

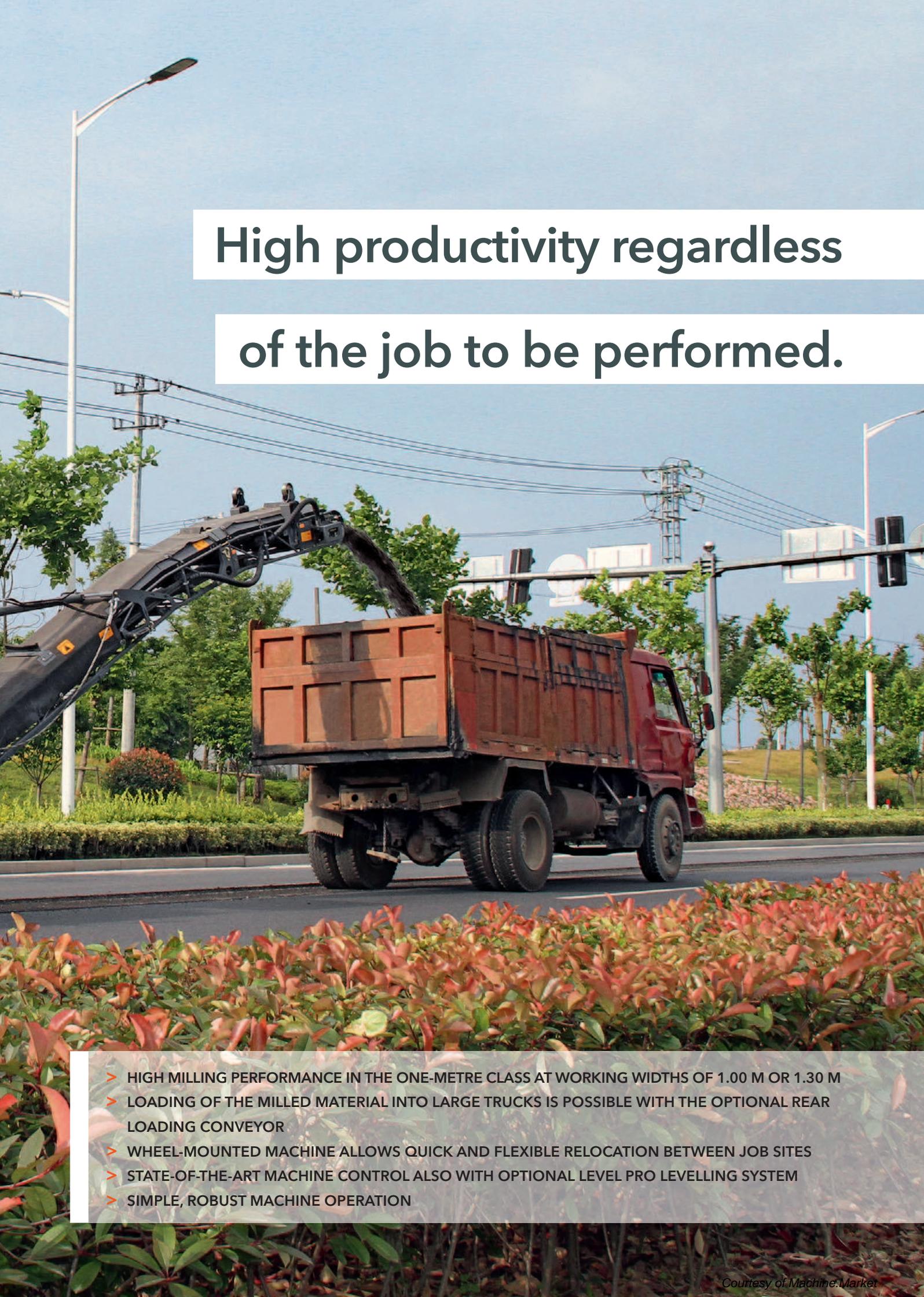


Efficient milling in the 1-m class.

# **Cold Milling Machine W 100 H/W 130 H**





A road milling machine is shown in operation, discharging a stream of milled material into the bed of a red dump truck. The machine is positioned on the left side of the frame, and the truck is on the right. The background features a clear blue sky, utility poles, and some greenery. The scene is set on a road construction site.

