

Cost-Efficient and Compact Professional Machine

COLD MILLING MACHINE W 200 F



COST-EFFICIENT AND COMPACT PROFESSIONAL MACHINE



The easy-to-operate, compact cold milling machine caters to a wide range of applications from surface course rehabilitation via pavement removal at full depth all the way to fine milling operations.

The innovative **MILL ASSIST** machine control system permits efficient operation of the machine in automatic mode paired with high performance and user friendliness.

Milling drum units can be exchanged quickly and easily to realize milling widths of 2.0 m or 2.2 m as part of the MCS - Multiple Cutting System.

The innovative **MCS BASIC** permits milling drums to be exchanged in an exceptionally short period of time to increase both flexibility in operation and machine utilization.

A host of innovative features significantly reduce fuel consumption and pick wear, thereby boosting sustainability and minimizing CO₂ emissions.

WIRTGEN COLD MILLING MACHINES



SMALL MILLING MACHINES

- > Milling width up to 1,300 mm
- > Milling depth to 300 mm

COMPACT MILLING MACHINES

- > Milling width up to 1,900 mm
- > Milling depth to 330 mm

LARGE MILLING MACHINES

- > Milling width up to 4,400 mm
- > Milling depth to 350 mm



OVERVIEW OF HIGHLIGHTS

Perfectly Equipped

OPERATION

01 Fully Equipped Operator's Platform

- > Perfect view of important areas of the operation
- > Exceptionally powerful LED lighting system
- > Ample storage space
- > Flexible, vertically adjustable canopy

02 Intuitive MMI - Man-Machine Interface

- > Flexible control panel concept for maximum machine control
- > 5" control panel for leveling
- > 7" control panel for the convenient display of important parameters
- > Robust, high-quality camera system including 10" control panel

QUALITY

03 Versatile, High-Precision LEVEL PRO ACTIVE Leveling System

- > New, simple LEVEL PRO ACTIVE operating concept
- > New complementary and automated features
- > Optimized 3D and laser leveling
- > Leveling boom, right, or leveling boom, right and left, including Sonic Ski sensor
- > Optimized Multiplex system

04 High Reliability

- > Pioneering diagnostic concept
- > Redundant machine control system
- > Dual CAN network
- > Reliable protection against vandalism
- > Efficient servicing and maintenance concept



MILLING

05 Unmatched Cutting Technology

- > Easy exchange of milling drums in record time
- > Quick exchange of milling drum units
- > Optimized wear protection for the milling drum unit
- > Extremely hard-wearing quick-change toolholder system **HT22**
- > New upper toolholder part **HT22 PLUS** with extended lifespan

06 Innovative MILL ASSIST 

- > **MILL ASSIST** automatic mode
- > Additional pre-selection of operating strategy in automatic mode
- > Clear pre-selection of consistent milling pattern quality
- > Innovative efficiency display

PERFORMANCE

07 Maximum Milling Performance

- > High-powered diesel engine
- > Increased ballasting flexibility
- > Large scraper lift
- > Flexible and efficient material loading
- > "Boost" feature to increase the discharge trajectory



ECONOMY AND SUSTAINABILITY

09 Reduced Diesel Consumption - Active Minimization of CO₂ 

- > Extended range of usable milling drum speeds
- > Maximum use of engine power in the low engine speed range
- > Start-stop engine feature via exterior control panel
- > Intelligent dual fan concept

10 Environmentally Sustainable Machine Technology 

- > Low exhaust emissions
- > Reduced noise emissions during repositioning
- > ECO operating strategy for minimal consumption
- > Optimized VCS extraction system
- > Efficient water management



WIRTMEN
SUSTAINABILITY

WIRTMEN SUSTAINABILITY describes innovative technologies and solutions which are consistent with the sustainability objectives of the WIRTMEN GROUP.

FULLY EQUIPPED OPERATOR'S PLATFORM

Perfect View of Important Areas of the Operation

The intelligent visibility concept of the large milling machine significantly increases operator comfort and leads to precise milling results. The operator's platform has been designed to extend to the outer edge of the machine on the left, while the railing on the right can be simply adjusted outwards in order to ensure optimum visibility of the surface to be milled and of the material loading process. In addition, the slender design of the machine offers a wasp waist at the front left and right, and at the rear right. This gives the operator an unobstructed view of the crawler unit and milling edge.

Exceptionally Powerful LED Lightning System

The W 200 F is equipped with exceptionally powerful LED working lights installed in different positions on the machine, operator's platform lighting, and a "Welcome" and "Go home" lights feature for convenient access. Additional on-board features include control panel illumination, lighting of the milling drum unit including auxiliary lights for pick replacement, as well as optional lighting balloons. These ensure optimum lighting even in poor lighting conditions.

Excellent Visibility

Clear view of operations

Room for Essentials

Plenty of stowage space

01



01 Ergonomically designed operator's platform.

02 The canopy offers flexible vertical height adjustment.

03 Canopy in transport position.

04 The extra-large, optional storage compartment at the rear of the machine offers ample space for pick containers and tools.



Ample Storage Space

The W 200 F offers ample storage space for leveling sensors, pick extractors and pick containers. An optional additional 1,380-litre XXL-size storage compartment at the rear of the machine can accommodate up to 69 pick containers; another 85-litre storage compartment on the operator's platform can be installed as an optional feature.

Flexible, Vertically Adjustable Canopy

The hydraulically height-adjustable canopy can be individually adjusted in height to cater to different operating and weather conditions. The height can be adjusted at the mere push of a button even during the milling operation in order to avoid, for example, low-hanging branches in a tree-lined avenue. The outer roof shells can be moved independently to offer additional protection against rain.

INTUITIVE MMI - MAN-MACHINE INTERFACE

Flexible Control Panel Concept for Maximum Machine Control

The new control panel concept allows different control panels to be compiled in accordance with customer specifications. An important requirement for the WIRTGEN design engineers was to provide the machine operator with a comprehensive and clear-cut status, diagnostic and information display. The new intuitive, easy-to-understand control panel concept fully meets these requirements.

5" Control Panels for Leveling

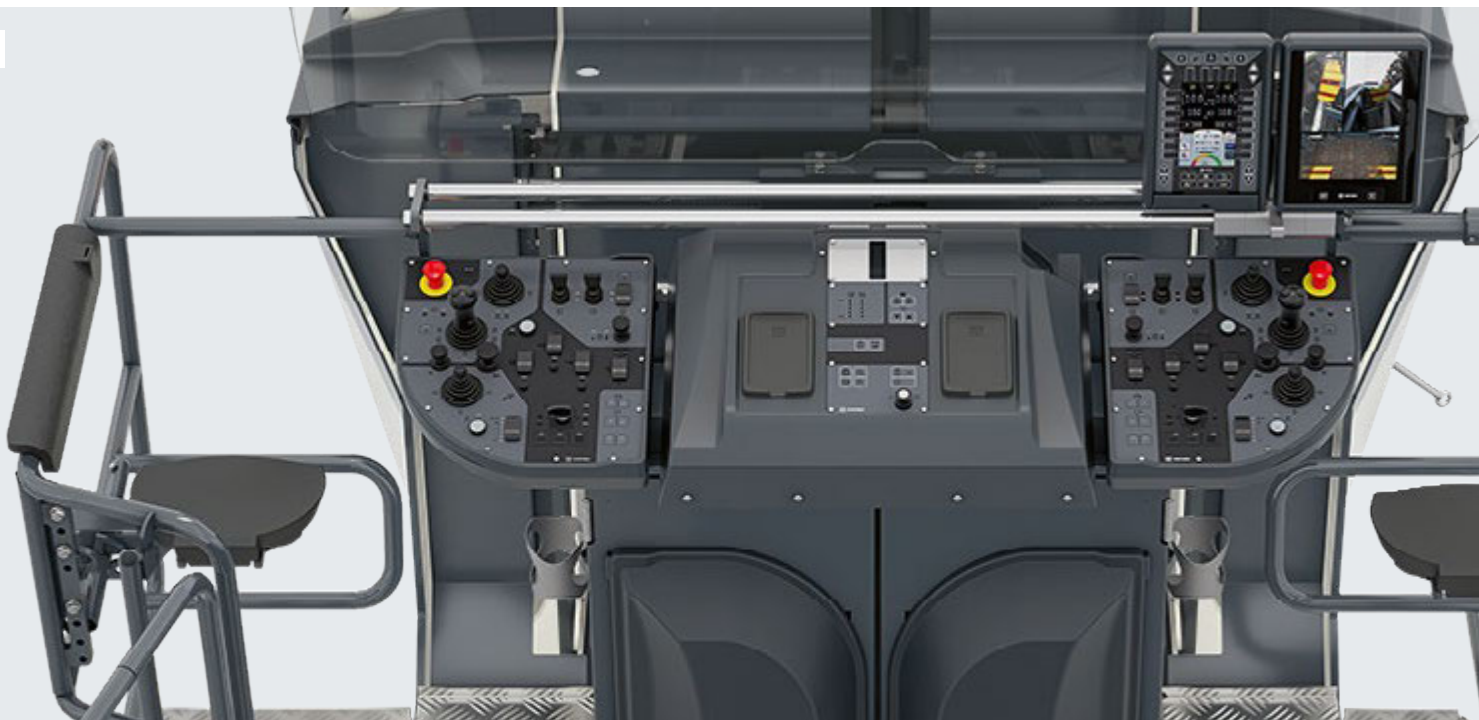
When leveling with the **LEVEL PRO ACTIVE** leveling system, up to two additional 5" control panels can optionally be attached on the left and right side of the machine for use by the ground crew.

7" Control Panel for the Convenient Display of Important Parameters

Whether working on the operator's platform or the lower operating positions: the new control panel concept provides comprehensive and clear-cut information.

The 7" control panel provides the following readouts, for example, to each machine operator: machine load, temperatures, hydraulic pressures, diesel and water filling levels, leveling control, status and diagnostic reports, as well as general information such as the current time.

