

Efficient milling in the 1-m class.

Cold Milling Machine W 100





Compact 1-m cold milling machine for efficient operation.



The manoeuvrable small milling machine is the ideal candidate for efficient milling operations in the one-metre class.

Its wide range of applications extends from surface course rehabilitation to the removal of pavements at full depth.

The proprietary LEVEL PRO levelling system ensures highly accurate milling results.

The rear loading conveyor offers wide slewing angles and maximum loading capacity.

The machine's hydraulic all-wheel drive offers optimum traction in challenging site conditions.

At a glance: the highlights of the W 100

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05



Highlights in operation (pages 6/7)

1| INTUITIVE, PRECISE LEVELLING WITH LEVEL PRO (OPTION)

- > One wire-rope sensor each left and right
- > Electronic slope control sensor

2| SIMPLE OPERATING CONCEPT

- > Simple, intuitive handling
- > Machine operation partially integrated in right-hand armrest
- > Convenient control console with practical, illuminated switches

3| OPERATOR COMFORT

- > Individually adjustable driver's seat
- > Convenient access
- > Movable canopy
- > Anti-vibration mounted operator's platform
- > Perfect view of the milling edge and important work areas

Highlights in driving and steering (pages 8/9)

4| DYNAMIC, QUICK MANOEUVRING

- > Travel speed of up to 6 km/h
- > Large ground clearance
- > Hydraulic all-wheel drive for maximum traction
- > Hydraulic machine height adjustment with two speed settings

5| MAXIMUM MANOEUVRABILITY

- > Smooth hydraulic steering system
- > Extremely large steering angle of the front wheels
- > Compact machine dimensions

Highlights in performance and productivity (pages 12/13)

8 | HIGH EFFICIENCY FOR TREMENDOUS PRODUCTIVITY

- > Tremendous engine power with high torque
- > Effective soundproofing of engine compartment
- > Perfect arrangement of working lights

9 | QUICK TRANSPORT AND EASE OF MAINTENANCE

- > Quick loading for transport
- > Numerous lashing lugs
- > Ready access to the small number of points of maintenance



HIGHLIGHTS IN MILLING AND LOADING (PAGES 10/11)

6 | SUPERIOR CUTTING TECHNOLOGY BOOSTS PERFORMANCE

- > Extremely hard-wearing HT22 quick-change toolholder system
- > Hydraulic tool extractor for the quick replacement of cutting tools
- > Quick exchange of milling drums
- > Different types of milling drums on offer

7 | HIGH LOADING CAPACITY FOR MAXIMUM PERFORMANCE

- > Wide conveyor slewing angles
- > Folding conveyor can be folded up quickly during operation on site
- > Quick mounting and removal of loading conveyor

Highlights in operation

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INTUITIVE, PRECISE LEVELLING WITH LEVEL PRO

The W 100 can optionally be equipped with the state-of-the-art **LEVEL PRO** system, a levelling system that will spark your enthusiasm immediately. An innovative and highly practical feature is that it permits up to three sensor signals to be displayed simultaneously. Set values can be pre-programmed individually for both sides of the machine, stored by pressing the memory button and then retrieved as and when required. Different sensors, such as the wire-rope sensor or slope sensor, can be selected or de-selected during the milling operation as required.

SIMPLE OPERATING CONCEPT

The W 100 offers great ease of operation, enabling highly productive work right from the start.

Clearly arranged controls enable the milling machine to be handled intuitively while the unambiguous symbols provide clarity and safety. All levers and switches have been designed with functionality in mind, and have been arranged in line with functional groups and frequency of operation.

OPERATOR COMFORT

Whether working in upright or seated position: The ergonomic platform offers ample space and legroom, and enables the operator to conveniently see the milling edge at all times. A perfect view of the milling edge sets new standards in this machine class. The comfortable, adjustable driver's seat can be moved both in the direction of travel and out over the right side of the machine. Elastically supported treads minimize the impact of machine vibrations on the operator.



