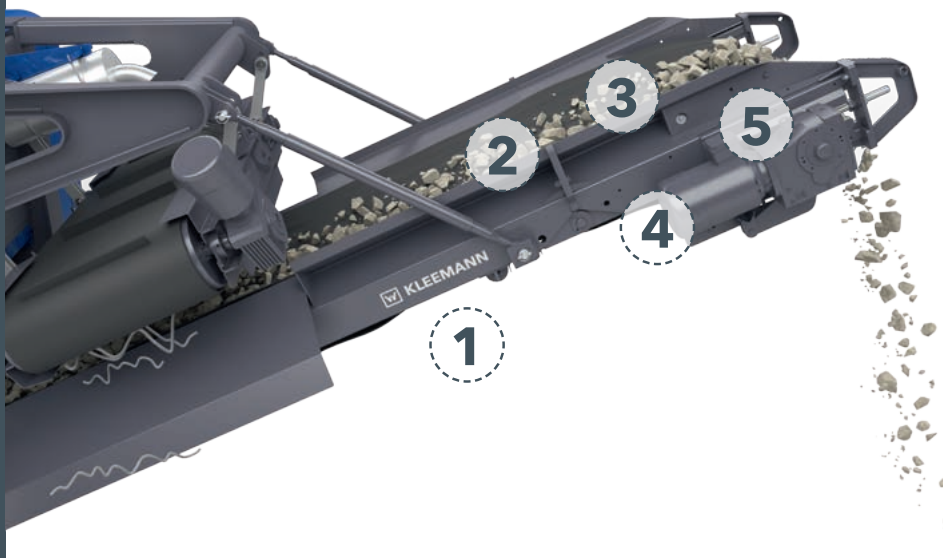
1 *KLEEMANN has the ideal conveyor belt for every application.*

2 *High-quality chevron and high chevron belts increase conveyor output to the maximum possible level.*

3 *Chevron and high chevron belts are fitted with solid rubber edges for optimum material transport.*

4 *The use of multiply conveyor belts with extreme abrasion-resistant covers guarantees a long service life, especially with sharp-edged and extremely abrasive material.*

5 *The elastic rubber intermediate layers dampen the impacts caused by the various types of crushed material.*





Machine type	Model	Series range	Conveyor	Belt length (in mm)	Belt width (in mm)	Conveyor	
						closed	open
						Part No.	Part No.
MC 100 R	K001	0001 - 9999	Crusher discharge belt	21300	1100	F20018220	2252960
				23200	1100	F20018394	2252961
			Lateral discharge belt	9000	500	F20017275	2252962
			Permanent magnet separator	4715	750		2212014
MC 100 R EVO, MC 100 Ri EVO	K002, K011	0001 - 9999	Crusher discharge belt	18300	800	2276328	
				21400	800	2345668	
			Lateral discharge belt	10750	500	2262332	2346890
				6150	500	2226095	
			Electromagnetic separator				2323184
Permanent magnet separator				M10019176			
MC 110 R, MC 110 Z	K003, K004	0001 - 9999	Crusher discharge belt	20400	1200	F20016923	2252890
				22000	1200	F20017438	2252897
			Fine-grained conveyor (secondary screen unit)	11600	1200	F20017395	2252898
			Lateral discharge belt	12900	650	F20009762	2252545
				8900	650	F20011025	2252553
			Electromagnetic separator	5710	800	M20000485	
Permanent magnet separator	5315	750	M10015357				
MC 110 R EVO, MC 110 Z EVO, MC 110 Ri EVO, MC 110 Zi EVO	K005, K006, K014, K015	0001 - 9999	Crusher discharge belt	19400	1000	2256551	2346901
				22400	1000	2269126	2346903
			Lateral discharge belt	6150	500	2226095	2346889
				10750	500	2262332	2346890
MC 120 Z	K007	0053 - 9999	Crusher discharge belt	21000	1400	F20014924	2252938
				24000	1400	F20018504	2252939
			Lateral discharge belt	13000	650	F20015453	2252942
			Electromagnetic separator	5910	1000	2203936	
			Permanent magnet separator	4715	750		2212014
MC 125 Z	K008	0005 - 9999	Crusher discharge belt	20960	1200	2201415	2252963
				25300	1200	F20019182	2252964
			Lateral discharge belt	17000	1000	F20019180	2252965
			Permanent magnet separator	5315	750		M10015357
MCO 9, MCO 9i	K072, K073	0001 - 9999	Crusher discharge belt	18600	800	2307107	2307107
				21800	800	2336946	
			Lateral discharge belt	12900	650	F20009762	2252545
MCO 9 S, MCO 9 Si	K074, K075	0001 - 9999	Crusher discharge belt	19600	800	2339948	
			Fine-grained conveyor	14500	1000	2322377	
			Return conveyor	20800	500	2305085	2377877
			Transfer conveyor	3800	500	F20014794	2252542
MCO 11 PRO	K110	0001 - 9999	Feed conveyor	15900	1200	2435251	
			Crusher discharge belt	22400	1000	2343611	2410888



ORIGINAL KLEEMANN CONVEYOR BELTS

Machine type	Model	Series range	Conveyor	Belt length (in mm)	Belt width (in mm)	Conveyor	
						closed	open
						Part No.	Part No.
MR 110 R EVO, MR 110 Z EVO	K016, K017	0002 - 9999	Crusher discharge belt	19700	1200	F20012192	2252210
			Fine-grained conveyor (secondary screen unit)	14600	1200	F20012551	2252213
				16600	1200	2224803	2252555
			Return conveyor	17800	500	2223573	2252529
			Transfer conveyor	3800	500	F20014794	2252542
			Lateral discharge belt	8900	650	F20011025	2252553
				12900	650	F20009762	2252545
			Electromagnetic separator	5710	800	M20000485	
Permanent magnet separator	4715	750	2212014				
MR 110 Z EVO 2, MR 110 Zi EVO 2	K018, K019	0001 - 9999	Crusher discharge belt	19600	1200	2358281	
			Fine-grained conveyor (secondary screen unit)	14500	1000	2322377	
				19000	500	2336219	
			Transfer conveyor	3800	500	F20014794	2252542
			Lateral discharge belt	8900	650	F20011025	2252553
				12900	650	F20009762	2252545
			Electromagnetic separator	5110	1000	2361793	
			Permanent magnet separator	5330	750	M10015357	
MR 122 Z	K062	0066 - 9999	Crusher discharge belt	21000	1400	F20014924	2252938
				24000	1400	F20018504	2252939
			Lateral discharge belt	12900	650	F20009762	2252545
			Electromagnetic separator	5910	1000	2203936	
MR 130 R EVO, MR 130 Z EVO	K023, K024	0200 - 9999, 0301 - 9999	Crusher discharge belt	20500	1400	F20011462	2252560
				23100	1400	F20014740	2252562
			Fine-grained conveyor (secondary screen unit)	15300	1400	F20011977	2252576
				17300	1400	F20014597	2252602
			Return conveyor	18800	500	2223564	2252582
			Transfer conveyor	4200	500	F20014607	2252590
			Lateral discharge belt	8900	650	F20011025	2252553
				12900	650	F20009762	2252545
Electromagnetic separator	5710	800		M20000485			
Permanent magnet separator	5315	750		M10015357			
MR 130 Z EVO 2, MR 130 Zi EVO 2	K077, K078	0001 - 9999	Crusher discharge belt	20400	1400	2358152	2358894
				23600	1400	2351696	2377874
			Fine-grained conveyor (secondary screen unit)	14700	1200	2305013	2377897
			Return conveyor	20300	500	2305085	2377877
			Transfer conveyor	4200	500	F20014607	2252590
			Lateral discharge belt	8900	650	F20011025	2252553
				12900	650	F20009762	2252545
			Electromagnetic separator	5110	1000	2361793	
Permanent magnet separator	5330	750	2377331				



Machine type	Model	Series range	Conveyor	Belt length (in mm)	Belt width (in mm)	Conveyor	
						closed	open
						Part No.	Part No.
MS 12 Z-AD	K067	0001 - 9999	Feed conveyor	7348	1200	2345636	
			Main discharge belt - oversized grain	10125	1050	2345639	
			Lateral discharge belt - medium-sized grain	16444	650	2345638	
			Collating conveyor - fine grain	5074	900	2345637	
			Lateral discharge belt - fine grain	16444	650	2345638	
MS 13 Z-AD	K066	0001 - 9999	Feed conveyor	8868	1200	2345640	
			Main discharge belt - oversized grain	10169	1050	2323721	
			Lateral discharge belt - medium-sized grain	15174	650	2345643	
			Collating conveyor - fine grain	7199	1050	2345641	
			Lateral discharge belt - fine grain	14214	650	2345642	
MS 14 Z	K068	0001 - 9999	Hopper discharge belt	7360	1200	2345644	
			Feed conveyor	16554	900	2345645	
			Lateral discharge belt - oversized grain	16444	650	2345646	
			Lateral discharge belt - medium-sized grain				
			Main discharge belt - fine grain	10477	650	2345647	
MS 15 Z-AD	K047	0001 - 9999	Feed conveyor	10048	1400	2232586	
			Main discharge belt - oversized grain	11829	1400	2274517	
			Lateral discharge belt - medium-sized grain	9769	1200	2476924	
			Collating conveyor - fine grain	9769	1200	2274524	
			Lateral discharge belt - fine grain	16113	900	2287592	
MS 16 D, MS 16 Z	K049, K048	0001 - 9999	Hopper discharge belt 12 ft. Funnel	8068	1200	M10020070	
			Hopper discharge belt 15 ft. Funnel	9898	1200	M10020071	
			Feed conveyor	20019	1050	M10020212	
			Feed conveyor Chevron	20019	1050	2287601	
			Transfer conveyor	4170	650	2286400	
			Lateral discharge belt - oversized grain	17719	500	2222752	
			Lateral discharge belt - oversized grain	17719	650	2287591	
			Lateral discharge belt - medium-sized grain, left				
			Lateral discharge belt - medium-sized grain, right	18979	650	M10023645	
MS 18 Z-AD	K053	0001 - 9999	Feed conveyor	11300	1400	F20019128	2252985
			Main discharge belt - oversized grain	13800	1400	F20018064	2252988
			Lateral discharge belt - medium-sized grain	17200	650	F20019131	2252991
			Collating conveyor - fine grain	10820	1400	2209527	2252990
			Lateral discharge belt - fine grain	17400	800	F20019130	2252992
MS 19 D, MS 19 Z	K055, K054	0001 - 9999	Hopper discharge belt 12 ft. funnel	8068	1200	M10020070	
			Hopper discharge belt 15 ft. funnel	9898	1200	M10020071	
			Feed conveyor	24419	1050	M10020213	
			Feed conveyor Chevron	24419	1050	2287582	
			Transfer conveyor	4170	650	2286400	
			Lateral discharge belt - oversized grain	21379	800	2228594	
			Lateral discharge belt - medium-sized grain	17719	500	2222752	
			Main discharge belt - fine grain	16879	1200	2287587	
MS 21 Z-AD	K076	0001 - 9999	Feed conveyor	10048	1500	2338017	
			Main discharge belt - oversized grain	11829	1400	2274517	
			Lateral discharge belt - medium-sized grain	17250	900	2345651	
			Collating conveyor - fine grain	11909	1400	2345649	
			Lateral discharge belt - fine grain	16634	1050	2345650	



ORIGINAL KLEEMANN BELT CONVEYOR ROLLERS

In order to smoothly convey heavy material, a KLEEMANN machine requires high-quality rollers in the individual belt conveyors.

The original belt conveyor rollers provide for optimum alignment and operating characteristics of the individual conveyor belts.

The simply replaceable rollers also make easy on-site maintenance possible.



1 *The **guide rollers** ensure ideal centring of the belts.*

2 *To achieve better guidance of the conveyor belt, **the load** is evenly distributed over the individual support rollers.*

3 *The **reinforced construction** of the support rollers at the feed area ensures a longer service life.*

4 ***Garlands** adapt perfectly to the belt shape, increasing the filling cross-section.*

5 ***Track rollers** ideally prevent any caking on the conveyor belt.*





Machine type	Model	Series range	Belt conveyor	Roller type	Dimensions	Part No.			
MC 100 R	K001	0001 - 9999	Lateral discharge belt	Support roller	D89x200	M10000451			
					D63.5/89x200	M10000456			
				Lateral guide roller	D63.5x100	M10000442			
						Belt roller	D63.5/108x600	F10062014	
			Crusher discharge belt	Support roller	D89x465	M10001642			
					D89x1150	M10000434			
					D89x530	M100004175			
					D89/133x530	M10008227			
				Lateral guide roller	D63.5x100	M10000442			
						Belt roller	D63.5/108x1150	F10062044	
MC 100 R EVO, MC 100 Ri EVO	K002, K011	0002 - 9999	Lateral discharge belt	Support roller	D89x250	M10000452			
			Main discharge belt		D89x380	M10000080			
					D89x250	M10000452			
					D89x65	M10008892			
					D89x900	M10014163			
				Garland with hooks	D89x200-380-200	2275488			
						Belt roller	D63.5/108x950	F10062034	
MC 110 R, MC 110 Z	K003, K004	0001 - 9999	Lateral discharge belt	Support roller	D89x250	M10000452			
					D89x200	M10000451			
				Lateral guide roller	D63.5x100	M10000442			
						Belt roller	D63.5x108x750	F10062024	
			Crusher discharge belt	Support roller (charging)	D89/133x600	M10012384			
							Support roller	D89x600	M10000432
							D89x530	M100004175	
							D89x1250	M10009566	
				Lateral guide roller	D63.5x100	M10000442			
						Belt roller	D63.5/108x1250	F10243314	
			Lateral discharge belt oversized grain	Support roller	D89x250	M10000452			
					D89x200	M10000451			
				Lateral guide roller	D63.5x100	M10000442			
						Belt roller	D89x750	M10000436	
			Fine-grained conveyor	Support roller	D89x600	M10000432			
							Lateral guide roller	D63.5x100	M10000442
				D63.5x132	M10002237				
			Belt roller	D89/133x1300	F10332314				
MC 110 R EVO, MC 110 Z EVO	K005, K006	0001 - 9999	Lateral discharge belt	Support roller	D89x250	M10000452			
			Crusher discharge belt		D89x465	M10001642			
					D89x315	M10000453			
					D89x200	M10000451			
					D89x250	M10000452			
					D89x1050	M10009567			
				Garland with hooks	D89x250-465-250	2221013			
				Garland rubberised	D63/89x250-465-250	2221046			
						Belt roller	D63.5/108x1150	F10062044	



ORIGINAL KLEEMANN

BELT CONVEYOR ROLLERS

Machine type	Model	Series range	Belt conveyor	Roller type	Dimensions	Part No.
MC 120 Z	K007	0053 - 9999	Lateral discharge belt	Support roller	D89x250	M10000452
					D89x200	M10000451
				Lateral guide roller	D63.5x100	M10000442
				Belt roller	D63.5/108x750	F10062024
			Crusher discharge belt	Support roller (charging)	D63.5/89x600	M10001886
					D63.5/89x380	M10000457
				Support roller	D89x600	M10000432
					D89x380	M10000080
				Lateral guide roller	D89x132	M10000444
					D63.5x132	M10002237
Belt roller	D89/133x1500	F10292374				
MC 125 Z	K008	0001 - 9999	Lateral discharge belt	Garland	D108x380-380-380	M10009854
				Support roller (charging)	D63.5/108x315	M10009875
					D63.5/108x380	M10009876
				Lateral guide roller	D63.5x100	M10000442
			Belt roller	D63.5/108x1150	F10062044	
			Crusher discharge belt	Garland	D108x380-380-380	M10009851
				Support roller (charging)	D89/133x465	M10000539
				Support roller	D89/133x380	M10000540
					D89x465	M10001642
					D89x380	M10000080
				Lateral guide roller	D63.5x132	M10002237
					D89x132	M10000444
			Belt roller	D89/133x1300	F10332314	
			MCO 9 EVO, MCO 9i EVO, MCO 9 S EVO, MCO 9 Si EVO	K072, K073, K075, K075	0001 - 9999	Feed conveyor
D89x315	M10000453					
Belt roller	D89x200	M10000451				
Crusher discharge belt	Garland buffer ring	D63/D89x200-380-200				2275491
		Garland with hooks				D89x200-380-200
	Support roller	D89x380				M10000080
		D89x250				M10000452
		D89x165				M10008892
	Lateral guide roller	D63.5x132				M10002237
	Belt roller	D63.5/108x950				F10062034
Transfer conveyor	Support roller	D89x200				M10000451
Return conveyor	Support roller	D89x200				M10000451
	Belt roller	D89x530				M10004175
Fine-grained conveyor	Garland	D89x315-315-315				2322839
		Garland with hooks				D89x315-315-315
	Support roller	D89x380				M10000080
		D89x250				M10000452
	Belt roller	D63.5/108x1150	F10062044			



Machine type	Model	Series range	Belt conveyor	Roller type	Dimensions	Part No.	
MCO 11 PRO	K110	0001 - 9999	Feed conveyor	Support roller (charging)	D63.5/108x530	M10009602	
					D63.5/108x380	M10009876	
					D63.5/108x250	M10000458	
				Support roller	D89x750	M10000436	
					D89x530	M10004175	
					D89x380	M10000080	
					D89x250	M10000452	
					D89x1250	M10009566	
					Support roller (non-magnetic)	D89x530	2434076
						D89x250	M10010106
			Belt roller	D89/133x1300	F10332314		
			Crusher discharge belt	Support roller	D89x465	M10001642	
				Support roller (charging)	D63.5/89x315	M10000454	
					D63.5/89x465	2470078	
				Garland	D89-250-465-250	2221013	
				Support roller	D89x465	M10001642	
					D89x315	M10000453	
					D89x200	M10000451	
					D89x250	M10000452	
				Support roller (one side)	D89x200	2499872	
Belt roller	D63.5/108x1150	F10062044					
MR 100 R, MR 100 Z	K012, K013	0001 - 9999	Lateral discharge belt	Support roller	D63.5x500	M10003864	
				Lateral guide roller	D63.5x100	M10000442	
				Belt roller	D63.5/108x750	F10062024	
			Crusher discharge belt	Support roller (charging)	D63.5/89x380	M10000457	
					D63.5/89x315	M10000454	
				Support roller	D89x380	M10000080	
					D89x315	M10000453	
				Support roller (non-magnetic)	D90x380	M10006388	
				Lateral guide roller	D63.5x132	M10002237	
				Belt roller	D63.5x100	M10000442	
			D63.5/108x1150		F10062044		
			Transfer conveyor	Support roller	D63.5x500	M10003864	
				Lateral guide roller	D63.5x100	M10000442	
			Fine-grained conveyor	Support roller	D89x600	M10000432	
				Lateral guide roller	D63.5x100	M10000442	
					D63.5x132	M10002237	
				Belt roller	D89/133x1300	F10332314	



ORIGINAL KLEEMANN

BELT CONVEYOR ROLLERS

Machine type	Model	Series range	Belt conveyor	Roller type	Dimensions	Part No.			
MR 110 R EVO, MR 110 Z EVO	K016, K017	0002 - 9999	Lateral discharge belt	Support roller	D89x250	M10000452			
					D89x200	M10000451			
				Lateral guide roller	D63.5x100	M10000442			
				Belt roller	D63.5/108x750	F10062024			
			Crusher discharge belt	Support roller	D89x250	M10000452			
					D89x750	M10000436			
				Support roller (non-magnetic)	D89x750	M10002179			
					D89x165	M20001284			
				Lateral guide roller	D63.5x132	M10002237			
				Belt roller	D89/133x1300	F10332314			
			Transfer conveyor	Support roller	D89x200	M10000451			
				Lateral guide roller	D63.5x100	M10000442			
			Return conveyor	Support roller	D89x200	M10000451			
				Lateral guide roller	D63.5x100	M10000442			
				Belt roller	D89x530	M10004175			
			Fine-grained conveyor	Support roller	D89x250	M10000452			
					D89x750	M10000436			
				Lateral guide roller	D63.5x132	M10002237			
				Belt roller	D89/133x1300	F10332314			
			MR 110 Z EVO 2, MR 110 Zi EVO 2	K018, K019	0001 - 9999	Lateral discharge belt	Support roller	D89x250	M10000452
								D89x200	M10000451
							Lateral guide roller	D63.5x100	M10000442
						Crusher discharge belt	Garland	D89x315-465-315	2304990
								D89x315-465-315	2304937
Support roller	D89x465	M10001642							
	D89x315	M10000453							
	D89x465	M10001642							
Support roller (non-magnetic)	D89x465	M10006389							
	D89x315	M10011319							
	D89x200	2295906							
Belt roller	D89/133x1300	F10332314							
Transfer conveyor	Support roller	D89x200				M10000451			
Return conveyor	Support roller	D89x200				M10000451			
		D89x530				M10004175			
Fine-grained conveyor	Garland	D89x315-315-315				2322839			
		D89x315-315-315				2322255			
	Support roller	D89x380				M10000080			
		D89x250				M10000452			
	Belt roller	D63.5/108x1150				F10062044			



Machine type	Model	Series range	Belt conveyor	Roller type	Dimensions	Part No.			
MR 122 Z	K062	0066 - 9999	Lateral discharge belt	Support roller	D89x250	M10000452			
					D89x200	M10000451			
				Lateral guide roller	D63.5x100	M10000442			
						Belt roller	D63.5/108x750	F10062024	
			Crusher discharge belt			Support roller (charging)	D63.5/89x600	M10001886	
							D63.5/89x380	M10000457	
						Support roller	D89x600	M10000432	
							D89x380	M10000080	
						Lateral guide roller	D63.5x132	M10002237	
		Belt roller		D89/133x1500	F10292374				
MR 130 R EVO, MR 130 Z EVO	K023, K024	0301 - 9999	Lateral discharge belt	Support roller	D89x250	M10000452			
					D89x200	M10000451			
				Lateral guide roller	D63.5x100	M10000442			
						Belt roller	D63.5/108x750	F10062024	
			Crusher discharge belt			Support roller	D89x250	M10000452	
							D89x950	M10000435	
						Support roller (non-magnetic)	D89x165	M20001284	
							D89x950	M20001275	
						Lateral guide roller	D63.5x132	M10002237	
						Belt roller	D89/133x1500	F10292374	
			Transfer conveyor			Support roller	D89x200	M10000451	
						Lateral guide roller	D63.5x100	M10000442	
			Return conveyor			Support roller	D89x200	M10000451	
						Lateral guide roller	D63.5x100	M10000442	
						Belt roller	D89x530	M100004175	
			Fine-grained conveyor			Support roller	D89x250	M10000452	
							D89x950	M10000435	
						Lateral guide roller	D63.5x132	M10002237	
						Belt roller	D89/133x1500	F10292374	
			MR 130 Z EVO 2, MR 130 Zi EVO 2	K077, K078	0001 - 9999	Lateral discharge belt	Support roller	D89x250	M10000452
								D89x200	M10000451
Lateral guide roller	D63.5x100	M10000442							
						Belt roller	D63.5/108x750	F10062024	
Crusher discharge belt						Garland	D89x380-530-380	2297025	
						Garland with hooks	D89x380-530-380	2297010	
						Support roller	D89x600	M10000432	
							D89x315	M10000453	
							D89x465	M10001642	
							D89x1500	2291208	
						Support roller (non-magnetic)	D89x600	M10016766	
							D89x315	M10011319	
		Belt roller				D89/133x1500	F10292374		
Transfer conveyor		Support roller				D89x200	M10000451		
Return conveyor						Support roller	D89x530	M100004175	
							D89x200	M10000451	
Fine-grained conveyor						Garland	D89x315-465-315	2304990	
						Garland with hooks	D89x315-465-315	2304937	
						Support roller	D89x315	M10000453	
							D89x465	M10001642	
						Belt roller	D89/133x1300	F10332314	



ORIGINAL KLEEMANN SCRAPER STRIPS

The belts from different belt conveyors carry different materials on a daily basis. The respective front and wedge scrapers offer the protection required to guarantee a long service life.