**High productivity regardless  
of the job to be performed.**

- HIGH MILLING PERFORMANCE IN THE ONE-METRE CLASS AT WORKING WIDTHS OF 1.00 M OR 1.30 M
- LOADING OF THE MILLED MATERIAL INTO LARGE TRUCKS IS POSSIBLE WITH THE OPTIONAL REAR LOADING CONVEYOR
- WHEEL-MOUNTED MACHINE ALLOWS QUICK AND FLEXIBLE RELOCATION BETWEEN JOB SITES
- STATE-OF-THE-ART MACHINE CONTROL ALSO WITH OPTIONAL LEVEL PRO LEVELLING SYSTEM
- SIMPLE, ROBUST MACHINE OPERATION

# At a glance: the highlights of the new W 100 H/W 130 H

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## 1 | LEVELLING SYSTEM

- > Intuitive levelling
- > Electronic slope sensor
- > Milling depth control by means of tried-and-tested wire-rope sensors

## 2 | VISIBILITY CONCEPT

- > Perfect view of the milling edge and important work areas
- > Full illumination of the operator's platform and controls
- > Perfectly arranged working lights

## 3 | OPERATION

- > Simple operating concept; tried-and tested
- > High-quality display screen
- > Adjustable protective canopy
- > Hydraulic machine height adjustment with two speed settings

## 4 | MANOEUVRABILITY

- > Extremely small milling radii
- > Travel speed up to 8 km/h
- > Pivotal rear right support wheel for flush-to-kerb milling
- > Extremely low centre of gravity and optimum weight distribution

## 5 | TERRAIN MOBILITY

- > Large ground clearance
- > Powerfull all-wheel drive for maximum traction
- > Maximum climbing ability on difficult ground



8 |

## ENGINE STATION

- > State-of-the-art engine technology for low diesel consumption
- > Powerful diesel engine for maximum milling performance
- > Anti-vibration mounted engine
- > Temperature-controlled fan speed

9 |

## TRANSPORT

- > Compact machine design
- > Sturdy loading and lashing lugs for simple loading by crane
- > All service points easily accessible

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## CONVEYOR SYSTEM

- > Fast and easy to assemble and disassemble
- > Flexible loading regardless of the job situation
- > High capacity folding conveyor

6 |

## MILLING DRUM UNIT

- > New milling drum design with highly wear-resistant HT22 toolholder system
- > Tremendous milling depth of up to 200 mm
- > Two different working widths (1,000 mm, 1,300 mm) on offer
- > Powerful water spray system at the milling drum
- > Dual hydraulically lifting side plate



# Uncompromising WIRTGEN Quality

## STATE-OF-THE-ART, DEPENDABLE MACHINE TECHNOLOGY

Reliable and economical operation is one of their standard features, and handling is child's play: the WIRTGEN W 100 H and W 130 H cold milling machines. Regardless of whether as a W 100 H with a milling width of 1,000 mm or as a W 130 H with a milling width 1,300 mm, the mature cold milling machine offers simple, tried-and-tested machine technology on the one hand while fully complying with the high quality standards set by WIRTGEN on the other.

Equipped with a hydraulically driven milling drum, the powerful machine holds its own easily on medium-sized to large milling jobs. Further hallmarks include the state-of-the-art levelling system, ease of operation, powerful engine and excellent manoeuvrability.



1 | Offering a milling width of 1,300 mm, the W 130 H achieves exceptionally high productivity levels.

2 | Precise removal of a surface course with the W 100 H.



# Simple operating concept

## IN FULL CONTROL OF THE COLD MILLING MACHINE QUICKLY

The W 100 H and W 130 H offer great ease of operation, enabling high productivity right from the start. Clearly arranged controls allow the cold milling machines to be operated intuitively while distinctive symbols offer clarity and safety.

All levers and switches have been designed with functionality in mind and are arranged in line with functional groups and frequency of operation. From his fully adjustable comfort

seat, the machine operator has a full view not only of all the controls but also of the milling edge. All in all, the simple operating concept enables the machine operator to always remain fully focused on his job.



1 | The machine features the tried-and-tested WIRTGEN operating concept.

2 | Height indication on both machine sides via wire-rope dials.

3 | Clearly arranged controls, clearly identifiable graphic displays and a full view of the milling edge.



# LEVEL PRO - the mature high-precision levelling system

## LEVELLING TECHNOLOGY MEETING HIGHEST DEMANDS

The W 100 H and W 130 H can optionally be equipped with LEVEL PRO - the state-of-the-art automatic levelling system that will spark your enthusiasm immediately.

As an innovative and highly practical feature, it permits up to three sensor signals to be displayed simultaneously.

Yet another highlight is the panel, which has been arranged within optimum reach of the operator and allows convenient, one-finger operation. Graphical function symbols and large, clearly arranged switches make the LEVEL PRO system an all-round success.



Automatic ON/OFF

Switchover button

Set value

Actual value

Controller output

Memory 1

Settings

Set value UP/DOWN

Calibration

Cylinder UP/DOWN

Memory 2

1 | Wire-rope sensor for precise milling depth control on both machine sides.

2 | Clearly structured control panel.

# Tremendous manoeuvrability, extremely small turning radii

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## FLEXIBILITY IS A VALUABLE ASSET

High manoeuvrability and easy handling are needed for milling operations in places where space is limited. That is why we have provided the front wheels with an exceptionally large steering lock to allow small radii. Hydraulic all-wheel drive assists manoeuvring of the cold milling machine while providing high traction at the same time. In addition, the right-hand rear wheel can be swivelled in front of the milling drum in a few simple steps.