1 | All major controls have been integrated into the right-hand armrest and allow convenient, one-hand operation.

2 | The adjustable steering wheel supports ergonomic operation both in upright and seated position.

3 | All in full view because the seat can be moved out over the side of the machine.

4 | Clearly arranged controls and unambiguous graphic displays.



Highlights in driving and steering

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DYNAMIC, QUICK MANOEUVRING

Perfect manoeuvrability and easy handling are needed when milling in narrow bends. That is why we have provided the front wheels of the W 100 with an exceptionally large steering lock. In addition, the right-hand rear wheel can be swivelled in front of the milling drum quickly and conveniently. The practical principle allows flush-to-kerb milling right up to walls or other obstacles - while guaranteeing a perfect view of the milling edge at the same time.

The machine offers two different speed options (fast or slow) for adjustment in height via the rear wheels. Ample ground clearance at the hydraulic motors of the rear wheels protects them from damage by, for instance, high kerbstones.

MAXIMUM MANOEUVRABILITY

Three milling gears permit different advance speeds of the machine during the milling operation. The front wheels can be turned about up to nearly 70 degrees.

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1 | Extremely large steering angles for tight radii.

2 | Right-hand rear wheel in folded-in position.

3 | Right-hand rear wheel in folded-out position.



Highlights in milling and loading

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11

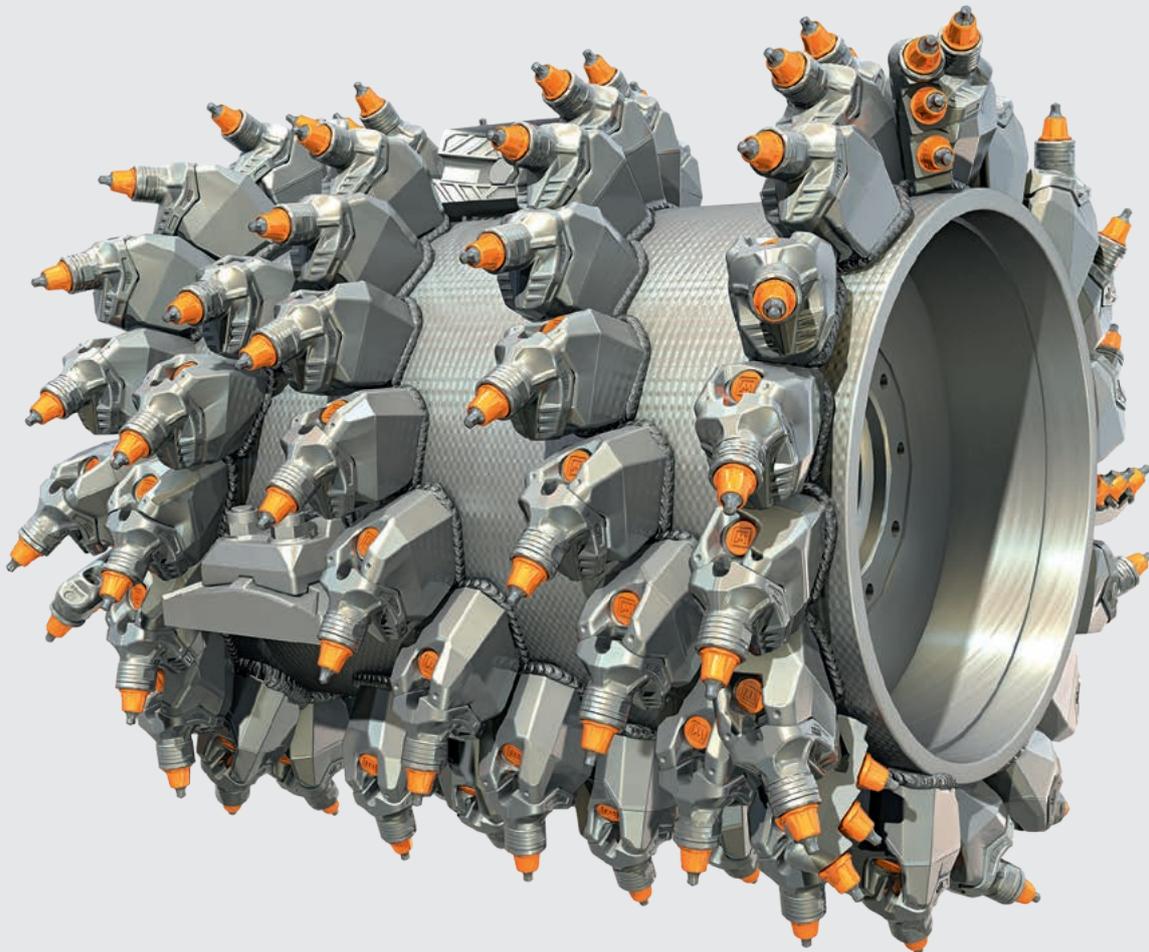
SUPERIOR CUTTING TECHNOLOGY BOOSTS PERFORMANCE