KLEEMANN therefore only uses abrasion-resistant composites for its scrapers to ensure that belt wear is minimised.



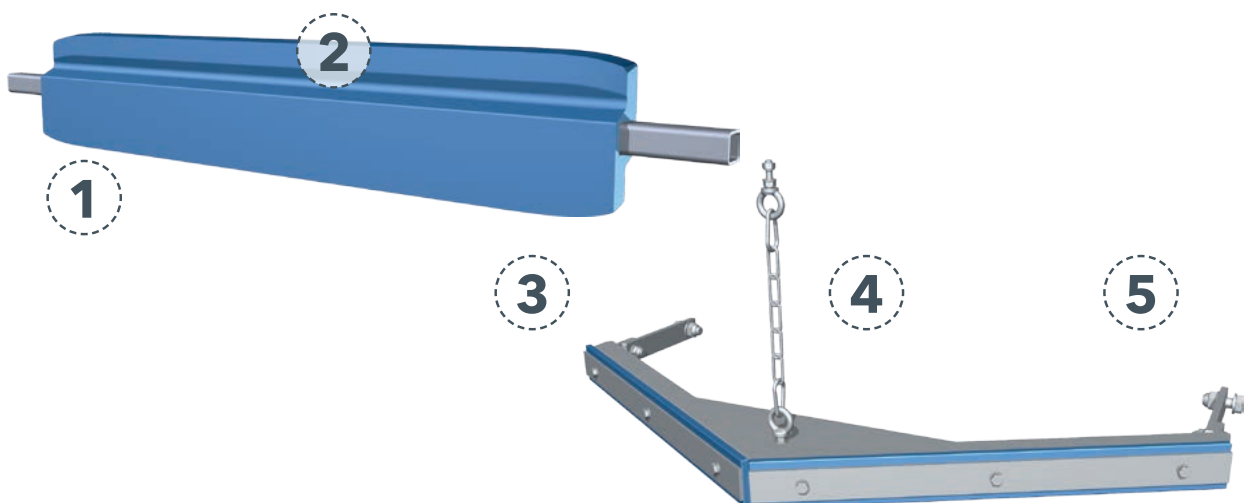
1 The individual scrapers ensure an **optimum cleaning effect** for conveyor belts.

2 Scrapers provide **high wear and abrasion resistance** and feature a long service life even under tougher conditions.

3 **Precisely fitted scrapers guarantee less material loss** and provide considerable financial benefits.

4 **Easy fitting or dismantling** thanks to individually replaceable scraper strips.

5 Scrapers are extremely **low-maintenance and easy to clean**.





Machine type	Model	Series range	Conveyor type	Front scraper strip		Wedge scraper strip	
				Quantity	Part No.	Quantity	Part No.
	K001	0001 - 9999	Crusher discharge belt	1	F10362984	2	F20002398
			Lateral discharge belt	1	F10362904	2	F20002473
MC 100 R EVO, MC 100 Ri EVO	K002, K011	0001 - 9999	Crusher discharge belt	1	2277175	2	F20002406
			Lateral discharge belt			2	F20002473
MC 110 R, MC 110 Z	K003, K004	0013 - 9999	Crusher discharge belt	1	F10362994	2	F20002398
			Fine-grained conveyor	1	F10362994	2	F20002422
			Lateral discharge belt	1	F10362934	2	F20002410
MC 110 R EVO, MC 110 Z EVO, MC 110 Ri EVO, MC 110 Zi EVO	K005, K006, K014, K015	0001 - 9999	Crusher discharge belt	1	2220753	2	F20002403
			Lateral discharge belt			2	F20002473
MC 120 Z	K007	0053 - 9999	Crusher discharge belt	1	F10363034	2	F20002833
			Lateral discharge belt	1	F10362934	2	F20002410
MC 125 Z	K008	0200 - 9999	Crusher discharge belt	1	F10362994	2	F20002422
			Lateral discharge belt	1	F10362964	2	F20002398
MR 100 R, MR 100 Z	K012, K013	0010 - 9999	Crusher discharge belt	1	F10362964	2	F20002398
			Lateral discharge belt	1	F10362934	2	F20002410
			Fine-grained conveyor	1	F10362994	2	F20002422
			Return conveyor			2	F20002473
MR 110 R EVO, MR 110 Z EVO	K016, K017	0002 - 9999	Crusher discharge belt	1	F10362994	2	F20002398
			Lateral discharge belt		F10362934	2	F20002410
			Fine-grained conveyor (secondary screen unit)	1	F10362994	2	F20002398
			Return conveyor			2	F20009370
MR 110 Z EVO 2, MR 110 Zi EVO 2	K018, K019	0001 - 9999	Crusher discharge belt	1	2200439	2	F20002398
			Lateral discharge belt	1	F10362934	2	F20002410
			Transfer conveyor	1	2349467		
			Fine-grained conveyor (secondary screen unit)	1	2220753	2	F20002403
			Return conveyor			2	F20009370
MR 122 Z	K062	0066 - 9999	Crusher discharge belt	1	F10363034	2	F20002833
			Lateral discharge belt	1	F10362934	2	F20002410
MR 130 R EVO, MR 130 Z EVO	K023, K024	0301 - 9999	Crusher discharge belt	1	F10363034	2	F20002413
			Lateral discharge belt	1	F10362934	2	F20002410
			Fine-grained conveyor (secondary screen unit)	1	F10363034	2	F20002413
			Return conveyor			2	F20009370
MR 130 Z EVO 2, MR 130 Zi EVO 2	K077, K078	0001 - 9999	Crusher discharge belt	1	2296878	2	F20002413
			Lateral discharge belt	1	F10362934	2	F20002410
			Transfer conveyor	1	2349467		
			Fine-grained conveyor (secondary screen unit)	1	2200439	2	F20002422
			Return conveyor			2	F20009370
MCO 9 EVO, MCO 9i EVO	K072, K073	0001 - 9999	Feed conveyor	1	2220753	2	F20002403
			Lateral discharge belt	1	F10362934	2	F20002410
			Crusher discharge belt	1	2277175	2	F20002406
MCO 9 S EVO, MCO 9 Si EVO	K074, K075	0001 - 9999	Feed conveyor	1	2220753	2	F20002403
			Crusher discharge belt	1	2277175	2	F20002406
			Transfer conveyor	1	2349467		
			Return conveyor			2	F20009370
			Fine-grained conveyor	1	2220753	2	F20002403
MCO 11 PRO	K110	0001 - 9999	Feed conveyor	1	2502745	2	F20002398
			Crusher discharge belt	1	2220753	2	F20002403



ORIGINAL KLEEMANN CRAWLER UNIT PARTS

Original KLEEMANN crawler unit chains fulfill all of your needs, such as the highest levels of strength and long service lives even under extreme load and the heavy weight of KLEEMANN plants.

To change the chassis parts, KLEEMANN provides the individual parts such as roller, track pad with mounting hardware or a complete repair segment.



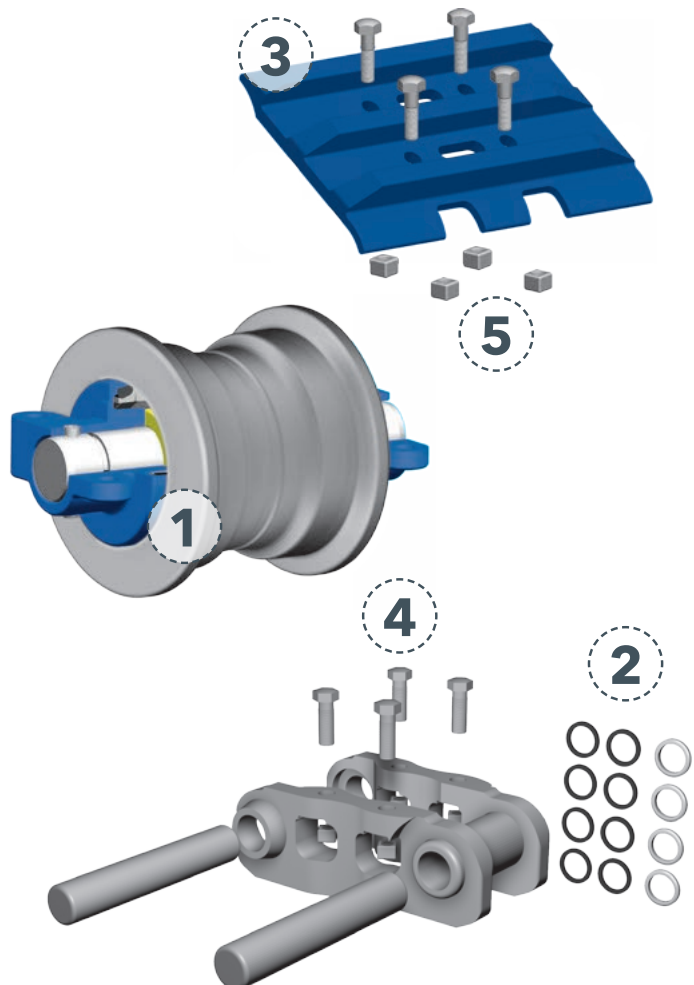
1 *Rollers distribute the acting forces for a smooth running performance.*

2 *The complete repair segment allows a quick and inexpensive repair of the chain.*

3 *Track pad made of rolled high-performance steel profiles offers at the same time an optimised surface hardness.*

4 *Screws with a rounded head and fine thread provide for high-endurance and reliable connection.*

5 *Square track pad nuts ensure a fixed connection.*





Machine type	Model	Series range	Crawler unit parts	Quantity	Part No.
MC 100 R	K001	0001 - 9999	Repair segment, complete	1	M10013851
			Track pad	1	M10020125
			Track roller	1	M10005184
			Screw	1	M10013853
			Nut	1	M10013854
MC 100 R EVO, MC 100 Ri EVO	K002, K011	0001 - 9999	Repair segment, complete	1	M10024552
			Track pad	1	M10020125
			Track roller	1	2297331
			Screw	1	M10013853
			Nut	1	M10013854
MC 110 R	K003	0001 - 0206	Repair segment, complete	1	M10013856
			Track pad	1	M10022270
			Track roller	1	2294887
			Screw	1	M10013858
			Nut	1	M10013857
		0207 - 9999	Repair segment, complete	1	2223165
			Track pad	1	2223167
			Track roller	1	2320756
			Screw	1	2279277
			Nut	1	2279279
MC 110 Z	K004	0001 - 0221	Repair segment, complete	1	M10013856
			Track pad	1	M10022270
			Track roller	1	2294887
			Screw	1	M10013858
			Nut	1	M10013857
		0222 - 9999	Repair segment, complete	1	2223165
			Track pad	1	2223167
			Track roller	1	2320756
			Screw	1	2279277
			Nut	1	2279279
MC 110 R EVO, MC 110 Z EVO, MC 110 Ri EVO, MC 110 Zi EVO	K005, K006, K014, K015	0001 - 9999	Repair segment, complete	1	2332776
			Track pad	1	2332777
			Track roller	1	2290211
			Screw	1	2332778
			Nut	1	2332779
MC 120 Z	K007	0001 - 9999	Repair segment, complete	1	M10013860
			Track pad	1	M20001140
			Track roller	1	M10005300
			Screw	1	M10013862
			Nut	1	M10013861
MC 125 Z	K008	0200 - 9999	Repair segment, complete	1	M10024732
			Track pad	1	M10024733
			Track roller	1	M10010444
			Screw	1	M10024734
			Nut	1	M10024735

ORIGINAL KLEEMANN

CRAWLER UNIT PARTS

Machine type	Model	Series range	Crawler unit parts	Quantity	Part No.
MCO 9 EVO, MCO 9i EVO	K072, K073	0001 - 9999	Repair segment, complete	1	M10024552
			Track pad	1	M10020125
			Track roller	1	2297331
			Screw	1	M10013853
			Nut	1	M10013854
MCO 9 S EVO, MCO 9 Si EVO	K074, K075	0001 - 9999	Repair segment, complete	1	2332776
			Track pad	1	2332777
			Track roller	1	2290211
			Screw	1	2332778
			Nut	1	2332779
MCO 11 PRO	K110	0001 - 9999	Repair segment, complete	1	2380412
			Track pad	1	2380446
			Track roller	1	2294887
			Screw	1	2380444
			Nut	1	2380445
MR 100 R	K012	0001 - 9999	Repair segment, complete	1	M10016749
			Track pad	1	M10022058
			Track roller	1	M10012358
			Screw	1	M10017665
			Nut	1	M10017666
MR 100 Z	K013	0001 - 9999	Repair segment, complete	1	M10016749
			Track pad	1	M10022058
			Track roller	1	M10012358
			Screw	1	M10017665
			Nut	1	M10017666
MR 110 R	K016	0002 - 0003	Repair segment, complete	1	M10013856
			Track pad	1	M10022270
			Track roller	1	2294887
			Screw	1	M10013858
			Nut	1	M10013857
		0004 - 9999	Repair segment, complete	1	2223165
			Track pad	1	2223167
			Track roller	1	2320756
			Screw	1	2279277
			Nut	1	2279279
MR 110 Z	K017	0002 - 0028	Repair segment, complete	1	M10013856
			Track pad	1	M10022270
			Track roller	1	2294887
			Screw	1	M10013858
			Nut	1	M10013857
		0029 - 9999	Repair segment, complete	1	2223165
			Track pad	1	2223167
			Track roller	1	2320756
			Screw	1	2279277
			Nut	1	2279279



Machine type	Model	Series range	Crawler unit parts	Quantity	Part No.
MR 110 Z EVO 2, MR 110 Zi EVO 2	K018, K019	0001 - 9999	Repair segment, complete	1	2380412
			Track pad	1	2380446
			Track roller	1	2294887
			Screw	1	2380444
			Nut	1	2380445
MR 122 Z	K062	0001 - 9999	Repair segment, complete	1	M10013860
			Track pad	1	M20001140
			Track roller	1	M10005300
			Screw	1	M10013862
			Nut	1	M10013861
MR 130 R V3	K023	0001 - 0199	Repair segment, complete	1	M10013856
			Track pad	1	M10022270
			Track roller	1	2294887
			Screw	1	M10013858
			Nut	1	M10013857
MR 130 Z V3	K024	0001 - 0299	Repair segment, complete	1	M10013856
			Track pad	1	M10022270
			Track roller	1	2294887
			Screw	1	M10013858
			Nut	1	M10013857
MR 130 R EVO	K023	0200 - 0201	Repair segment, complete	1	2223165
			Track pad	1	2223167
			Track roller	1	2294887
			Screw	1	2279277
			Nut	1	2279279
MR 130 Z EVO	K024	0300 - 0330	Repair segment, complete	1	M10013856
			Track pad	1	M10022270
			Track roller	1	2294887
			Screw	1	M10013858
			Nut	1	M10013857
		0331 - 9999	Repair segment, complete	1	2223165
			Track pad	1	2223167
			Track roller	1	2320756
			Screw	1	2279277
			Nut	1	2279279
MR 130 Z EVO 2, MR 130 Zi EVO 2	K077, K078	0001 - 9999	Repair segment, complete	1	2380412
			Track pad	1	2380446
			Track roller	1	2294887
			Screw	1	2380444
			Nut	1	2380445



ORIGINAL KLEEMANN SLOTTED SCREENS

On difficult, sticky and very coarse feed material a slotted grizzly is used in most cases.

The demands on the selectivity should be fairly small. The feed material enters the slotted grizzly via the feed chute.

To increase the service life, the elements of the slotted screen are manufactured from a particularly wear-resistant material.

The R-version of different machine types includes a slotted grizzly which is integrated in the feed chute.



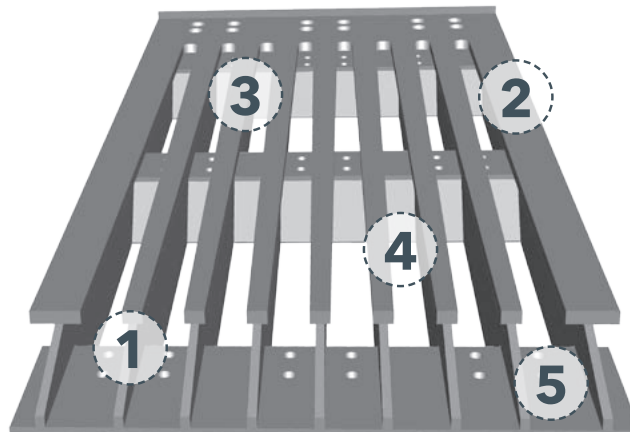
1 Prescreening flexible possible by simply replacing the entire slotted grizzly.

2 Optimal distribution of the feed material even with the most demanding material properties.

3 Bars made of high-quality KLEEMANN Resistant Steel particularly resist the coarse material.

4 Rugged construction withstands even the highest requirements for coarse feed material.

5 Expanding the gap width in the material flow direction prevents grains from getting stuck and ensures a permanent screening performance.





Machine type	Model	Series range	Slotted screen	
			Rod spacing (mm)	Part No.
MC 100 R	K001	0001 - 9999	32	F20007487
			50	F10350432
			60	F20004901
			90	F10578302
MC 100 R EVO, MC 100 Ri EVO	K002, K011	0001 - 9999	40	2339535
			50	2339536
			60	2339538
MC 110 R	K003	0001 - 9999	40	2234419
			50	F20009648
MC 110 Z	K004	0001 - 9999	45	F20003570
			55	F20003701
			65	F20017141
MC 110 EVO R, MC 110 EVO Z, MC 110 EVO Ri, MC 110 EVO Zi	K005, K006, K014, K015	0001 - 9999	45	2298411
			55	2298412
			65	2298413
MC 120 Z	K007	0001 - 9999	45	F20017519
			65	F20007126
			75	F20017522
			80	F10538960
			85	F20017086
			90	F20000021
MR 100 Z	K013	0001 - 9999	45	F10410151
MR 110 R EVO	K016	0001 - 9999	50	F20009648
MR 110 Z EVO	K017	0002 - 9999	45	F20003570
			55	F20003701
			65	F20017141
MR 110 Z EVO 2, MR 110 Zi EVO 2	K018, K019	0001 - 9999	45	2332229
			55	2332262
			65	2332315
			75	2332183
MR 122 Z	K062	0001 - 9999	45	F20018433
			55	F20018405
			70	F20018497
MR 130 Z EVO	K024	0001 - 0299	45	F20018433
			55	F20018405
			70	F20018497
		0301 - 9999	45	F20011673
			55	F20011381
			65	F20011677
MR 130 Z EVO 2, MR 130 Zi EVO 2	K077, K078	0001 - 9999	35	2456989
			45	2298473
			55	2295997
			65	2341036

ORIGINAL KLEEMANN PERFORATED PLATES

To withstand the enormous impact loads and friction loads and to maximise the service life, perforated plates of wear-resistant material are used at KLEEMANN.

These provide a good combination of high hardness and excellent toughness to keep the wear low with the different loads.