This practical feature 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.





1 | Full control from the ideally located operator's platform.

2 | Full visibility - whether working in seated or upright position.

3 | - 4 | Right-hand rear wheel in folded-in and folded-out position.



# Milling width as needed - 1.0 m or 1.3 m

## CUTTING TECHNOLOGY - WIRTGEN'S CORE EXPERTISE

In the 1-m class, WIRTGEN customers can choose between two compact cold milling machine models: the W 100 H offering a milling width of 1,000 mm and the W 130 H offering a milling width of 1,300 mm. Both machines are fully geared to meet all challenges in field operation. Their hydraulic milling drum drive translates the engine output into high daily production rates.

The optimized arrangement of the toolholders and clever tooling of the drum periphery ensure excellent milling power, a clean milling texture and quiet operation of the machine. In addition, centrally arranged ejectors reliably transport the milled material from the drum housing. Last but not least, simple tool replacement guarantees that downtimes of the cold milling machines are kept to a minimum.

*Ample space allows  
convenient tool  
replacement.*

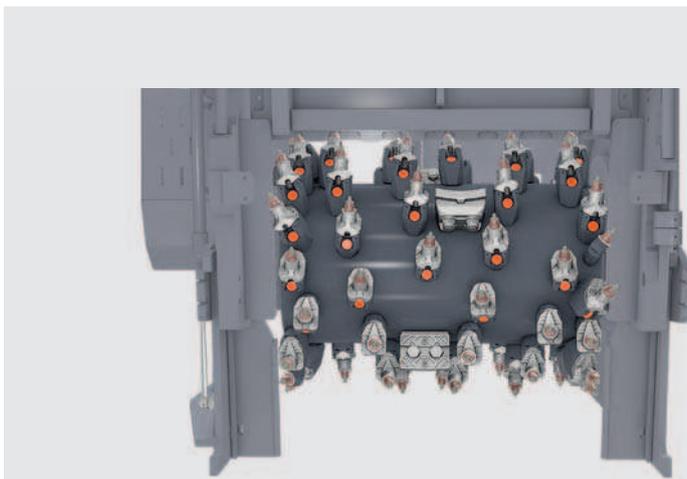




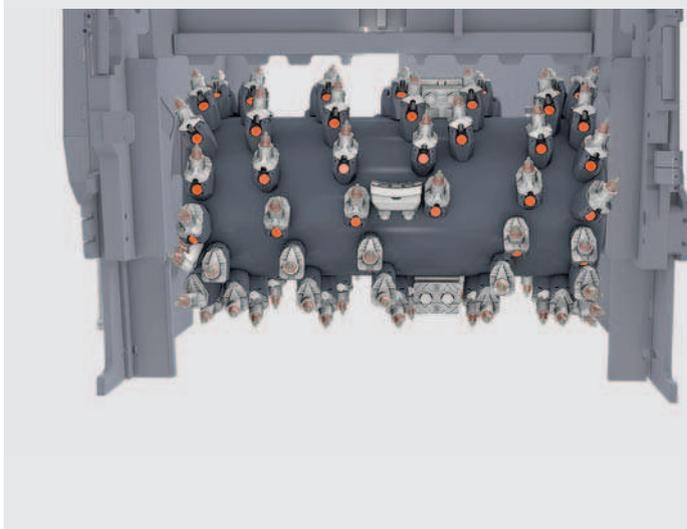
1 | - 2 | *Hydraulically height-adjustable scraper blade*



3 | - 4 | *When fully lowered, the hydraulically adjustable edge protector reliably closes the drum housing while enabling the cold milling machine to be driven along obstacles when raised.*



