

Effective rear loader for economical milling operations.

# Cold Milling Machine

W 100 R | W 100 Ri | W 120 R | W 120 Ri



Effective rear loader for

economical milling operations





**POWERFUL COLD MILLING MACHINE IN THE ONE-METRE CLASS FOR ECONOMICAL MILLING OPERATIONS AT A WORKING WIDTH OF 1.00 M OR 1.20 M.**

**THE MACHINE OFFERS A LARGE VARIETY OF APPLICATIONS RANGING FROM SURFACE COURSE MILLING JOBS TO COMPLETE PAVEMENT REMOVAL.**

**A VARIETY OF VARIOUS MILLING DRUMS ENABLE HIGH LEVELS OF FLEXIBILITY AND MACHINE PERFORMANCE.**

**THE LEVELLING SYSTEM LEVEL PRO *PLUS* INTEGRATED IN THE MACHINE CONTROL SYSTEM PROVIDES PRECISE MILLING RESULTS.**

**TO OPTIMIZE THE MATERIAL LOADING PROCESS, THE POWERFUL REAR-LOADING SYSTEM CAN BE FLEXIBLY ADJUSTED.**

# At a glance: outstanding features of the cold milling machine

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## HIGH-PRECISION, INTUITIVE LEVELLING WITH LEVEL PRO *PLUS*

- > Easy, intuitive operation
- > Fully integrated into the machine management system
- > Many new complementary and automated features
- > Milling depth measurement via displacement sensors integrated in the hydraulic side plate cylinders
- > Ultrasonic sensor integrated in the telescoping levelling arm, left

2 |

## EFFICIENT MULTIFUNCTIONAL ARMREST

- > Ergonomically designed multifunctional armrest with colour control screen
- > Job data are displayed on the control screen
- > User-programmable "Favourites" keys

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## OPTIMUM VIEW OF IMPORTANT WORK AREAS

- > Unobstructed view of the right-hand side plate
- > Good view towards the rear
- > High-quality camera system providing a direct view of important work processes

4 |

## ERGONOMIC DESIGN AND OPERATOR COMFORT

- > Ergonomically designed comfort operator's seat including seat heating
- > Electrical water tank filling level indicator
- > Convenient access including "Welcome" and "Go home" lights feature
- > Wind and weather protection features on the operator's platform

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## QUICK AND PRECISE MANOEUVRING

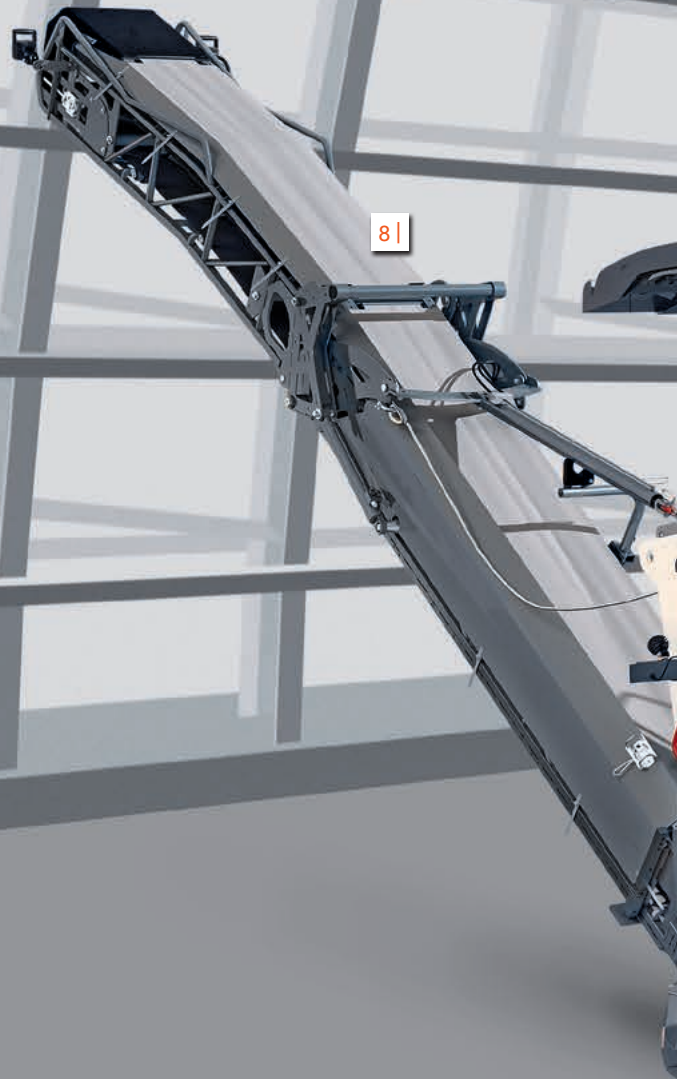
- > Travel speed of up to 7.5 km/h
- > Reversing with the milling drum switched on
- > Quick, precise height adjustment
- > Memory feature for height adjustment
- > Electronic traction drive control for precise milling results

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## MANOEUVRABLE AND COMPACT MACHINE

- > Front wheels featuring large steering angles for small turning radii
- > Quick steering using the steering wheel
- > Highly precise steering via the fingertip steering feature integrated in the multifunctional armrest
- > Compact machine dimensions

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## HIGH EFFICIENCY FOR TREMENDOUS PRODUCTIVITY

- > Variable supplementary weights of up to 400 kg
- > Automated WIDRIVE features significantly reduce operator interventions to allow one-man operation
- > Automated initiation of the milling process including relief sensors
- > Hydraulically engaging power belt tensioner
- > State-of-the-art WITOS® FleetView telematics system for efficient operation
- > Optimized ease of servicing

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## LOW ENVIRONMENTAL EMISSIONS

- > Engine models complying with EU Stage 3a/US Tier 3 or the stringent EU Stage 4/US Tier 4f emission standards
- > Standard diesel particulate filter for model complying with EU Stage 4/US Tier 4f
- > Three different milling drum speed options
- > Optimized soundproofing and heat insulation
- > Fan drive governed by engine speed



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## FULL FUNCTIONALITY FOR THE MILLING PROCESS

- > Extremely hard-wearing HT22 quick-change toolholder system as a standard feature
- > Hydraulic pick extractor for quick pick replacement
- > Hydraulically lifting side plates with proactive floating feature causing the side plates to be raised automatically in loose ground
- > Automatic raising of scraper by means of an overload sensor
- > Water spray volume adjustable electrically from the operator's platform

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## FLEXIBLE AND POWERFUL MATERIAL LOADING

- > Hydraulic folding conveyor for quick folding during operation on site
- > Wide conveyor slewing angles
- > Quick-release coupling for easy mounting and removal of the loading conveyor

# Highlights

# in operation





#### **IN FULL CONTROL**

THE W 100 R/W 100 Ri/W 120 R/W 120 Ri GIVES YOU FULL CONTROL: CLEARLY STRUCTURED CONTROLS ARRANGED WITH ERGONOMIC PRINCIPLES IN MIND. PERMITTING AN UNOBSTRUCTED VIEW OF IMPORTANT WORK AREAS. INTELLIGENT COMPUTER-ASSISTED SYSTEMS LENDING A HAND. INTERACTION BETWEEN MAN AND MACHINE DESIGNED TO PERFECTION: EASE OF OPERATION AND HIGH PERFORMANCE BECOME ONE.

# High-precision, intuitive levelling with **LEVEL PRO PLUS**

In cold milling operations, it is crucial to remove the pavement layers to the specified depth. The intuitive WIRTGEN **LEVEL PRO PLUS** levelling technology can be relied on to precisely maintain the specified milling depth.

## **EASY, INTUITIVE OPERATION**

The **LEVEL PRO PLUS** levelling system developed specifically for cold milling machines offers free menu configuration and intuitive one-hand operation via a rotary control. Highly precise milling results are one of the hallmarks of the **LEVEL PRO PLUS** system.

## **FULLY INTEGRATED**

Full integration of **LEVEL PRO PLUS** into the machine management system ensures a high level of automation.

## **COMPLEMENTARY AND AUTOMATED FEATURES**

The **LEVEL PRO PLUS** levelling system offers numerous complementary and automated features which relieve the operator of a part of his workload. This also speeds up the progress of operations.

## **DISPLACEMENT SENSORS**

The reference line is scanned by high-precision displacement sensors integrated in the hydraulic side plate cylinders and then displayed on the high-resolution **LEVEL PRO PLUS** control screen.

## **LEVELLING ARM**

The telescoping levelling arm with ultrasonic sensor enables reference surfaces to be scanned at distances of up to 2.0 m to the left of the machine, thus ensuring perfect milling results even in complex levelling situations.