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Maximum Control

Individual control panel concept

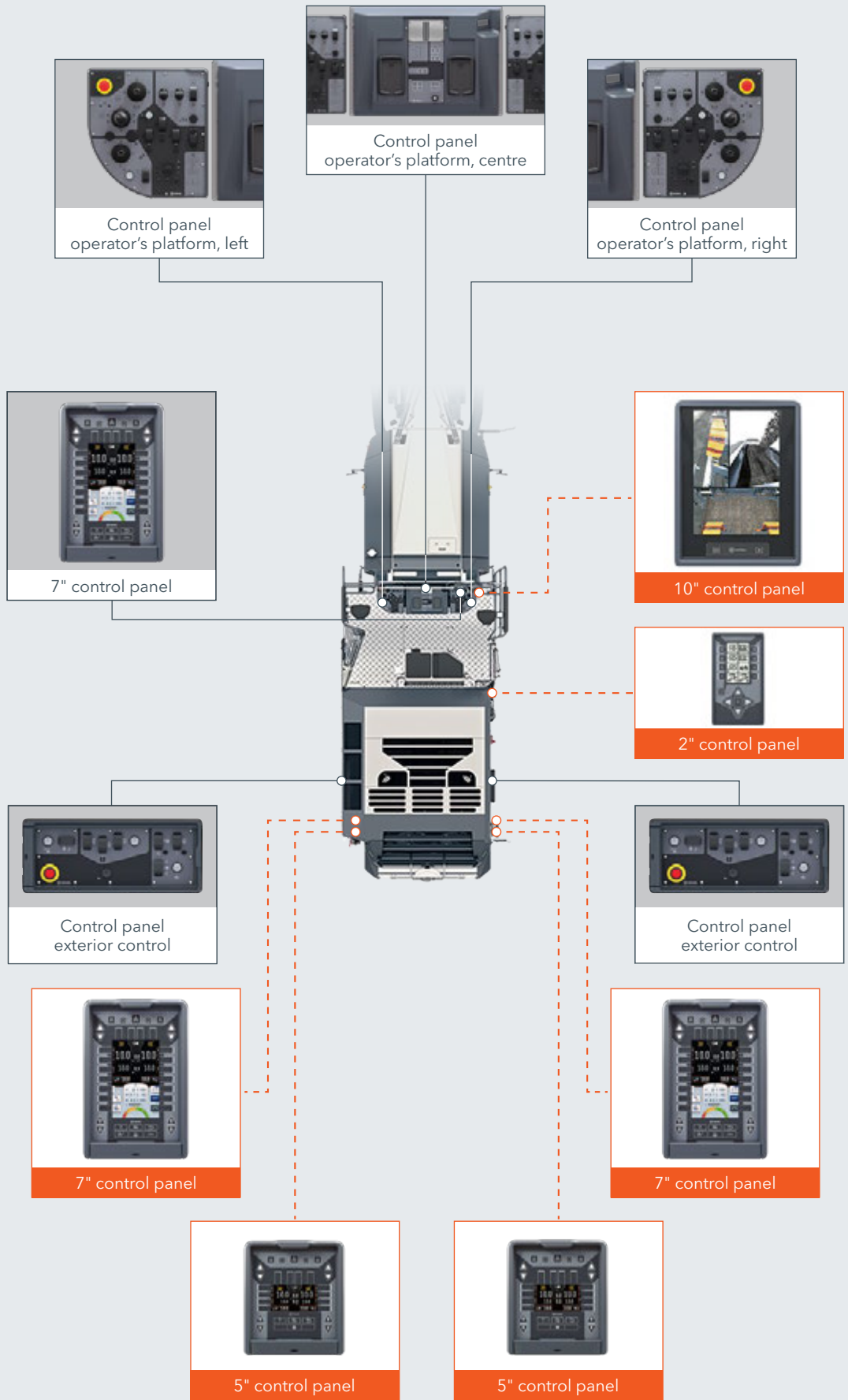
Always Fully Informed

Comprehensive overview at all operating positions

01 Customized, user-friendly panel arrangement.

02 Overview of the different control panels and their positions.

02



□ = Standard control panels
 □ = Optional control panels



INTUITIVE MMI - MAN-MACHINE INTERFACE

Robust, High-Quality Camera System including 10" Control Panel

A camera system comprising two, four or eight cameras is available as an optional equipment feature. When using the twofold camera system, the camera images are displayed on the 7" control panel installed on the operator's platform. The

fourfold and eightfold camera systems come with an additional 10" control panel which can display multiple camera images simultaneously using a split screen feature. The robust camera systems provide the machine operator with a direct view of important areas of the operation, such as the material loading process or the milled surface behind the scraper.

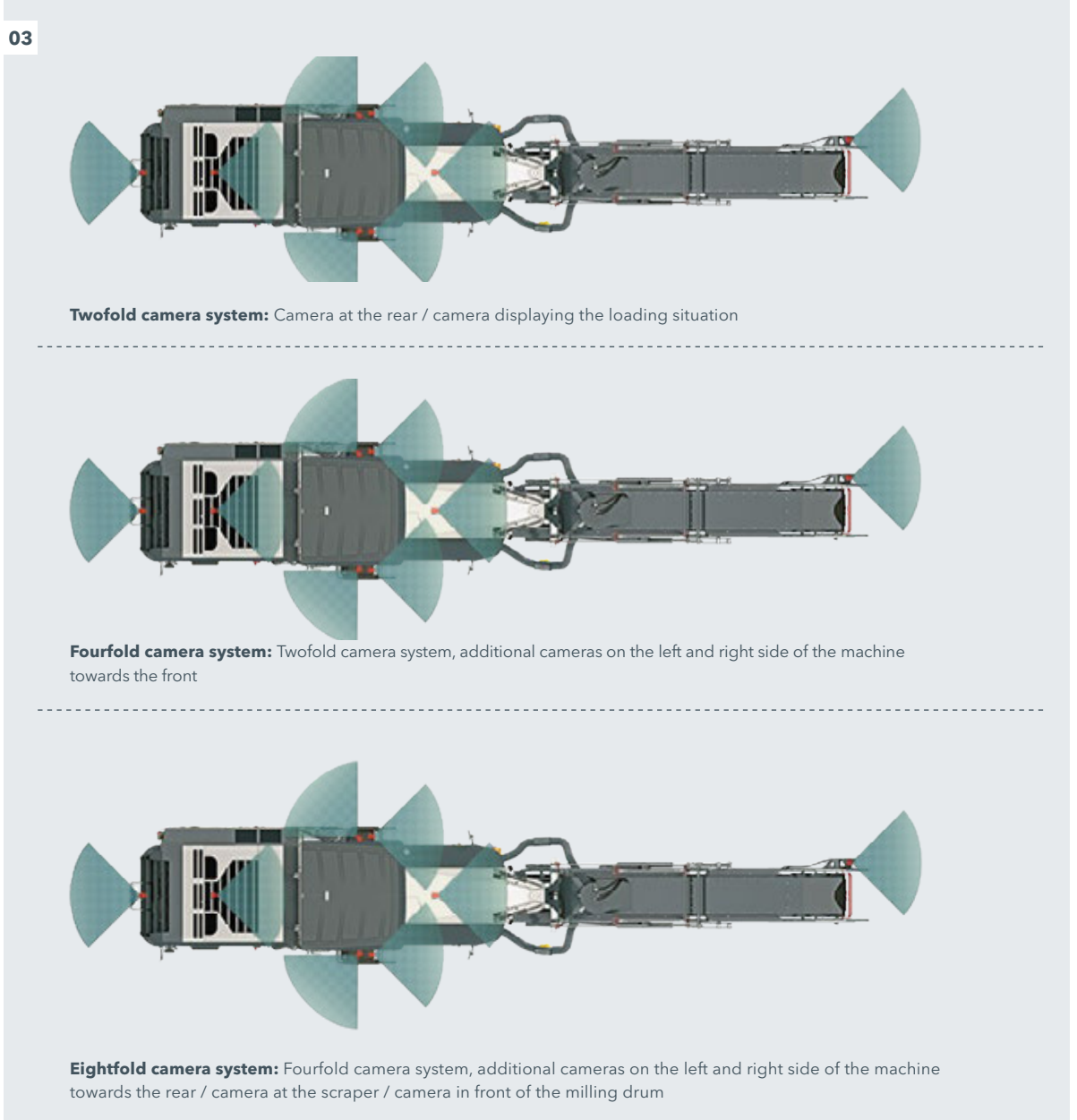
01



Ideal Overview of the Entire Construction Site

Effective camera / monitor system

- 01** 10" control panel with split screen feature for the simultaneous display of multiple camera images.
- 02** Optional 5" control panel providing leveling details to the ground crew.
- 03** Different camera systems for a good view of important areas of the operation.



VERSATILE, HIGH-PRECISION LEVELING USING LEVEL PRO ACTIVE

New, Simple LEVEL PRO ACTIVE Operating Concept

The new **LEVEL PRO ACTIVE** leveling system developed specifically for cold milling machines uses innovative control panels and offers easy, intuitive operation. Fully integrated into the machine's control system, it permits a high level of automation as important features of the machine are directly interlinked, guaranteeing highly precise milling results. With the 3D kit, **LEVEL PRO ACTIVE** additionally offers a simple 3D system interface designed in line with field requirements.