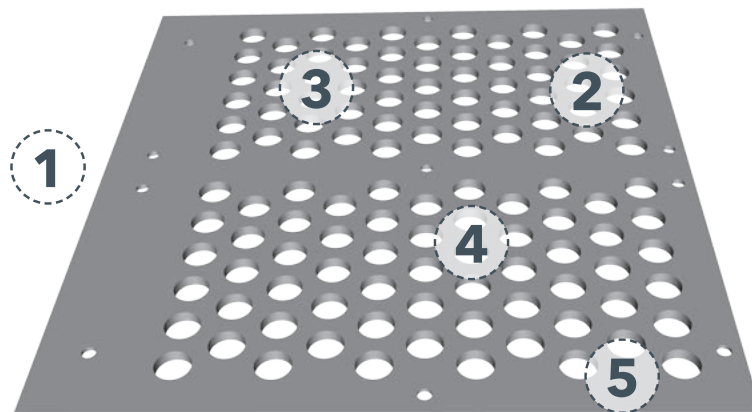
1 *Relief of the crusher* through prescreening of fine particles.

2 *The staggered arrangement of the circular holes* allows best separation results.

3 *Round holes* combine high rigidity with relatively large free cross section.

4 *The use of KLEEMANN Resistant Steel* leads to a long service life.

5 *The individual perforated plates* allow an easy and quick replacement





Machine type	Model	Series range	Perforated plate			
			Average mesh size (in mm)	Thickness (in mm)	Perforated plate type charging	Perforated plate type discharge
					Part No.	Part No.
MC 100 R EVO, MC 100 Ri EVO	K002, K011	0001 - 9999	30	20	2339328	
			35	20	2339366	
			40	20	2339420	
			45	20	2339431	
			50	20	2339489	
			60	20	2339547	
			70	20	2339570	
			80	20	2339576	
MC 110 Z	K004	0001 - 9999	30	20	F20016177	F20016178
			40	20	F20007386	F20007387
			45	20	F20007380	F20007385
			50	20	F20006468	F20006469
			60	20	F20005644	F20005647
			70	20	F20003962	F20003963
			80	20	F20005654	F20005653
MC 110 R EVO, MC 110 Z EVO, MC 110 Ri EVO, MC 110 Zi EVO	K005, K006, K014, K015	0001 - 9999	30	20	2298372	
			35	20	2298457	
			40	20	2298374	
			45	20	2298461	
			50	20	2298378	
			60	20	2298381	
			70	20	2298384	
			80	20	2298472	
MC 120 Z	K007	0053 - 9999	60	20	F20017381	F20017384
			70	20	F20017390	F20017391
			75	20	F20005642	F20005643
			80	20	F10392474	F10481824
			90	20	F20003970	F20003971
			100	20	F10536024	F10536014
MR 100 Z	K013	0033 - 9999	30	20	F20006019	F20006020
			40	20	F20006983	F20006984
			50	20	F20003760	F20003761
			60	20	F20003670	F20003671
MR 110 Z EVO	K017	0002 - 9999	30	20	F20016177	F20016178
			35	20	F20007410	F20007420
			40	20	F20007386	F20007387
			45	20	F20007380	F20007385
			50	20	F20006468	F20006469
			60	20	F20005644	F20005647
			70	20	F20003962	F20003963
			80	20	F20005654	F20005653



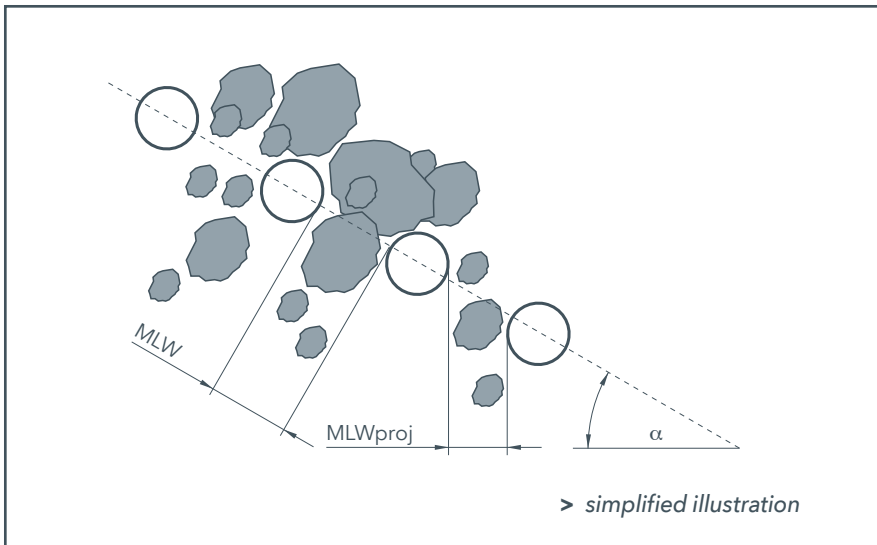
ORIGINAL KLEEMANN

PERFORATED PLATES

Machine type	Model	Series range	Perforated plate			
			Average mesh size (in mm)	Thickness (in mm)	Perforated plate type charging	Perforated plate type discharge
					Part No.	Part No.
MR 110 Z EVO 2, MR 110 Zi EVO 2	K018, K019	0001 - 9999	30	20	2341990	2341996
			35	20	2342007	2342014
			40	20	2336412	2336433
			50	20	2341374	2341371
			60	20	2326015	2326026
			70	20	2326208	2326203
			80	20	2319902	2319871
MR 122 Z	K062	0066 - 9999	30	20	F20000349	F20000350
			40	20	F20006149	F20006150
			50	20	F20000337	F20000338
			60	20	F20001548	F20001550
			70	20	F20003073	F20003074
			80	20	2209429	2209428
			100	20	F20000128	F20000129
MR 130 Z	K024	0070 - 0299	30	20	F20000349	F20000350
			40	20	F20006149	F20006150
			50	20	F20000337	F20000338
			60	20	F20001548	F20001550
			70	20	F20003073	F20003074
			80	20	2209429	2209428
			100	20	F20000128	F20000129
MR 130 Z EVO	K024	0301 - 9999	30	20	F20000349	F20014479
			35	20	F20011776	F20011791
			40	20	F20006149	F20014745
			45	20	F20003946	F20011771
			50	20	F20000337	F20011011
			60	20	F20001548	F20011768
			70	20	F20014484	F20014486
			80	20	F20001922	F20011774
MR 130 Z EVO 2, MR 130 Zi EVO 2	K077, K078	0001 - 9999	30	20	2341618	2341639
			35	20	2301480	2298960
			40	20	2301591	2301597
			50	20	2301667	2301649
			60	20	2296285	2301725
			70	20	2296318	2301777
			80	20	2341807	2341836



WIRE MESH

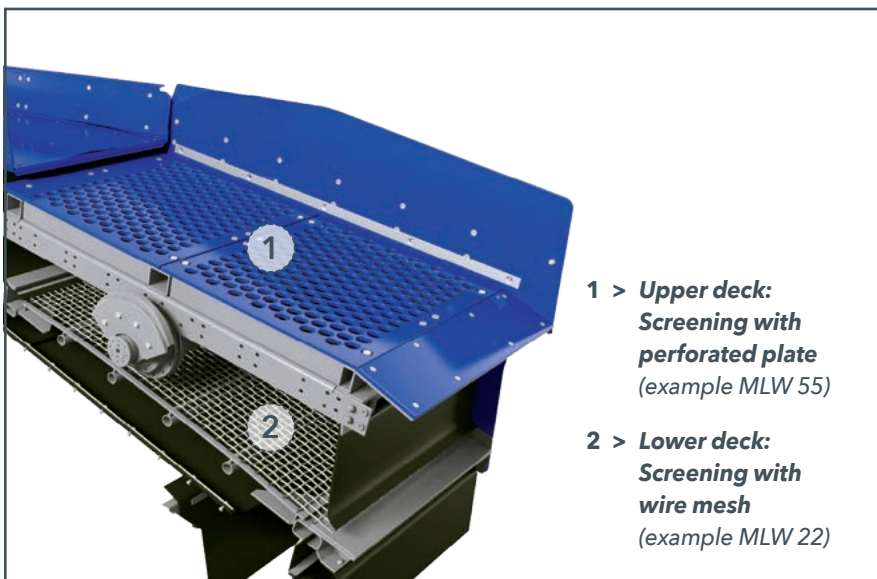


SELECTION OF MESH SIZES FOR REQUIRED PARTICLE SIZES

The result of the screening is defined by numerous factors. The most important factors include the shape of the particles, the moisture content and the feed volume. The table provides general figures for the selection of the appropriate mesh size (MLW) for EU standard particle sizes.

The screen tilt (α) reduces the mesh size (MLW) to the projected dimension (MLWproj). For well-defined screening the screen opening should therefore always be a little larger than the particle size required.

During the configuration of a double-deck primary screen the ratio of "screening upper deck to screening lower deck" should not be less than 4:1 to prevent a reduction in the service life of the lower deck screen.



Mobile lower deck process screen (primary screen, prefilter)		Mobile classifying screen (secondary screen)		Mobile classifying screen MS series	
Separation (mm)	Recommended MLW (mm)	Separation (mm)	Recommended MLW (mm)	Separation (mm)	Recommended MLW (mm)
10	12	8	10	4	5
15	18	10	12	5	6.3
20	25	11	15	6	7.1
25	30	16	20	8	10
30	35	20	25	10	12.5
35	40	25	30	11	13.5
45	50	30	35	14	16
		35	40	16	18
		45	50	20	22.4
		56	65	22.4	25
		63	70	31.5	35.5
				45	50
				56	60



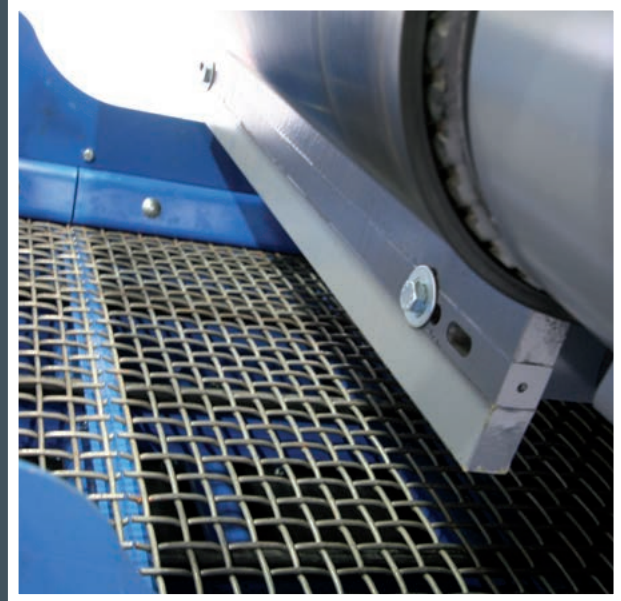
ORIGINAL KLEEMANN

WIRE MESH FOR PRESCREENING AND POSTSCREENING UNIT

KLEEMANN screens - efficient screening, rapid delivery

The screens are exposed to heavy loads in everyday use. In order to ensure that final particle size is screened consistently and reliably, KLEEMANN uses screens made from particularly wear-resistant spring steel wire or round wires.

Due to the double anchoring at the cross-overs, these screens have an additional fixed cross-over point that prevents wire drift and ensures a constant mesh size.



SCREENS MADE OF SPRING STEEL WIRE

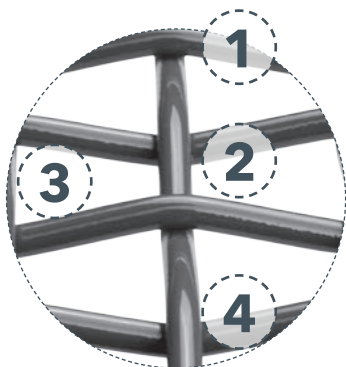
1 Screens made of spring steel wire are suitable for all screening machines.

2 Heavy-duty spring steel wire ensures highest elasticity at large vibratory stresses.

3 Large open screening area (MLW) is ideal for use with dry, damp and wet screen material and features an increased screening capacity.

4 Wires are deformed uniformly in warp and weft and keep their fixed wire position until final wear.

5 Clamp hooks for permanent fixing in the screen box provides ample support.





SCREENS MADE OF ROUND WIRES

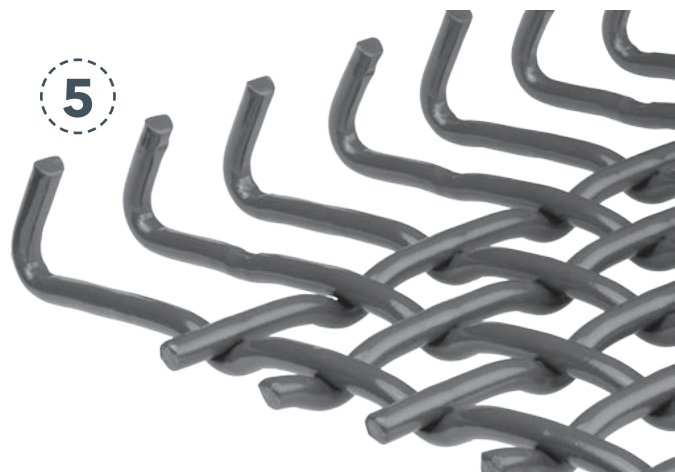
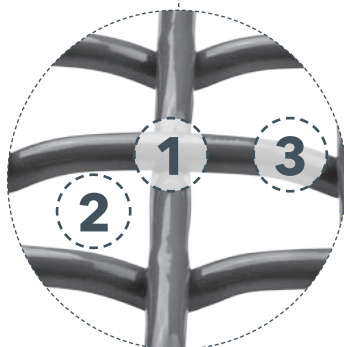
1 **High-strength round wires** (wire gauge) provide maximum strength and can be used from a wire thickness of 8.0 mm.

2 **Large open screen area** (MLW) provides a uniform classification.

3 **Warp and weft wires** are anchored at their intersections and create a smooth screen surface.

4 **Clamp hooks for permanent fixing in the screen box** and clamp hook on very heavy screens ensure best resistance to breakage.

5 **The mesh fabric is suitable for all screening machines** and ensures long service life.



WIRE MESH FOR LOWER DECK PROCESS SCREENS (PRESCREENS)

Machine type	Model	Series range	Screen*		
			Average mesh size (in mm)	Wire Ø (in mm)	Part No.
MC 100 R EVO, MC 100 Ri EVO	K002, K011	0002 - 9999	10	4	2291445
			12	4	2339205
			15	4	2339206
			18	4	2339207
			20	5	2339208
			25	6	2291447
			30	8	2339209
			35	8	2291449
			40	8	2339210
			45	8	2339211
			50	10	2339212
			55	10	2339213
			MC 110 R	K003	0001 - 9999
18	4	2232159			
20	6	2220614			
25	6	M20000541			
30	6	2224928			
35	8	M20000543			
40	8	2232160			
Blind rubber (UD)		F20006960			
MC 110 Z	K004	0001 - 9999	10	4	M20001709
			12	4	2245022
			15	4	M20001344
			18	4	M20001398
			20	5	M20001376
			25	6	M20000800
			28	6	2217706
			30	8	M20001522
			32	8	M20000632
			35	8	M20000315
			40	8	M20000373
			45	8	M20000393
			50	10	2234812
			55	10	2234813
Blind rubber (UD)		F20003969			
MC 110 R EVO, MC 110 Z EVO, MC 110 Ri EVO, MC 110 Zi EVO	K005, K006, K014, K015	0001 - 9999	10	4	2298547
			12	4	2298549
			15	4	2298550
			18	4	2298551
			20	5	2298552
			25	6	2298554
			30	8	2298555
			35	8	2298556
			40	8	2298557
			45	8	2298558
			50	10	2298559
			55	10	2298560
			Blind rubber (UD)		2318316
			MR 100 Z	K013	0001 - 9999
10	3	M20001179			
12	3	M10021509			
20	5	M20000325			
25	6	M20000350			
30	6	M20001142			
32	6	2289634			
35	8	M10016665			
40	6	2289635			
Blind rubber (UD)		F10410144			

* All other sizes and mesh types are available on request.
Please contact the relevant sales and service company.



Machine type	Model	Series range	Screen*		
			Average mesh size (in mm)	Wire Ø (in mm)	Part No.
MR 110 Z EVO	K017	0002 - 9999	10	4	M20001709
			12	4	2245022
			15	4	M20001344
			18	4	M20001398
			20	5	M20001376
			25	6	M20000800
			28	6	2217706
			30	8	M20001522
			32	8	M20000632
			35	8	M20000315
			40	8	M20000373
			45	8	M20000393
			50	10	2234812
			55	10	2234813
				Blind rubber (UD)	F20003969
MR 110 Z EVO 2, MR 110 Zi EVO 2	K018, K019	0001 - 9999	10	4	2335436
			12	4	2335438
			15	4	2335441
			18	5	2335547
			20	5	2335444
			25	6	2335446
			30	7	2335448
			32	8	2335450
			35	8	2335453
			40	8	2335455
			45	8	2335457
			50	8	2335459
			55	8	2335461
				Blind rubber (UD)	2351223
			MC 120 Z, MR 122 Z, MR 130 Z, MR 130 Z EVO	K007, K062, K024, K024	0001 - 9999, 0001 - 9999, 0001 - 0299, 0301 - 9999
10	4	M10010237			
12	4	2234790			
14	2,8	M10006015			
15	4	M10013885			
16	4	M10007592			
18	4	M10007005			
20	5	M10007905			
22	6	M10005821			
25	6	M10010004			
30	8	M20000033			
32	8	M10008122			
35	8	M10004739			
40	8	M10004738			
45	8	M10006092			
50	10	M10012445			
55	10	M10016328			
60	10	M20000339			
65	10	M20000040			
	Blind rubber (UD)	F10285544			
MR 130 Z EVO 2, MR 130 Zi EVO 2	K077, K078	0001 - 9999	10	4	2341115
			12	4	2298433
			15	4	2341117
			18	6	2341118
			20	6	2341119
			25	6	2298429
			30	8	2341120
			32	8	2341121
			35	8	2298424
			40	8	2341122
			45	8	2341123
			50	10	2341124
			55	10	2341126
				Blind rubber (UD)	2350858

* All other sizes and mesh types are available on request. Please contact the relevant sales and service company.



ORIGINAL KLEEMANN

WIRE MESH FOR CLASSIFYING SCREENS (POSTSCREENS)

Machine type	Model	Series range	Screen					
			Average mesh size (in mm)	Wire Ø (in mm)	Quantity	Part No.	Quantity	Part No.
MC 110 Z, MR 100 Z	K004, K013	0001 - 9999	13	4	2	M20001152		
			18	4	2	2194538		
			20	5	2	M20000146		
			25	6	2	M10021718		
			30	8	2	2234804		
			35	8	2	M20000147		
			40	8	2	M20000377		
			50	10	2	M20000799		
			55	10	2	M20000666		
			60	10	2	M20000273		
			65	10	2	M20000148		
MR 110 Z EVO, MR 110 Z EVO 2, MR 110 Zi EVO 2, MCO 9 S EVO, MCO 9 Si EVO	K017, K018, K019, K074, K075	0002 - 9999, 0001 - 9999, 0001 - 9999, 0001 - 9999, 0001 - 9999	10	4	4	2234836	1	2234837
			11	4	4	2220302	1	2220303
			12	4	4	M20001524	1	M20001523
			15	4	4	M20001533	1	M20001534
			16	4	4	2220306	1	2220305
			20	5	4	2234861	1	2234862
			22	6	4	2292815	1	2292816
			25	6	4	M20001411	1	M20001410
			30	8	4	2234867	1	2234871
			32	6	4	2292821	1	2292822
			35	8	4	2234878	1	2234880
			40	8	4	M20001405	1	M20001404
			45	8	4	M20001640	1	M20001639
			50	10	4	M20001370	1	M20001369
			55	10	4	M20001571	1	M20001579
			60	10	4	M20001716	1	M20001715
			65	10	4	M20001529	1	M20001530
70	10	4	M20001678	1	M20001679			
80	10	4	2202449	1	2202450			
90	10	4	2200097	1	2200098			



Machine type	Model	Series range	Screen					
			Average mesh size (in mm)	Wire Ø (in mm)	Quantity	Part No.	Quantity	Part No.
MR 130 Z	K024	0001 - 0299	12	4	2	M20000770		
			16	4	2	M10020584		
			18	5	2	M10019744		
			20	6	2	M10016387		
			28	6	2	M20000089		
			30	6	2	M20000082		
			35	8	2	M10015455		
			40	8	2	M10016477		
			45	8	2	M10016780		
			50	10	2	M10017445		
MR 130 Z EVO, MR 130 Z EVO 2, MR 130 Zi EVO 2	K024, K077, K078	0301 - 9999, 0001 - 9999, 0001 - 9999	8	3	4	2348799	1	2348798
			10	4	4	2208580	1	2208582
			11	4	4	2199916	1	2199927
			12	4	4	2234822	1	2234825
			13	4	4	2215643	1	2215644
			15	4	4	2212424	1	2212430
			16	4	4	M10006857	1	M20001562
			18	4	4	2193517	1	2193527
			20	5	4	M10003491	1	M20001561
			22	5	4	M10004471	1	2215293
			25	6	4	M20001551	1	M20001552
			28	6	4	M20001713	1	M20001714
			30	7	4	2234476	1	2234480
			35	8	4	M10003179	1	M20001254
			40	8	4	M10005149	1	M20000795
			45	8	4	M20001595	1	M20001596
			50	10	4	M20001298	1	M20001558
			55	10	4	M20001553	1	M20001554
			60	10	4	M20001555	1	M20001556
			65	10	4	M10010425	1	M20001560
70	10	4	M20001752	1	M20001753			
80	10	4	2202978	1	2202979			
90	10	4	2192479	1	2192481			