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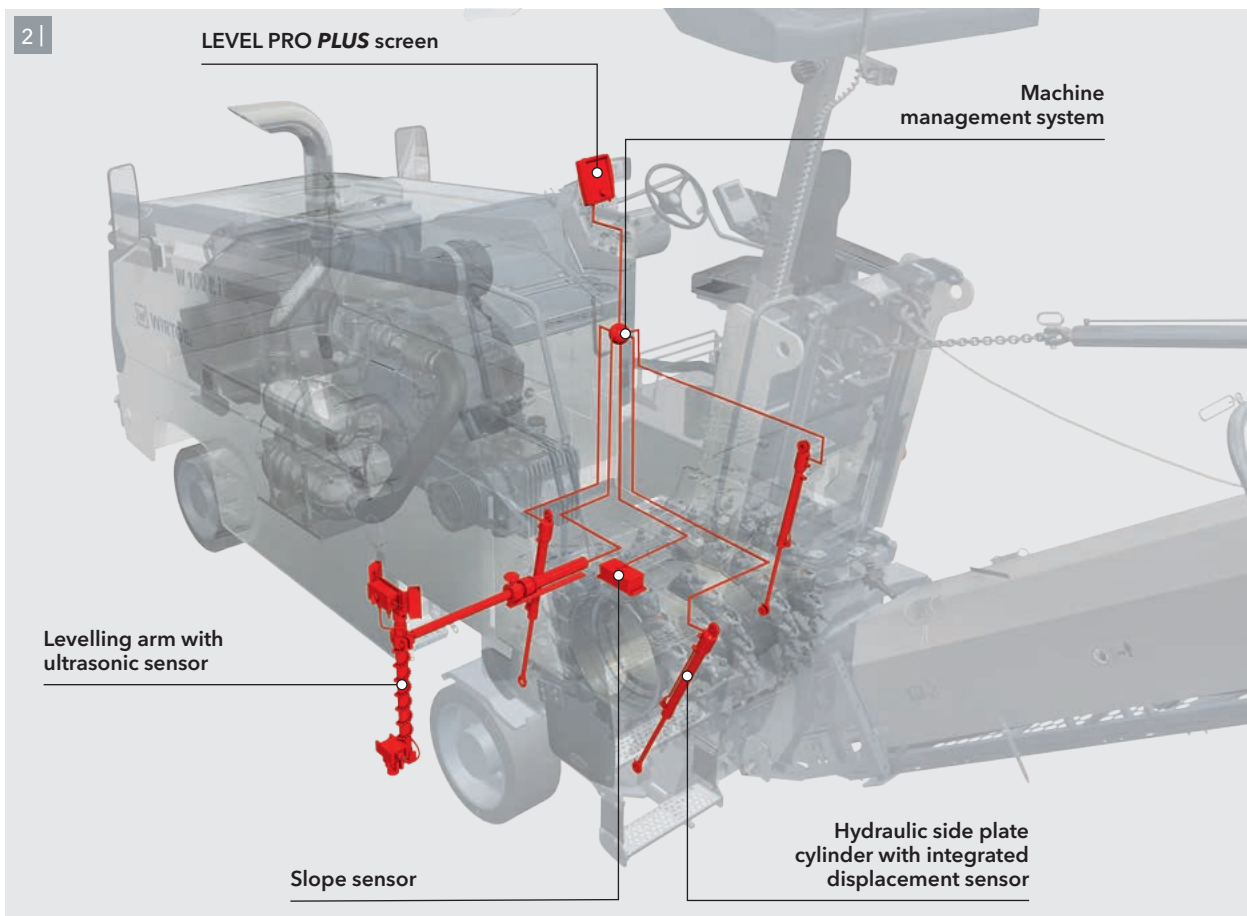




1 | LEVEL PRO PLUS is synonymous with perfect levelling quality at high operating speeds.

2 | The levelling system can be operated with a wide variety of different sensors.

3 | Ease of operation ensures an efficient levelling process.



# Efficient multifunctional armrest

The W 100 R/W 100 Ri/W 120 R/W 120 Ri is equipped with an efficient multifunctional armrest which not only speeds up processes and improves results: even more importantly, operators derive greater satisfaction from their work.

## ERGONOMICALLY DESIGNED MULTIFUNCTIONAL ARMREST

The multifunctional armrest can be adjusted to meet the operator's personal preferences and combines innovative design with perfect user-friendliness. Important information is displayed on the colour control screen. In addition, the multifunctional armrest is fully integrated into the standardized operating concept of the entire fleet of WIRTGEN small milling machines and allows productive operation right from the start.

## JOB DATA

Information such as the weight and volume of the milled material, size of the milled areas, or number of trucks loaded can be displayed automatically. These job data enable the logging of daily production rates.

## "FAVOURITES" KEYS

Four "Favourites" keys can be programmed with twenty different functions according to the operator's personal preferences.

1 | *The operator needs one hand only to be in full control.*

1 |



2 | The ergonomically designed operator's platform with multifunctional armrest boosts machine productivity.



# Optimum view of important work areas

1 | *The camera system zeroes in on important work areas, thus achieving an increase in performance and quality.*

2 | *An unobstructed view of the right-hand side plate is ensured.*

Good visibility pays for itself quickly. The intelligent visibility concept of the W 100 R/ W 100 Ri/W 120 R/W 120 Ri relieves the operator of a significant part of his workload, thus leading to improved milling results.

## UNOBSTRUCTED VIEW OF THE RIGHT-HAND SIDE PLATE

The geometry of the operator's platform has been optimized to ensure an unobstructed

view of the right-hand side plate and of the area ahead of the milled surface.

## GOOD VIEW TOWARDS THE REAR

The compact conveyor suspension design permits a good view of the milled surface at the rear of the machine.

## HIGH-QUALITY CAMERA SYSTEM

The camera system comprises two cameras plus a hard-wearing screen. One camera each is installed at the end of the discharge conveyor and underneath the machine, delivering high-resolution images to the screen of the loading situation and of the area in front of the milling drum housing.



# Ergonomic design and operator comfort

A generous array of equipment features, adjustment to personal preferences and features relieving the operator of a part of his workload are the major contributors towards a significant increase in operator comfort. This is reflected in high machine productivity in the field.

## COMFORT OPERATOR'S SEAT

The ergonomically designed operator's seat with integrated seat heating can be rotated to the left and right to offer a good view to the sides and to the rear.

## ELECTRICAL WATER FILLING LEVEL INDICATOR

The water tank filling level can be checked conveniently via the control screen.

## "WELCOME" AND "GO HOME" LIGHTS FEATURE

The access ladder and operator's platform are fully illuminated when approaching or walking away from the machine.

## WEATHER PROTECTION

Additional wind and weather protection features on the operator's platform offer protection from exposure to rain and wind.

**1** | *The high standards of comfort enable non-tiring, productive operation.*

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Highlights in

driving and steering





**ON THE ROAD OF SUCCESS - THE INTELLIGENT WAY**

NARROW PASSAGES. DIFFICULT GROUND CONDITIONS. PERMANENT ROAD FIXTURES. MASTERED QUICKLY AND WITH SUPERIOR EASE BY THE W 100 R/W 100 Ri/W 120 R/W 120 Ri. EQUIPPED WITH TRIED-AND-TESTED, INTELLIGENT FEATURES. SUCH AS TREMENDOUS MANOEUVRABILITY. SUCH AS ELECTRONIC TRACTION DRIVE CONTROL. ALWAYS REACHING THE GOAL FAST. IN SHORT: EACH JOB IS COMPLETED IN NO TIME AT ALL.

# Quick and precise manoeuvring

Innovations in driving and steering boost efficiency in everyday operation on the construction site. The small milling machine's compact design and excellent manoeuvrability enable it to be moved from one job location to the next in the shortest possible time.

## MAXIMUM SPEED OF 7.5 KM/H

The machine's travel speed of up to 7.5 km/h allows for the extra-quick completion of construction projects.

## REVERSING WITH THE MILLING DRUM SWITCHED ON

Reversing with the milling drum switched on permits quick and easy manoeuvring on the construction site.

## QUICK HEIGHT ADJUSTMENT

The electrohydraulic height adjustment feature enables quick and precise adjustment of the milling depth.

## MEMORY FEATURE FOR HEIGHT ADJUSTMENT

For quick, convenient machine height adjustment, three different positions for each machine side can be stored on memory buttons integrated in the multifunctional armrest.

## ELECTRONIC TRACTION DRIVE CONTROL

Electronic traction drive control with two transport and two milling speeds permits precise manoeuvring to achieve highly precise milling results.