New Complementary and Automated Features

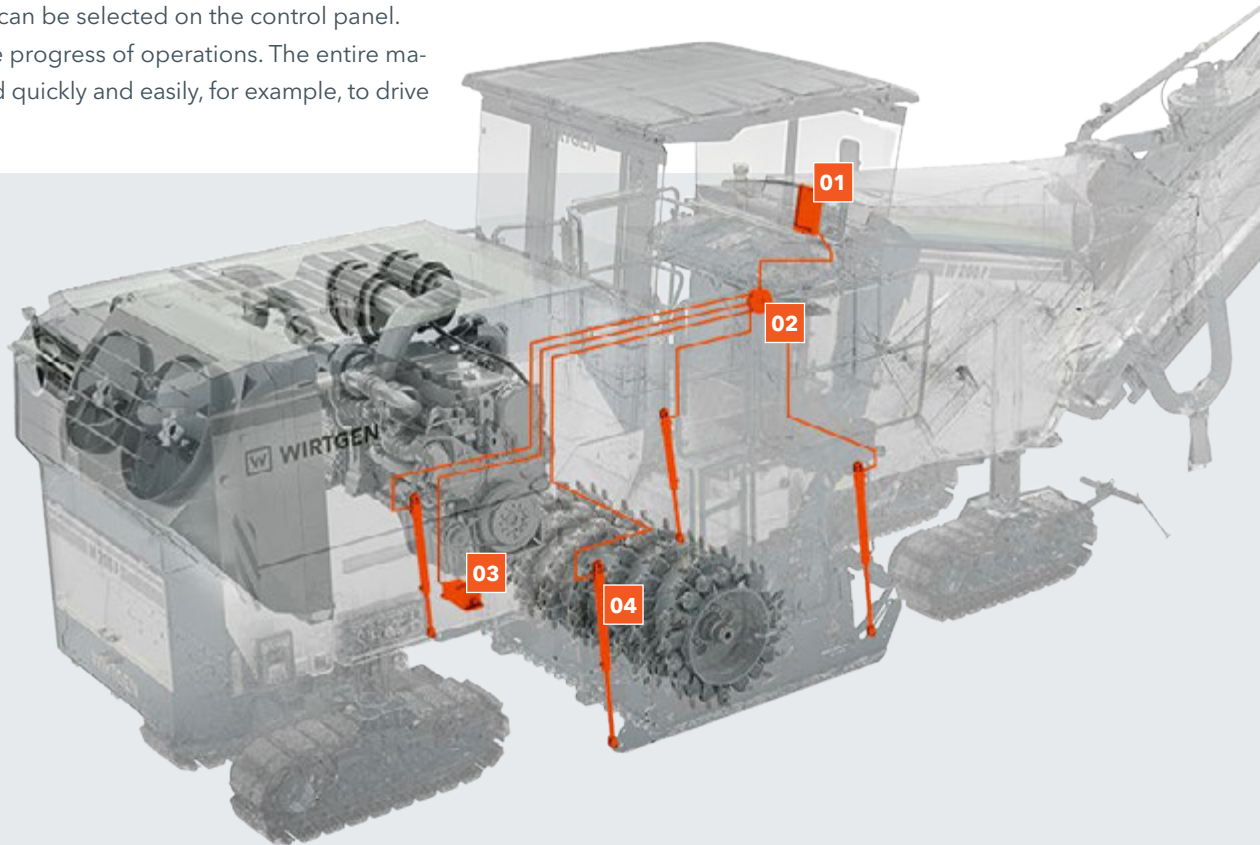
The **LEVEL PRO ACTIVE** leveling system offers numerous complementary and automated features relieving the machine operator of a part of his workload. All sensors connected to the system are displayed and can be selected on the control panel. This also speeds up the progress of operations. The entire machine can thus be raised quickly and easily, for example, to drive over a manhole cover.

Optimized 3D and Laser Leveling

Laser sensors can be mounted on the canopy of the cold milling machine quickly and easily to facilitate the use of 3D systems.

Leveling Boom, Right, or Leveling Boom, Right and Left, including Sonic Ski Sensor

The new leveling booms with Sonic Ski sensors allow non-contact scanning of a wire or reference surface on both sides of the machine at a distance of up to 1,900 mm from the milling edge. The leveling boom including Sonic Ski sensor can be telescoped hydraulically by up to 840 mm from the operator's platform even during the milling operation; mechanical adjustment allows an additional 880 mm of telescopic travel.



Optimized Multiplex System

The Multiplex system comprises two ultrasonic sensors per machine side which are attached to adjustable swivel arms. Advantages of the system include the large adjustment range for a variety of leveling applications, as well as the low weight of the individual units. The swivel arms are simply folded in for machine transport.

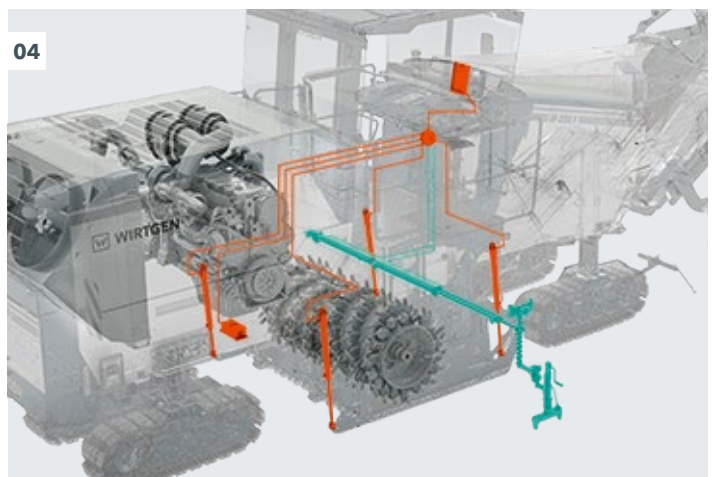
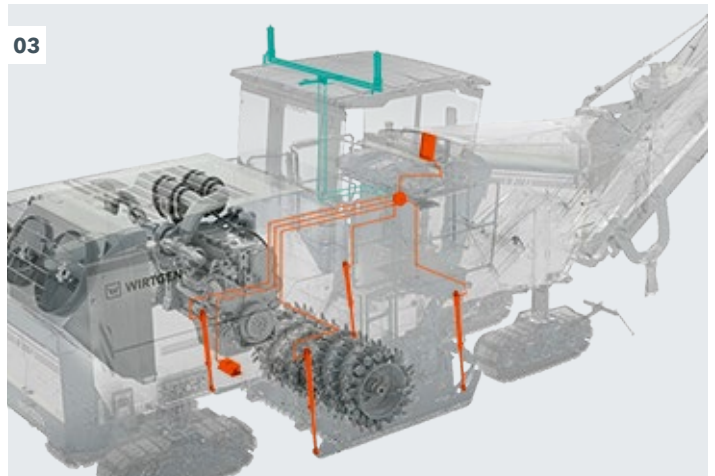
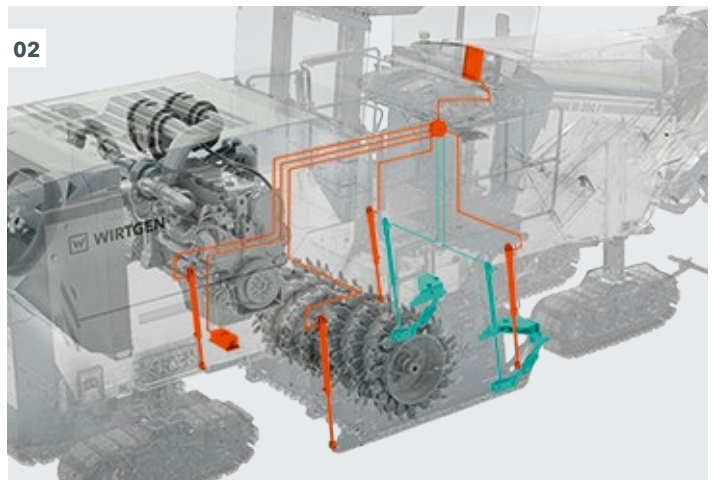
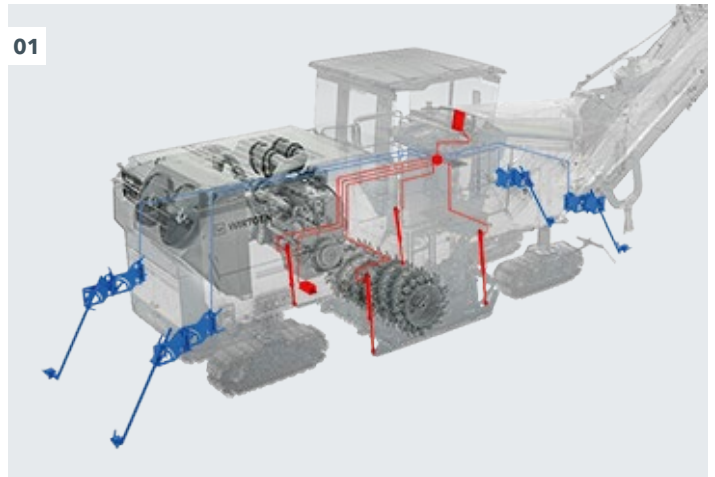


- 01** Multiplex system comprising up to four ultrasonic sensors.
- 02** Scanning in front of the milling drum.
- 03** 3D leveling / laser leveling.
- 04** Telescoping leveling boom, right or left.

■ = Standard equipment
■ = Optional equipment

W 200 F Fitted with Standard Leveling Sensors.

- 01** 7" control panel **LEVEL PRO ACTIVE**
- 02** Machine control system
- 03** Cross-slope sensor
- 04** Hydraulic side plate cylinder with integrated displacement sensor



HIGH RELIABILITY

Pioneering Diagnostic Concept

The new diagnostic concept guides the machine operator through the troubleshooting process in a few simple and intuitive steps. Any malfunction is indicated to the operator on the screen together with a clear description of the fault, enabling him to locate the fault by means of optimized, easy-to-understand colour graphs. Finally, comprehensive textual support enables the operator to begin remedying the fault.

Redundant Machine Control System

Three control computers integrated in the control system can be interchanged to ensure the machine's operational readiness if one of the three computers should fail. In addition, the two 7" control panels installed on the operator's platform and on the side of the machine for operation by the ground crew can be readily interchanged while fully maintaining all machine functions.