ORIGINAL KLEEMANN

WIRE MESH FOR MS SERIES

Machine type	Model	Series range	Deck	Screen					
				Average mesh size (in mm)	Wire Ø (in mm)	Quantity	Part No.	Quantity	Part No.
MS 12 Z	K067	0001 - 0222	Upper deck	30	6	1	2227279		
				40	8	1	2227283		
				45	8	1	2227285		
				50	10	1	2227287		
				55	10	1	M20001613		
				60	10	1	2227299		
				65	10	1	2227301		
				70	10	1	2227303		
				80	10	1	2227308		
				90	10	1	2227310		
		0223 - 9999	Upper deck	40	8	2	2531585		
				50	10	2	2529893		
				55	10	2	2529894		
				60	10	2	2529895		
				65	10	2	2529896		
				70	10	2	2529897		
				75	10	2	2529898		
				80	10	2	2529899		
				90	10	2	2529900		
				100	10	2	2529901		
		0001 - 9999	Lower deck	4	2	1	2313337	1	2313345
				7	3	1	2227324	1	2227344
				8	3	1	2216654	1	2216655
				9	3	1	2227329	1	2227347
				10	4	1	2227330	1	2227352
				11	4	1	2227332	1	2227353
				12	4	1	2227335	1	2227354
20	4			1	2228359	1	2227361		
25	5			1	2313339	1	2313343		
30	6			1	2227339	1	2227363		
40	8			1	2227341	1	2227367		
50	8	1	2227342	1	2227368				



Machine type	Model	Series range	Deck	Screen					
				Average mesh size (in mm)	Wire Ø (in mm)	Quantity	Part No.	Quantity	Part No.
MS 13 Z	K066	0001 - 9999	Upper deck	10	4	3	2227785		
				11	4	3	M20001622		
				12	4	3	2227768		
				16	4	3	2227771		
				18	5	3	2219139		
				20	5	3	2227772		
				25	5	3	2227774		
				30	6	3	2296423		
				32	6	3	2296425		
				40	8	3	M20001582		
				45	8	3	2227777		
				50	8	3	M20001386		
				55	8	3	M20001627		
				70	10	3	M20001605		
				80	10	3	2227781		
			90	10	3	2227783			
			Lower deck	7	3	2	2228390		
				8	3	2	2228391		
				9	3	2	2228393		
				10	3	2	2199248		
				11	3	2	2228394		
				12	3	2	M20001567		
				20	5	2	M20001473		
				25	5	2	M20001603		
				28	6	2	M20001599		
30	6	2		2228395					
40	8	2	M20001703						
45	8	2	2235994						
50	8	2	2228397						

ORIGINAL KLEEMANN

WIRE MESH FOR MS SERIES

Machine type	Model	Series range	Deck	Screen					
				Average mesh size (in mm)	Wire Ø (in mm)	Quantity	Part No.	Quantity	Part No.
MS 14 Z	K068	0001 - 9999	Upper deck	10	4	2	2227785	1	2227786
				11	4	2	M20001622	1	M20001621
				12	4	2	2227768	1	2227787
				16	4	2	2227771	1	2227789
				18	5	2	2219139	1	2219140
				20	5	2	2227772	1	2227790
				25	5	2	2227774	1	2227793
				30	6	2	2296423	1	2291875
				40	8	2	M20001582	1	M20001610
				45	8	2	2227777	1	2227797
				50	8	2	M20001386	1	2223200
				55	8	2	M20001627	1	2227799
				70	10	2	M20001605	1	M20001604
			80	10	2	2227781	1	2227809	
			90	10	2	2227783	1	2227810	
			Lower deck	7	3	1	2227633		
				8	3	1	2227634		
				9	3	1	2227635		
				10	4	1	2227636		
				11	4	1	2227637		
				12	4	1	2227638		
				20	4	1	M20001606		
				25	5	1	2227626		
30	6	1		2227627					
40	8	1		2227629					
45	8	1	2227630						



Machine type	Model	Series range	Deck	Screen					
				Average mesh size (in mm)	Wire Ø (in mm)	Quantity	Part No.	Quantity	Part No.
MS 15 Z	K047	0001 - 9999	Upper deck	4	1.6	4	M20001306		
				8	3	4	M10022614		
				9	3	4	M10023328		
				10	3	4	M20001496		
				11	4	4	M20001328		
				12	4	4	M20000872		
				13	4	4	M20000621		
				14	4	4	M20001027		
				15	4	4	M20001735		
				16	4	4	M20000833		
				18	4	4	M20001327		
				20	5	4	2234507		
				25	5	4	M20000958		
				30	8	4	2234516		
				35	8	4	M20001727		
				40	8	4	M20000625		
				45	8	4	M20000642		
				50	10	4	M20000686		
				55	10	4	M20000627		
				60	10	4	M20001065		
			65	10	4	M20000688			
			70	10	4	M20001400			
			80	10	4	2218851			
			90	10	4	2202934			
			Lower deck	7	3	3	2212560		
				8	3.2	3	M10025548		
				9	3	3	2210653		
				10	3	3	M20001734		
				11	3	3	2228347		
				12	3	3	2197550		
				15	4	3	2198322		
				18	4	3	M20001499		
				20	5	3	M20001453		
				25	5	3	M20001563		
				28	6	3	2244893		
30	6	3		M20001564					
32	6	3		2231937					
40	8	3		M20001449					
50	10	3		M20001760					
55	10	3	M20001719						
60	10	3	2246161						
65	10	3	M20001720						
70	70	3	2292450						



WIRE MESH FOR MS SERIES

Machine type	Model	Series range	Deck	Screen								
				Average mesh size (in mm)	Wire Ø (in mm)	Quantity	Part No.	Quantity	Part No.			
MS 16 D, MS 16 Z	K049, K048	0001 - 9999	Upper/ middle deck	8	3	1	2195300	3	M10022614			
				9	3	1	2195302	3	M10023328			
				10	3	1	M20001494	3	M20001496			
				11	4	1	2195323	3	M20001328			
				12	4	1	2195240	3	M20000872			
				13	4	1	M20000622	3	M20000621			
				14	4	1	2195335	3	M20001027			
				15	4	1	2195338	3	M20001735			
				16	4	1	2195342	3	M20000833			
				18	4	1	2195345	3	M20001327			
				20	5	1	2234505	3	2234507			
				25	5	1	M20001769	3	M20000958			
				30	8	1	2234515	3	2234516			
				35	8	1	M20001726	3	M20001727			
				40	8	1	M20000626	3	M20000625			
				45	8	1	M20000643	3	M20000642			
				50	10	1	M20000687	3	M20000686			
				55	10	1	M20000628	3	M20000627			
				60	10	1	M20001066	3	M20001065			
				65	10	1	M20000689	3	M20000688			
			70	10	1	M20001399	3	M20001400				
			80	10	1	2218853	3	2218851				
						Lower deck	5	2	2	M20001308		
							8	3	2	M20000761		
							9	3	2	2202935		
							10	4	2	2234498		
							11	3	2	M20001738		
							12	4	2	2234501		
							15	4	2	2201658		
							19	4	2	2198623		
			20	5	2		M20001081					
			25	5	2		M20000693					
			30	6	2	M20001352						
			40	8	2	M20000832						
			45	8	2	2226556						
			50	8	2	M20000817						



Machine type	Model	Series range	Deck	Screen								
				Average mesh size (in mm)	Wire Ø (in mm)	Quantity	Part No.	Quantity	Part No.			
MS 19 D, MS 19 Z	K055, K054	0001 - 9999	Upper/ middle deck	4	1.6	5	M20001306					
				8	3	5	M10022614					
				9	3	5	M10023328					
				10	3	5	M20001496					
				11	4	5	M20001328					
				12	4	5	M20000872					
				13	4	5	M20000621					
				14	4	5	M20001027					
				15	4	5	M20001735					
				16	4	5	M20000833					
				18	4	5	M20001327					
				20	5	5	2234507					
				25	5	5	M20000958					
				30	8	5	2234516					
				35	8	5	M20001727					
				40	8	5	M20000625					
				45	8	5	M20000642					
				50	10	5	M20000686					
				55	10	5	M20000627					
				60	10	5	M20001065					
			65	10	5	M20000688						
			70	10	5	M20001400						
			80	10	5	2218851						
			90	10	5	2202934						
			Lower deck				5	2	3	M20001308		
							8	3	3	M20000761		
							9	3	3	2202935		
							10	4	3	2234498		
							11	3	3	M20001738		
							12	4	3	2234501		
15	4	3					2201658					
19	4	3					2198623					
20	5	3					M20001081					
25	5	3					M20000693					
30	6	3					M20001352					
40	8	3					M20000832					
45	8	3					2226556					
50	8	3					M20000817					
MS 21 Z	K076	0001 - 9999					Upper deck	50	10	5	2298699	
			55	10	5	2298700						
			60	10	5	2298701						
			65	10	5	2298703						
			70	10	5	2298704						
			75	10	5	2298705						
			80	10	5	2298706						
			90	10	5	2298709						
			100	10	5	2298710						
			Lower deck					10	4	3	2298740	
							11	4	3	2298741		
							12	4	3	2298742		
							15	4	3	2298743		
							20	5	3	2298744		
							25	6	3	2298745		
							30	6	3	2298746		
							35	8	3	2298747		
			40	8	3	2298748						
50	8	3	2298749									



ORIGINAL KLEEMANN

HARP SCREENS (SMOOTH) FOR MS SERIES

This type of screen consists of smooth, gap-forming, longitudinal wires. The additional inherent vibration of the wires counteracts clogging and caking.

Harp screens are generally recommended in case of difficult-to-sift, moist and sticky materials.



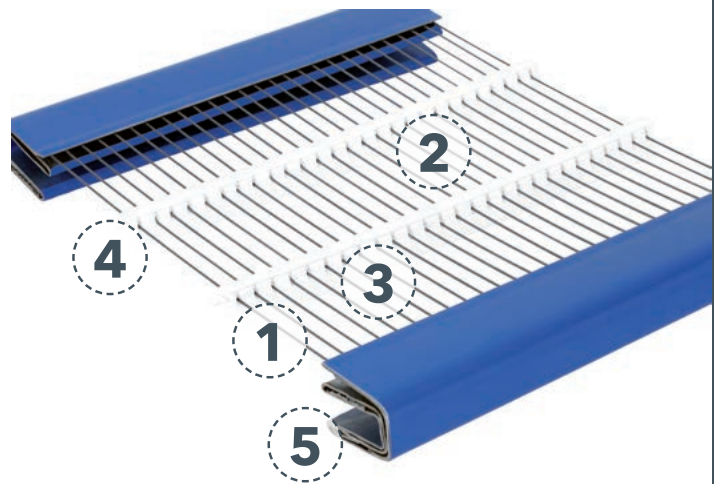
1 *Longitudinal wires made of spring steel ensure highest elasticity at large vibratory stresses.*

2 *The fixed gap width guarantees a substantial throughput rate.*

3 *A smooth screen provides for a long usable service life.*

4 *The flexible lateral connections ensure individualised adaptation to the cross-bars of the screen box.*

5 *Clamp hooks for permanent fixing in the screen box provide secure mounting.*





Machine type	Model	Series range	Wire mesh: lower deck					
			Average mesh size (in mm)	Wire Ø (in mm)	Quantity	Part No.	Quantity	Part No.
MS 12 Z-AD	K067	0001 - 9999	2.0	0.7	1	2414054	1	2414096
			3.0	0.8	1	2414059	1	2414097
			4.0	1.0	1	2414060	1	2414098
			5.0	1.0	1	2414063	1	2414099
			6.0	1.2	1	2414066	1	2414100
			7.0	1.4	1	2414067	1	2414101
			8.0	1.5	1	2414092	1	2414102
			10.0	1.5	1	2414093	1	2414103
			12.0	1.8	1	2414095	1	2414104
MS 13 Z-AD	K066	0001 - 9999	2.0	0.7	2	2414105		
			3.0	0.8	2	2414106		
			4.0	1.0	2	2414107		
			5.0	1.0	2	2414108		
			6.0	1.2	2	2414109		
			7.0	1.4	2	2414110		
			8.0	1.5	2	2414111		
			10.0	1.5	2	2414112		
			12.0	1.8	2	2414113		
MS 14 Z	K068	0001 - 9999	2.0	0.7	1	2414116		
			3.0	0.8	1	2414117		
			4.0	1.0	1	2414118		
			5.0	1.0	1	2414119		
			6.0	1.2	1	2414121		
			7.0	1.4	1	2414124		
			8.0	1.5	1	2414125		
			10.0	1.5	1	2414126		
			12.0	1.8	1	2414127		
MS 15 Z-AD	K047	0001 - 9999	2.0	0.7	3	2414132		
			3.0	0.8	3	2414134		
			4.0	1.0	3	2414135		
			5.0	1.0	3	2414136		
			6.0	1.2	3	2414138		
			7.0	1.4	3	2414141		
			8.0	1.5	3	2414142		
			10.0	1.5	3	2414143		
			12.0	1.8	3	2414145		
MS 16 Z, MS 16 D	K048, K049	0001 - 9999	2.0	0.7	2	2414148		
			3.0	0.8	2	2401395		
			4.0	1.0	2	2414149		
			5.0	1.0	2	2414150		
			6.0	1.2	2	2414151		
			7.0	1.4	2	2414152		
			8.0	1.5	2	2414153		
			10.0	1.5	2	2414154		
			12.0	1.8	2	2414155		
MS 19 Z, MS 19 D	K054, K055	0001 - 9999	2.0	0.7	3	2414148		
			3.0	0.8	3	2401395		
			4.0	1.0	3	2414149		
			5.0	1.0	3	2414150		
			6.0	1.2	3	2414151		
			7.0	1.4	3	2414152		
			8.0	1.5	3	2414153		
			10.0	1.5	3	2414154		
			12.0	1.8	3	2414155		



ORIGINAL KLEEMANN EMERGENCY KITS

Minor faults in the electrical system, such as burned-out fuses, tripped relays, damaged contacts or switches can interrupt operations on the construction site for long periods.

With the emergency kits for machine operators, which have been put together specially for every machine type, any such faults can be rectified quickly and cost-effectively.



1 > *Emergency-stop button*

2 > *Power contactor*

3 > *Relay*



Machine type	Model	Series range	Emergency kit	
			Version	Part No.
MC 100	K001	0001 - 9999	EU	F10616869
MC 110 R	K003	0001 - 9999	EU	F10617370
			US	F10617789
MC 110 R EVO	K005	0001 - 9999	EU	2328285
			US	2328282
MC 110 Z	K004	0001 - 9999	EU	F10617370
			US	F10617789
MC 110 Z EVO	K006	0001 - 9999	EU	2328285
			US	2328282
MC 120 Z	K007	0001 - 9999	EU	F10616879
MC 125	K008	0005 - 9999	EU	F10617369
MCO 9	K072	0001 - 9999	EU	2392714
MCO 9i	K073	0001 - 9999	US	2392715
MCO 9 S	K074	0001 - 9999	EU	2393158
MCO 9 Si	K075	0001 - 9999	US	2393159
MCO 11 PRO	K110	0001 - 9999	EU	2540693
MR 100 R	K012	0001 - 9999	EU	F10617389
MR 100 Z	K013	0001 - 9999	EU	F10617389
MR 110 R EVO, MR 110 Z EVO	K016, K017	0002 - 9999	EU	F60000092
			US	F60000093
MR 110 Z EVO 2	K018	0001 - 9999	EU	2385137
			US	2385140
MR 110 Zi EVO 2	K019	0001 - 9999	EU	2385137
			US	2385140
MR 122 Z	K062	0001 - 9999	EU	F10616889
MR 130 R, MR 130 R EVO	K023	0001 - 0199	EU	F10616479
		0200 - 9999	EU	F60000092
			US	F60000093
MR 130 Z, MR 130 Z EVO	K024	0001 - 0299	EU	F10616479
		0300 - 9999	EU	F60000092
			US	F60000093
MR 130 Z EVO 2, MR 130 Zi EVO 2	K077, K078	0001 - 9999	EU	2385137
			US	2385140
MS 20 Z-AD, MS 20 D	K056, K057	0001 - 9999	EU	F10617759

Due to possible technical changes, please always compare with the information in the instruction manual.

ORIGINAL KLEEMANN FILTER ELEMENTS AND FILTER PACKAGES

The quality, together with the optimised fuels and lubricants, which are perfectly matched to the filter systems, guarantee the necessary system purity, and consequently reduce operating costs to the minimum.

The table below gives you an overview of the contents in the different KLEEMANN filter packages.

Original KLEEMANN filter elements, with regular maintenance, form the basis for enormous productivity and guarantee the long service life of all components.

The packages contain all required filter components and seals, ideally adjusted to the maintenance interval and the respective machine.

Observe the respective emission standard when choosing the filter package for motors.



1 > Filter elements

2 > Filter package hydraulics 1000 h (example part no. F10615369)

3 > Filter package engine 500 h (example part no. 2270763)



FILTER PACKAGES HYDRAULIC

Machine type	Model	Series range	Replacement interval		
			500 h*	1000 h, 2000 h, 3000 h ...	2000 h
MC 100 R	K001	0001 - 9999	F10615349	F10615349	
MC 100 R EVO, MC 100 Ri EVO	K002, K011	0002 - 9999	2330204	2330206	
MC 110 R, MC 110 Z	K003, K004	0001 - 0199	F10615369	F10615369	
		0200 - 9999	F10631439	F10631439	
MC 110 R EVO, MC 110 Z EVO, MC 110 Ri EVO, MC 110 Zi EVO	K005, K006, K014, K015	0001 - 9999	2330204	2330206	
MC 120 Z	K007	0001 - 9999	F10615349	F10615349	
MC 125 Z	K008	0001 - 9999	F10615349	F10615349	
MR 100 R	K012	0001 - 9999	F10615379	F10615379	
MR 100 Z	K013	0001 - 9999	F10615379	F10615379	
MR 110 R, MR 110 Z	K016, K017	0002 - 9999	F10625559	F10625559	
MR 110 Z EVO 2, MR 110 Zi EVO 2	K018, K019	0001 - 9999	2378001	2378001	
MR 122 Z	K062	0001 - 9999	F10615349	F10615349	
MR 130 R V3	K023	0001 - 0199 (hydraulic drive)	F10615389	F10615389	
		0001 - 0199 (direct drive)	F10615349	F10615349	
MR 130 R EVO	K023	0200 - 9999	F10625559	F10625559	
MR 130 Z V3	K024	0001 - 0299 (hydraulic drive)	F10615389	F10615389	
		0001 - 0299 (direct drive)	F10615349	F10615349	
MR 130 Z EVO	K024	0300 - 9999	F10625559	F10625559	
MR 130 Z EVO 2, MR 130 Zi EVO 2	K077, K078	0001 - 9999	2378001	2378001	
MR 150 Z	K063	0001 - 9999	F10615349	F10615349	
MCO 9 EVO, MCO 9i EVO, MCO 9 S EVO, MCO 9 Si EVO	K072, K073, K074, K075	0001 - 9999	2390020	2393114	2390020
MCO 11 PRO	K110	0001 - 9999	2533774	2533780	2533774
MS 12 Z-AD	K067	0001 - 9999	2272932	2272932	
MS 13 Z-AD	K066	0001 - 9999	2272932	2272932	
MS 14 Z	K068	0001 - 9999	2272932	2272932	
MS 15 Z-AD	K047	0001 - 9999	2272932	2272932	
MS 16 Z	K048	0001 - 9999	2272932	2272932	
MS 16 D	K049	0001 - 9999	2272932	2272932	
MS 19 Z	K054	0001 - 9999	2272932	2272932	
MS 19 D	K055	0001 - 9999	2272932	2272932	
MS 21 Z	K076	0001 - 9999	2 x 2381036	2 x 2381036	

* First service

Due to possible technical changes, please always compare with the information in the instruction manual.

ORIGINAL KLEEMANN

FILTER ELEMENTS HYDRAULIC

Start kit, 2000 h	Content of kit	Kit 1000 h	Content of kit	Quantity	Designation
Part No.	Part No.	Part No.	Part No.		
F10615349	M10013434	F10615349	M10013434	2	Suction filter
	M10023066		M10023066	2	O-ring
	M10010834		M10010834	1	Return line filter
	M10023166		M10023166	1	O-ring
	M10010833		M10010833	1	Tank ventilation filter
F10615359	M10013434	F10615359	M10013434	2	Suction filter
	M10023066		M10023066	2	O-ring
	M10010834		M10010834	1	Return line filter
	M10023166		M10023166	1	O-ring
	M10010833		M10010833	1	Tank ventilation filter
	M10015766		M10015766	1	Circulating oil filter
F10615369	M10013434	F10615369	M10013434	2	Suction filter
	M10023066		M10023066	2	O-ring
	M10010834		M10010834	1	Return line filter
	M10023166		M10023166	1	O-ring
	M10010833		M10010833	1	Tank ventilation filter
	M10017619		M10017619	1	Circulating oil filter
2330204	2298731	2330206	2298731	1	Return flow filter insert
	2394264		2394264	1	O-ring
	2322467		2322467	1	Cartridge for oil filter - fluid coupling
	2329740		2329740	1	Tank ventilation filter
	M20001249			1	Suction filter element
	M20000893			1	USIT-Ring
	M20000892			1	O-ring
2378001	M20000892	2378001	M20000892	1	O-ring
	2298731		2298731	1	Return flow filter insert
	2328544		2328544	1	Sealing kit
	2377920		2377920	1	Fluid coupling filter cartridge
	2329740		2329740	1	Tank ventilation filter
	M20001249		M20001249	1	Suction filter element
	M20000893		M20000893	1	USIT-Ring
	2338455		2338455	1	Filter element
	2338451		2338451	1	Filter element



Start kit, 2000 h	Content of kit	Kit 1000 h	Content of kit	Quantity	Designation
Part No.	Part No.	Part No.	Part No.		
2330020	2298731	2393114	2298731	1	Return flow filter insert
	2394264		2394264	1	O-ring
	2329740		2329740	1	Tank ventilation filter
	2314926		2314926	1	Pressure filter cartridge
	2322467		2322467	1	Cartridge for oil filter - fluid coupling
	2343653		2343653	1	Filter element
	M10021744		M10021744	1	Filter
	M20001249			1	Suction filter element
	M20000893			1	USIT-Ring
	M20000892			1	O-ring
2330204	2298731	2330206	2298731	1	Return flow filter insert
	2394264		2394264	1	O-ring
	2322467		2322467	1	Cartridge for oil filter - fluid coupling
	2329740		2329740	1	Tank ventilation filter
	M20001249			1	Suction filter element
	M20000893			1	USIT-Ring
	M20000892			1	O-ring
2533774	M20001249	2533780		1	Suction filter element
	2314926		2314926	1	Pressure filter cartridge
	2529406		2529406	1	Sealing kit
	2338451		2338451	1	Filter element - in-line filter
	2529398		2529398	1	Sealing kit
	2298731		2298731	1	Return flow filter insert
	2329740		2329740	1	Tank ventilation filter
	2477842		2477842	1	Filter element - oil filter
	2513574		2513574	1	Filter element - filling ventilation filter
	M20000893		M20000893	1	USIT-Ring
2272932	M10022051	2272932	M10022051	1	Return line filter element
	M10020528		M10020528	1	Suction filter element 2"
	M10020520		M10020520	1	Suction filter element 1 1/2"
2381036	M10022051	2381036	M10022051	2	Return line filter element
	M10020528		M10020528	1	Suction filter element 2"
	M10020520		M10020520	2	Suction filter element 1 1/2"

Due to possible technical changes, please always compare with the information in the instruction manual.