**1** | Quick manoeuvring in narrow passages is an easy exercise for the small milling machine.





2 | When pivoted in front of the milling drum, the right-hand rear wheel allows precise milling along obstacles such as kerbs or walls.

3 | Electronic traction drive control enables precise milling, for example, along road fixtures.



# Manoeuvrable and compact machine

The W 100 R/W 100 Ri/W 120 R/W 120 Ri small milling machine is an expert in narrow bends and urban environments: It achieves small turning radii and precise milling results regardless of site conditions.

## LARGE STEERING ANGLES

Large steering angles to the left and right guarantee small turning radii to allow quick manoeuvring even in narrow passages.

## QUICK-STEERING FEATURE

When extra-quick steering is required, for example, when manoeuvring or turning, the machine is steered via the steering wheel as usual.

## FINGERTIP STEERING SYSTEM

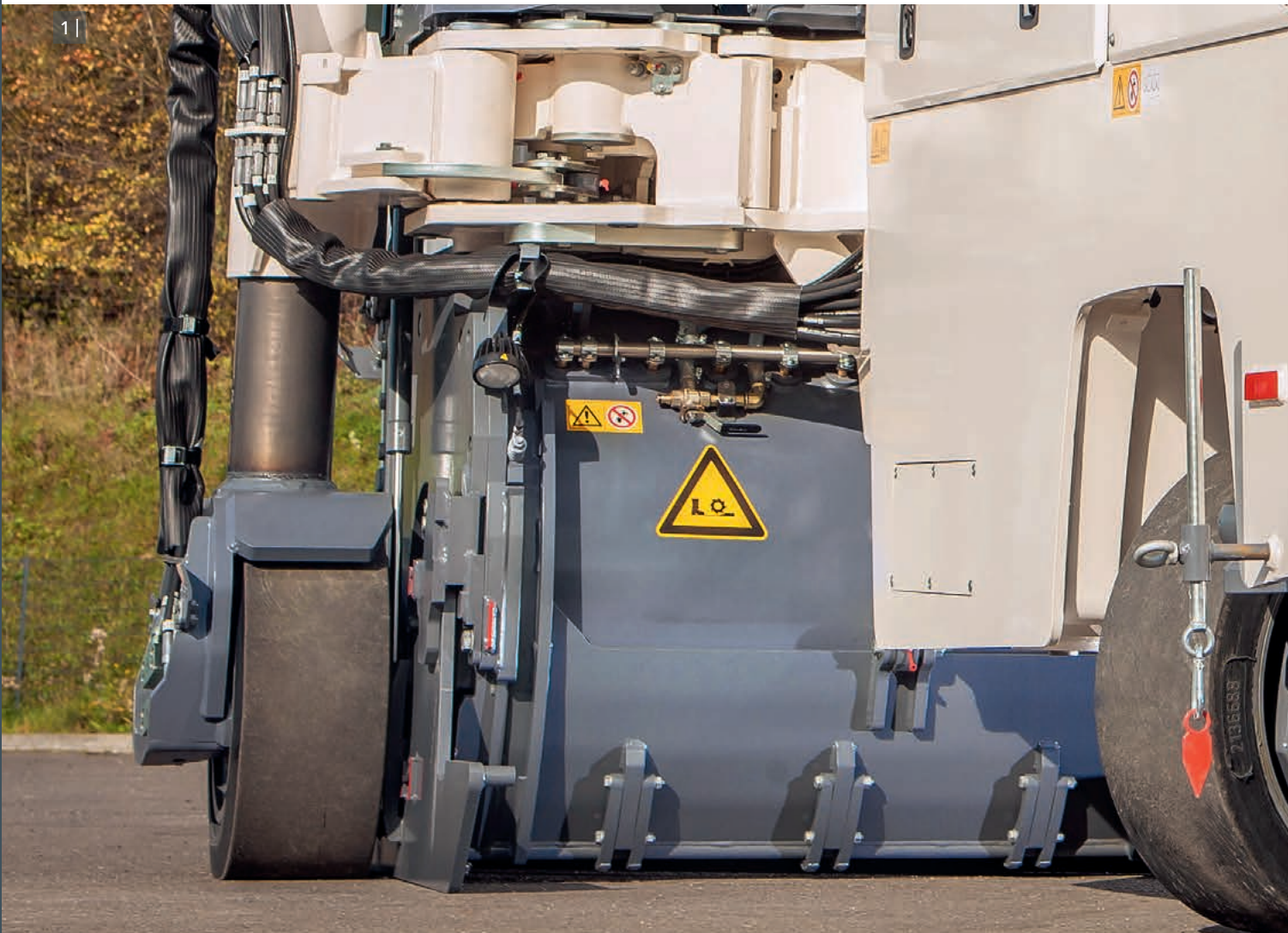
The highly responsive hydraulic steering system enables the machine to be steered precisely and effortlessly also via the right-hand multifunctional armrest.

## COMPACT MACHINE DESIGN

The compact design of the small milling machine not only enables it to operate in narrow passages but also ensures ease of transport.

1 | *The machine's extremely large steering angles facilitate operation on construction sites offering limited space.*

2 | *The machine's compact design makes easy work of loading and transport.*









# Highlights in milling and loading

## **FULLY ENGINEERED CUTTING TECHNOLOGY**

PERFECTLY MATCHED COMPONENTS MAKE UP THE MILLING DRUM UNIT. MANUFACTURED FROM HIGH-QUALITY MATERIALS, OPTIMIZED IN BOTH FUNCTIONALITY AND DESIGN. FOR PERFECTLY EVEN MILLED SURFACES, EXTENDED DURABILITY AND HIGH MACHINE PRODUCTIVITY. PAIRED WITH THE POWERFUL CONVEYOR SYSTEM INSTALLED IN THE W 100 R/W 100 Ri/W 120 R/W 120 Ri REAR LOADER. IN OTHER WORDS: SUCCESS GUARANTEED.

# Full functionality for the milling process

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A host of smart solutions for the milling drum, side plates and scraper speed up the milling process while at the same time improving the quality of the milling result.

## HT22 QUICK-CHANGE TOOLHOLDER SYSTEM

The extremely hard-wearing HT22 quick-change toolholder system (standard) minimizes breaks in operation and increases the lifespan of the entire milling drum.

## HYDRAULIC PICK EXTRACTOR

The hydraulically operated pick extractor assists the machine operator during pick replacement.

## HYDRAULICALLY LIFTING SIDE PLATES

Overload sensors installed at the side plates left and right cause the side plates to be raised briefly, for example, to prevent sinking in on soft ground.

## AUTOMATIC RAISING OF SCRAPER

Overload sensors protect the milling drum unit from damage: they cause the scraper blade to be raised briefly, for example, to avoid obstacles or ground irregularities.

## ELECTRICALLY ADJUSTABLE WATER QUANTITY

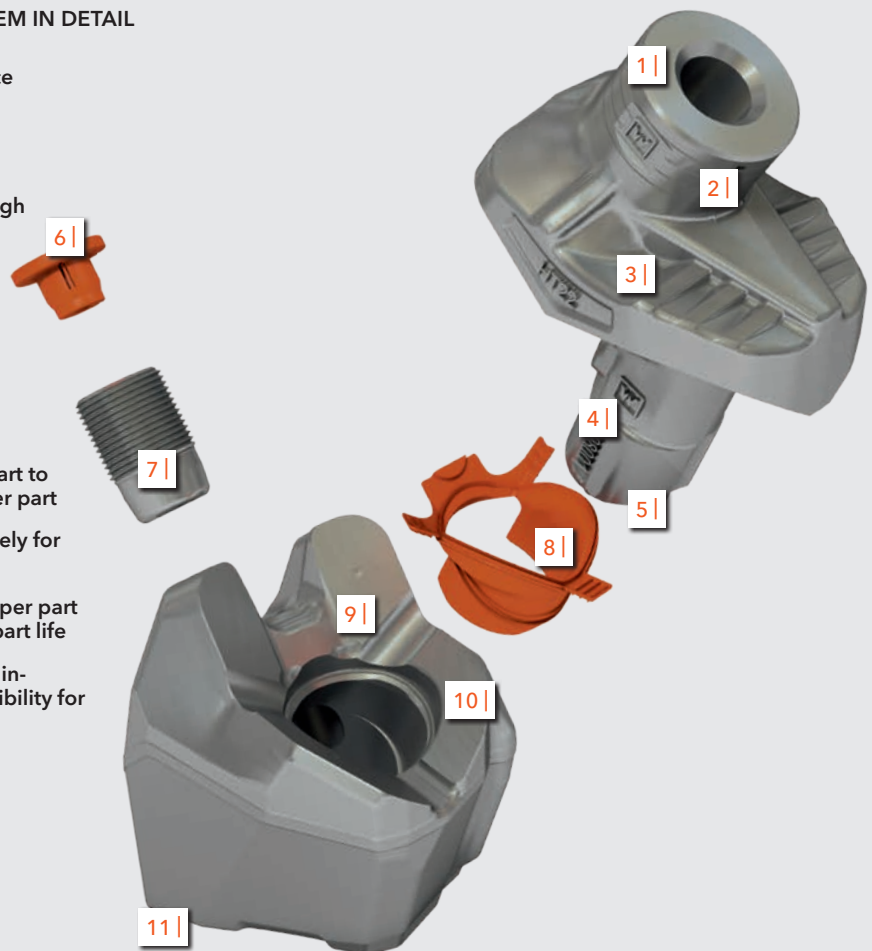
The quantity of water sprayed on the milling drum can be adjusted from the operator's platform to ensure reliable pick cooling, prevent dust development and permit extended uptimes.