Simple Fault Remediation

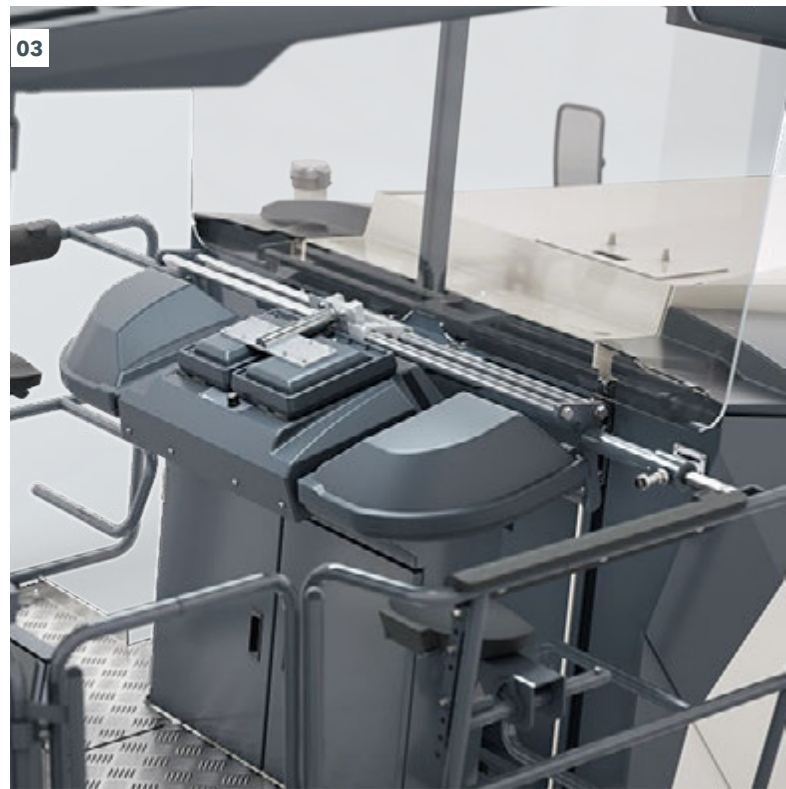
Detailed diagnostics info

Reliable Operation

CAN bus with backup circuits



02



03

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Dual CAN Network

The CAN bus is duplicated in important sections and can be readily reconnected as and when required. The main controls feature dual-channel signal transmission to ensure that functions are executed even if one signal should fail. The failure of a signal is additionally displayed on the control panel.

Reliable Protection against Vandalism

The innovative vandalism protection feature protects the control panels against the use of force or theft. The linear control panels arranged on the operator's platform, for example, are folded over the central control panel and secured. Securing the control panels in a few simple steps additionally speeds up the preparations for machine transport.

Efficient Servicing and Maintenance Concept

The W 200 F offers exceptionally easy access to all servicing and maintenance points. The air, hydraulic oil, engine oil and diesel filters can be reached quite easily from the walkway when the engine cowling is open. In addition, all relevant machine components provide quick and ready access.

- 01 Direct forwarding of the image from the error message to the diagnostic system including clear location of the fault.
- 02 Optimum access to the servicing points.
- 03 Quick and reliable protection of the control panels.

UNMATCHED CUTTING TECHNOLOGY

Easy Exchange of Milling Drums in Record Time

Milling drums are now exchanged even more quickly thanks to the new generation of MCS milling drums. A single central bolt needs to be loosened, which can be performed by the milling drum rotation device at the mere push of a button. All that remains to be done for the operator is to pull out the milling drum. The side door on the right is opened quickly and effortlessly as it features a hydraulic cylinder drive. The simplified process offers numerous advantages: the rapid exchange of application-specific milling drums with different tool spacings increases machine productivity. The short-term exchange and use of

the milling drum best suited to the job to be performed reduces wear costs. In addition, maximum flexibility is guaranteed in order to cater to the ever-changing requirements in day-to-day business.

Easy Exchange of Milling Drum Units

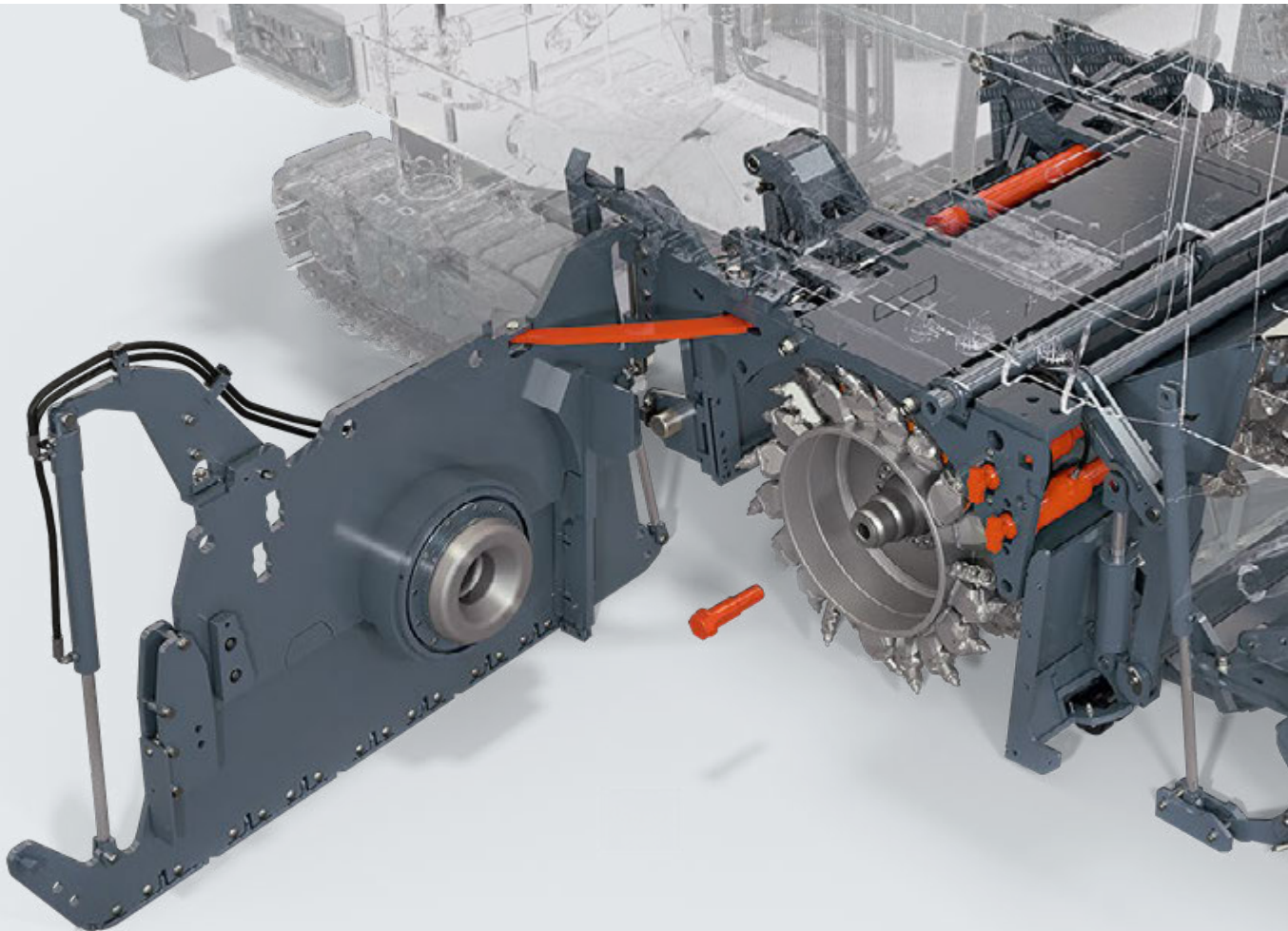
Different milling widths of 2.0 m or 2.2 m can be realized using the new quick-change milling drum unit. The simplified quick-change system allows milling drum units of different working widths to be exchanged in no more than an hour's time. The operator's job is made even easier by a significant increase in the

With Ease

Easy-to-swap milling drums

Wider Working

Additional milling units for greater width



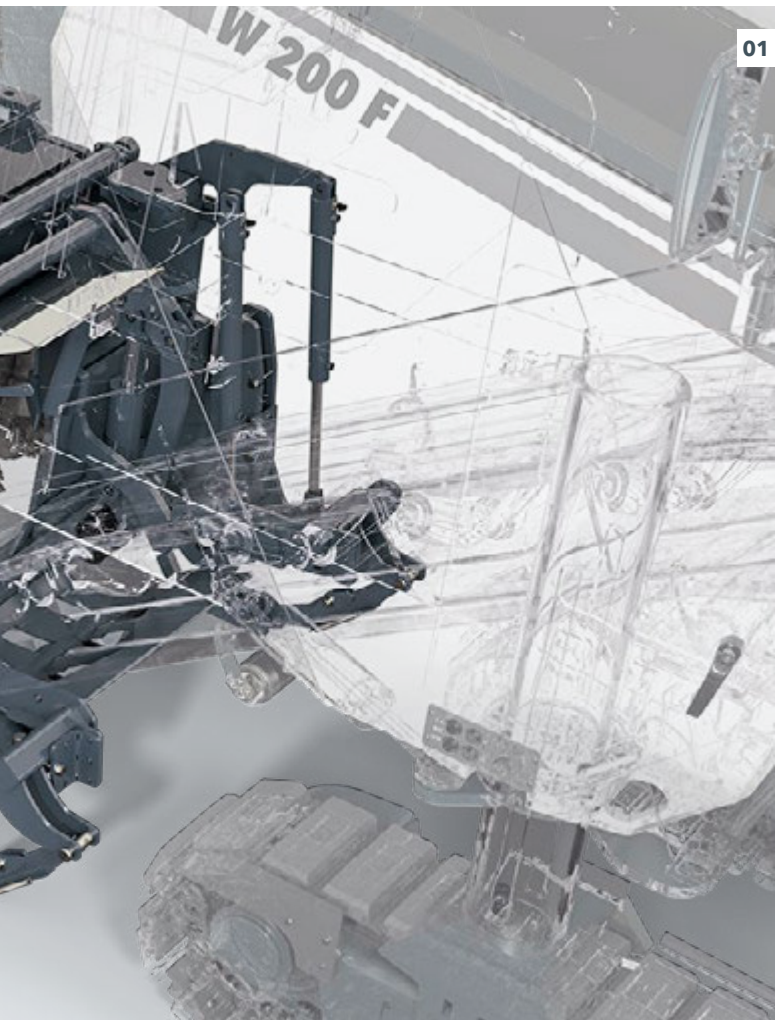
- 01 Extra-quick exchange of milling drums using the new **MCS BASIC** milling drum system.
- 02 Large choice of different MCS milling drums.

stroke of the machine's height adjustment feature. The process is completed by simply connecting one electrical plug-in connector, two hydraulic quick-release couplings and one water line.

WIRTGEN > GOOD TO KNOW



Easy retrofit of ECO-Cutter milling drum results in reduced cutting resistance and therefore a drop in diesel consumption and CO₂ emissions.