**Milling drum assembly of the W 100 H**  
Milling width: 1,000 mm  
Milling depth: 0 to 200 mm



**Milling drum assembly of the W 130 H**  
Milling width: 1,300 mm  
Milling depth: 0 to 200 mm

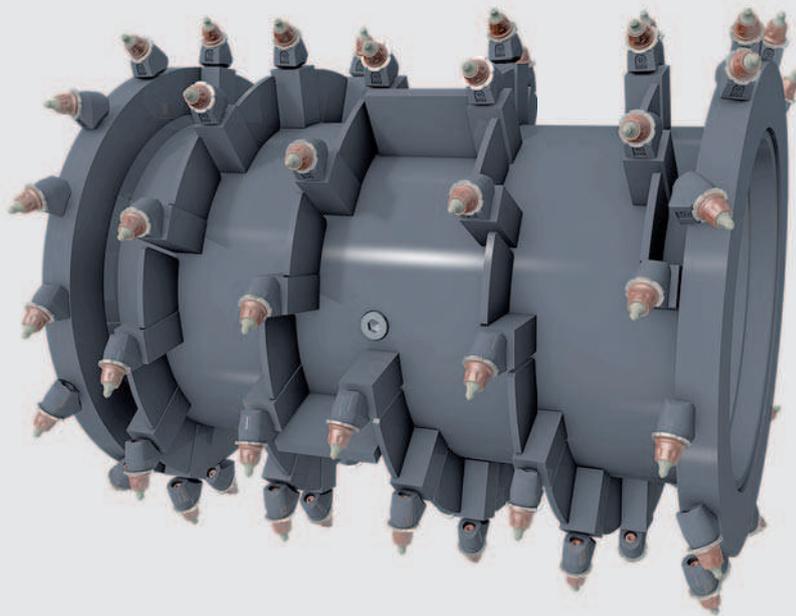
# Tried-and-tested HT22 quick-change toolholder system

## FOR PERFECT MILLING RESULTS

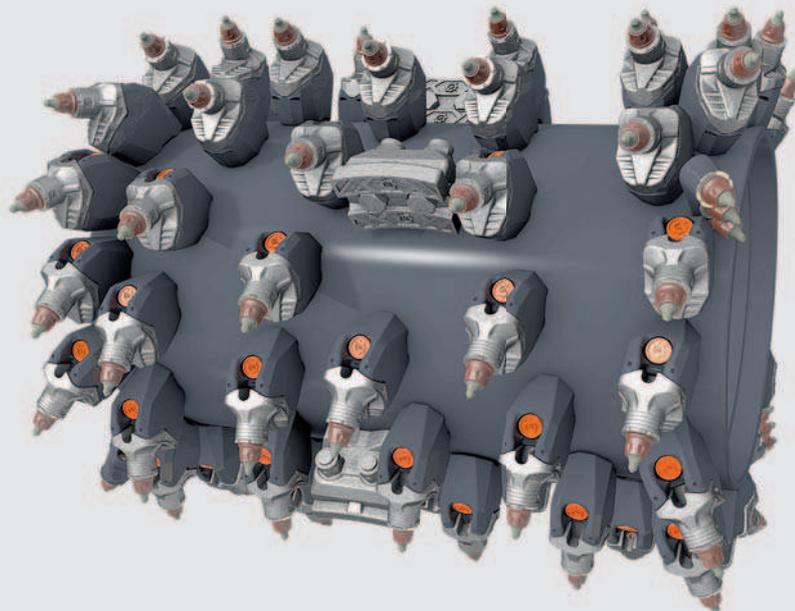
In comparison with the HT02 welded toolholder system, the innovative HT22 quick-change toolholder system offers various profitable benefits. It has been designed for challenging milling operations and impresses with optimal cutting tool rotation, additional tool cooling

attributable to the holder design, quick and simple tool extraction, extremely low wear and tear as well as wear markers for monitoring the state of wear of the upper toolholder parts. In the final analysis, customers work much more cost-efficiently with the HT22 system.

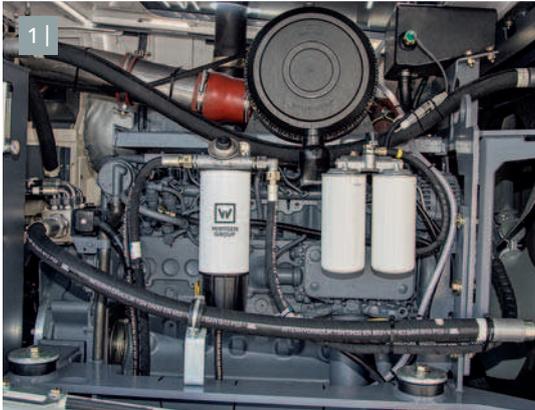
Welded toolholder system HT02



Quick-change toolholder system HT22



# High engine power



1 | 6-cylinder diesel engine with effective engine sound-proofing.

2 | Anti-vibration mounted engine station.