## DIFFERENT TYPES OF MILLING DRUMS

A wide array of different original WIRTGEN standard and special milling drums is on offer to cater to a wide range of applications.

## HT22 QUICK-CHANGE TOOLHOLDER SYSTEM IN DETAIL

- 1 | Extremely large maximum wear distance
- 2 | Wear markers at 5 mm intervals
- 3 | High wear volume
- 4 | Optimized shank angle geometry for high component strength
- 5 | Large shank cross-section for significantly higher shank fracture strength
- 6 | Protective plug prevents soiling of bolt head
- 7 | Heavy-duty retaining bolt
- 8 | Seal between upper part and bottom part to allow simple insertion / removal of upper part
- 9 | Upper part covers bottom part completely for full protection of bottom part
- 10 | Extra-large contact surface between upper part and bottom part for extended bottom part life
- 11 | Optimized welded connection offering increased strength and simultaneous flexibility for optimum pick rotation



1 | The electrohydraulically operated pick extractor improves the machine's overall productivity.

2 | The side plates can be lifted hydraulically on both sides of the machine.



# Flexible and powerful material loading

A cold milling machine is only ever as good as its conveyor system. That is why the W 100 R/W 100 Ri/W 120 R/W 120 Ri has been designed with maximum loading performance in mind.

## HYDRAULIC FOLDING CONVEYOR

The hydraulic folding conveyor is folded quickly for easy transport and to allow adjustment to site conditions.

## WIDE CONVEYOR SLEWING ANGLES

Wide conveyor slewing angles of 25° each to the left and right enable the milled material to be loaded even under difficult site conditions.

1 | *The small milling machine ensures powerful, efficient loading of the milling material.*

## QUICK-RELEASE COUPLING

The innovative quick-release coupling ensures easy plugging of hydraulic connections when mounting or removing the discharge conveyor.

## LARGE BELT WIDTH AND CLEAT HEIGHT

Large belt width and cleat height ensure high conveying capacity.






2 | The quick-release coupling speeds up mounting and removal of the discharge conveyor.

3 | The folding conveyor reduces the machine's transport length.







# Highlights in performance and productivity

## **TREMENDOUS MILLING POTENTIAL IN COMPACT DESIGN**

HIGH MILLING PERFORMANCE IN A WIDE VARIETY OF APPLICATIONS. FOR A MULTITUDE OF SMALL CONSTRUCTION PROJECTS AND MILLING JOBS REQUIRING UTMOST PRECISION. COMPLETED EFFORTLESSLY AND IN NO TIME AT ALL. COST-EFFICIENT AND ENVIRONMENTALLY SUSTAINABLE. ON BOARD: TRIED-AND-TESTED, INTELLIGENT SOLUTIONS. THE WIRTGEN W 100 R/W 100 Ri/W 120 R/W 120 Ri SMALL MILLING MACHINE: FULL SPEED AHEAD ON THE CONSTRUCTION SITE.

# High efficiency for tremendous productivity

The high-powered cold milling machine in the one-metre class impresses with a wide range of applications. Its productivity is enhanced further by features tailored to field requirements.

## SUPPLEMENTARY WEIGHTS

Variable supplementary weights of up to 400 kg altogether provide for a high operating weight, optimum traction and effortless transport.

## FEWER OPERATOR INTERVENTIONS

The WIDRIVE machine management system relieves the operator of a part of his workload and improves performance by controlling, for example, the engine speed, travel speed and water spray system.

## AUTOMATED INITIATION OF THE MILLING PROCESS

Automated initiation of the milling process is an integrated, innovative feature making easy

work of machine operation by means of relief sensors.

## HYDRAULIC POWER BELT TENSIONER

Efficient and reliable transmission of power is ensured by the hydraulically operated, automatic power belt tensioner.

## WITOS® FLEETVIEW TELEMATICS SYSTEM

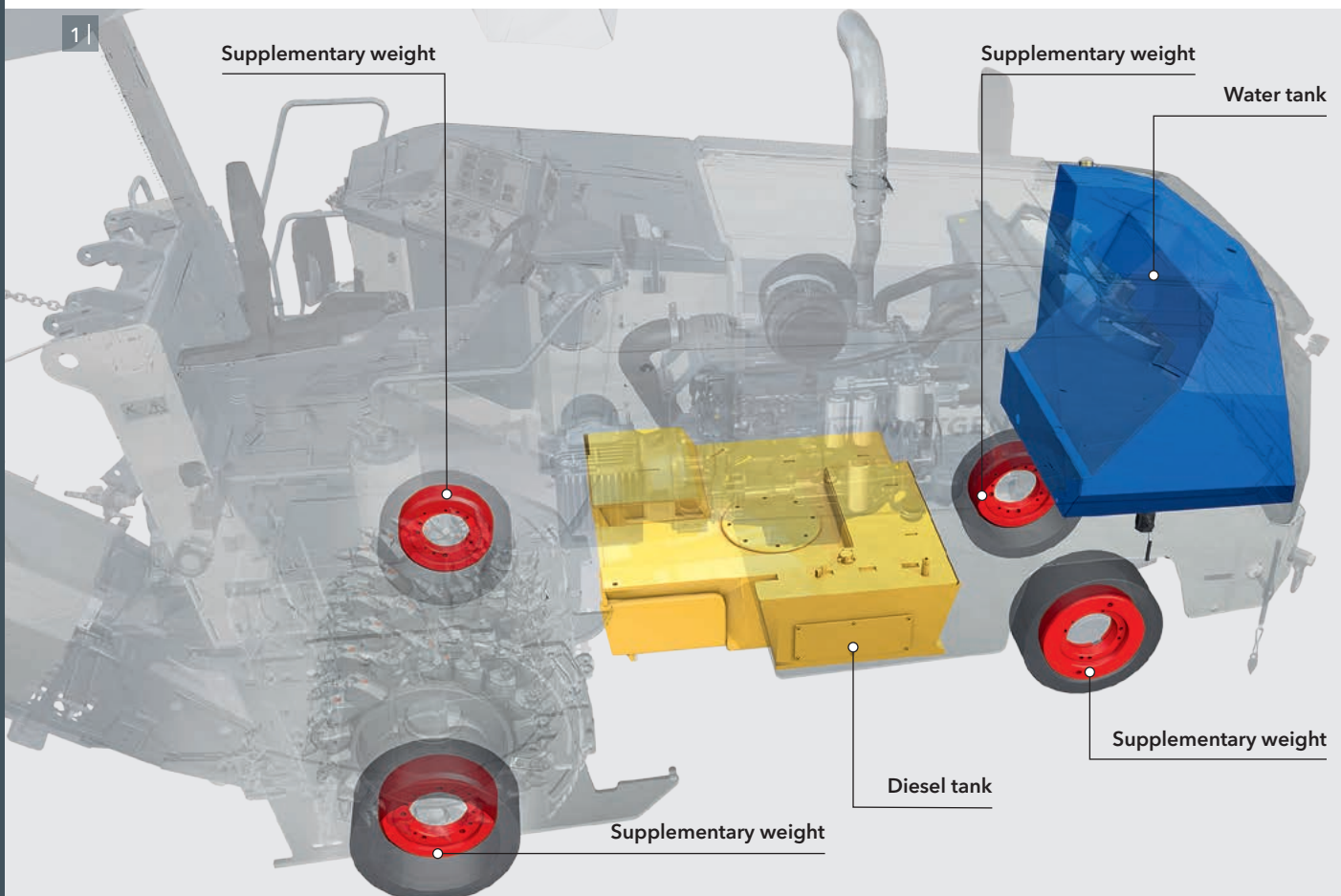
The efficient WIRTGEN WITOS® FleetView telematics system supports fleet management, machine position and status monitoring, as well as maintenance and diagnostic procedures.