01



02

ECO-Cutter

Milling width: 2.000 mm, Milling depth: 0 to 330 mm, Pick spacing: 25 mm



Standard Milling Drum

Milling width: 2.000 mm, Milling depth: 0 to 330 mm, Pick spacing: 18 mm



Standard Milling Drum

Milling width: 2.000 mm, Milling depth: 0 to 330 mm, Pick spacing: 15 mm



Fine Milling Drum

Milling width: 2.000 mm, Milling depth: 0 to 100 mm, Pick spacing: 8 mm



Micro-Fine Milling Drum

Milling width: 2.000 mm, Milling depth: 0 to 30 mm, Pick spacing: 6 x 2 mm

UNMATCHED CUTTING TECHNOLOGY

Optimized Wear Protection for the Milling Drum Unit

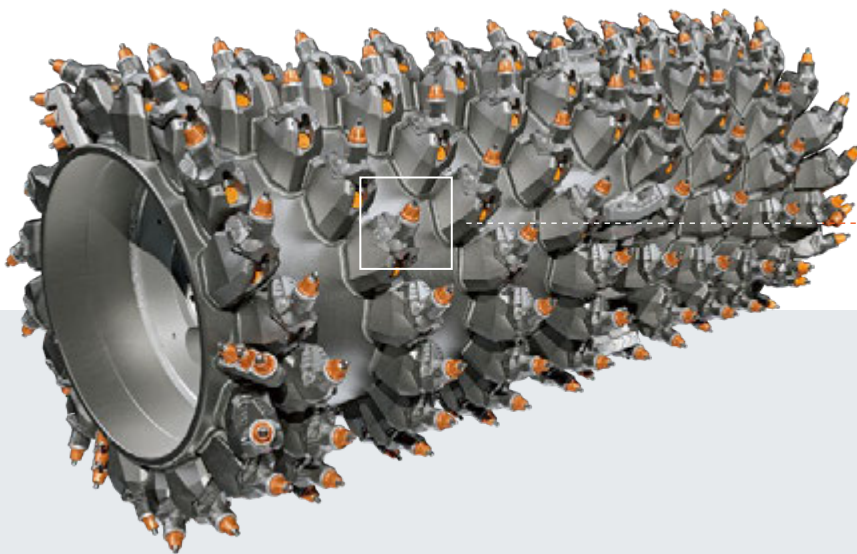
The side plates are equipped with extremely wear-resistant protective skids on both sides. Optional rollers fitted to the side plates prevent scratch marks on the asphalt pavement. In addition, the material depressor also moves on the pavement on rollers to minimize wear and tear.

Extremely Hard-Wearing HT22 Quick-Change Toolholder System

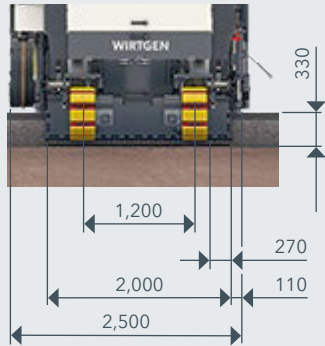
Fitted with the HT22 quick-change toolholder system, the milling drums on offer for the W 200 F are the ideal candidates for complex, challenging milling applications. In addition, the robust milling drum design permits the upper toolholder parts to be replaced quickly and as needed right on the construction site.

New Upper Toolholder Part HT22 PLUS with Extended Lifespan

The new upper toolholder part **HT22 PLUS** features an innovative centring embossment in the pick contact surface. In combination with the new X² generation of picks, toolholder wear is reduced by up to 25 %, and pick rotation is optimized as a result. Salient features of the new upper part include improved quality of the milled surface and extended replacement intervals.



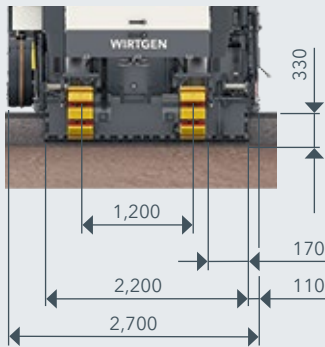
W 200 F with 2.0 m Wide Drum Unit



Standard Milling Drum

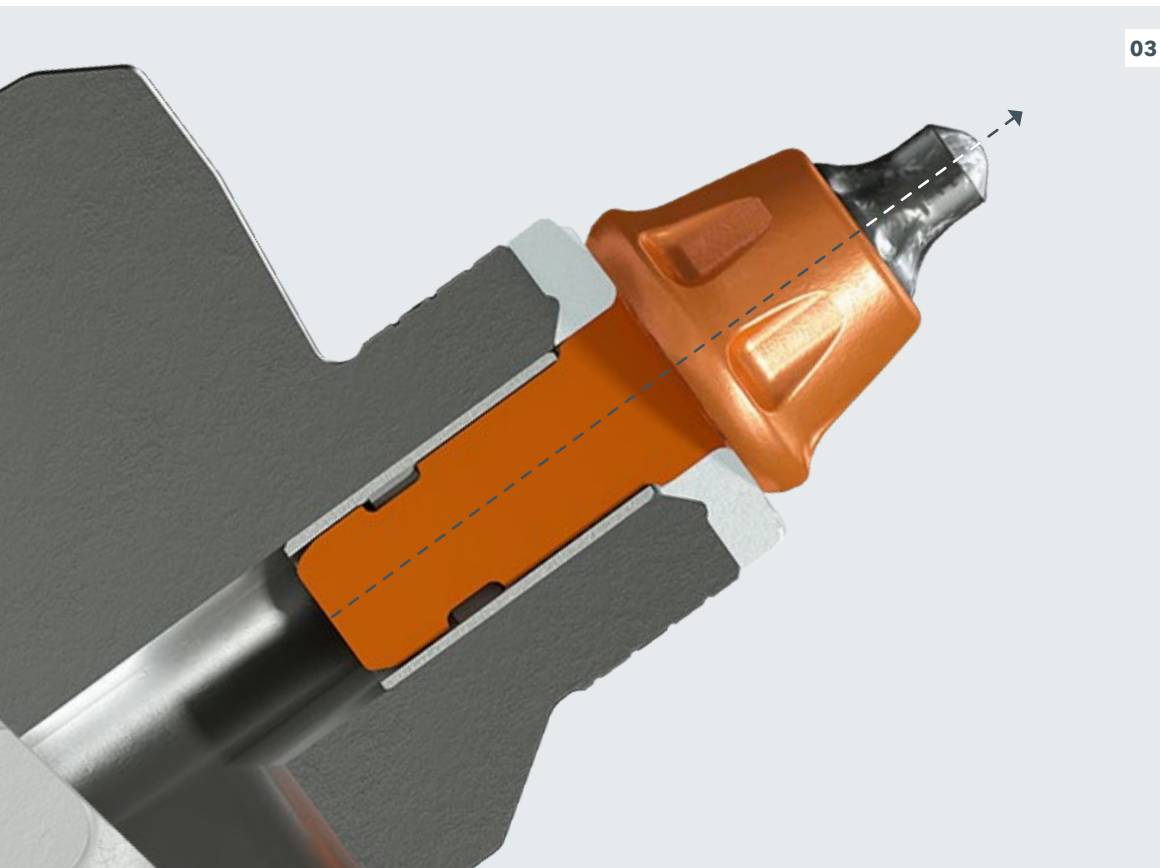
Milling width: 2.000 mm, Milling depth: 0 to 330 mm, Pick spacing: 15 mm

W 200 F with 2.2 m Wide Drum Unit



Standard Milling Drum

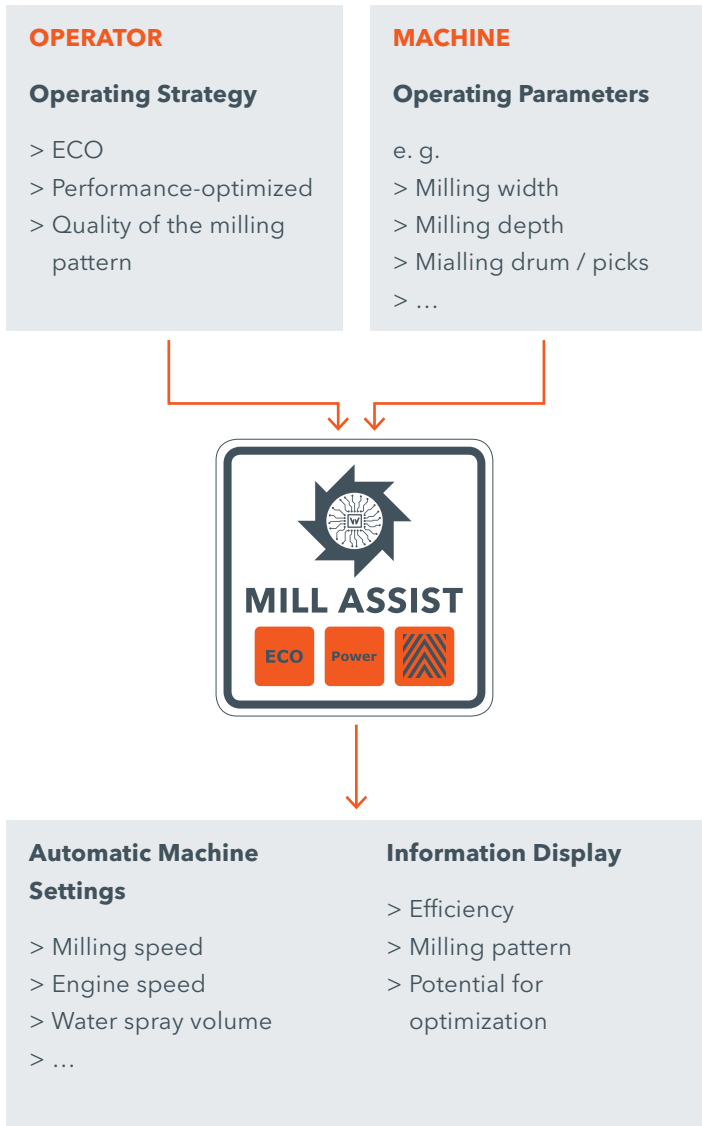
Milling width: 2.200 mm, Milling depth: 0 to 330 mm, Pick spacing: 15 mm



03

- 01 Extremely hard-wearing HT22 quick-change toolholder system.
- 02 Milling drum units 2.0 m and 2.2 m wide.
- 03 In combination with the new pick, the centering embossment on the new toolholder optimizes rotation to reduce wear and tear.