ORIGINAL KLEEMANN

FILTER PACKAGES ENGINE

ACCORDING TO EXHAUST GAS STANDARDS

Exhaust gas standard stage 2A						
Machine type	Model	Series range	Filter package	Replacement interval		
				500 h*	800 h, 1200 h, 1600 h ...	2400 h, 4400 h, 6400 h ...
MC 100 R	K001	0001 - 0222	Engine Scania	2270754	2270747	2270754
MC 110 R	K003	0001 - 0216	Engine Scania	2270754	2270747	2270754
MC 110 Z	K004	0001 - 0254	Engine Scania	2270754	2270747	2270754
MC 120 Z	K007	0001 - 0226	Engine Scania	2270756	2270755	2270756
MC 125 Z	K008	0001 - 0210	Engine Scania	2270756	2270755	2270756
MR 100 R	K012	0001 - 9999	Engine Scania	2270756	2270755	2270756
MR 100 Z	K013	0001 - 9999	Engine Scania	2270756	2270755	2270756
MR 110 R EVO	K016	0001 - 0004	Engine Scania	2270756	2270755	2270756
MR 110 Z EVO	K017	0051 - 9999	Engine Scania	2270756	2270755	2270756
MR 122 Z	K062	0001 - 0218	Engine Scania	2270756	2270755	2270756
MR 130 R V3	K023	0001 - 0199	Engine Scania	2270756	2270755	2270756
MR 130 R EVO	K023	0200 - 0200	Engine Scania	2270756	2270755	2270756
MR 130 Z V3	K024	0001 - 0299	Engine Scania	2270756	2270755	2270756
MR 130 Z EVO	K024	0301 - 0356	Engine Scania	2270756	2270755	2270756
MR 150 Z	K063	0001 - 9999	Engine Scania	2270760	2270758	2270760

Exhaust gas standard stage 3A						
Machine type	Model	Series range	Filter package	Replacement interval		
				500 h*	1000 h, 1500 h, 2000 h ...	2500 h, 4500 h, 6500 h ...
MC 100 R	K001	0223 - 9999	Engine Scania	2270762	2270763	2270762
MC 110 R	K003	0217 - 9999	Engine Scania	2270764	2270763	2270764
MC 110 Z	K004	0255 - 9999	Engine Scania	2270764	2270763	2270764
MC 110 R EVO, MC 110 Z EVO	K005, K006	0001 - 9999	Engine Scania	2270762	2270763	2270762
MC 120 Z	K007	0227 - 9999	Engine Scania	2270764	2270763	2270764
MC 125 Z	K008	0211 - 9999	Engine Scania	2270764	2270763	2270764
MR 110 R EVO	K016	0005 - 9999	Engine Scania	2270764	2270763	2270764
MR 110 Z EVO	K017	0052 - 9999	Engine Scania	2270764	2270763	2270764
MR 110 Z EVO 2	K018	0001 - 9999	Engine Scania	2270764	2270763	2270764
MR 122 Z	K062	0219 - 9999	Engine Scania	2270764	2270763	2270764
MR 130 R EVO	K023	0201 - 9999	Engine Scania	2270764	2270763	2270764
MR 130 Z EVO	K024	0357 - 9999	Engine Scania	2270764	2270763	2270764
MR 130 Z EVO 2	K077	0001 - 9999	Engine Scania	2270764	2270763	2270764
MCO 9 EVO, MCO 9 S EVO	K072, K074	0001 - 9999	Engine Scania	2270762	2270763	2270762
MCO 11 PRO	K110	0001 - 9999	Engine Scania	2532465	2532466	2532465
MCO 13 H	K042	0001 - 0200	Engine Scania	2270766	2270765	2270766
		0201 - 9999	Engine Scania	2362836	2362830	2362836



Exhaust gas standard stage Tier 4i

Machine type	Model	Series range	Filter package	Replacement interval		
				250 h*	500 h, 750 h, 1000 h ...	3500 h, 6500 h, 9500 h ...
MS 12 Z-AD	K067	0001 - 9999	Engine CAT 4.4 74 kW		2512757	
MS 13 Z-AD	K066	0001 - 9999	Engine CAT 4.4 74 kW		2512757	
MS 14 Z	K068	0001 - 9999	Engine CAT 4.4 74 kW		2512757	
MS 15 Z-AD	K047	0001 - 9999	Engine CAT 4.4 74 kW		2512757	
			Engine CAT 4.4 97 kW		2512756	
MS 16 Z, MS 16 D	K048, K049	0001 - 9999	Engine CAT 4.4 74 kW		2512757	
MS 19 Z, MS 19 D	K054, K055	0001 - 9999	Engine CAT 4.4 97 kW		2512756	
MS 21 Z-AD	K076	0001 - 9999	Engine CAT 7.1 168 kW		2512758	

Exhaust gas standard stage 4F

Machine type	Model	Series range	Filter package	Replacement interval		
				500 h*	1000 h, 1500 h, 2000 h ...	2500 h, 4500 h, 6500 h ...
MC 110 Ri EVO, MC 110 Zi EVO	K014, K015	0001 - 9999	Engine Scania	2382644	2379004	2382644
MR 110 Zi EVO 2	K019	0001 - 9999	Engine Scania	2382642	2379004	2382642
MR 130 Zi EVO 2	K078	0001 - 9999	Engine Scania	2382642	2379004	2382642
MCO 9i	K073	0001 - 9999	Engine Scania	2382644	2379004	2382644
MCO 9 Si	K075	0001 - 9999	Engine Scania	2382644	2379004	2382644

Exhaust gas standard LRC

Machine type	Model	Series range	Filter package	Replacement interval		
				500 h*	1000 h, 1500 h, 2000 h ...	2500 h, 4500 h, 6500 h ...
MC 100 R	K001	0223 - 9999	Engine Scania	2270762	2270763	2270762
MC 110 R	K003	0217 - 9999	Engine Scania	2270764	2270763	2270764
MC 110 Z	K004	0255 - 9999	Engine Scania	2270764	2270763	2270764
MC 110 R EVO	K005	0001 - 9999	Engine Scania	2403247	2403244	2403247
MC 110 Z EVO	K006	0001 - 9999	Engine Scania	2403247	2403244	2403247
MC 120 Z	K007	0001 - 9999	Engine Scania	2403248	2403244	2403248
MC 140 Z	K061	0200 - 9999	Engine Scania	2362836	2362830	2362836
MR 110 R EVO	K016	0005 - 9999	Engine Scania	2270764	2270763	2270764
MR 110 Z EVO	K017	0052 - 9999	Engine Scania	2270764	2270763	2270764
MR 110 Z EVO 2	K018	0001 - 9999**	Engine Scania	2403248	2403244	2403248
MR 122 Z	K062	0001 - 9999	Engine Scania	2403248	2403244	2403248
MR 130 R EVO	K023	0201 - 9999	Engine Scania	2270764	2270763	2270764
MR 130 Z EVO	K024	0357 - 9999	Engine Scania	2270764	2270763	2270764
MR 130 Z EVO 2	K077	0001 - 9999	Engine Scania	2403248	2403244	2403248
MCO 9	K072	0001 - 9999	Engine Scania	2403247	2403244	2403247
MCO 9 S	K074	0001 - 9999	Engine Scania	2403247	2403244	2403247
MCO 13	K042	0201 - 0999	Engine Scania	2362836	2362830	2362836

* First service · ** with the K018 serial numbers: 0015, 0013, 0014, 0012, 0010 the filter kit 2403244/2403248 is utilised.
Due to possible technical changes, please always compare with the information in the instruction manual.

ORIGINAL KLEEMANN

FILTER PACKAGES ENGINE

ACCORDING TO EXHAUST GAS STANDARDS

Exhaust gas standard Deutz						
Machine type	Model	Series range	Filter package	Replacement interval		
				500 h*	1000 h, 1500 h, 2000 h ...	2500 h, 4500 h, 6500 h ...
MC 100 REVO	K002, K011	0002 - 9999	Engine Deutz	2396001	2396000	2396001

Exhaust gas standard Tier 3						
Machine type	Model	Series range	Filter package	Replacement interval		
				250 h*	500 h, 750 h, 1000 h ...	3500 h, 6500 h, 9500 h ...
MC 110 R, MC 110 Z	K003, K004	0001 - 9999	Engine CAT	2270779	2270778	2270779
MC 120 Z	K007	0001 - 9999	Engine CAT	2270782	2270780	2270782
MR 110 REVO, MR 110 Z EVO	K016, K017	0001 - 9999	Engine CAT	2270782	2270780	2270782
MR 122 Z	K062	0001 - 9999	Engine CAT	2270772	2270771	2270772
MR 130 REVO	K023	0200 - 9999	Engine CAT	2270772	2270771	2270772
MR 130 Z EVO	K024	0301 - 9999	Engine CAT	2270772	2270771	2270772
MS 12 Z-AD	K067	0001 - 9999	Engine JCB		2226638	
			Engine CAT 4.4 74 kW		2304910	
MS 13 Z-AD	K066	0001 - 9999	Engine CAT 4.4 74 kW		2304910	
			Engine CAT 4.4 97 kW		2226637	
MS 14 Z	K068	0001 - 9999	Engine JCB		2226638	
			Engine CAT 4.4 74 kW		2304910	
MS 15 Z-AD	K047	0001 - 9999	Engine CAT 3054		2226635	
			Engine CAT 4.4 74 kW		2304910	
			Engine CAT 4.4 97 kW		2226637	
MS 16 Z	K048	0001 - 9999	Engine CAT 3054		2226635	
			Engine CAT 4.4 74 kW		2304910	
MS 16 D	K049	0001 - 9999	Engine CAT 3054		2226635	
			Engine CAT 4.4 74 kW		2304910	
MS 19 Z	K054	0001 - 9999	Engine CAT 3054		2226635	
			Engine CAT 4.4 97 kW		2226637	
MS 19 D	K055	0001 - 9999	Engine CAT 3054		2226635	
			Engine CAT 4.4 97 kW		2226637	
MS 21 Z	K076	0001 - 9999	Engine CAT 6.6		2325954	



FILTER ELEMENTS FOR ENGINE

Exhaust gas stage	Engine type	Start kit, 2000 h		Kit 500 h		Quantity	Designation
		Part No.	Content of kit Part No.	Part No.	Content of kit Part No.		
Stage 2	SCANIA DC 9	2270754	M10023340	2270747	M10023340	1	Air filter 10.6 m ²
			M10023339		M10023339	1	Air filter - safety element
			M10021220		M10021220	1	Fuel filter
			2270642		2270642	1	O-ring
			M10018061		M10018061	1	Fuel filter with water separator
			M10015718		M10015718	1	Oil filter with seal
			M10022114		M10022114	1	O-ring for centrifugal cleaner
			M10021823		M10021823	1	O-ring cover for centrifugal cleaner
			2473175		2473175	1	Paper insert for oil centrifuge
			2198943			5	Valve cover seal
			M10021217			1	Crankcase ventilation
	SCANIA DC 12	2270756	M10014789	2270755	M10014789	1	Air filter 16 m ²
			M10014788		M10014788	1	Air filter - safety element
			M10016955		M10016955	1	Fuel filter + O-ring
			M10018061		M10018061	1	Fuel filter with water separator
			M10015718		M10015718	1	Oil filter with seal
			M10022114		M10022114	1	O-ring for centrifugal cleaner
			M10021823		M10021823	1	O-ring cover for centrifugal cleaner
			2473175		2473175	1	Paper insert for oil centrifuge
			M10025316			6	Valve cover seal (until motor no. 6521647)
			2198943			6	Valve cover seal (from motor no. 6521648)
			M10025547			1	Crankcase ventilation
	SCANIA DC 16	2270760	M10014789	2270758	M10014789	1	Air filter 16 m ²
			M10014788		M10014788	1	Air filter - safety element
			M10021220		M10021220	1	Fuel filter
			2270642		2270642	1	O-ring
			M10018061		M10018061	1	Fuel filter with water separator
			2270637		2270637	1	Oil filter with O-ring
			M10021822		M10021822	1	O-ring for centrifugal cleaner
			2473175		2473175	1	Paper insert for oil centrifuge
			M10021823			1	O-ring cover for centrifugal cleaner
			2198943			8	Valve cover seal
			2270622			1	Crankcase ventilation

Due to possible technical changes, please always compare with the information in the instruction manual.

ORIGINAL KLEEMANN

FILTER ELEMENTS FOR ENGINE

Exhaust gas stage	Engine type	Start kit, 2000 h		Kit 500 h		Quantity	Designation		
		Part No.	Content of kit Part No.	Part No.	Content of kit Part No.				
Stage 3A with LRC	SCANIA DC 9	2270762	2244012	2270763	2244012	1	Air filter 15"		
			2244013		2244013	1	Air filter - safety element		
			M10021220		M10021220	1	Fuel filter		
			2270642		2270642	1	O-ring		
			M10018061		M10018061	1	Fuel filter with water separator		
			2244014		2244014	1	Oil filter with O-ring		
			M10022114		M10022114	1	O-ring for centrifugal cleaner		
			M10021823		M10021823	1	O-ring cover for centrifugal cleaner		
			2473175		2473175	1	Paper insert for oil centrifuge		
			2198943			5	Valve cover seal		
	SCANIA DC 13	2532465		2244012	2532466	2244012	1	Air filter 15"	
				2244013		2244013	1	Air filter - safety element	
				M10016955		M10016955	1	Fuel filter + O-ring	
				M10018061		M10018061	1	Fuel filter with water separator	
				2244014		2244014	1	Oil filter with O-ring	
				M10022114		M10022114	1	O-ring for centrifugal cleaner	
				M10021823		M10021823	1	O-ring cover for centrifugal cleaner	
				2473175		2473175	1	Paper insert for oil centrifuge	
				2198943			6	Valve cover seal	
		2270764			2244012	2270763	2244012	1	Air filter 15"
					2244013		2244013	1	Air filter - safety element
					M10021220		M10021220	1	Fuel filter
					2270642		2270642	1	O-ring
					M10018061		M10018061	1	Fuel filter with water separator
					2244014		2244014	1	Oil filter with O-ring
					M10022114		M10022114	1	O-ring for centrifugal cleaner
					M10021823		M10021823	1	O-ring cover for centrifugal cleaner
					2473175		2473175	1	Paper insert for oil centrifuge
	2198943		6	Valve cover seal					
	SCANIA DC 16	2270766		2244012	2270765	2244012	1	Air filter 15"	
				2244013		2244013	1	Air filter - safety element 15"	
				2272406		2272406	1	Fuel filter + O-ring	
				M10018061		M10018061	1	Fuel filter with water separator	
				2270637		2270637	1	Oil filter with O-ring	
				M10022114		M10022114	1	O-ring for centrifugal cleaner	
				M10021823		M10021823	1	O-ring cover for centrifugal cleaner	
				2473175		2473175	1	Paper insert for oil centrifuge	
				2198943			8	Valve cover seal	
				SCANIA DC 16		2362836		2297731	2362830
	2297735	2297735	1		Air filter - safety element 18"				
2272406	2272406	1	Fuel filter + O-ring						
M10018061	M10018061	1	Fuel filter with water separator						
2270637	2270637	1	Oil filter with O-ring						
M10022114	M10022114	1	O-ring for centrifugal cleaner						
M10021823	M10021823	1	O-ring cover for centrifugal cleaner						
2473175	2473175	1	Paper insert for oil centrifuge						
2198943		8	Valve cover seal						

Due to possible technical changes, please always compare with the information in the instruction manual.



Exhaust gas stage	Engine type	Start kit, 2000 h		Kit 500 h		Quantity	Designation
		Part No.	Content of kit Part No.	Part No.	Content of kit Part No.		
LRC only	SCANIA DC 9	2403247	2244012	2403244	2244012	1	Air filter 15"
			2244013		2244013	1	Air filter - safety element
			M10021220		M10021220	1	Fuel filter
			2270642		2270642	1	O-ring
			2345569		2345569	1	Fuel filter with water separator LRC
			2244014		2244014	1	Oil filter with O-ring
			M10022114		M10022114	1	O-ring for centrifugal cleaner
			M10021823		M10021823	1	O-ring cover for centrifugal cleaner
			2473175		2473175	1	Paper insert for oil centrifuge
			2198943			5	Valve cover seal
	SCANIA DC 13	2403248	2403244	2244012	2244012	1	Air filter 15"
				2244013	2244013	1	Air filter - safety element
				M10021220	M10021220	1	Fuel filter
				2270642	2270642	1	O-ring
				2345569	2345569	1	Fuel filter with water separator LRC
				2244014	2244014	1	Oil filter with O-ring
				M10022114	M10022114	1	O-ring for centrifugal cleaner
				M10021823	M10021823	1	O-ring cover for centrifugal cleaner
				2473175	2473175	1	Paper insert for oil centrifuge
				2198943		6	Valve cover seal
Stage 4F	SCANIA DC 9	2382644	2379004	2244012	2244012	1	Air filter 15"
				2244013	2244013	1	Air filter - safety element 15"
				2378595	2378595	1	Fuel filter + O-ring
				2378597	2378597	1	Reducing agent filter element
				2244014	2244014	1	Oil filter with O-ring
				M10022114	M10022114	1	O-ring for centrifugal cleaner
				M10021823	M10021823	1	O-ring cover for centrifugal cleaner
				2473175	2473175	1	Paper insert for oil centrifuge
				2381592		5	Valve cover seal
				SCANIA DC 13	2382642	2379004	2244012
	2244013	2244013	1				Air filter - safety element 15"
	2378595	2378595	1				Fuel filter + O-ring
	2378597	2378597	1				Reducing agent filter element
	2244014	2244014	1				Oil filter with O-ring
	M10022114	M10022114	1				O-ring for centrifugal cleaner
	M10021823	M10021823	1				O-ring cover for centrifugal cleaner
	2473175	2473175	1				Paper insert for oil centrifuge
	2381592		6				Valve cover seal

Due to possible technical changes, please always compare with the information in the instruction manual.

ORIGINAL KLEEMANN

FILTER ELEMENTS FOR ENGINE

Exhaust gas stage	Engine type	Start kit, 2000 h		Kit 500 h		Quantity	Designation	
		Part No.	Content of kit Part No.	Part No.	Content of kit Part No.			
Stage 3A	DEUTZ	2396001	2357645	2396000	2357645	1	Air filter	
			2357877		2357877	1	Air filter - safety element	
			2041593		2041593	2	Fuel filter	
			2175352		2175352	1	Fuel filter with water separator	
			2185177		2185177	1	Oil filter with O-ring	
			2401259			1	Valve cover seal	
Tier 3A	CAT C9	2270779	M10021850	2270778	M10021850	1	Oil filter	
			M10023349		M10023349	1	Air filter outside	
			M10021852		M10021852	1	Air filter inside (safety cartridge)	
			M10023342		M10023342	1	Fuel filter element - diesel engine	
			M10023343		M10023343	1	Filter element - water separator	
			2270663			1	Valve cover seal	
	CAT C11	2270782	2270780	M10021850	2270780	M10021850	1	Oil filter
				M10021851		M10021851	1	Air filter outside
				M10021852		M10021852	1	Air filter inside (safety cartridge)
				M10021853		M10021853	1	Fuel filter element - diesel engine
				M10023343		M10023343	1	Filter element - water separator
				2270654			1	Valve cover seal
	CAT C13	2270772	2270771	M10021850	2270771	M10021850	1	Oil filter
				M10021851		M10021851	1	Air filter outside
				M10021852		M10021852	1	Air filter inside (safety cartridge)
				M10021853		M10021853	1	Fuel filter element - diesel engine
				M10023343		M10023343	1	Filter element - water separator
				2270654			1	Valve cover seal

Due to possible technical changes, please always compare with the information in the instruction manual.