The W 100 is equipped with many detail features that save time and offer valuable advantages in field operation. The patented HT22 quick-change toolholder system, for example, is yet another option to guarantee profitable operation as it enables the toolholders to be replaced quickly and easily. The low-wear system is designed for heavy-duty operation on the construction site, thus increasing the service life of the entire milling drum. The side plates protecting the milling edge can optionally be raised and lowered hydraulically, thus reliably sealing the drum housing and permitting clean operation.

HIGH LOADING CAPACITY FOR MAXIMUM PERFORMANCE

Large-volume, clean removal of the milled material is ensured by the wide loading conveyor. A low-positioned point of material transfer and generously dimensioned material discharge, an appropriately wide conveyor belt with rugged cleat profile, as well as continuously adjustable belt speed ensure that all is set for high daily production rates. The loading conveyor has a tremendous conveying capacity of 115 m³/h for high daily production rates. The transport length of the W 100 is reduced considerably when equipped with the optional folding conveyor.

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1 | HT22 quick-change toolholder system for tough operating conditions.

2 | - 3 | A long conveyor with large slewing angle offers the flexibility needed for optimum loading at variable belt speeds.

4 | Efficient removal of the milled material.



Highlights in performance and productivity

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HIGH EFFICIENCY FOR TREMENDOUS PRODUCTIVITY

Thanks to its powerful diesel engine with high torque increase, the W 100 is fully geared for tough everyday operation on the job site. The load limit controller governs the machine's advance speed in accordance with the engine load, thus enabling the W 100 to always work at the ideal milling speed. Soundproofing of the engine compartment is a standard feature and guarantees significantly reduced noise emissions.

It goes without saying that the engine complies with the strict exhaust emission standards stipulated by the US Environmental Protection Agency (US Tier 3).

QUICK TRANSPORT AND EASE OF MAINTENANCE

The machine's transport height can be reduced to 2.65 m to enable easy transport. Sturdy loading and lashing lugs permit the machine to be securely lashed down on a trailer or loaded by crane. Simple and fast transport assists in ensuring maximum utilization of the machine.

Wide-opening service panels provide perfect access to the points of maintenance and inspection. These have been grouped together and can easily be reached from the ground, enabling visual inspections to also be carried out quickly and reliably.