INNOVATIVE MILL ASSIST



MILL ASSIST Automatic Mode

The innovative **MILL ASSIST** machine control system always adjusts the most favorable relationship between performance and cost when operating in automatic mode. The process is optimized by automatically adjusting the speed of the diesel engine and milling drum, the traction drive, the water system and the machine's advance rate.



This relieves the machine operator of a tremendous part of his workload while at the same time improving machine performance and minimizing diesel consumption, CO₂ emissions, pick consumption and noise emissions.

Additional Pre-Selection of the Operating Strategy in Automatic Mode

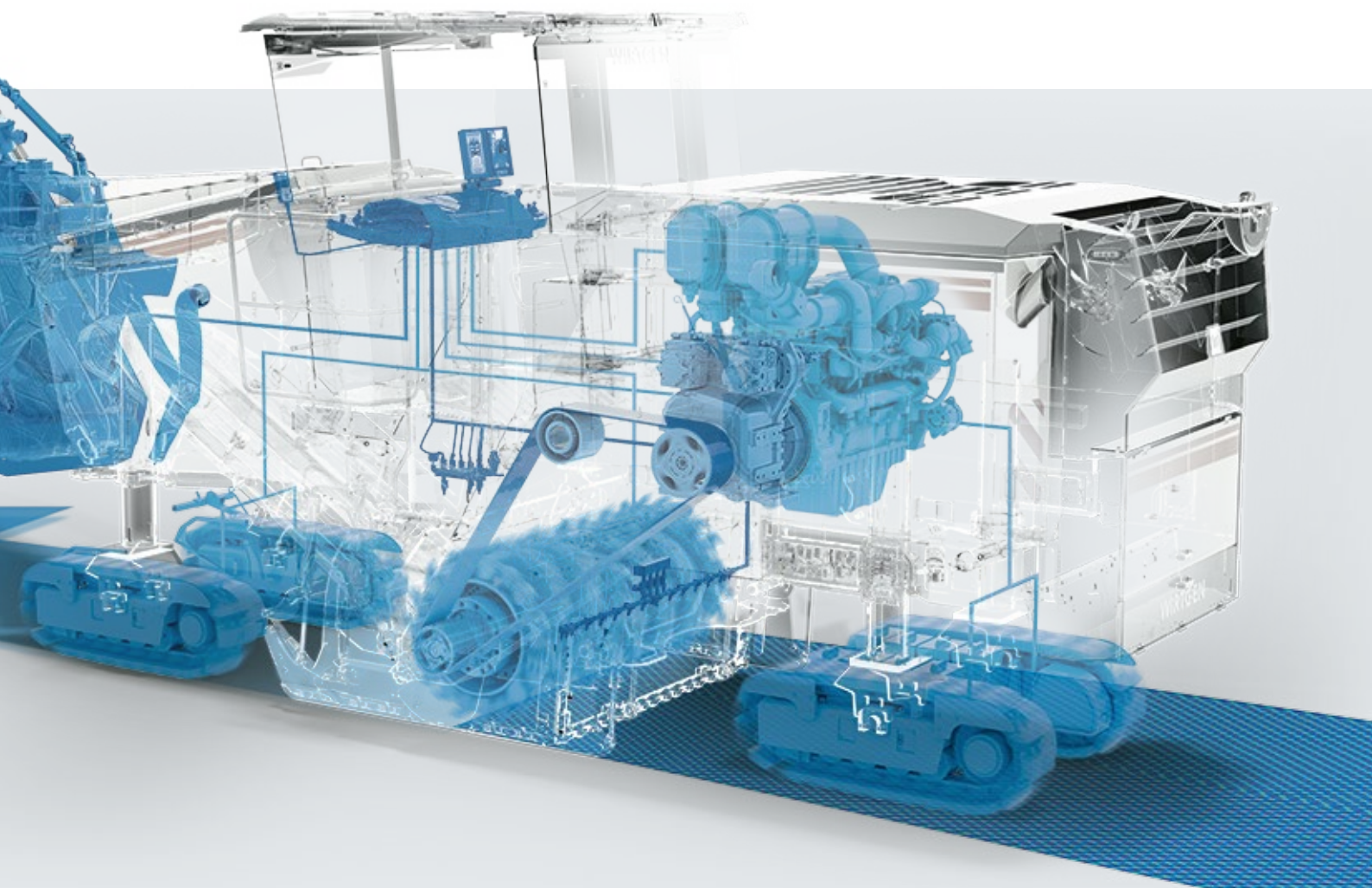
The operator can additionally pre-select one of three operating strategies for each milling job: ECO, performance-optimized, or quality of the milling pattern. The machine then automatically controls the main parameter settings in accordance with the strategy chosen.

MILL ASSIST

Efficient automatic milling

Three Strategy Presets

Optimal machine adjustment

**Clear Pre-Selection of Consistent Milling Pattern Quality**

The specified quality of the milled surface can be preset by simple pre-selection from a scale ranging from 1 to 10. The milling drum speed and milling rate are then adjusted automatically taking into account the type of milling drum used.

Innovative Efficiency Display

The machine operator is continuously provided with information on the job status by means of an efficiency display. Possibilities to optimize the milling parameter settings are additionally displayed on the control panel.

WIRTGEN > GOOD TO KNOW

The **MILL ASSIST** machine control system in the W 200 F enables efficient engine speeds while also boosting productivity. In particular, this results in a significant reduction in CO₂ emissions per cubic meter of milled material.

MAXIMUM MILLING PERFORMANCE



More Power

High-performance diesel engine

Optimized Transport

Removable additional weight

High-Powered Diesel Engine

Featuring low engine speeds at high torque, the high-powered diesel engine makes the W 200 F the ideal candidate for the whole range of milling jobs typically performed by a large milling machine.

Increased Ballasting Flexibility

The additional weight of 1,600 kg can be mounted on or removed from the back of the machine quickly and easily in two steps. This feature permits the machine's transport weight to be precisely adjusted to requirements.

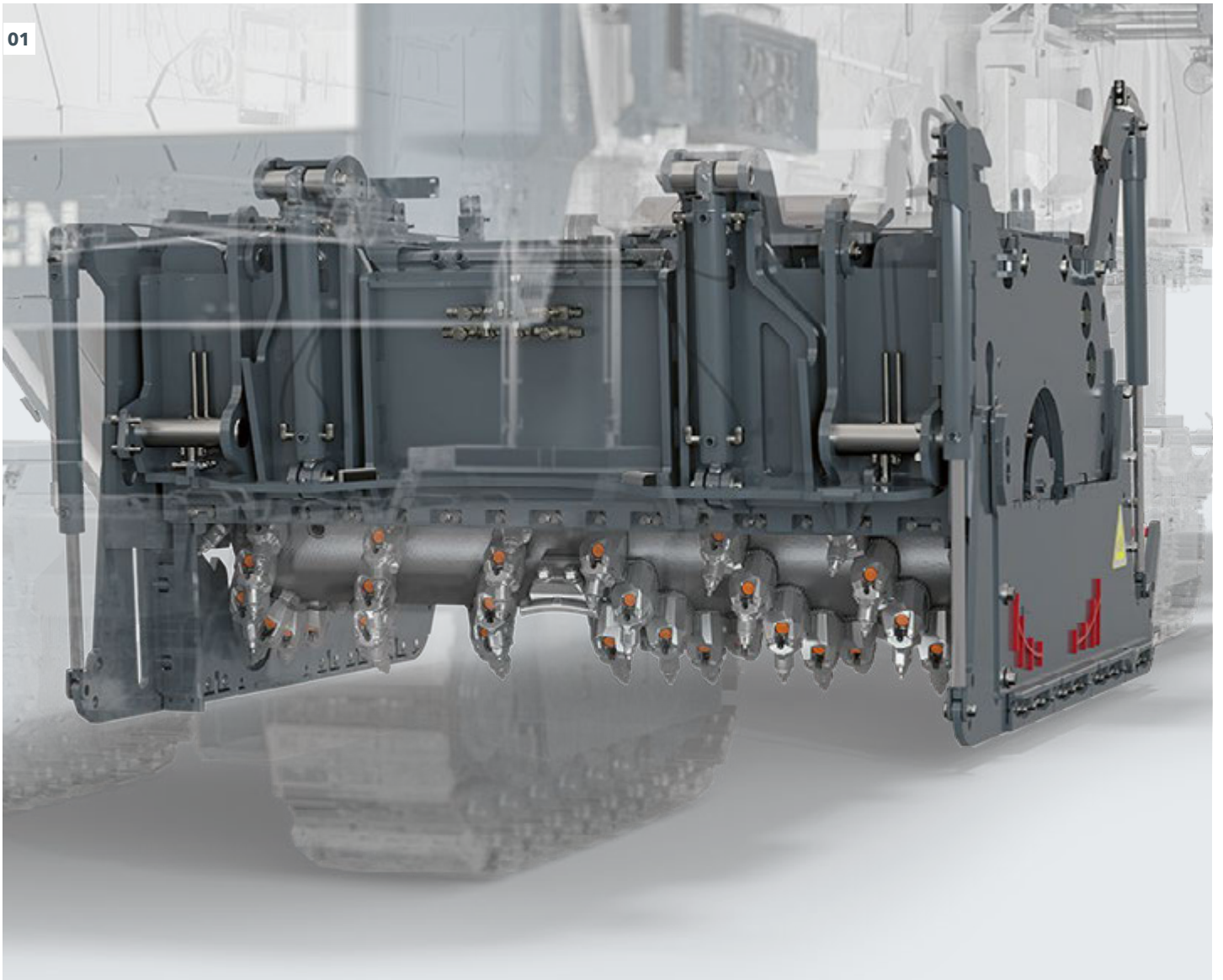


MAXIMUM MILLING PERFORMANCE

Large Scraper Lift

The increased scraper lift permits increased milling depths, thus expanding the range of applications when milling without loading the milled material. At the same time, less material accumulates in the milling drum housing, which reduces wear and tear of the

housing and milling drum. Different contact pressure stages of the scraper can additionally be adjusted quickly and conveniently in accordance with specific applications or requirements by simply pressing a button on the 7" control panel.