Engine type	Machine type	Engine power	Kit	Content of kit	Quantity	Designation
			Part No.	Part No.		
CAT 3054	MS 15 Z-AD, MS 16 Z/D, MS 19 Z/D	74 kW	2226635	M10020466	1	Air filter inside
				M10020467	1	Air filter outside
				M10020568	1	Fuel filter
				M10020569	1	Fuel water separator - separator element
				M10020481	1	Oil filter
CAT 4.4	MS 13 Z-AD, MS 15 Z-AD, MS 19 Z/D	95 kW	2226637	M10023404	1	Air filter inside
				M10023405	1	Air filter outside
				M10023412	2	Fuel filter
				M10023413	1	Fuel water separator - separator element
				M10020481	1	Oil filter
CAT 4.4	MS 12 Z-AD, MS 13 Z-AD, MS 14 Z, MS 15 Z-AD, MS 16 Z/D	74 kW	2304910	M10023405	1	Air filter outside
				M10023404	1	Air filter inside
				M10020568	1	Fuel filter
				M10020569	1	Fuel water separator - separator element
				M10020481	1	Oil filter
CAT C6.6	MS 21 Z-AD	165 kW	2325954	2324103	1	Air filter inside
				2324104	1	Air filter outside
				M10023412	1	Fuel filter
				M10023413	1	Fuel water separator - separator element
				2324106	1	Oil filter
CAT 4.4 Tier 4(i)	MS 12 Z-AD, MS 13 Z-AD, MS 14 Z, MS 15 Z-AD, MS 16 Z/D	74 kW	2512757	M10023405	1	Air filter outside
				M10023404	1	Air filter inside
				2455064	1	Fuel filter
				2512736	1	Fuel filter
				2455066	1	Fuel water separator - separator element
				M10020481	1	Oil filter
CAT 4.4 Tier 4(i)	MS 15 Z-AD, MS 19 Z/D	95 kW	2512756	M10023405	1	Air filter outside
				M10023404	1	Air filter inside
				2455064	1	Fuel filter
				2512736	2	Fuel filter
				2455066	1	Fuel water separator - separator element
				M10020481	1	Oil filter
CAT 7.1 Tier 4(i)	MS 21 Z-AD	165 kW	2325954	2324103	1	Air filter inside
				2324104	1	Air filter outside
				M10023412	1	Fuel filter
				M10023413	1	Fuel water separator - separator element
				2324106	1	Oil filter
JCB	MS 12 Z-AD, MS 14 Z	63 kW	2226638	M10024995	1	Air filter inside
				M10024996	1	Air filter outside
				M10024997	1	Fuel filter
				M10024998	1	Fuel water separator - separator element
				M10024999	1	Oil filter

Due to possible technical changes, please always compare with the information in the instruction manual.



ORIGINAL WIRTGEN GROUP LUBRICANTS

PREMIUM LUBRICANTS

WIRTGEN GROUP lubricants combine the best possible basic oils and unique additives in customised specifications. The advantages for you:

- > Compatibility with the first filling
- > Optimum protection against wear
- > Perfect protection against corrosion
- > Traceability in the event of damage

WIRTGEN GROUP lubricants consequently improve the performance and service life of your machines while at the same time durably cutting their running costs. The sensible way to save money!

ONE-STOP SUPPLY

All WIRTGEN GROUP machines - whether WIRTGEN milling machine, VÖGELE paver, HAMM roller or KLEEMANN plant can be filled and lubricated with the corresponding WIRTGEN GROUP lubricant for each application (exceptions are indicated).

Together with the carefully coordinated mixture of container sizes, this results in optimised ordering, storage and filling processes.

ACCESSORIES FOR FILLING AND LUBRICATION

Practical and well-tried accessories "made in Germany", such as canister pumps and grease guns, are available to assist you in filling and lubricating your machines.





ACCESSORIES FOR FILLING AND LUBRICATION

Oil pumps

1 > Hand pump for 20-l canisters

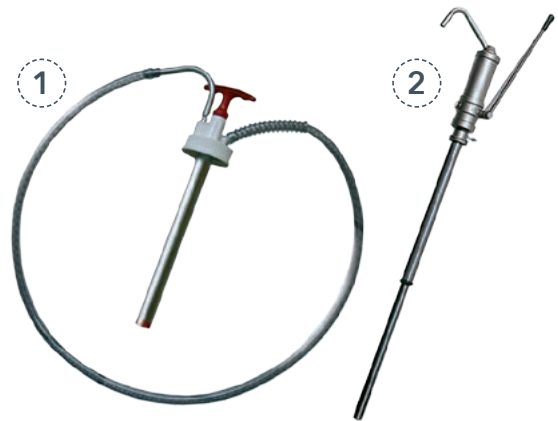
Part No.: 2065044

- Piston pump
- Delivery hose with spring-loaded spiral and anti-kink spring
- Non-drip spout with holder
- Foot valve

2 > Lever-operated hand pump for 208-l barrels

Part No.: 2065045

- Made of metal
- Telescoping intake tube
- Pivotal delivery manifold
- Delivery capacity: 0.2l/stroke



Filling cylinder and grease presses

1 > Filling cylinder

Part No.: 2065046 (500g)

Part No.: 2065047 (1000g)

- Made of metal
- Flexible hose

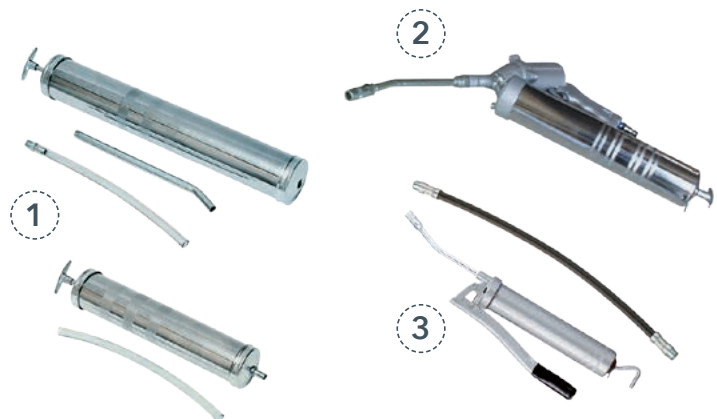
2 > Grease press/grease gun

Part No.: 2065049

- Made of metal
- High pressure output
- Size: 400-g cartridge

3 > Lever-operated hand grease press

Part No.: 2065048



Filling cans and funnels

1 > Filling cans

Part No.: 2065041 (1l)

Part No.: 2065042 (2l)

Part No.: 2065043 (5l)

- Flexible spout
- Complete with lid
- Different sizes

2 > Filling funnels

Part No.: 2065039 (180mm)

Part No.: 2065040 (220mm)

- Transparent plastic material
- Complete with lid
- Different diameters



ORIGINAL WIRTGEN GROUP

LUBRICANTS IN DETAIL

Engine oil			
Designation	Description	Container	Part No.
WIRTGEN GROUP Engine Oil 15W-40	Powerful high-performance engine oil made from excellent basic oils and special additives. Increases the performance output of your engine while at the same time ensuring maximum operational reliability.	5 l	2065020
		20 l	2065025
		208 l	2065026
		1000 l IBC	2118572
WIRTGEN GROUP Engine Oil 10W-40	The smooth-running engine oil produced using modern synthesis technology with outstanding wear protection and cleaning characteristics is suitable for excellent and safe operating properties. Enables longer maintenance intervals as approved by the engine manufacturer.	5 l	2112355
		20 l	2112354
		208 l	2219171
		1000 l IBC	2118569
WIRTGEN GROUP Engine Oil "Low SAPS" 10W-30	Semi-synthetic "Low SAPS" engine oil (low sulphated ash, sulphur and phosphorous content) with fuel economy technology. Its low sulphate ash content ensures that burnt oil particles do not prematurely clog the emissions aftertreatment particle filter (DPF).	5 l	2210320
		20 l	2210322
		208 l	2210323
		1000 l IBC	2118570
WIRTGEN GROUP Engine Oil "Low SAPS" 10W-40 MB	The very latest synthetic diesel engine oil, extremely high performance, "Low SAPS" (lower levels of sulphur, sulphated ash and phosphor). The engine oil has been specially developed for use in all diesel engines with particle filters (DPF) and SCR systems (AdBlue®). Helps protect the environment by reducing harmful emissions.	5 l	2346869
		20 l	2346870
		208 l	2346871

Hydraulic oil			
Designation	Description	Container	Part No.
WIRTGEN GROUP Clutch Fluid 32	High-performance hydraulic fluid for use in couplers of KLEEMANN machines.	5 l	2268030
		20 l	2268032
WIRTGEN GROUP Hydraulic Oil HVLP 32	High-grade multi-range hydraulic oil with zinc for optimum protection against wear, even in the most difficult service conditions. Thanks to its enhanced specifications, it can be used with long replacement intervals.	20 l	2118573
WIRTGEN GROUP Hydraulic Oil HVLP 46	High-grade multi-range hydraulic oil with zinc for optimum protection against wear, even in the most difficult service conditions. Thanks to its enhanced specifications, it can be used with long replacement intervals.	20 l	2065028
		208 l	2065029
		1000 l IBC	2118571
WIRTGEN GROUP Hydraulic Oil HVLP 68	High-grade multi-range hydraulic oil with zinc for optimum protection against wear, even in the most difficult service conditions. Thanks to its enhanced specifications, it can be used with long replacement intervals.	20 l	2118574

Due to possible technical changes, please always compare with the information in the instruction manual.



Bio hydraulic oil			
Designation	Description	Container	Part No.
WIRTGEN GROUP Bio Hydraulic Oil 46	Easily biodegradable multi-use hydraulic oil made from all-synthetic esters and ash-free additives results in excellent lubricating properties and protects the environment. Bears the ecolabel for lubricants of the EU.	20 l	2118575
		208 l	2270558
WIRTGEN GROUP Bio Hydraulic Oil 68	Easily biodegradable multi-use hydraulic oil made from all-synthetic esters and ash-free additives results in excellent lubricating properties and protects the environment. Bears the ecolabel for lubricants of the EU.	20 l	2124179

Gear oil			
Designation	Description	Container	Part No.
WIRTGEN GROUP Gear Oil 85W-90	Mineral gear oil of the latest generation for versatile use in gearboxes and axle drives. Stands out through maximum protection against wear and oxidation. Note: Must not be used for WIRTGEN milling drum gearboxes, HAMM vibratory bearings and drum drives as well as for VÖGELE pump splitter gearboxes and travel drives.	5 l	2065030
		20 l	2065031
		208 l	2065032
WIRTGEN GROUP Multi Gear Oil VG 220	Mineral-oil based high-performance gear oil with EP (extreme pressure) additives offers very good wear protection and excellent performance in gearboxes. Recommended for use in KLEEMANN cone crushers MCO 9 EVO and MCO 11 PRO.	20 l	2483282
		208 l	2483283
WIRTGEN GROUP Special Gear Oil	Special all-synthetic high-performance gear oil for HAMM vibratory bearings and drum drives, VÖGELE pump splitter gearboxes and advance drives and KLEEMANN advance drives. Extremely resistant to pressure and temperature. Note: Must not be mixed with mineral gear oil. Must not be used for WIRTGEN milling drum gearboxes.	5 l	1238051
		20 l	2065037
		208 l	2065038
WIRTGEN GROUP High-Performance Gear Oil VG 150	Exclusive all-synthetic gear oil designed for heavy-duty use in WIRTGEN milling drum gearboxes. Extremely resistant to pressure and temperature. Note: Never mix with mineral gear oil. Must not be used for HAMM vibratory bearings and drum drives.	5 l	2173019
		20 l	199752
		208 l	2120829
WIRTGEN GROUP High-Performance Gear Oil VG 220	Exclusive all-synthetic gear oil designed for heavy-duty use in WIRTGEN milling drum gearboxes and KLEEMANN belt and bevel gearboxes. Extremely resistant to pressure and temperature. Note: Never mix with mineral gear oil. Must not be used for HAMM vibratory bearings and drum drives.	5 l	2170074
		20 l	2065033
		208 l	2065034
WIRTGEN GROUP High-Performance Gear Oil VG 460	Exclusive all-synthetic gear oil designed for heavy-duty use in WIRTGEN hot recyclers and S-Pack binding agent dosing unit. Note: Never mix with mineral gear oil. Must not be used for HAMM vibratory bearings and drum drives.	5 l	2461524
		20 l	2120830

Due to possible technical changes, please always compare with the information in the instruction manual.

ORIGINAL WIRTGEN GROUP

LUBRICANTS IN DETAIL

Grease			
Designation	Description	Container	Part No.
WIRTGEN GROUP Multipurpose Moly Grease	Highly refined black multipurpose grease for a wide range of lubricating jobs, such as on link pins and wheel bearings. State-of-the-art additive technology makes this product particularly suitable for use in conditions subject to impacts and vibration.	400 g	2065035
WIRTGEN GROUP High-Performance Grease	Premium multipurpose grease for use in WIRTGEN GROUP machines, e.g. in clutches and WIRTGEN remixers. It is particularly suitable for use under high temperatures and high loads.	400 g	47259
WIRTGEN GROUP High-Performance Grease KLEEMANN	Grease for KLEEMANN screen mounts.	400 g	M10021195
WIRTGEN GROUP Friction and Roller Bearing Grease	Exclusive grease for lubricating rolling and plain bearings exposed to high temperatures in VÖGELE machines.	18 kg	2027868
		12 x 400 g	2086136
WIRTGEN GROUP Telescoping Tube Grease	Special high-performance grease based on silicone for use on VÖGELE telescoping tubes.	100 g	2086137
WIRTGEN GROUP Low-Viscosity Grease	Thermally stable, high-performance low-viscosity grease with exceptional wear-resistance properties for VÖGELE auger drives.	5 kg	2050152
WIRTGEN GROUP Drum Bearing Grease	Exclusive grease for lubricating HAMM drum bearings. Extremely resistant to temperature and pressure.	1 kg	1205757
WIRTGEN GROUP Drive Bearing Grease	Special high-performance grease for use in HAMM drive bearings. Extremely resistant to pressure and water-repellent.	1 kg	1227114
WIRTGEN GROUP Quick-Change Toolholder Grease	Lubricant for greasing the WIRTGEN quick-change toolholder.	480 g	2310279
WIRTGEN GROUP Cone Moly Grease	Special high-performance grease for use in KLEEMANN cone crushers.	400 g	2342967

Other			
Designation	Description	Container	Part No.
WIRTGEN GROUP Asphalt Anti Stick	Perfect solution for HAMM rubber and combined wheel rollers: It prevents adhesion of the bitumen on the rubber tyres. The emulsion is based on a non-toxic solution and is thus rapidly biodegradable.	5 l	2117378
		20 l	2117379
WIRTGEN GROUP Antifreezing Compound	Coolants, anti-freeze and anti-corrosion agents. Note: Do not use 09WR (WR 200) or for KLEEMANN units.	5 l	2173022
		20 l	2173023
		208 l	2173024
WIRTGEN GROUP Antifreezing Compound MB	Coolants, anti-freeze and anti-corrosion agents for Mercedes Benz diesel engines; only for 09WR (WR 200).	210 l	2301878
WIRTGEN GROUP Antifreezing Compound KLEEMANN	Coolants, anti-freeze and anti-corrosion agents for KLEEMANN units	20 l	2535933
WIRTGEN GROUP Silicone Transformer Liquid	DOW transformer oil can be used in the magnetic separator in KLEEMANN systems.	20 l	2346389
AdBlue®	32.5% high-purity urea solution in compliance with AUS 32.	10 l	2434706
		210 l	2090870



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BENNINGHOVEN GMBH & CO. KG

ASPHALT MIXING PLANTS FOR ROLLED AND MASTIC ASPHALT





CORE COMPETENCE MIXING	450			
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ORIGINAL BENNINGHOVEN CORE COMPETENCE MIXING

ASPHALT MANUFACTURE - IT'S IN THE MIX

A thermal mixing process is required to produce asphalt for road construction from aggregate and bitumen. An asphalt mixing plant is essential for this purpose. BENNINGHOVEN offers the right solution for all market requirements, whether you need a mobile, transportable or stationary plant.

There is a basic distinction between two different production processes in asphalt manufacture: continuous production and non-continuous production.

CONTINUOUS PROCESS

In continuous production, the mixing process takes place in an uninterrupted cycle with the individual components added to the mixture on a continuous basis. This process is eminently suitable for major construction projects using an unvarying mixture.





NON-CONTINUOUS PROCESS

In non-continuous production, previously weighed asphalt mix components are blended in an asphalt mixer in batches based on a formula. This process is more flexible since it is possible to change the mix formula in each batch. A greater mix quality is also attained as more precise quantities can be added and mixing times or cycles adjusted.

BENNINGHOVEN supplies plants for non-continuous production, also known as batch systems, in the following output configurations:

- > 160 t/h - 2-t mixer
- > 240 t/h - 3-t mixer
- > 320 t/h - 4-t mixer
- > 400 t/h - 5-t mixer

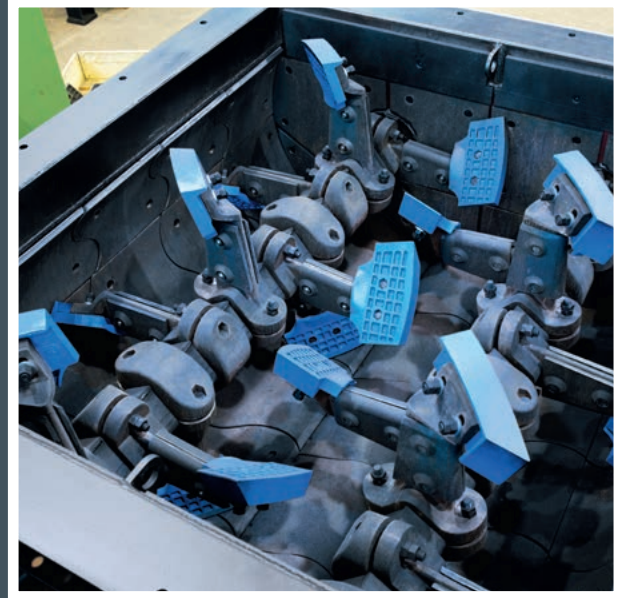
European constructors predominantly use the non-continuous production process for asphalt production.



ORIGINAL BENNINGHOVEN TROUGHES

The mixer is at the centrepiece of an asphalt mixing plant. Here, the mineral is thoroughly mixed with the binder and filler to form a homogeneous mass. Due to the stringent demands in terms of wear, weight and transfer of forces, only the highest-quality materials are used in the mixer.

The trough in the twin-shaft pugmill mixer is lined with special cast iron sections. The screws holding the cast iron lining are accessible from the outside to ensure easy maintenance. Rotary valves operate two pneumatic cylinders to open and close the discharge flaps in the mixer.



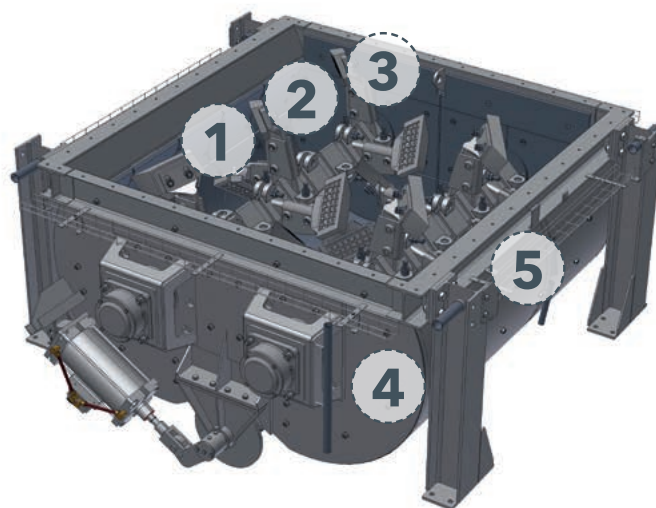
1 S-shaped trough tiles - wear on the surface and on specific points is prevented along joints, thus longer service life is guaranteed by the S-shape.

2 Wear zones are divided up into tiles, ensuring costs are reduced thanks to replacement of tiles on an individual basis when they become worn.

3 Easy handling - optimum tile size for ergonomic handling in terms of size and weight.

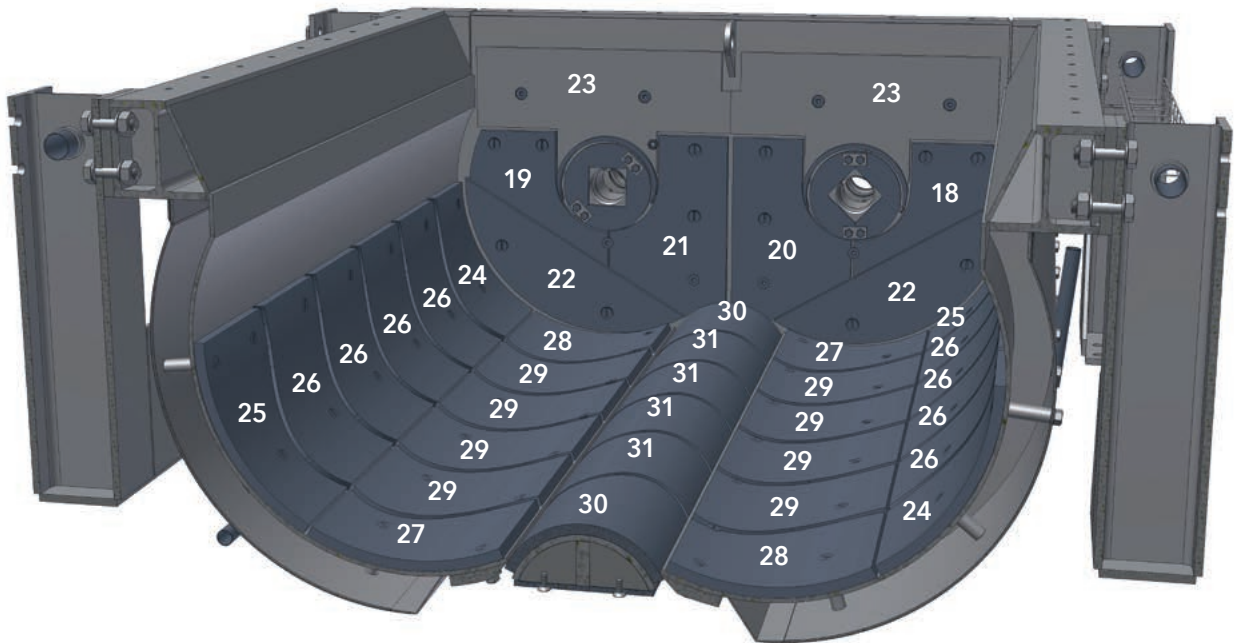
4 Tiles protect the mixer, providing maximum wear protection and service life thanks to cast parts containing a special alloy.