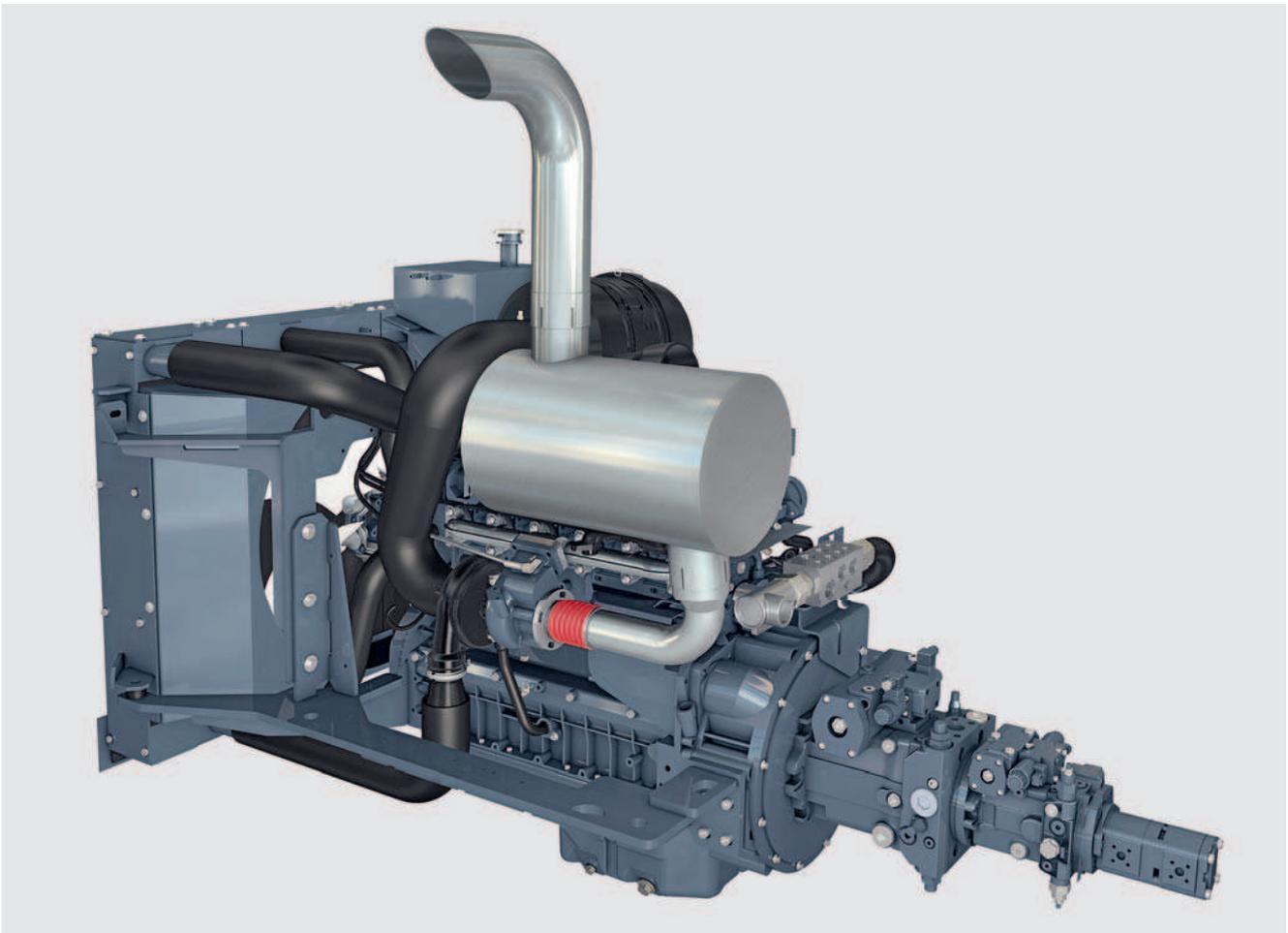
## GEARED FOR TOUGH MILLING OPERATIONS

The engine performance increases automatically when the engine speed decreases with increasing engine load.

The water-cooled diesel engine is distinctive for low fuel consumption rates.

Low noise emission and vibration levels protect both the operator and the environment.

*The diesel engine offers an ideal combination of power, torque and fuel consumption.*



# Getting rid of the milled material quickly

## EFFICIENT REMOVAL OF THE RECLAIMED MATERIAL

The powerful loading conveyor is yet another outstanding feature of the W 100 H and W 130 H cold milling machines. It offers several details designed in line with field requirements to ensure fast and smooth removal of the milled material.

High daily production rates can be achieved thanks to the large slewing angles, low-placed material transfer and generously dimensioned material discharge points as well as wide conveyor belt with rugged cleat profile.





1 | - 2 | Flexibility is ensured by wide conveyor slewing angles.

3 | - 4 | For detachment, the hydraulically height-adjustable loading conveyor can be folded and lowered to the ground in a few simple steps.



# Save time and money with easy maintenance

1 | Wide-opening service panels on both machine sides.

2 | Easy filling of water and diesel fuel.



## REACHING THE GOAL FASTER WITH INTELLIGENT SOLUTIONS

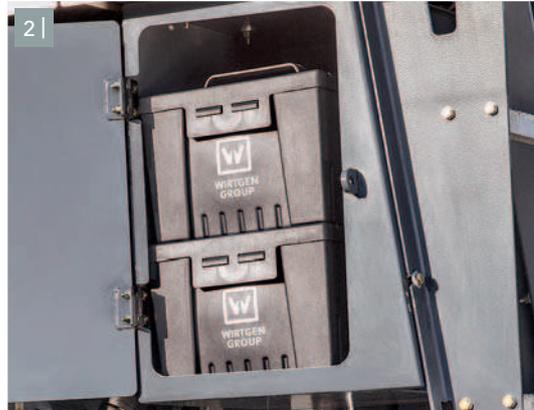
The rear loader scores top marks not only in milling but also in maintenance. Wide-opening service panels provide excellent access to the points of maintenance and inspection, which have been grouped together and can easily be reached from the ground.