Precise and Flexible Loading

Two swing speeds plus large slewing angle

Handling Peak Operating Loads

New booster function

02



01 Increased scraper lift for a wider range of milling applications and reduced wear. 02 Large slewing range of the discharge conveyor.

Flexible and Efficient Material Loading

Tremendous conveyor slewing angles of 65° each to the left and right enable the milled material to be loaded even in difficult situations, for example, in road junctions or turning bays. The belt speed of the discharge conveyor can be adjusted at the simple push of a button to meet specific site and loading conditions. In addition, the hydraulically folding discharge conveyor is folded quickly for easy transport and quick adjustment to site conditions.

“Boost” Feature to Increase the Discharge Trajectory

Pressing the “Boost” button on one of the two main control panels briefly boosts the belt speed and conveying capacity of the discharge conveyor by 20%, thereby temporarily discharging milled material faster than usual from the housing of the milling drum and onto a truck bed, for example, in an exceptionally high and long arc.

REDUCED DIESEL CONSUMPTION - ACTIVE MINIMIZATION OF CO₂

High Performance with Low Diesel Fuel Consumption

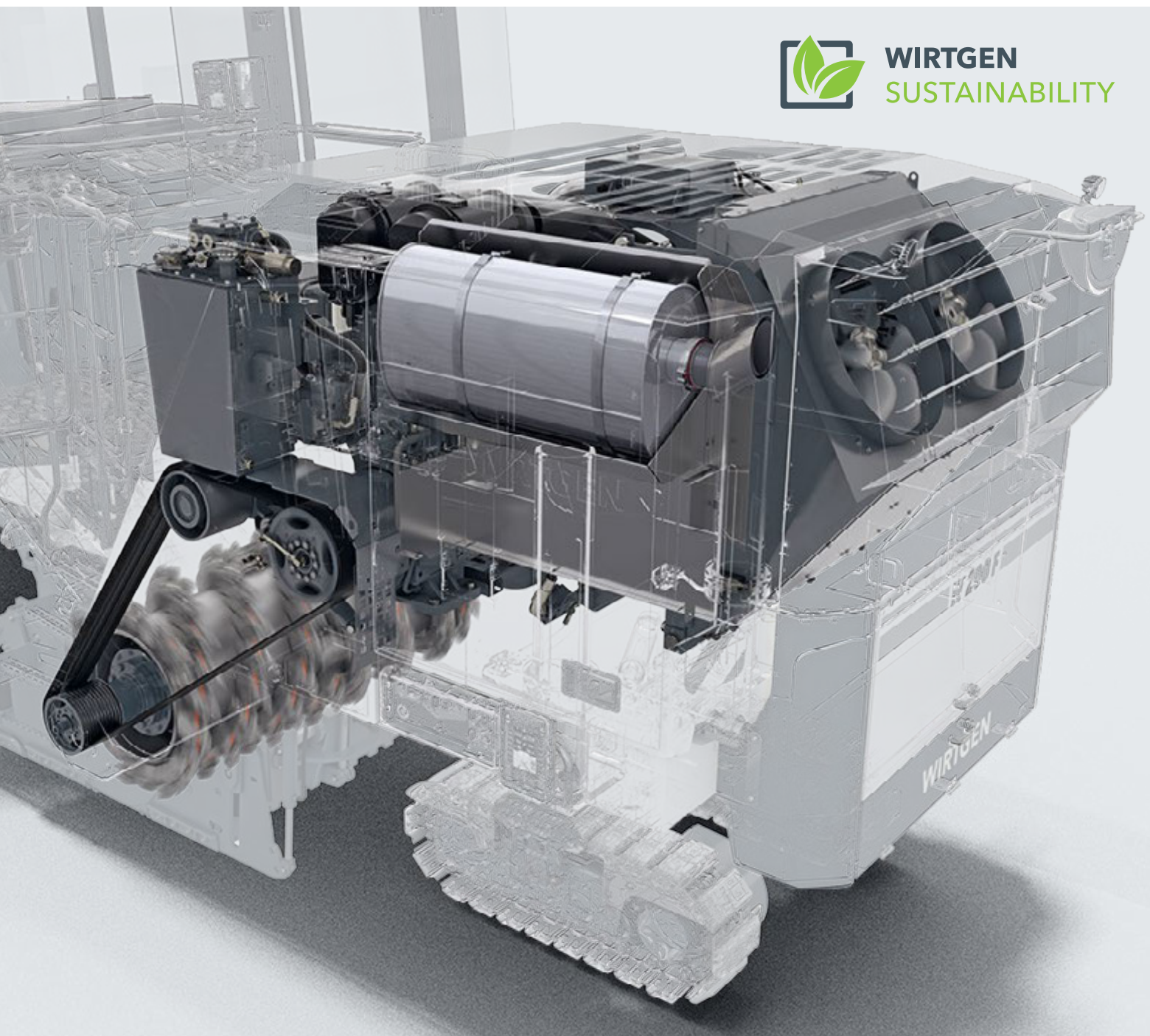
Extended low speed range

Fuel-Efficient Cooling

Dual fan controlled by engine speed



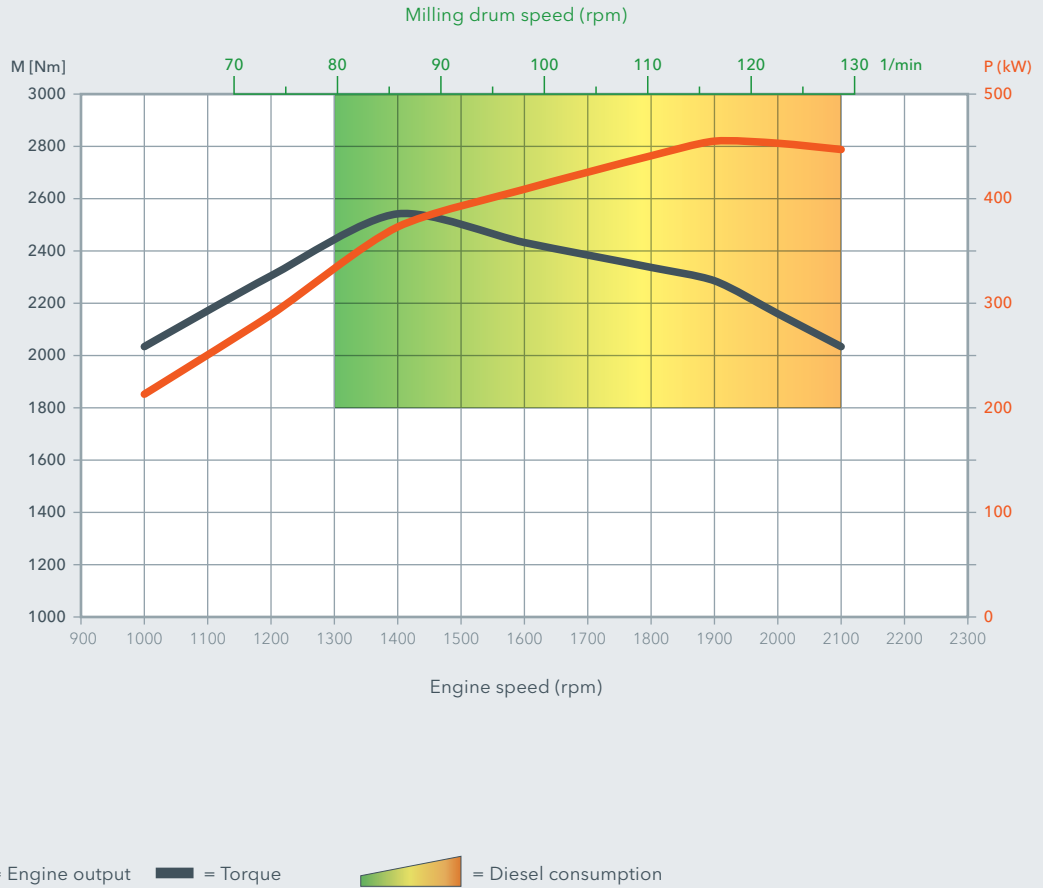
WIRTGEN
SUSTAINABILITY



01 Compact engine station.

02 Extended range of milling drum speeds to reduce diesel consumption and pick wear.

02 Engine Characteristics of Cold Milling Machine W 200 F



Extended Range of Usable Milling Drum Speeds

State-of-the-art engine control enables the W 200 F to offer an exceptionally broad range of usable milling drum speeds. Especially the new, lower engine speed range permits significant diesel savings while at the same time offering tremendous milling performance.

Maximum Use of Engine Power in the Low Engine Speed Range

The integrated MILL ASSIST machine control system prompts the diesel engine of the W 200 F to run mainly in the lower speed range while at the same time ensuring high performance and low diesel consumption.

Start-Stop Engine Feature via Exterior Control Panel

The diesel engine can be easily switched on and off by the ground crew via the exterior control panel. This feature promotes lower diesel consumption and reduced noise emissions.

Intelligent Dual Fan Concept

Two speed-controlled and intelligently arranged fans supply cooling power to the diesel engine and hydraulic system in accordance with requirements. In this way, the cooling system also makes an efficient contribution to reducing diesel consumption.

WIRTGEN > GOOD TO KNOW

All of the cutting-edge features of the W 200 F listed above lead to a significant increase in sustainability.

ENVIRONMENTALLY SUSTAINABLE MACHINE TECHNOLOGY

Environmental Focus

Low CO₂ emissions

Minimal Water Usage

Efficient water metering





WIRTGEN SUSTAINABILITY



05

01 Low Exhaust Emissions

The state-of-the-art, fuel-efficient diesel engine installed in the W 200 F offers maximum engine performance at an exceptionally high maximum torque. The engine technology complies with the requirements of exhaust emission standards EU Stage 3a / US EPA Tier 3.

02 Reduced Noise Emissions During Repositioning

The cold milling machine offers a maximum travel speed of up to 100 m/min, which requires only low engine speeds – resulting in reduced diesel consumption and noise emissions.