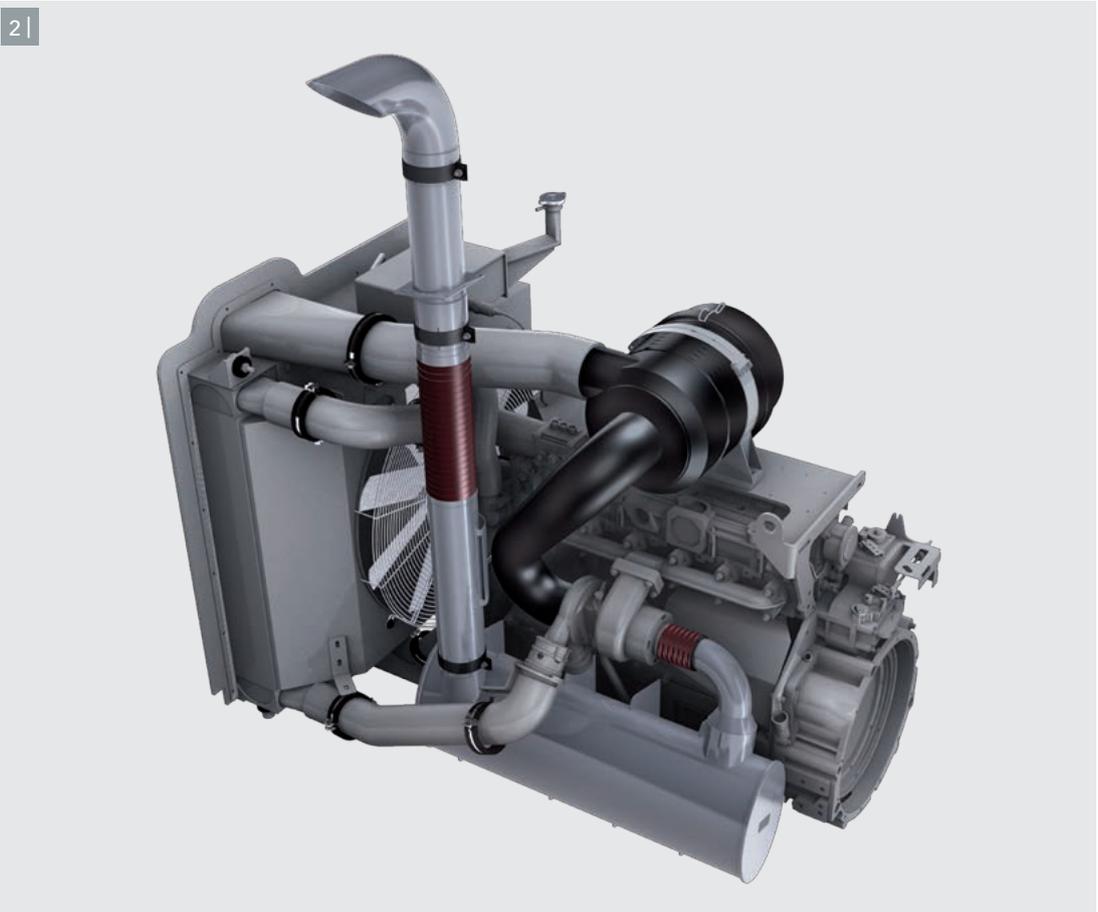
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1 | Easy loading,
easy transport.

2 | The wa-
ter-cooled, low-
emission diesel
engine impresses
with low consump-
tion rates.

3 | Wide-opening
service panels on
both maintenance
sides.