More time is thus available for the actual job at hand - rapid completion of the milling operation. In addition to that, the machine is capable of working for long productive periods without needing any stoppages for refilling as large, easily refillable water and fuel tanks permit extended milling intervals. It goes without saying that a comprehensive tool kit is also part of the on-board equipment.

*Easy access to points of maintenance.*



# Smart details assist everyday work



1 | The canopy folds down manually and protects the operator from exposure to sun and rain.

2 | Ample space for the storage of cutting tools.

## MOVING ON TO THE NEXT JOB IN NO TIME

Two headlights at the front, several flexible halogen working lights and a warning beacon perfectly illuminate the entire working area. In addition to the comprehensive lighting package, illuminated control panels offer perfect visibility even in darkness.

Headlights in an elevated position, two direction indicators and a maximum travel speed of 8 km/h facilitate road travel when repositioning the machine from one job site to the next.

The machine's transport height (including protective canopy) has been reduced to 2.65 m to enable easy transport.

*Comprehensive lighting system and direction indicators for road travel.*



# Technical specification

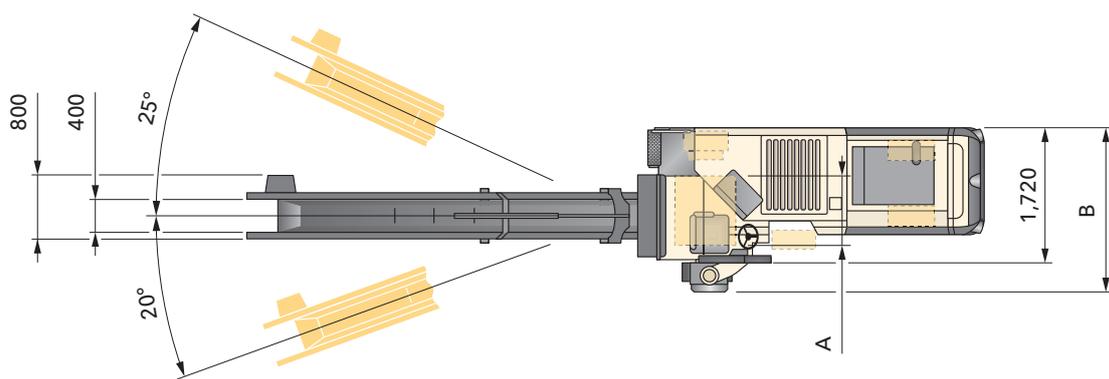
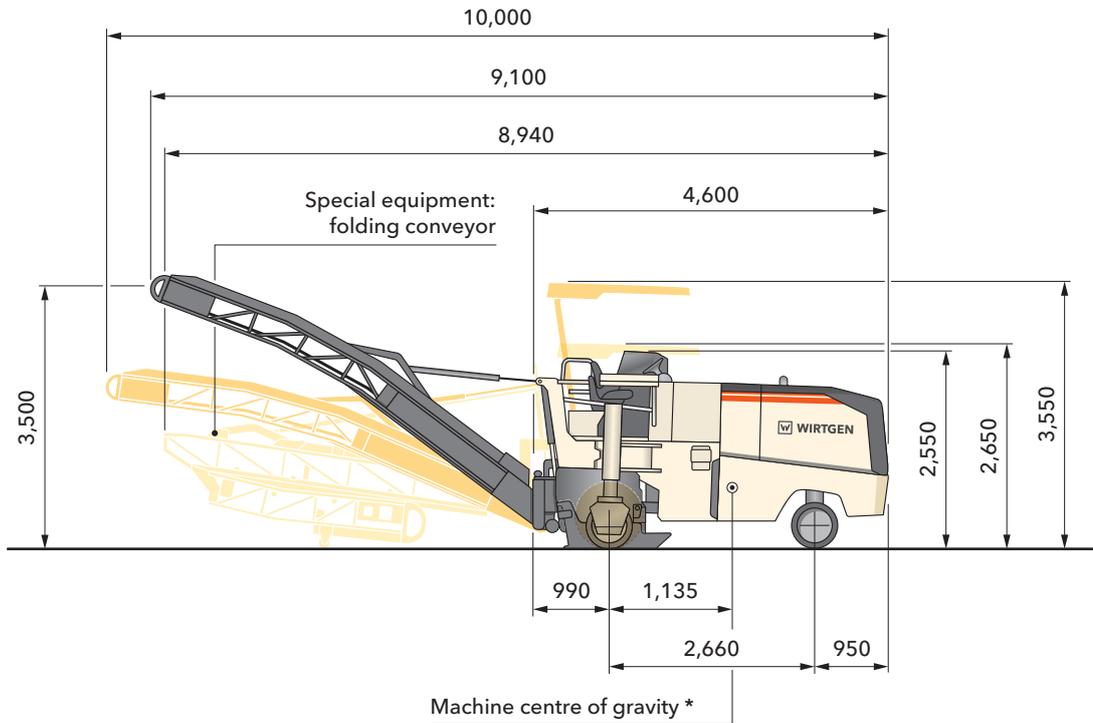
	W 100 H	W 130 H
<b>Milling drum</b>		
Milling width	1,000 mm	1,300 mm
Milling depth* <sup>1</sup>	0 to 200 mm	
Drum diameter with tools	860 mm	
<b>Engine</b>		
Manufacturer	Deutz	
Type	TCD 2012 L06 2V	
Cooling	water	
Number of cylinders	6	
Rated power at 2,200 min <sup>-1</sup>	155 kW/208 HP/211 PS	
Displacement	6.1 l	
Fuel consumption at rated power	42 l/h	
Fuel consumption in field mix	17 l/h	
Emission standards	EU Stage 3a/US Tier 3, CN Stage 3	
<b>Electrical system</b>		
Electrical power supply	24 V	
<b>Tank capacities</b>		
Fuel tank	320 l	
Hydraulic oil tank	120 l	
Water tank	700 l	
<b>Driving properties</b>		
Travel speed in milling gear in 2-wheel drive design	0 to 60 m/min (3.6 km/h)	
Travel speed in milling gear in 4-wheel drive design	0 to 30 m/min (1.8 km/h)	
Travel speed in travel gear,	0 to 8 km/h	
<b>Tyres</b>		
Tyre size, front (Ø x W)	620 x 230 mm	
Tyre size, rear (Ø x W)	620 x 255 mm	
<b>Loading of the milled material</b>		
Belt width of discharge conveyor	400 mm	
Theoretical capacity of discharge conveyor	84 m <sup>3</sup> /h	