## OPTIMIZED EASE OF SERVICING

Ready access to all points of maintenance and inspection minimizes maintenance requirements.

1 | *Supplementary weights ensure maximum traction in every job.*

2 | *Ready access to machine components ensures ease of maintenance.*





# Low environmental emissions

Low fuel consumption rates and low noise emission levels protect both the operator and the environment. In the final analysis, we have provided the small milling machine with environmentally friendly technical features which increase cost-efficiency and improve operator performance.

1 | *The engine controller increases the torque under high load which results in high milling performance.*

2 | *The diesel engine installed in the W 100 R/W 120 R offers high-performance, fuel-efficient engine technology.*

3 | *The diesel engine installed in the W 100 Ri/W 120 Ri is additionally characterized by effective exhaust gas purification.*

## TWO ENGINE MODELS

The engine technology installed in the W 100 R and W 120 R complies with the exhaust emission standards of EU Stage 3a/US Tier 3. The W 100 Ri and W 120 Ri comply with the stringent specifications of exhaust emission standards EU Stage 4/US Tier 4f.

## DIESEL PARTICULATE FILTER COMES AS STANDARD

The diesel particulate filter integrated into the engine technology of the W 100 Ri and

W 120 Ri as a standard feature complies with even stricter exhaust emission requirements.

## THREE DIFFERENT MILLING DRUM SPEED OPTIONS

Three different milling drum speeds enable tremendous milling performance in a wide range of applications.

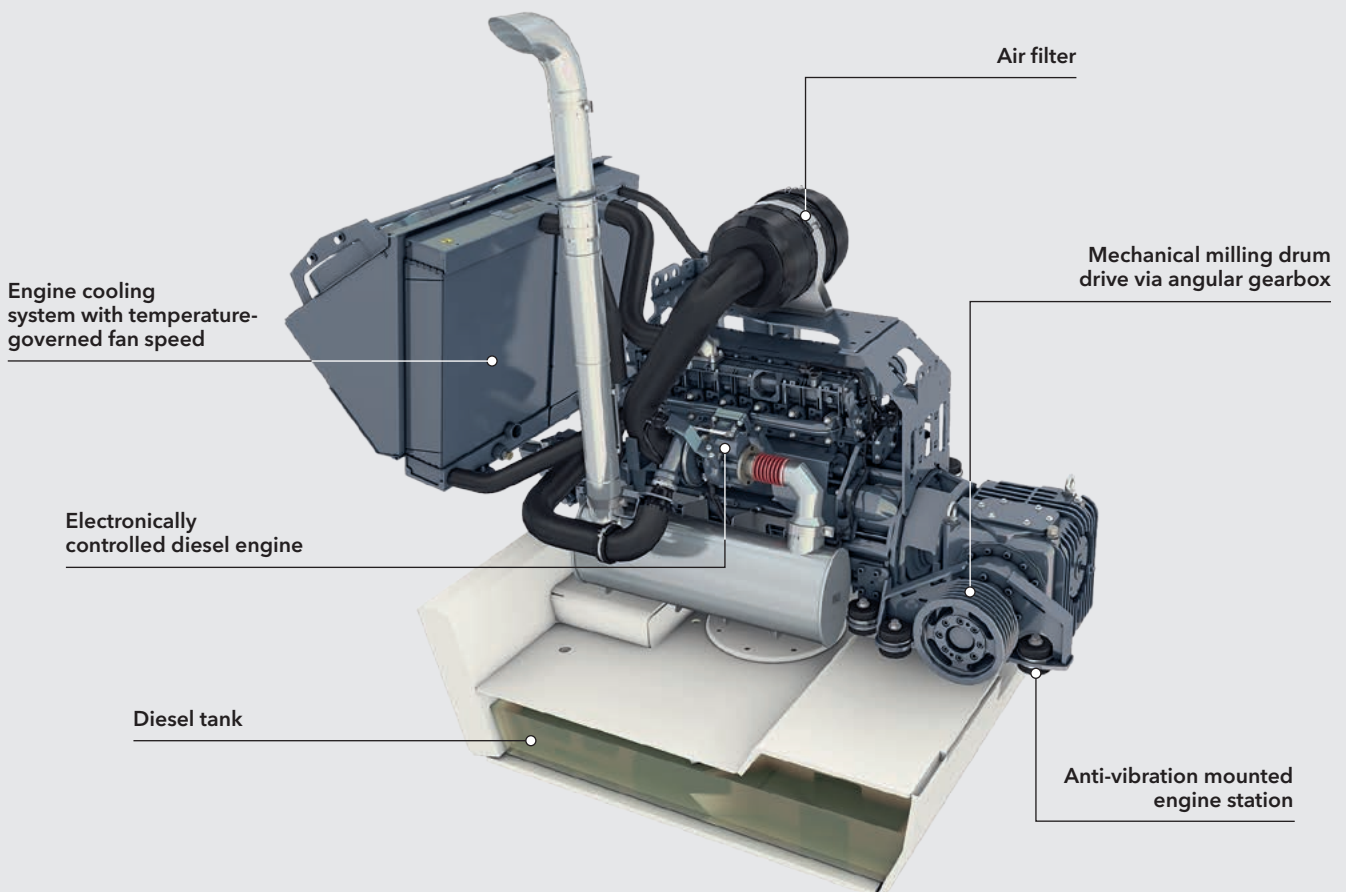
## SOUNDPROOFING AND HEAT INSULATION

The effectively optimized soundproofing and heat insulation feature significantly reduces noise emission levels.

## FAN DRIVE GOVERNED BY ENGINE SPEED

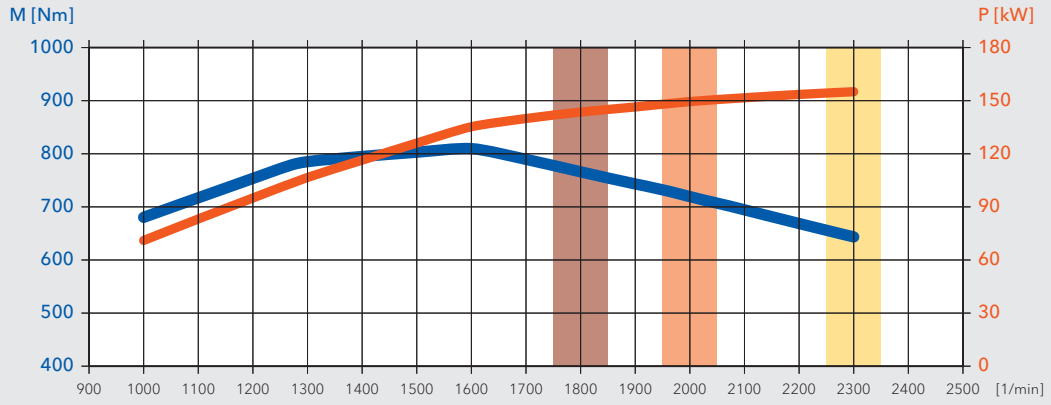
The cooling system with temperature-controlled fan speed ensures low noise emission levels.

2 | ENGINE OF THE W 100 R/W 120 R, EU STAGE 3A/US TIER 3

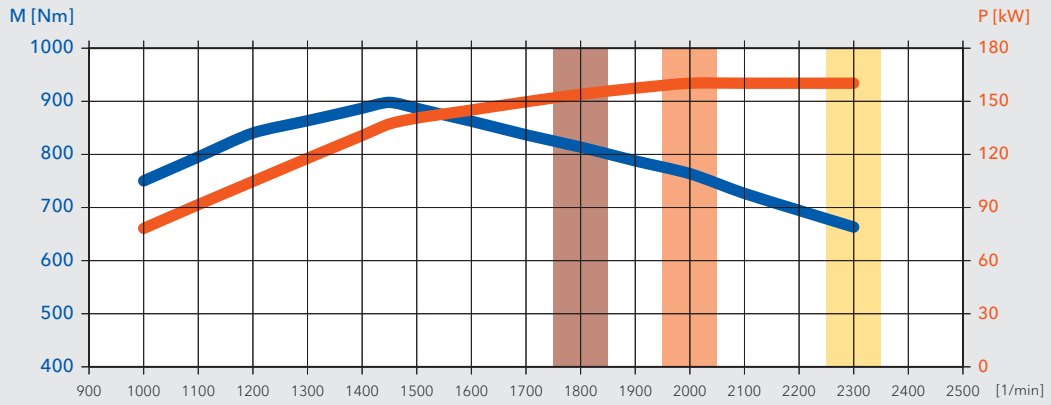


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ENGINE CHARACTERISTICS W 100 R/W 120 R (EU STAGE 3A/US TIER 3)