5 Fixing the tiles with countersunk screws provides an optimum, secure grip.





Trough for a 2.5-t/2-t mixer



No.	Designation	Weight	Quantity		Part No.
			2.5-t mixer	2-t mixer	
			MBA 2500 (old)	MBA 2000, ECO 2000, TBA 2000	
18	Front wall tiles, right	8.4 kg	2	2	90-003086
	Countersunk screws		2	2	90-001533
	Spring washers		2	2	90-000755
	Countersunk screws		2	2	90-001529
	Spring washers		2	2	90-000755
19	Front wall tiles, left	8.4 kg	2	2	90-003087
	Countersunk screws		2	2	90-001533
	Spring washers		2	2	90-000755
	Countersunk screws		2	2	90-001529
	Spring washers		2	2	90-000755
20	Front wall tiles, right	15.5 kg	2	2	90-003088
	Countersunk screws		4	4	90-001533
	Spring washers		4	4	90-000755
	Countersunk screws		4	4	90-001362
21	Front wall tiles, left	15.5 kg	2	2	90-003089
	Countersunk screws		4	4	90-001533
	Spring washers		4	4	90-000755
	Countersunk screws		4	4	90-001362
22	Front wall tiles, bottom	13.0 kg	4	4	90-003091
	Countersunk screws		8	8	90-001529
	Spring washers		8	8	90-000755



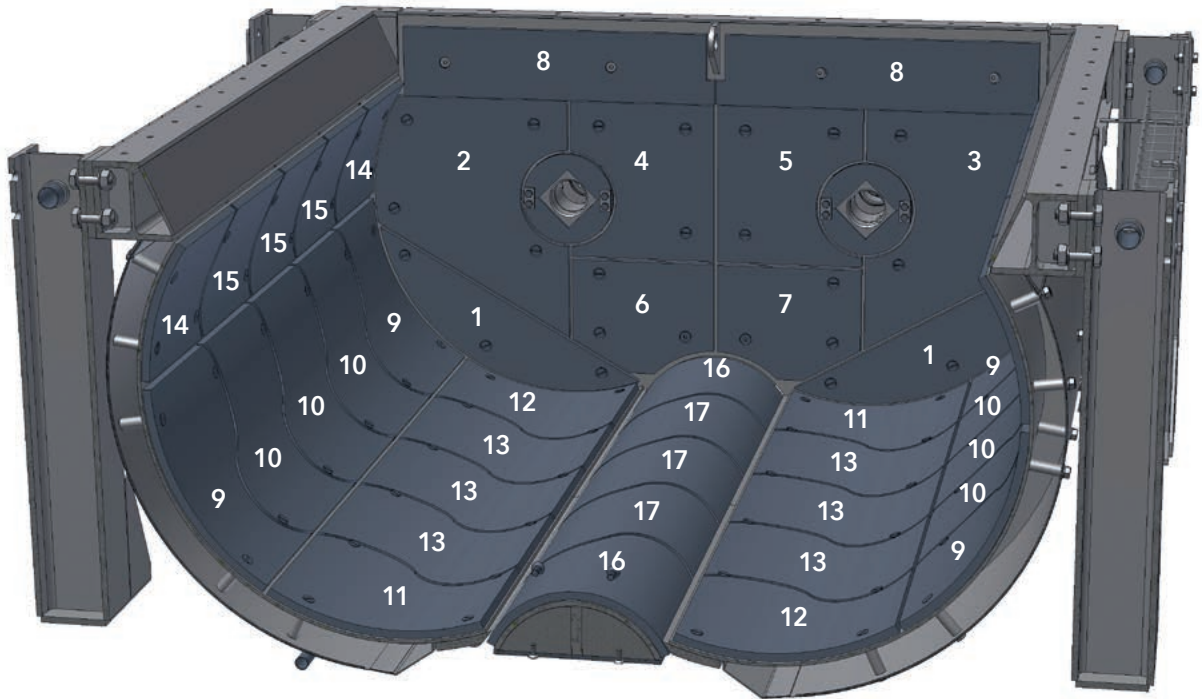
ORIGINAL BENNINGHOVEN TROUGHES

No.	Designation	Weight	Quantity		Part No.
			2.5-t mixer	2-t mixer	
			MBA 2500 (old)	MBA 2000, ECO 2000, TBA 2000	
23	Front wall tiles, top	43.0 kg	2	2	05-000212
	Countersunk screws		4	4	90-001366
	Countersunk screws		4	4	90-001364
	Spring washers		8	8	90-000755
	Nuts		8	8	90-000540
24	Trough tiles	15.3 kg	2	2	90-003098
	Countersunk screws		4	4	90-001534
	Washers		4	4	90-000702
25	Trough tiles	21.0 kg	2	2	90-003099
	Countersunk screws		6	6	90-001534
	Washers		6	6	90-000702
26	Trough tiles	18.2 kg	10	8	90-003100
	Countersunk screws		20	16	90-001534
	Washers		20	16	90-000702
27	Trough tiles	15.2 kg	2	2	90-003101
	Countersunk screws		2	2	90-001534
	Washers		2	2	90-000702
	Countersunk screws		2	2	90-001532
	Counter nuts		2	2	90-000569
	Washers		2	2	90-000728
28	Trough tiles	15.2 kg	2	2	90-003102
	Countersunk screws		2	2	90-001534
	Washers		2	2	90-000702
	Countersunk screws		4	4	90-001532
	Counter nuts		4	4	90-000569
	Washers		4	4	90-000728
29	Trough tiles	18.2 kg	10	8	90-003103
	Countersunk screws		10	8	90-001534
	Countersunk screws		10	8	90-001532
	Counter nuts		10	8	90-000569
	Washers		10	8	90-000702
	Washers		10	8	90-000728
30	Rotary valves	17.2 kg	2	2	90-003104
	Countersunk screws		8	8	90-001348
	Spring washers		8	8	90-000751
31	Rotary valves	14.0 kg	5	4	90-003105
	Countersunk screws		20	16	90-001348
	Spring washers		20	16	90-000751
	Scraper, left (for 2.5-t mixer only)*		2		05-003970
	Scraper, right (for 2.5-t mixer only)*		2		05-003971
	Scraper, left (for 2-t mixer only)*			2	05-003455
	Scraper, right (for 2-t mixer only)*			2	05-003456

* Change scrapers as complete sets only (right and left) - fix onto trough tiles 27-29.



Trough for a 4-t/3-t mixer



No.	Designation	Weight	Quantity		Part No.
			4-t mixer	3-t mixer	
			ECO 4000, TBA 4000, BA 4000	MBA 3000, ECO 3000, TBA 3000, BA 3000	
1	Front wall tiles, bottom	20.0 kg	4	4	90-003106
	Countersunk screws		12	12	90-001529
	Spring washers		12	12	90-000755
	Nuts		12	12	90-000540
2	Front wall tiles, left	32.0 kg	2	2	90-003108
	Countersunk screws		4	4	90-001533
	Countersunk screws		4	4	90-001529
	Spring washers		8	8	90-000755
	Nuts		8	8	90-000540
3	Front wall tiles, right	32.0 kg	2	2	90-003107
	Countersunk screws		4	4	90-001533
	Countersunk screws		4	4	90-001529
	Spring washers		8	8	90-000755
	Nuts		8	8	90-000540
4	Front wall tiles, left	23.0 kg	2	2	90-003111
	Countersunk screws		6	6	90-001533
	Spring washers		6	6	90-000755
	Nuts		6	6	90-000540



ORIGINAL BENNINGHOVEN TROUGHES

No.	Designation	Weight	Quantity		Part No.
			4-t mixer	3-t mixer	
			ECO 4000, TBA 4000, BA 4000	MBA 3000, ECO 3000, TBA 3000, BA 3000	
5	Front wall tiles, right	23.0 kg	2	2	90-003112
	Countersunk screws		6	6	90-001533
	Spring washers		6	6	90-000755
	Nuts		6	6	90-000540
6	Front wall tiles, left	16.0 kg	2	2	90-003110
	Countersunk screws		2	2	90-001533
	Countersunk screws		2	2	90-001529
	Countersunk screws		2	2	90-001362
	Spring washers		4	4	90-000755
	Nuts		4	4	90-000540
7	Front wall tiles, right	16.0 kg	2	2	90-003109
	Countersunk screws		2	2	90-001533
	Countersunk screws		2	2	90-001529
	Countersunk screws		2	2	90-001362
	Spring washers		4	4	90-000755
	Nuts		4	4	90-000540
8	Front wall tiles (1 set = 2 tiles)	60.0 kg	2 set	2 set	05-000205
	Countersunk screws		8	8	90-001368
	Spring washers		8	8	90-000755
	Nuts		8	8	90-000540
9	Trough tiles	34.0 kg	4	4	90-003118
	Countersunk screws		12	12	90-001534
	Washers		12	12	90-000702
10	Trough tiles	34.8 kg	6	4	90-003119
	Countersunk screws		12	8	90-001534
	Washers		12	8	90-000702
11	Trough tiles	33.4 kg	2	2	90-003120
	Countersunk screws		4	4	90-001534
	Countersunk screws		2	2	90-001532
	Counter nuts		2	2	90-000569
	Washers		4	4	90-000702
	Washers		2	2	90-000728
12	Trough tiles	33.3 kg	2	2	90-003121
	Countersunk screws		2	2	90-001534
	Countersunk screws		4	4	90-001532
	Counter nuts		4	4	90-000569
	Washers		2	2	90-000702
	Washers		4	4	90-000728
13	Trough tiles	33.5 kg	6	4	90-003122
	Countersunk screws		6	4	90-001534
	Countersunk screws		6	4	90-001532
	Counter nuts		6	4	90-000569
	Washers		6	4	90-000702
	Washers		6	4	90-000728



No.	Designation	Weight	Quantity		Part No.
			4-t mixer	3-t mixer	
			ECO 4000, TBA 4000, BA 4000	MBA 3000, ECO 3000, TBA 3000, BA 3000	
14	Trough tiles	24.0 kg	4	4	90-003123
	Countersunk screws		12	12	90-001534
	Washers		12	12	90-000702
15	Trough tiles	20.7 kg	6	4	90-003124
	Countersunk screws		12	8	90-001534
	Washers		12	8	90-000702
16	Rotary valves	32.6 kg	2	2	90-003125
	Countersunk screws		8	8	90-001527
	Spring washers		8	8	90-000751
17	Rotary valves	28.8 kg	3	2	90-003126
	Countersunk screws		12	8	90-001527
	Spring washers		12	8	90-000751
	Scraper, left (for 4-t mixer only)*		2		05-002892
	Scraper, right (for 4-t mixer only)*		2		05-002893
	Scraper, left (for 3-t mixer only)*			2	05-002782
	Scraper, right (for 3-t mixer only)*			2	05-002783



> The BA-type asphalt mixing plant impresses with its unlimited size and equipment. Its design concept is always based on the location, tailored to the customer's budget.



* Change scrapers as complete sets only (right and left) - fix onto trough tiles 11-13.

ORIGINAL BENNINGHOVEN SHAFTS

The mixer arms are optimally protected against wear by an arm guard. An elastic coupling is installed between the drive motor and the shaft.

Each shaft is fitted with two bearings. The shafts are synchronised using a prop shaft between the drive motors.



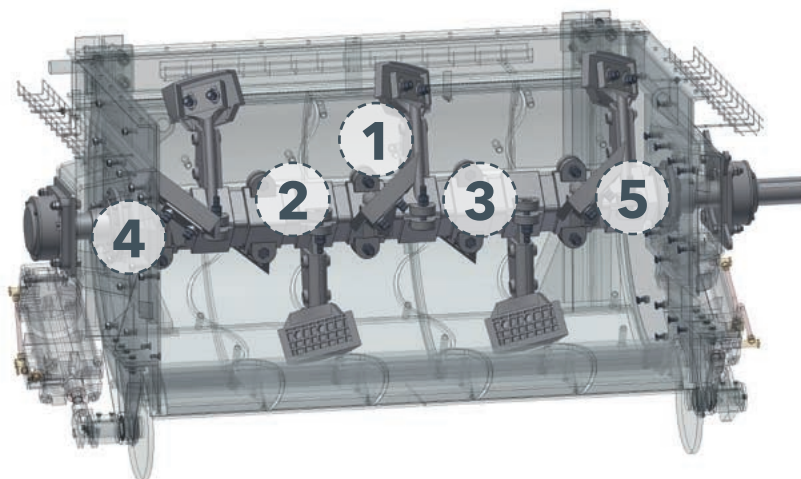
1 Optimum wear protection for the mixer arms thanks to a **dual arm guard**, meaning the mixer arm is fully protected.

2 **Shafts protected** thanks to shaft protection: costly, time-consuming replacement due to dismantling and installation is no longer necessary.

3 **Mixer arms attached** with innovative fastening clamps ensure reduced contact surface during the mixing process and a longer service life.

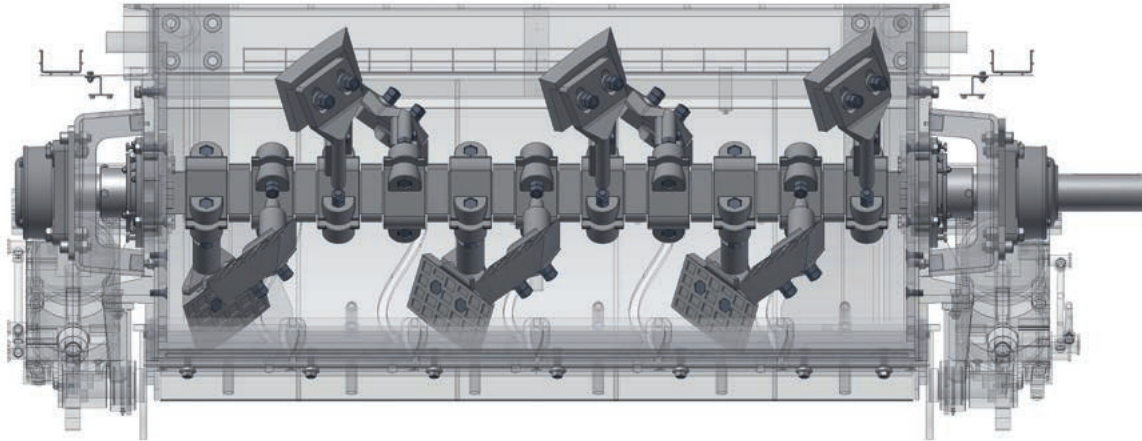
4 **Durable mixing shaft bearing or sealing** thanks to flange bearing and labyrinth seal.

5 **Sunken inside seal** reduces the wear and ensures a very long service life.





Shaft for a 2.5-t/2-t mixer



Agitator	Designation	Description	Weight	Quantity		Part No.	
				2.5-t mixer	2-t mixer		
				MBA 2500 (old)	MBA 2000, ECO 2000, TBA 2000		
Shaft	Mixer arms, left		12.5 kg	24	20	90-003092	
	Mixer arms, right		12.5 kg	2	2	90-003093	
	Clamps	Clamps		5.9 kg	26	22	90-003090
		Screws			52	44	90-001204
		Nuts			104	88	90-015389
	Mixer blades, left	Mixer blades, left		5.9 kg	24	20	90-003094
		Screws (with armoured head)			48	40	90-017560
		Washers			48	40	90-000731
		Nuts			96	80	90-000544
	Mixer blades, right	Mixer blades, right		5.9 kg	2	2	90-003095
		Screws (with armoured head)			4	4	90-017560
		Washers			4	4	90-000731
		Nuts			8	8	90-000544
	Arm guard, left	Arm guard, left		2.5 kg	24	20	90-003096
		Countersunk screws			24	20	90-001530
		Nuts			24	20	90-000540
		Locknuts			24	20	90-000569
		Arm guard backing			24	20	99-005173
	Arm guard, right	Arm guard, right		2.5 kg	2	2	90-003097
		Countersunk screws			2	2	90-001530
		Nuts			2	2	90-000540
		Locknuts			2	2	90-000569
		Arm guard backing			2	2	99-005173
Shaft protector for mixer shafts				22	20	05-000379	

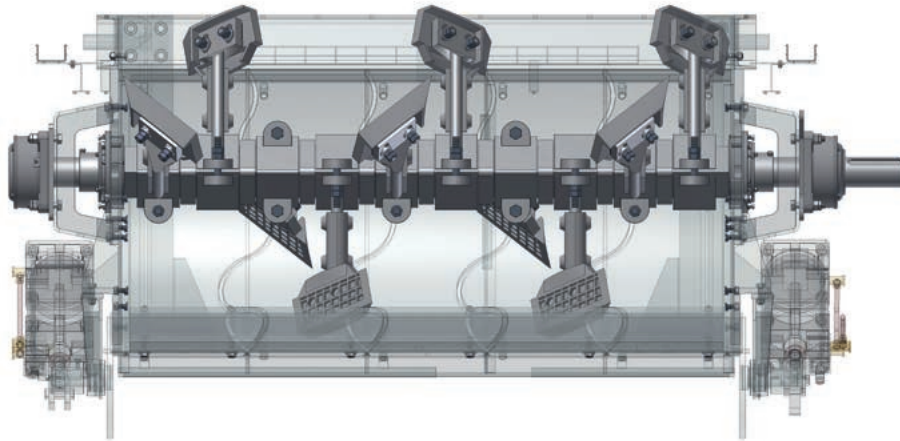


ORIGINAL BENNINGHOVEN SHAFTS

Agitator	Designation	Description	Weight	Quantity		Part No.
				2.5-t mixer	2-t mixer	
				MBA 2500 (old)	MBA 2000, ECO 2000, TBA 2000	
Bearing	Flange bearing casing, open			2	2	90-003542
	Flange bearing casing, closed			2	2	90-018664
	Clamping sleeves			4	4	90-003365
	Roller journal bearing			4	4	90-014906
	Felt strip			8	8	90-003531
	Fixed rings			2	2	90-003666
	Mixer shafts for labyrinth seal (for 2-t mixer only)				2	05-003482
	Mixer shafts for labyrinth seal (for 2.5-t mixer only)			2		05-003985
Seal	Labyrinth rings, inner			4	4	05-003375
	Labyrinth rings, outer			4	4	05-003376
	Sockets			4	4	80-002477
	Packing gland			4	4	05-003377
	High-pressure packaging			4	4	05-007520
	Discs			4	4	80-002573
	Wear plates			4	4	05-003493
	Countersunk screws			16	16	90-042184
	Discs			16	16	90-000683
	Hexagonal nuts			32	32	90-000518