Technical specification

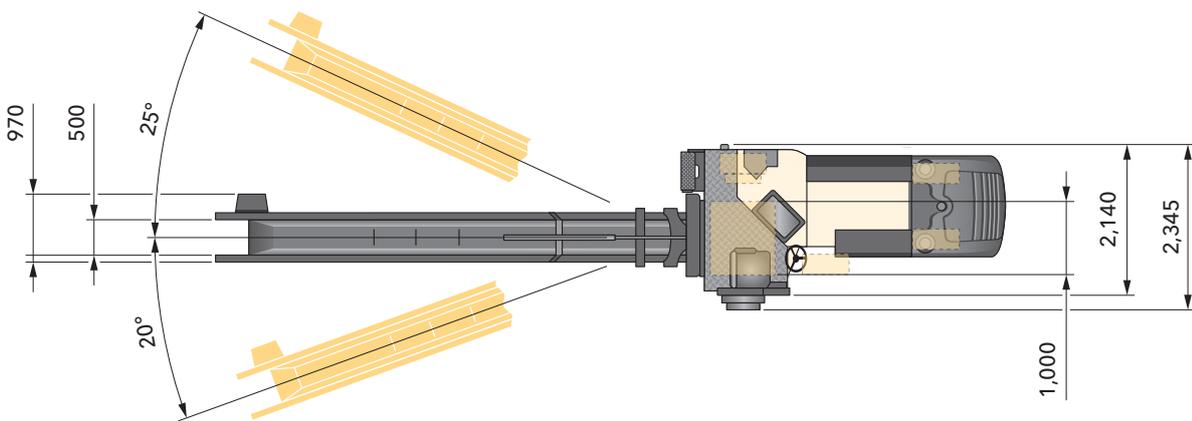
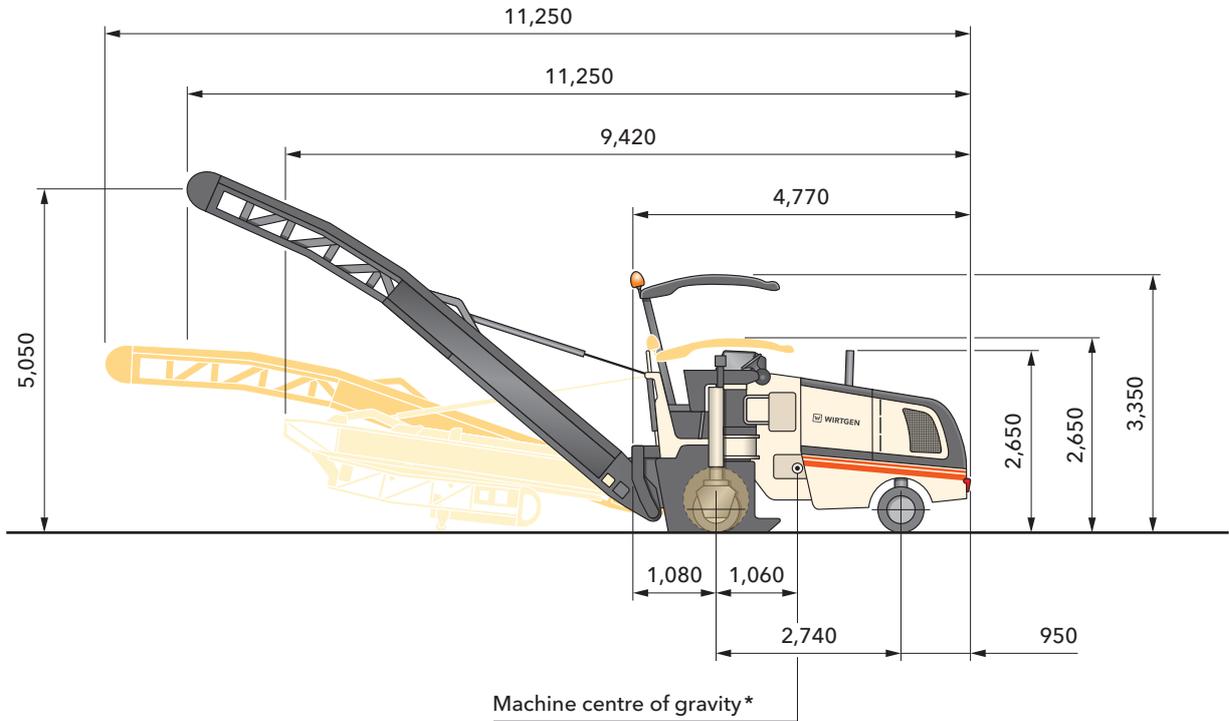
Milling drum	
Milling width	1,000 mm
Milling depth * ¹	0 to 300 mm
Drum diameter with tools	930 mm
Engine	
Engine manufacturer	Deutz AG
Type	TD 2012 L06 2V
Cooling	Water
Number of cylinders	6
Rated power at 2,300 rpm	155 kW/208 HP/211 PS
Maximum power at 2,300 rpm	155 kW/208 HP/211 PS
Displacement	6,057 cm ³
Fuel consumption at rated power	42 l/h
Fuel consumption in field mix	16.8 l/h
Emission standards	EU Stage 3a/US Tier 3/BR MAR-1
Electrical system	
Electrical power supply	24 V
Tank capacities	
Fuel tank	480 l
Hydraulic oil tank	80 l
Water tank	900 l
Driving properties	
Max. milling speed	0 to 30 m/min (0 to 1.8 km/h)
Max. travel speed	0 to 100 m/min (0 to 6 km/h)
Tyres	
Tyre size front (Ø x W)	620 x 230 mm
Tyre size rear (Ø x W)	620 x 255 mm
Loading of the milled material	
Belt width of discharge conveyor	500 mm
Theoretical capacity of discharge conveyor	115 m ³ /h