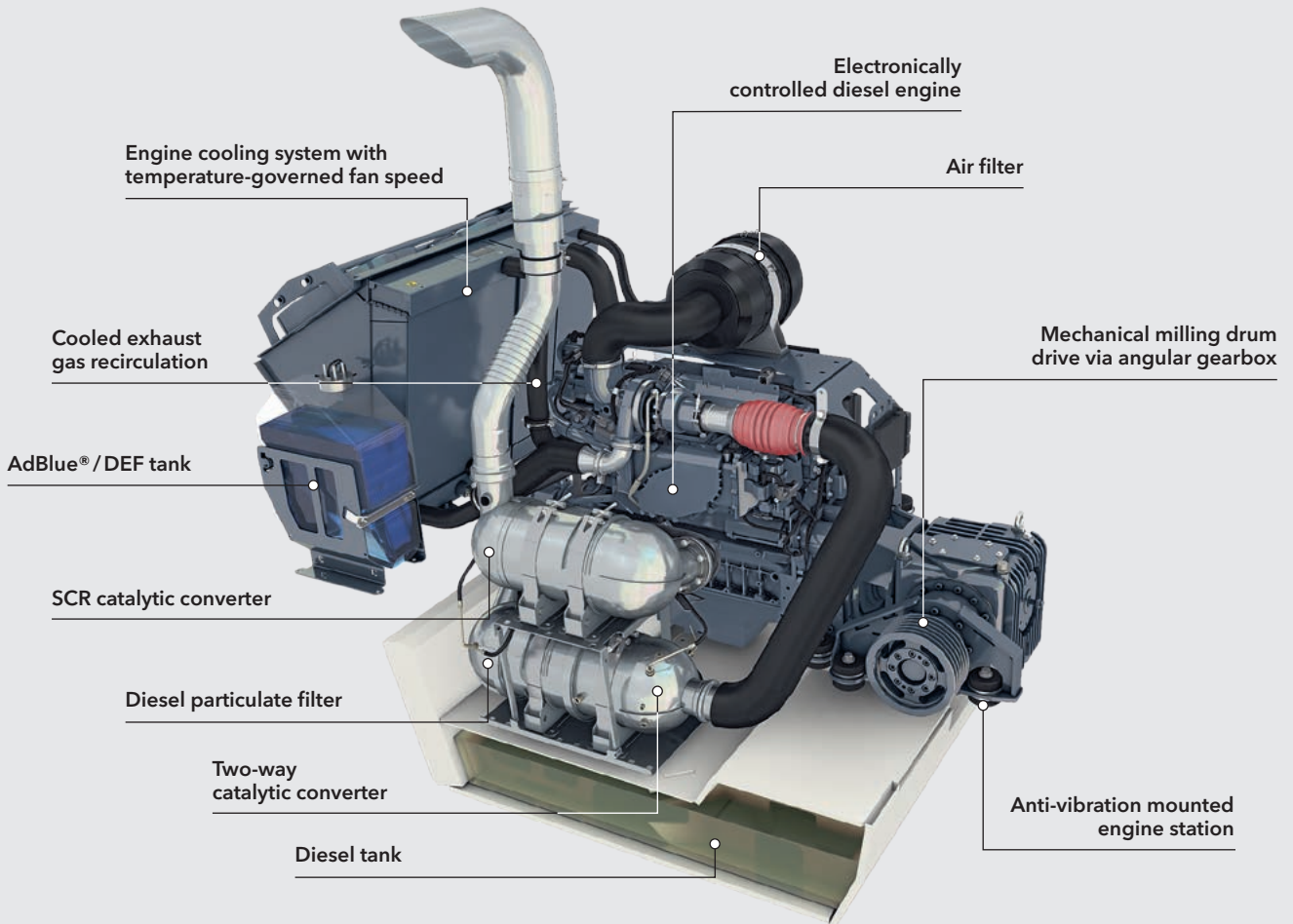
ENGINE CHARACTERISTICS W 100 Ri/W 120 Ri (EU STAGE 4/US TIER 4F)



— Engine output    
 — Torque    
 ■ Engine speed = 1,800 rpm    
 ■ Engine speed = 2,000 rpm    
 ■ Engine speed = 2,300 rpm

3 |

ENGINE OF THE W 100 Ri/W 120 Ri, EU Stage 4/US Tier 4f



# Technical specification

	W 100 R	W 120 R	W 100 Ri	W 120 Ri
<b>Milling drum</b>				
Milling width, standard	1,000 mm	1,200 mm	1,000 mm	1,200 mm
Milling width, optional	-	-	600 mm	-
Milling depth * <sup>1</sup>	0 to 300 mm			
Drum diameter with tools	930 mm			
<b>Engine</b>				
Manufacturer	Deutz			
Type	TCD 2012 L06 2V		TCD 6.1 L6	
Cooling	Water			
Number of cylinders	6			
Rated power at 2,300 rpm	155 kW/208 HP/211 PS		160 kW/215 HP/218 PS	
Maximum power at 2,300 rpm	155 kW/208 HP/211 PS		160 kW/215 HP/218 PS	
Displacement	6,100 cm <sup>3</sup>			
Fuel consumption at rated power	42 l/h		44 l/h	
Fuel consumption in field mix	17 l/h		18 l/h	
Exhaust emission standards	EU Stage 3a/US Tier 3		EU Stage 4/US Tier 4f	
<b>Electrical system</b>				
Voltage supply	24 V			
<b>Tank capacities</b>				
Fuel tank	480 l			
AdBlue®/DEF tank	-		32 l	
Hydraulic fluid tank	86 l			
Water tank	825 l			
<b>Driving performance</b>				
Max. milling speed	0 to 33 m/min (2 km/h)			
Max. travel speed	0 to 125 m/min (7.5 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	500 mm			
Theoretical capacity of discharge conveyor	125 m <sup>3</sup> /h			

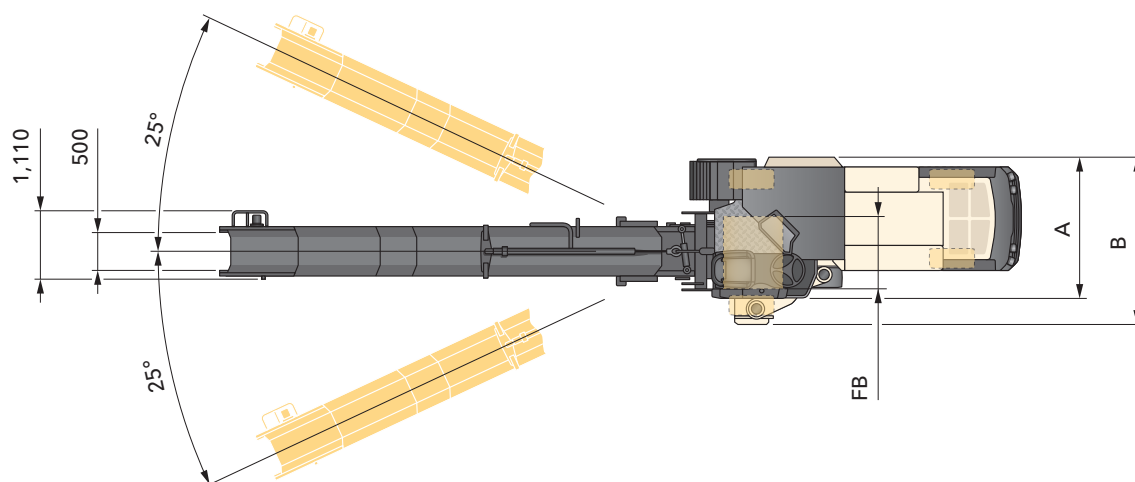
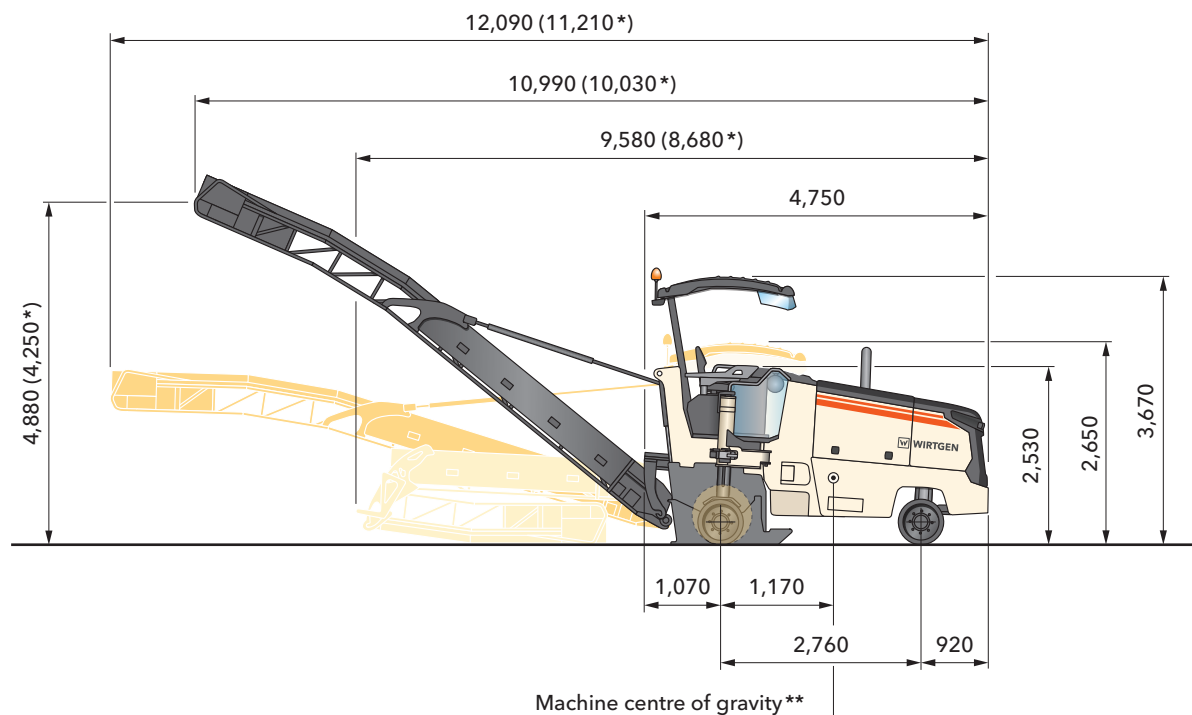
\*<sup>1</sup> = The maximum milling depth may deviate from the value indicated due to tolerances and wear.