\*<sup>1</sup> = The maximum cutting depth may deviate from the value indicated due to tolerances and wear

	W 100 H	W 130 H
<b>Weight of base machine</b>		
Empty weight of machine excluding conveyor and tank contents	12,200 kg	12,700 kg
Operating weight, CE* <sup>2</sup>	12,900 kg	13,400 kg
Maximum operating weight (full tanks, full range of equipment)	14,360 kg	14,860 kg
<b>Weights of tank contents</b>		
Water tank filling in kg	700 kg	
Diesel tank filling in kg (0.83 kg/l)	265 kg	
<b>Additional add-on weights</b>		
<b>Driver and tools</b>		
Driver	75 kg	
5 cutting tool containers	125 kg	
On-board tools	30 kg	
<b>Optional milling drums in lieu of standard</b>		
Milling drum FB1000 HT22 LA18 with 80 picks	185 kg	-
Milling drum FB1300 HT22 LA18 with 97 picks	-	226 kg
<b>Optional additional equipment</b>		
Canopy fibreglass manually lowering	150 kg	
Discharge conveyor 400 mm wide	550 kg	
Discharge conveyor 8,020 mm long, 400 mm wide, with manual folding device	630 kg	

\*<sup>2</sup> = Weight of machine, half-full water tank, half-full fuel tank, driver, on-board tools, excluding equipment options

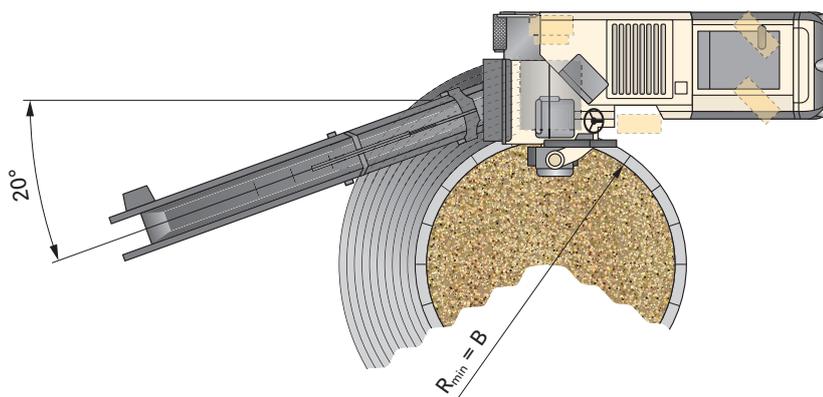
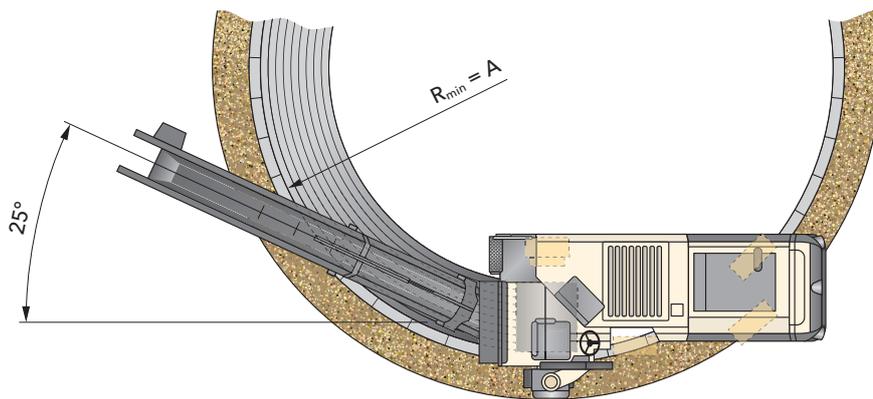
# Dimensions