*¹ = The maximum milling depth may deviate from the value indicated due to tolerances and wear.

Weight of base machine	
Empty weight of machine without tank contents, with long discharge conveyor	13,600 kg
Operating weight, CE* ²	14,350 kg
Operating weight, max. (full tanks, full range of equipment)	15,500 kg
Weights of tank contents	
Water tank filling	900 kg
Diesel tank filling (0.83 kg/l)	400 kg
Optional equipment features increasing / reducing empty weight	
Driver and tools	
Driver	75 kg
Weight of 5 cutting tool containers	125 kg
On-board tools	30 kg
Optional milling drums in lieu of standard	
Milling drum FB1000 HT22 LA15 with 100 picks	170 kg
Optional supplementary weights	
Discharge conveyor 8,020 mm long, 500 mm wide, with manual folding device	50 kg
Operator's stand with weather canopy	170 kg

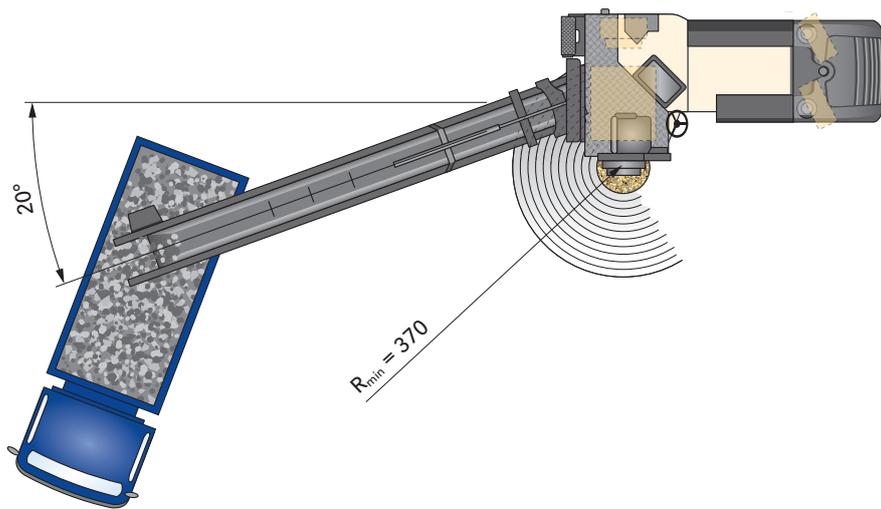
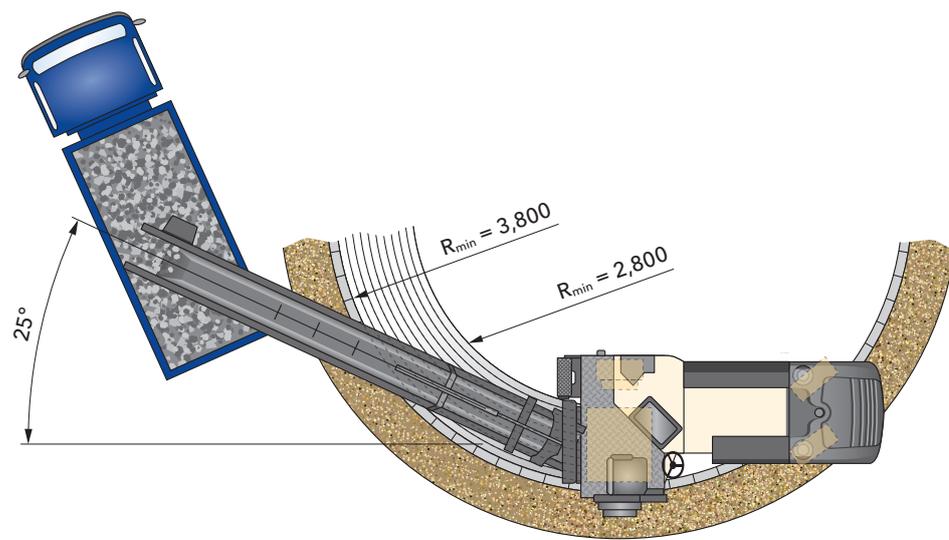
*² = Weight of machine with half-full water tank, half-full fuel tank, driver (75 kg) and on-board tools, excluding optional equipment