	W 100 R	W 120 R	W 100 Ri	W 120 Ri
<b>Weight of basic machine</b>				
Empty weight of machine excluding tank contents	14,000 kg	14,650 kg	14,100 kg	14,750 kg
Operating weight, CE* <sup>2</sup>	14,700 kg	15,350 kg	14,800 kg	15,450 kg
Maximum operating weight (full tanks, full range of equipment)	16,650 kg	17,450 kg	16,800 kg	17,600 kg
<b>Weights of tank contents</b>				
Filling of water tank	825 kg			
Filling of fuel tank (0.83 kg/l)	400 kg			
Filling of AdBlue®/DEF tank (1.1 kg/l)	-	35.2 kg		
<b>Additional add-on weights</b>				
<b>Operator and tools</b>				
Operator	75 kg			
2 pick containers	50 kg			
On-board tools	30 kg			
<b>Optional milling drum units in lieu of standard</b>				
Milling drum housing FB600 FCS	-	-	-30 kg	-
Milling drum housing FB1000 FCS-L	200 kg	-	200 kg	-
Milling drum housing FB1200 FCS-L	-	300 kg	-	300 kg
<b>Optional milling drums in lieu of standard</b>				
Milling drum FB600 HT22 LA15 with 72 picks	-	-	-180 kg	-
FCS milling drum FB1000 HT22 LA15 with 100 picks	20 kg	-	20 kg	-
FCS milling drum FB1000 HT22 LA18 with 84 picks	-40 kg	-	-40 kg	-
FCS milling drum FB1200 HT22 LA18 with 101 picks	-	-90 kg	-	-90 kg
FCS milling drum FB1000 HT22 LA8 with 148 picks	360 kg	-	360 kg	-
FCS milling drum FB1200 HT22 LA8 with 173 picks	-	400 kg	-	400 kg
FCS milling drum FB1000 HT5 LA6X2 with 340 picks	300 kg	-	300 kg	-
FCS milling drum FB1200 HT5 LA6X2 with 408 picks	-	360 kg	-	360 kg
<b>Optional supplementary weights</b>				
Supplementary weight for flexible use	400 kg			
<b>Optional additional equipment</b>				
Discharge conveyor in hydraulic folding design, 7,350 mm long with 500 mm wide belt	170 kg			
Discharge conveyor in hydraulic folding design, 6,500 mm long with 500 mm wide belt	100 kg			
Canopy	150 kg			

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

# Dimensions

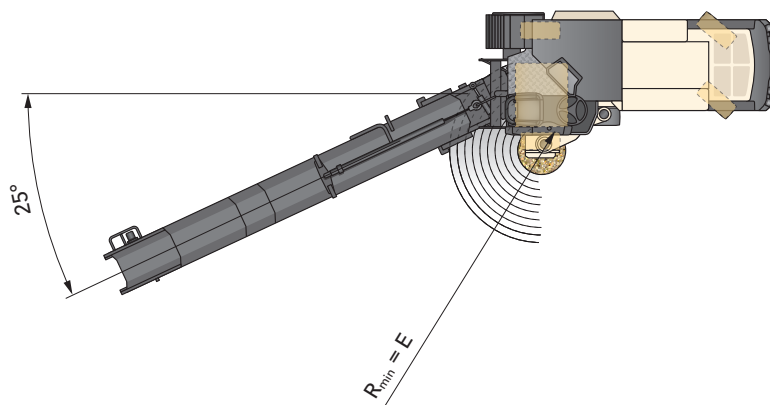
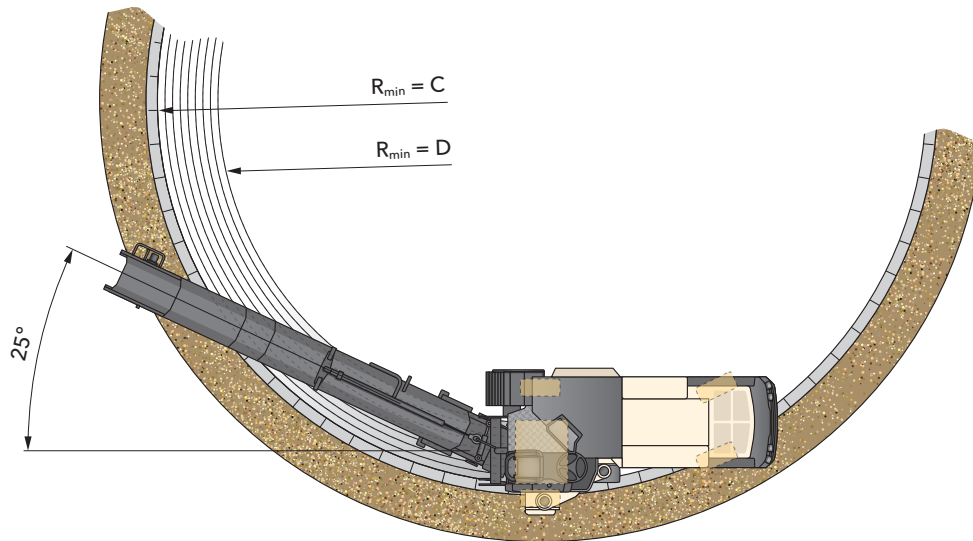