	A	B
W 100 H	1,000	2,150
W 130 H	1,300	2,450

Dimensions in mm

\* Based on operating weight, CE with conveyor folded out



	A	B
W 100 H	3,800	1,800
W 130 H	4,100	1,500

Milling radius, 150 mm milling depth, dimensions in mm

# Standard equipment

	W 100 H	W 130 H
<b>Base machine</b>		
Basic machine with engine	■	■
Engine cover with noise insulation	■	■
<b>Milling drum unit</b>		
Wide opening scraper plate with automatic electric safety drum shutdown	■	■
Hydrostatic milling drum drive	■	■
Milling drum housing FB1000 FT200 without conveyor	□	—
Milling drum housing FB1300 FT200 without conveyor	—	□
<b>Milling drums</b>		
Milling drum FB1000 HT02 LA18 with 72 picks	□	—
Milling drum FB1300 HT02 LA18 with 89 picks	—	□
<b>Milled-out material loading</b>		
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	■	■
<b>Machine control and levelling system</b>		
Milling depth display	□	□
<b>Operator's stand</b>		
Continuous operator's stand with steering on right side	■	■
Operator's stand without seat	□	□
Version without weather canopy	□	□
<b>Under-carriage and height adjustment</b>		
Infinitely variable, hydraulic front-wheel drive with 3 speed ranges	■	—
Continuously variable, hydraulic all-wheel drive with three speed ranges and hydraulically relieved spring-loaded multi-disc brake front	—	■
Solid tyres	■	■
Hydraulic, easy front wheel steering	■	■
Mechanical milling depth display via gauge right and left	■	■
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	■	■
Version with front-wheel drive	□	—
Version with all-wheel drive	—	■
<b>Others</b>		
Lighting package with 4 LED headlights and a rotary beacon	■	■
Water sprinkler unit with tank (700 l capacity)	■	■
Set of tools for maintenance and servicing	■	■
Paint standard cream white RAL 9001	□	□

■ = Standard equipment  
 □ = Standard equipment, replaceable with optional equipment  
 □ = Optional equipment

# Optional equipment

	W 100 H	W 130 H
<b>Milling drum unit</b>		
Milling drum housing FB1000 FT200 for conveyor	<input type="checkbox"/>	–
Milling drum housing FB1300 FT200 for conveyor	–	<input type="checkbox"/>
<b>Milling drums</b>		
Milling drum FB1000 HT22 LA18 with 80 picks	<input type="checkbox"/>	–
Milling drum FB1300 HT22 LA18 with 97 picks	–	<input type="checkbox"/>
<b>Milled-out material loading</b>		
Discharge conveyor 400 mm wide	<input type="checkbox"/>	<input type="checkbox"/>
Discharge conveyor 8,020 mm long, 400 mm wide, with manual folding device	<input type="checkbox"/>	<input type="checkbox"/>
<b>Machine control and levelling system</b>		
Level Pro levelling system wire-rope right + left	<input type="checkbox"/>	<input type="checkbox"/>
Slope control sensor	<input type="checkbox"/>	<input type="checkbox"/>
<b>Operator's stand</b>		
Operator's stand with seat	<input type="checkbox"/>	<input type="checkbox"/>
Canopy fibreglass manually lowering	<input type="checkbox"/>	<input type="checkbox"/>
<b>Under-carriage and height adjustment</b>		
Version with all-wheel drive	<input type="checkbox"/>	–
<b>Others</b>		
Paint in 1 special colour (RAL)	<input type="checkbox"/>	<input type="checkbox"/>
Side plate with hydraulic lifting function	<input type="checkbox"/>	<input type="checkbox"/>
Mirrors	<input type="checkbox"/>	<input type="checkbox"/>
Lighting package with 3 halogen spotlights, 24 V	<input type="checkbox"/>	<input type="checkbox"/>
Additional large tool package	<input type="checkbox"/>	<input type="checkbox"/>

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



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