Shaft for a 4-t/3-t mixer

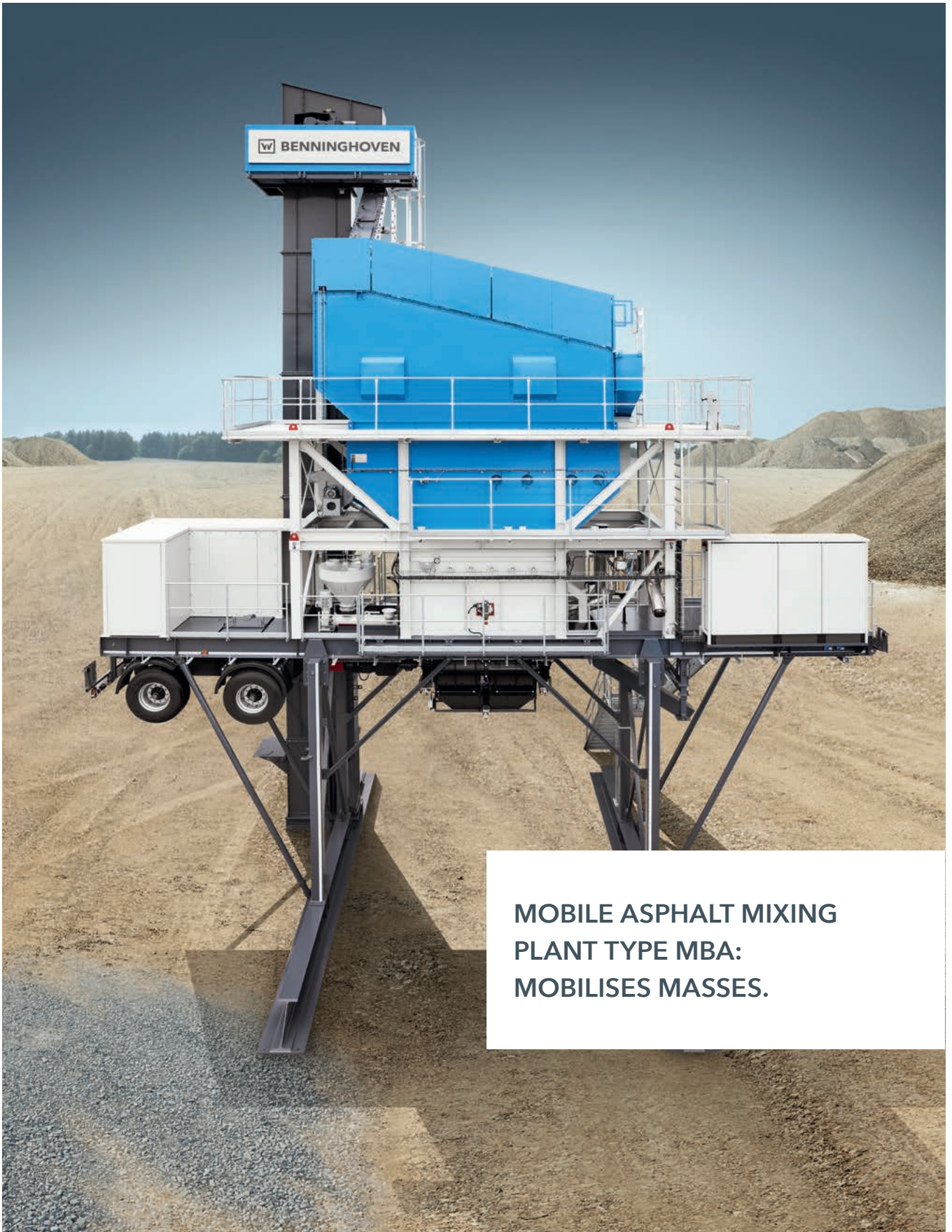


Agitator	Designation	Description	Weight	Quantity		Part No.	
				4-t mixer	3-t mixer		
Shaft	Mixer arms, left		23.5 kg	16	12	90-003127	
	Mixer arms, right		23.5 kg	4	4	90-003128	
	Clamps	Clamps		13.5 kg	20	16	90-047505
		Screws			40	32	90-047904
		Nuts			80	64	90-015432
	Mixer blades, left	Mixer blades, left		14.6 kg	16	12	90-003114
		Screws (with armoured head)			32	24	90-017560
		Washers			32	24	90-000731
		Nuts			64	48	90-000544
	Mixer blades, right	Mixer blades, right		14.6 kg	4	4	90-003115
		Screws (with armoured head)			8	8	90-017560
		Washers			8	8	90-000731
		Nuts			16	16	90-000544
	Arm guard A	Arm guard A		4.9 kg	20	16	90-039131
		Screws			10	8	90-013091
		Nuts			10	8	90-000540
		Locknuts			10	8	90-000569
		Arm guard backing			40	32	99-005173
	Arm guard B	Arm guard B		4.9 kg	20	16	90-039132
		Screws			10	8	90-013091
Nuts				10	8	90-000540	
Locknuts				10	8	90-000569	
Arm guard backing				40	32	99-005173	
Shaft protector for mixer shafts				18	14	05-000550	



ORIGINAL BENNINGHOVEN SHAFTS

Agitator	Designation	Description	Weight	Quantity		Part No.
				4-t mixer	3-t mixer	
				ECO 4000, TBA 4000, BA 4000	MBA 3000, ECO 3000, TBA 3000, BA 3000	
Bearing	Flange bearing casing, open			2	2	90-003545
	Flange bearing casing, closed			2	2	90-021818
	Clamping sleeves			4	4	90-003367
	Roller journal bearing			4	4	90-003446
	Fixed rings			2	2	90-003670
	Mixer shafts for labyrinth seal (for 3-t mixer only)				2	05-002823
	Mixer shafts for labyrinth seal (for 4-t mixer only)			2		05-002899
Seal	Labyrinth rings, inner			4	4	05-001032
	Labyrinth rings, outer			4	4	05-001033
	Sockets			4	4	80-000557
	Packing gland			4	4	05-001034
	High-pressure packaging			4	4	05-007519
	Discs			4	4	80-001962
	Wear plates			4	4	05-002843
	Countersunk screws			16	16	90-042184
	Discs			16	16	90-000683
	Hexagonal nuts			32	32	90-000518



**MOBILE ASPHALT MIXING
PLANT TYPE MBA:
MOBILISES MASSES.**

ORIGINAL BENNINGHOVEN

GEAR RING SEGMENTS AND ELEVATOR CHAINS

The inlet and discharge chutes feature screwed-in wear plates. The large inspection port in the base allows easy servicing. A high-performance attached geared motor ensures reliable drive. A solid, dual-line double drag link conveyor chain, tensioned at the foot of the elevator, carries the elevator buckets, which feature a scoop edge made of wear-resistant steel. A spacious platform allows technicians to service the drive motor and outer bearings to an optimum extent. The engine features a return stop mechanism.



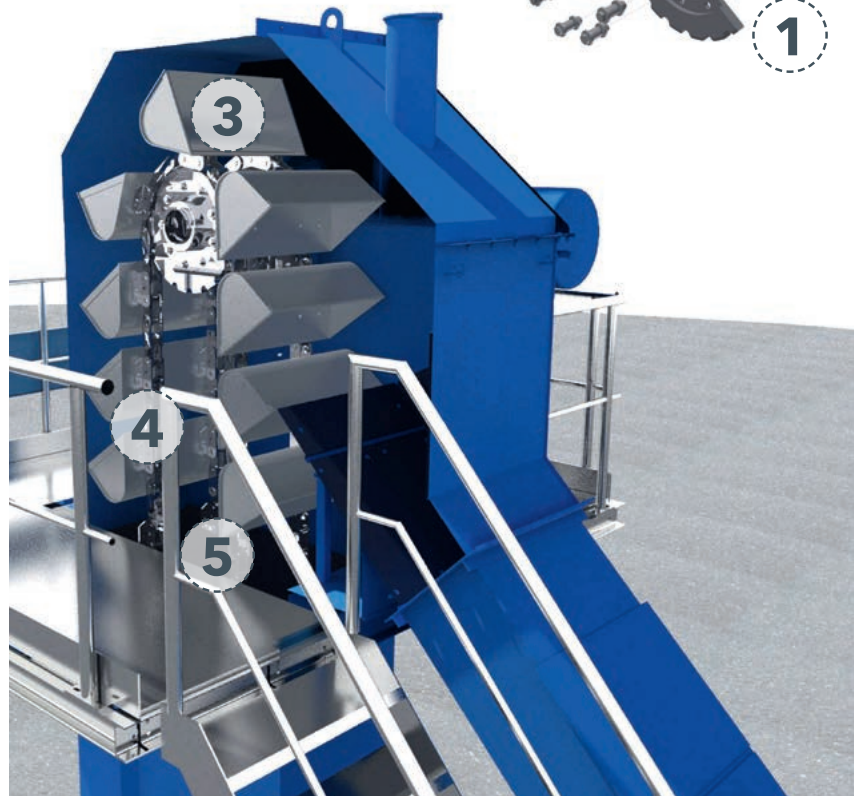
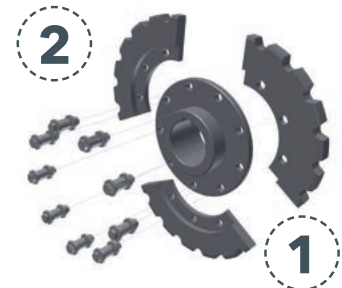
1 *Maximum wear protection thanks to hardened gear ring.*

2 *The three-section gear allows ring segments to be replaced even when the chain is tensioned and without dismantling the gear.*

3 *Easy replacement of elevator buckets thanks to screw joints.*

4 *Easy replacement of chain links thanks to bolt joints.*

5 *Chain can be shortened at any time thanks to service-friendly system.*





Machine type	Model	Gear ring segments*	Part No.
MBA 2000, MBA 3000, ECO 2000, ECO 3000, ECO 4000, TBA 2000, TBA 3000, TBA 4000, BA 3000, BA 4000, BA 5000	HB01, HB02, HB03, HB04, HB05, HB06, HB07, HB08, HB09, HB10, HB11	Gear ring segment M160, toothed, top	90-013733
		Gear ring segment M160, untoothed, bottom	90-013734
		Gear ring segment E30, Z=18, threepart	90-006073
		Gear ring segment E45, threepart	90-006100
ECO 2000, ECO 3000, ECO 4000, TBA 2000, TBA 3000, TBA 4000, BA 3000, BA 4000, BA 5000	HB03, HB04, HB05, HB06, HB07, HB08, HB09, HB10, HB11	Gear ring segment M224, toothed, top	90-018265
		Gear ring segment M224, untoothed, bottom	90-018266

Machine type	Model	Elevator chains*	Part No.
MBA 2000, MBA 3000, ECO 2000, ECO 3000, ECO 4000, TBA 2000, TBA 3000, TBA 4000, BA 3000, BA 4000, BA 5000	HB01, HB02, HB03, HB04, HB05, HB06, HB07, HB08, HB09, HB10, HB11	Elevator chain (hot material) M160-2	90-006554
		Connecting link for chain M160	90-016262
		Elevator chain (hot material), type E29	90-006083
		Connecting link for chain E29	90-006084
		Elevator chain (hot material), type E45	90-006101
		Connecting link for chain E45	90-006102
ECO 2000, ECO 3000, ECO 4000, TBA 2000, TBA 3000, TBA 4000, BA 3000, BA 4000, BA 5000	HB03, HB04, HB05, HB06, HB07, HB08, HB09, HB10, HB11	Elevator chain (hot material) M224-2	90-018268
		Connecting link for chain M224	90-016270

* Selection is based on the plant height, elevator height and displacement rate.



ORIGINAL BENNINGHOVEN SPRING STEEL SCREEN MESH

The screening machine's design concept is based on vibration technology. The advantage of this technology lies in its reliable screening and the low maintenance required for the vibration motors. The screening machine is designed for high-temperature mineral production. The screening unit is mounted in four positions with easily accessible multi-spring assemblies. The screening machine features large inspection hatches and a movable chute carriage. The chute carriage enables the screens to be replaced or inspected on an individual basis while ensuring that the hot ensilage container beneath can also be inspected.

If the unit is equipped with a bypass function, the duct features a mount which is dust-tight on the outside and can also be displaced using a wheeled structure.



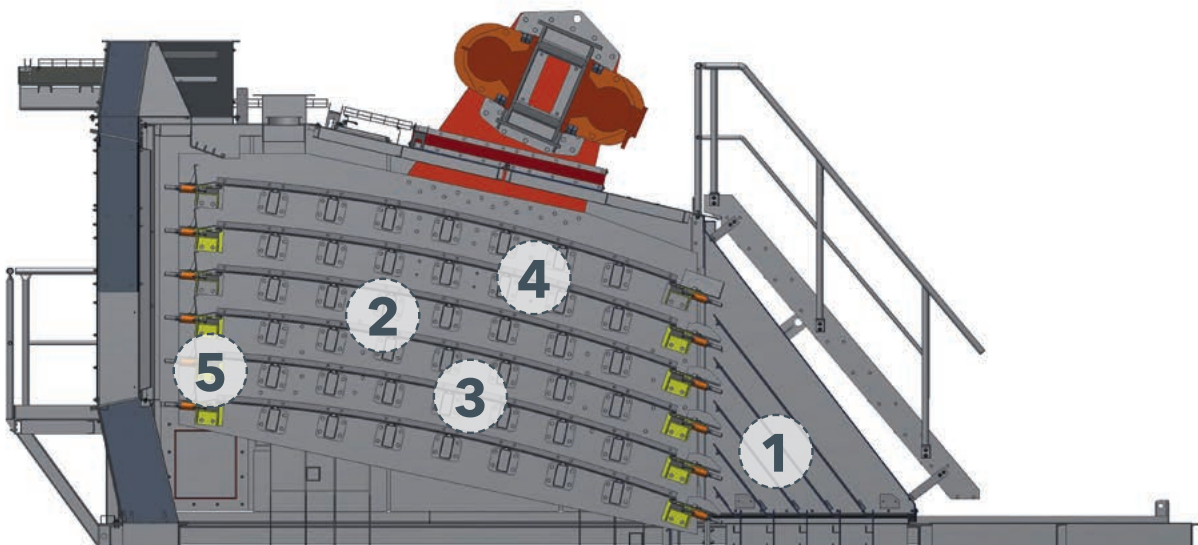
1 Movable chute carriages ensure that screens can be easily accessed for visual check or replacement.

2 High wear resistance increases service life and reduces life-cycle costs.

3 High performance, precise screening - adapted to our customers' needs.

4 High-grade special wires, highly wear- and vibration-resistant.

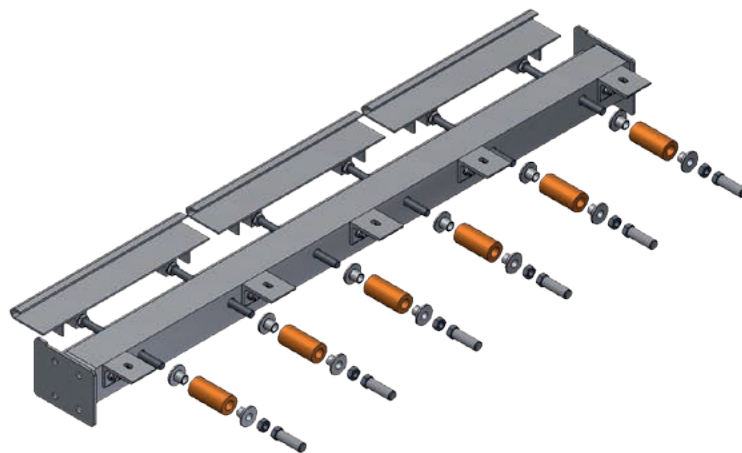
5 Ready-to-mount profile with tensioning seams ensures rapid, uncomplicated replacement.





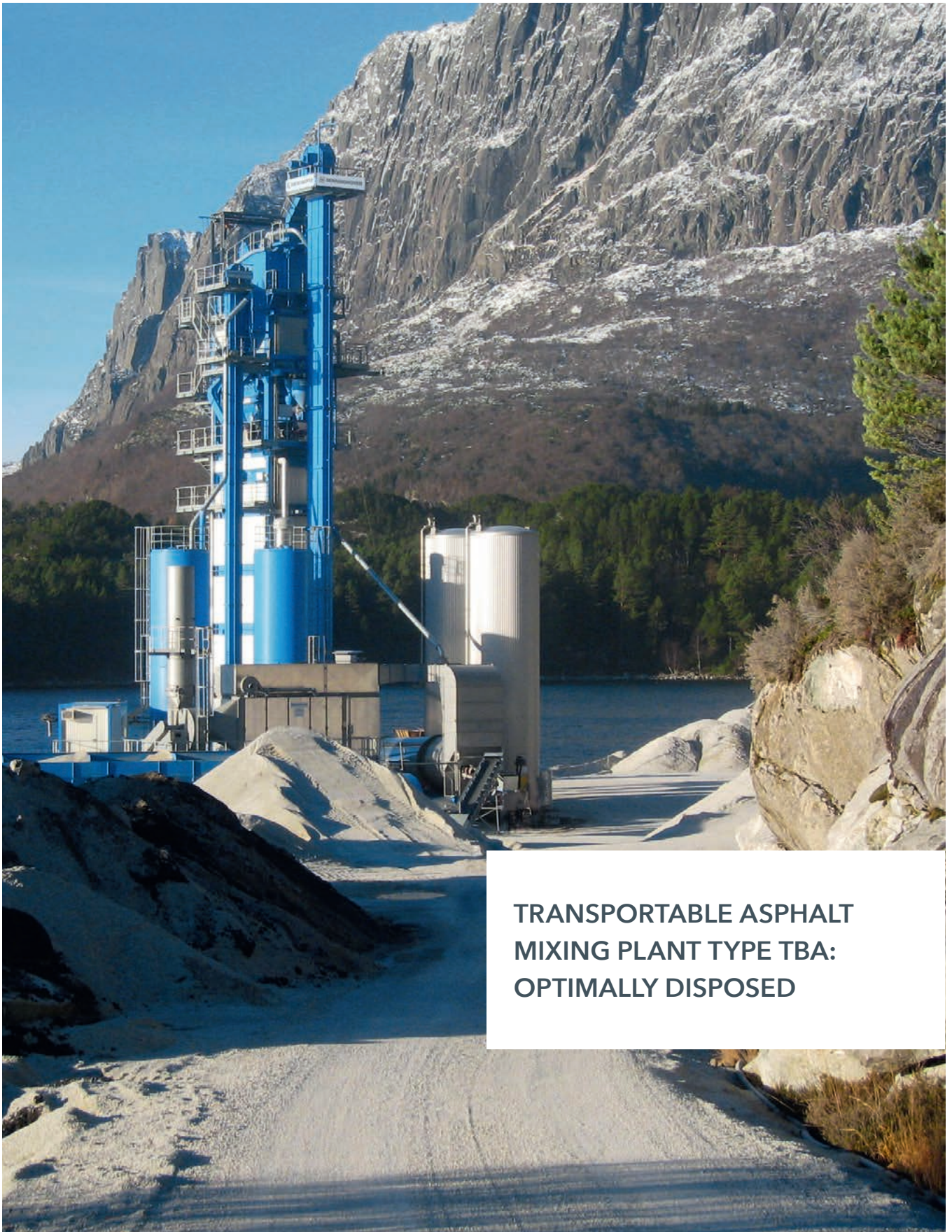
Machine type	Model	Spring steel screen mesh		
		Dimensions (in mm)	Mesh size (in mm)	Part No.
MBA 2000, MBA 3000	SM09	1650 x 1790	5.0	90-004568
		1800 x 1790	9.0	90-024351
TBA 3000, BA 3000	SM04, SM06	3400 x 1195	3.15	90-022055
		3400 x 1195	4.0	90-017494
		3400 x 1195	6.3	90-017451
		3400 x 1195	8.0	90-023782
		3400 x 1195	9.0	90-017452
		3400 x 1195	10.0	90-019649
		3400 x 1195	12.5	90-017453
		3400 x 1195	15.0	90-017497
		3400 x 1195	16.0	90-023781
		3400 x 1195	18.0	90-017454
		3400 x 1195	20.0	90-019651
		3400 x 1195	22.0	90-017498
		3400 x 1195	25.0	90-017455
		3400 x 1195	29.0	90-024261
		3400 x 1195	31.0	90-025922
		3400 x 1195	35.0	90-021482
		3400 x 1195	40.0	90-021362
TBA 4000, BA 4000	SM05, SM07	2200 x 1195	3.0	90-027620
		2200 x 1195	3.2	90-034289
		2200 x 1195	4.0	90-023705
		2200 x 1195	5.0	90-023222
		2200 x 1195	6.3	90-023460
		2200 x 1195	7.0	90-042041
		2200 x 1195	8.0	90-023704
		2200 x 1195	10.0	90-027672
		2200 x 1195	11.5	90-027535
		2200 x 1195	12.0	90-023226
		2200 x 1195	12.5	90-023462
		2200 x 1195	16.0	90-023227
		2200 x 1195	16.5	90-044404
2200 x 1195	22.0	90-023703		
2200 x 1195	45.0	90-023465		

ORIGINAL BENNINGHOVEN CLAMPING STRIPS



> Clamping strip

Machine type	Model	Clamping strip		
		Designation	Quantity	Part No.
MBA 2000, MBA 3000, ECO 2000, ECO 3000	SM09, SM01	Tensioning plates, L = 556	24	90-016957
		Protective sleeve	48	90-015370
		Centring bushing pressure spring	96	90-015372
		Pressure spring	48	90-013474
		Hexagonal bolt	48	90-015410
		Hexagonal nut	48	90-000544
		Hexagonal nut	48	90-000574
		Schnorr washer	48	90-017857
ECO 4000	SM02	Tensioning plates, L = 556	16	90-016957
		Tensioning plates, L = 470	16	90-016958
		Protective sleeve	64	90-015370
		Centring bushing pressure spring	128	90-015372
		Pressure spring	64	90-013474
		Hexagonal bolt	64	90-015410
		Hexagonal nut	64	90-000544
		Hexagonal nut	64	90-000574
TBA 2000	SM03	Tensioning plates, L = 470	36	90-016958
		Protective sleeve	72	90-015370
		Centring bushing pressure spring	144	90-015372
		Pressure spring	72	90-013474
		Hexagonal bolt	72	90-015410
		Hexagonal nut	72	90-000544
		Hexagonal nut	72	90-000574
		Schnorr washer	72	90-017857
TBA 3000, BA 3000	SM04, SM06	Tensioning plates, L = 556	48	90-016957
		Protective sleeve	96	90-015370
		Centring bushing pressure spring	192	90-015372
		Pressure spring	96	90-013474
		Hexagonal bolt	96	90-015410
		Hexagonal nut	96	90-000544
		Hexagonal nut	96	90-000574
		Schnorr washer	96	90-017857
TBA 4000, BA 4000, BA 5000	SM05, SM07, SM08	Tensioning plates, L = 556	40	90-016957
		Protective sleeve	80	90-015370
		Centring bushing pressure spring	160	90-015372
		Pressure spring	80	90-013474
		Hexagonal bolt	80	90-015410
		Hexagonal nut	80	90-000544
		Hexagonal nut	80	90-000574
		Schnorr washer	80	90-017857




**TRANSPORTABLE ASPHALT
MIXING PLANT TYPE TBA:
OPTIMALLY DISPOSED**



PARTS AND MORE

LEGEND

	Carbide weight
2K	2-component material with bonded plating
On req.	On request
DSK	Cold-paved thin layers
EP	ErgoPlus
FB	Width of milling drum in mm
FT	Milling depth in mm
HD	Heavy Duty
HM	Carbide
i	Interim motors
IP	InLine Pave
KRS	KLEEMANN Resistant Steel
L	Longversion
LA	Line spacing in mm
MLW	Mesh size
MT	Feeder
OB	Surface processing
SF	Spray paver
SK	Hose coupling
SJ	SprayJet
RSM	Pick
TP	Tooth pitch

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