	FB	A	B
W 100 Ri	600	1,940	2,290
W 100 R/W 100 Ri	1,000	1,940	2,290
W 120 R/W 120 Ri	1,200	2,140	2,490

**Dimensions in mm**

\* = Short discharge conveyor in folding design

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



	C	D	E
W 100 Ri (FB600)	3,800	3,200	385
W 100 R/W 100 Ri	3,800	2,800	385
W 120 R/W 120 Ri	4,000	2,800	185

Milling radius, milling depth 150 mm, dimensions in mm

# Standard equipment

	W 100 R	W 120 R	W 100 Ri	W 120 Ri
<b>Base machine</b>				
Engine cover with noise insulation and flexibly decoupled engine mounting for especially quiet running and low noise emissions	■	■	■	■
<b>Milling drum unit</b>				
Automatically activating, hydraulic drive belt tensioner for reliable power transmission to the milling drum	■	■	■	■
Hydraulically lifting side plate right and left	■	■	■	■
Round milling drum housing and straight left side plate for optimum material transport, making for low left-over amounts when lifting out the milling drum	■	■	■	■
The right side of the milling drum housing can easily be folded down for maintenance or milling drum change	■	■	■	■
Optimised for quick change of the milling drum, including by using centring pins with the side door of the milling drum housing	■	■	■	■
With automatic electrical safety shut-off for the milling drum	■	■	■	■
Milling drum housing FB1000	□	–	□	–
Milling drum housing FB1200	–	□	–	□
Manually adjustable front milling drum unit seal FB1000	□	–	□	–
Manually adjustable front milling drum unit seal FB1200	–	□	–	□
<b>Milling drums</b>				
Milling drum FB1000 HT22 LA15 with 100 picks	□	–	□	–
Milling drum FB1200 HT22 LA18 with 101 picks	–	□	–	□
<b>Milled-out material loading</b>				
Machine prepared for optional material loading by discharge conveyor	■	■	■	■
Conveyor speed continuously variable	■	■	■	■
Conveyor slewing angle right/left 25 degrees each for significantly improved loading procedures	■	■	■	■
Machine with hydraulic preliminary equipment for a discharge conveyor - screw coupling	□	□	□	□
Discharge conveyor, 7,350 mm long, 500 mm wide	□	□	□	□
<b>Machine control and levelling system</b>				
Digital milling depth indicator in the control display	□	□	□	□
<b>Operator's stand</b>				
Operator's stand with ergonomically arranged operator's seat, control panel arranged on the right and digital milling depth indicator in the control display	■	■	■	■
Steering console with adjustable rake and reach for ideal adaptation of the operator's stand to the operator	■	■	■	■

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

	W 100 R	W 120 R	W 100 Ri	W 120 Ri
<b>Operator's stand</b>				
3 mirrors	■	■	■	■
Machine design permits unobstructed view of the milled edge at the right and left as well as the working area in front of the milling drum on the right	■	■	■	■
Conveniently accessible ladder/footstep to the operator's stand with night-time lighting and especially low, folding bottom edge of the latter/footstep	■	■	■	■
Robust anti-vandalism protection for the controls	■	■	■	■
Standard operator's seat	□	□	□	□
Operator's stand without roof	□	□	□	□
<b>Under-carriage and height adjustment</b>				
Precise machine height adjustment in 1 or 5 mm steps from the machine control panel	■	■	■	■
Infinitely variable, hydraulic all-wheel drive with three speed ranges	■	■	■	■
Digital load control, manual engageable, hydraulic differential lock (by flow distributor)	■	■	■	■
Particularly wide solid rubber tyres for the lowest ground pressures and optimum traction	■	■	■	■
For milling along kerb edges, the rear right support wheel can be swivelled hydraulically from the operator's stand in front of the milling drum	■	■	■	■
Hydraulic spring-loaded brake	■	■	■	■
Proportional height adjustment at rear	■	■	■	■
Front axle for working with a FB1000/FB1200	□	□	□	□
<b>Others</b>				
Flexible weight concept by optional additional weights	■	■	■	■
Particularly low machine centre of gravity for high stability of the machine	■	■	■	■
Robust and easily maintained machine chassis with optimum ground clearance and short overhangs	■	■	■	■
Device for towing away	■	■	■	■
Reversing horn	■	■	■	■
Large tool package with lockable tool box and additional storage space for two pick buckets	■	■	■	■
Machine preparation for installing the control unit for WITOS® FleetView	■	■	■	■
European type test certificate, Euro Test-mark and CE conformity	■	■	■	■
Paint standard cream white RAL 9001	□	□	□	□
Halogen/LED lighting package including rotating beacon	□	□	□	□

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# Optional equipment

	W 100 R	W 120 R	W 100 Ri	W 120 Ri
<b>Milling drum unit</b>				
Milling drum housing FB600 FCS	–	–	<input type="checkbox"/>	–
Milling drum housing FB1000 FCS-L	<input type="checkbox"/>	–	<input type="checkbox"/>	–
Milling drum housing FB1200 FCS-L	–	<input type="checkbox"/>	–	<input type="checkbox"/>
Manually adjustable front milling drum unit seal FB600	–	–	<input type="checkbox"/>	–
Hydraulically adjustable front milling drum unit seal FB600, including overload sensor	–	–	<input type="checkbox"/>	–
Hydraulically adjustable front milling drum unit seal FB1000, including overload sensor	<input type="checkbox"/>	–	<input type="checkbox"/>	–
Hydraulically adjustable front milling drum unit seal FB1200, including overload sensor	–	<input type="checkbox"/>	–	<input type="checkbox"/>
Overload sensor on the scraper FB600	–	–	<input type="checkbox"/>	–
Overload sensor on the scraper FB1000/1200	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Active floating position for the right and left side plates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Milling drums</b>				
FCS milling drum FB1000 HT22 LA15 with 100 picks	<input type="checkbox"/>	–	<input type="checkbox"/>	–
FCS milling drum FB1000 HT22 LA18 with 84 picks	<input type="checkbox"/>	–	<input type="checkbox"/>	–
FCS milling drum FB1200 HT22 LA18 with 101 picks	–	<input type="checkbox"/>	–	<input type="checkbox"/>
FCS milling drum FB1000 HT22 LA8 with 148 picks	<input type="checkbox"/>	–	<input type="checkbox"/>	–
FCS milling drum FB1000 HT5 LA6X2 with 340 picks	<input type="checkbox"/>	–	<input type="checkbox"/>	–
FCS milling drum FB1200 HT22 LA8 with 173 picks	–	<input type="checkbox"/>	–	<input type="checkbox"/>
FCS milling drum FB1200 HT5 LA6X2 with 408 picks	–	<input type="checkbox"/>	–	<input type="checkbox"/>
Milling drum FB80 HT02 MD250 with 30 picks	–	–	<input type="checkbox"/>	–
Milling drum FB600 HT22 LA15 with 72 picks	–	–	<input type="checkbox"/>	–
FCS milling unit FB400 HT22 LA15 with 59 picks	–	–	<input type="checkbox"/>	–
FCS milling unit FB500 HT22 LA15 with 65 picks	–	–	<input type="checkbox"/>	–
<b>Milled-out material loading</b>				
Machine with hydraulic preliminary equipment for a discharge conveyor - quick-change coupling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discharge conveyor 7,350 mm long, 500 mm wide, with hydraulic folding device	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discharge conveyor 6,500 mm long, 500 mm wide, with hydraulic folding device	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Machine with belt device without discharge conveyor (FB600)	–	–	<input type="checkbox"/>	–
Machine with belt device without discharge conveyor (FB1000)	<input type="checkbox"/>	–	<input type="checkbox"/>	–
Machine with belt device without discharge conveyor (FB1200)	–	<input type="checkbox"/>	–	<input type="checkbox"/>
Hydraulic connection adapter screw coupling for additional discharge conveyor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic connection adapter quick-change coupling for additional discharge conveyor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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	W 100 R	W 120 R	W 100 Ri	W 120 Ri
<b>Machine control and levelling system</b>				
LEVEL PRO PLUS levelling system right and left	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increased travelling speed (up to 7.5 km/h)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RAPID SLOPE sensor for LEVEL PRO PLUS levelling system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Levelling boom including sensor for LEVEL PRO PLUS levelling system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Job data acquisition in the control display	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Operator's stand</b>				
Comfort operator's seat including seat heating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operator's stand with weather canopy and lateral weather protection elements (FB1000)	<input type="checkbox"/>	–	<input type="checkbox"/>	–
Operator's stand with weather canopy and lateral weather protection elements (FB1200)	–	<input type="checkbox"/>	–	<input type="checkbox"/>
<b>Under-carriage and height adjustment</b>				
Front axle for working with a FB600	–	–	<input type="checkbox"/>	–
<b>Others</b>				
Paint in one special colour (RAL)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Paint in two special colours (RAL)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Paint in maximum two special colours with substructure in special colour (RAL)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
High-power lighting package LED including rotating beacon	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Additional weight 400 kg for four-wheel machine, removable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Precision steering by pushbuttons (FB600)	–	–	<input type="checkbox"/>	–
Precision steering by pushbuttons (FB1000/1200)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Milling drum assembly trolley to FB1300	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Assembly aid for the milling drum change	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electric preheating of the fuel filter	–	–	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulically driven water filler pump	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic pick ejector drift	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
WITOS® FleetView telematics system incl. 3-year operating period	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Monitor system with 2 cameras and screen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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WIRTGEN GmbH  
Reinhard-Wirtgen-Str. 2 · 53578 Windhagen · Germany  
Phone: +49 (0)26 45/131-0 · Fax: +49 (0)26 45/131-392  
Internet: [www.wirtgen.com](http://www.wirtgen.com) · E-Mail: [info@wirtgen.com](mailto:info@wirtgen.com)