Dimensions



Dimensions in mm

*Based on operating weight, CE with conveyor folded out



Milling radius, 50 mm milling depth, dimensions in mm

Standard equipment

Base machine	
Basic machine with engine	■
Engine cover with noise insulation	■
Standard paint in WIRTGEN white with orange stripes	■
Milling drum unit	
Wide opening scraper plate with automatic electric safety drum shutdown	■
The scraper plate is hydraulically operated and equipped with exchangeable carbide metal elements	■
Mechanical milling drum drive via a drive belt with automatic belt tensioner	■
Mechanical lifting seal front	■
Milling drum housing FB1000, milling depth 300 mm	■
Milling drums	
Milling drum FB1000 HT02 LA15 with 100 picks	□
Milled-out material loading	
Discharge conveyor slewing angle left 25 degrees - right 20 degrees	■
Conveyor belt system with controllable transport speed	■
A special coupling device makes it possible to connect and disconnect the conveyor quickly	■
Preliminary equipment long discharge conveyor	□
Machine control and levelling system	
Mechanical milling depth display	□
Operator's stand	
Continuous operator's stand with operator's seat and steering on right side	■
Mirrors left/right	■
Illuminated operating panel/nighttime design	■
Operator's stand without roof	□

- = Standard equipment
- = Standard equipment, replaceable with optional equipment
- = Optional equipment

Under-carriage and height adjustment	
Infinitely variable, hydraulic all-wheel drive with four speed ranges; differential lock that can be engaged and disengaged in forward and reverse gears	■
Solid tyres	■
Hydraulic, easy front wheel steering	■
Four-wheel drive principle	■
For milling along kerb edges, the rear right support wheel can be swivelled mechanically in front of the milling drum	■
Hydraulically assisted spring-loaded brake	■
Others	
Lighting package with 6 halogen headlights and a rotary beacon	■
Water sprinkler unit with tank (900 l capacity)	■
Large tool package in lockable tool box	■

- = Standard equipment
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- = Optional equipment

Optional equipment

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Milling drums	
Milling drum FB1000 HT22 LA15 with 100 picks	<input type="checkbox"/>
Milled-out material loading	
Discharge conveyor, 8,020 mm long, 500 mm wide	<input type="checkbox"/>
Discharge conveyor 8,020 mm long, 500 mm wide, with manual folding device	<input type="checkbox"/>
Machine control and levelling system	
LEVEL PRO levelling system wire-rope right + left	<input type="checkbox"/>
Slope control sensor	<input type="checkbox"/>
Operator's stand	
Operator's stand with weather canopy	<input type="checkbox"/>
Others	
Export packing	<input type="checkbox"/>

- = Standard equipment
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- = Optional equipment







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