03 ECO Operating Strategy for Minimal Consumption

Following selection of the ECO operating strategy, the MILL ASSIST machine control system reduces fuel consumption and pick wear and lowers noise emissions.

04 Efficient Water Management

Four separately electrically switchable segments of the water spray bar allow the optimum quantity of water to be added from the operator's platform, for example, when milling at half-lane width. Water consumption is reduced significantly as the water system is switched on and off automatically and water is metered in accordance with the milling performance.

05 Optimized VCS Extraction System

VCS improves the air quality and visibility in the working environment of the machine operator and ground crew. The VCS suction channel has been optimized in design, offering improved access to reduce the cleaning effort.

WIRTGEN > GOOD TO KNOW



All of the features of the W 200 F listed above help actively protect the environment and conserve natural resources.

SUSTAINABLE INNOVATIONS FOR A GREEN FUTURE

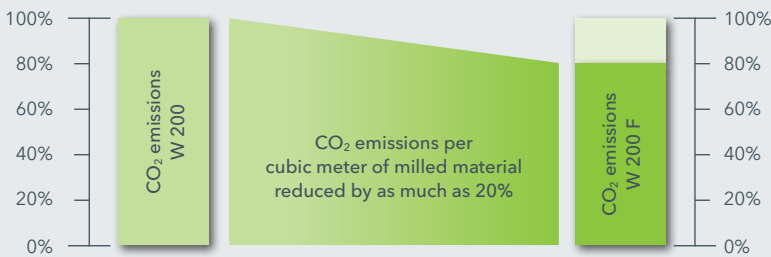
Today, it is more important than ever to minimize harmful CO₂ emissions on road construction sites - while still maintaining high levels of performance and productivity. Innovative WIRTGEN technologies play an active role in protecting the environment and conserving natural resources.

The W 200 F from the F-series - the current generation of large milling machines from WIRTGEN - cuts CO₂ emissions during operation by significantly reducing fuel consumption per cubic meter of milled material.

WIRTGEN > GOOD TO KNOW



Compared to the previous model - the W 200 from 2010 - the W 200 F reduces CO₂ emissions by as much as 20% per cubic meter of milled material. WIRTGEN innovations such as **MILL ASSIST** and dual fan cooling all play a vital role here.



WIRTGEN W 200 (2010)



WIRTGEN W 200 F (2020)





WIRTGEN SUSTAINABILITY



The easy-to-operate, compact cold milling machine caters to a wide range of applications from surface course rehabilitation via pavement removal at full depth all the way to fine milling operations. The innovative **MILL ASSIST** machine control system permits efficient operation of the machine in automatic mode paired with high performance and user friendliness. Milling drum units can be exchanged quickly and easily to realize milling widths of 2.0 m or 2.2 m as part of the MCS - Multiple Cutting System.



TECHNICAL SPECIFICATIONS W 200 F

Milling Drum	
Milling width, standard	2,000 mm
Milling width, optional	2,200 mm
Milling depth ¹⁾	0 to 330 mm
Drum diameter with tools	1,020 mm
Engine	
Manufacturer	CUMMINS
Type	QSX 15
Cooling	Water
Number of cylinders	6
Rated power at 2,100 rpm	447 kW / 599 HP / 608 PS
Maximum power at 1,900 rpm	455 kW / 610 HP / 619 PS
Displacement	15 l
Fuel consumption at rated power Fuel consumption in field mix	99 l/h 40 l/h
Exhaust emission standard	EU Stage 3a / US EPA Tier 3
Sound power level in accordance with EN 500-2 engine operator's platform	≤ 110 dB(A) ≥ 80 dB(A)
Electrical System	
Voltage supply	24 V
Filling Capacities	
Fuel	1,200 l
Hydraulic fluid	85 l
Water	3,270 l
Driving Performance	
Max. travel and milling speed	0 to 100 m/min (6 km/h)
Track Units	
Track units, front and rear (L x W x H)	1,565 x 260 x 600 mm
Loading of the Milled Material	
Belt width of primary conveyor	850 mm
Belt width of discharge conveyor	850 mm
Theoretical capacity of discharge conveyor	375 m ³ /h

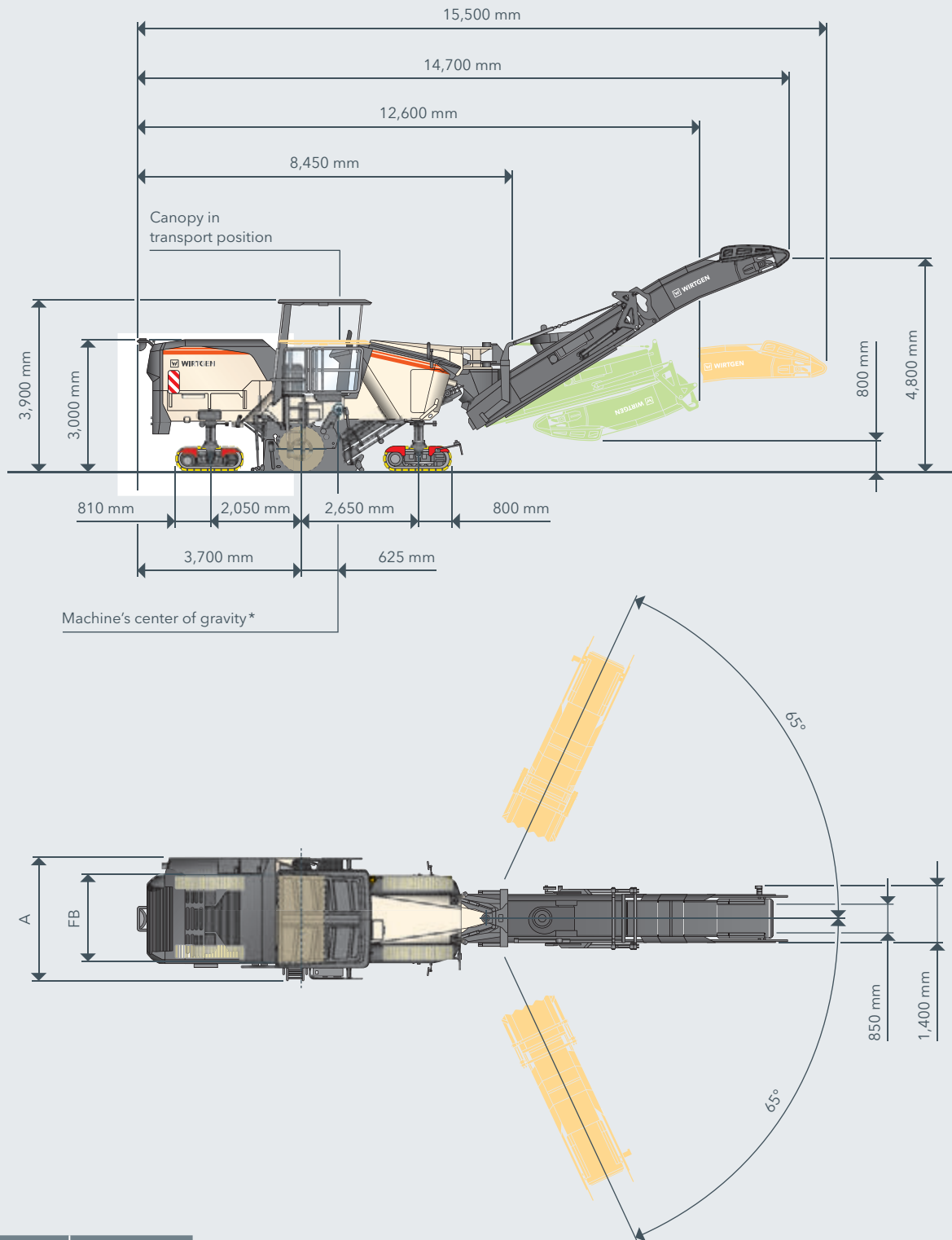
TECHNICAL SPECIFICATIONS W 200 F

Weight of Basic Machine	
Empty weight of machine excluding operating fluids	25,950 kg
Operating weight, CE ²⁾	28,200 kg
Maximum operating weight (full tanks, full range of equipment) in FB2200	34,750 kg
Weights of Operating Fluids	
Water	3,270 kg
Fuel (0,83 kg/l)	1,000 kg
Additional Add-On Weights	
Operator and Tools	
> Operator	75 kg
> 5 pick containers	125 kg
> On-board tools	30 kg
Optional Milling Drum Units Instead of Standard	
> Milling drum housing FB2200	170 kg
> Quick-change milling drum unit FB2000 MCS BASIC	800 kg
> Quick-change milling drum unit FB2200 MCS BASIC	1,050 kg
Optional Milling Drums Instead of Standard	
> Milling drum FB2000 HT22 PLUS LA18 with 148 picks	-70 kg
> Milling drum FB2200 HT22 PLUS LA15 with 175 picks	150 kg
> Milling drum FB2200 HT22 PLUS LA18 with 159 picks	20 kg
Optional Mcs Milling Drums Instead of Standard	
> Milling drum MCS BASIC FB2000 HT22 PLUS LA15 with 162 picks	250 kg
> Milling drum MCS BASIC FB2000 HT22 PLUS LA18 with 146 picks	225 kg
> Milling drum MCS BASIC FB2200 HT22 PLUS LA15 with 176 picks	470 kg
> Milling drum MCS BASIC FB2200 HT22 PLUS LA18 with 155 picks	340 kg
Optional Additional Equipment	
> Operator's platform with simple stand-up seat and weather canopy	510 kg
> Two-piece additional weight with a total weight of 1,600 kg	1,600 kg
> Large storage compartment at the rear of the machine for 69 pick containers	150 kg
> Extension of MCS BASIC with a hydraulically opening side door for FB2000 or FB2200	140 kg
> VCS extraction system	140 kg
> Extension of LEVEL PRO ACTIVE with leveling booms and one Sonic Ski	75 kg
> Extension of LEVEL PRO ACTIVE with one hydraulic sensor mounted on the right	65 kg
> Extension of LEVEL PRO ACTIVE with two hydraulic sensors mounted on the right and left	110 kg

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

²⁾ Weight of machine, half weight of all operating materials, machine operator, on-board tools, no optional equipment features.

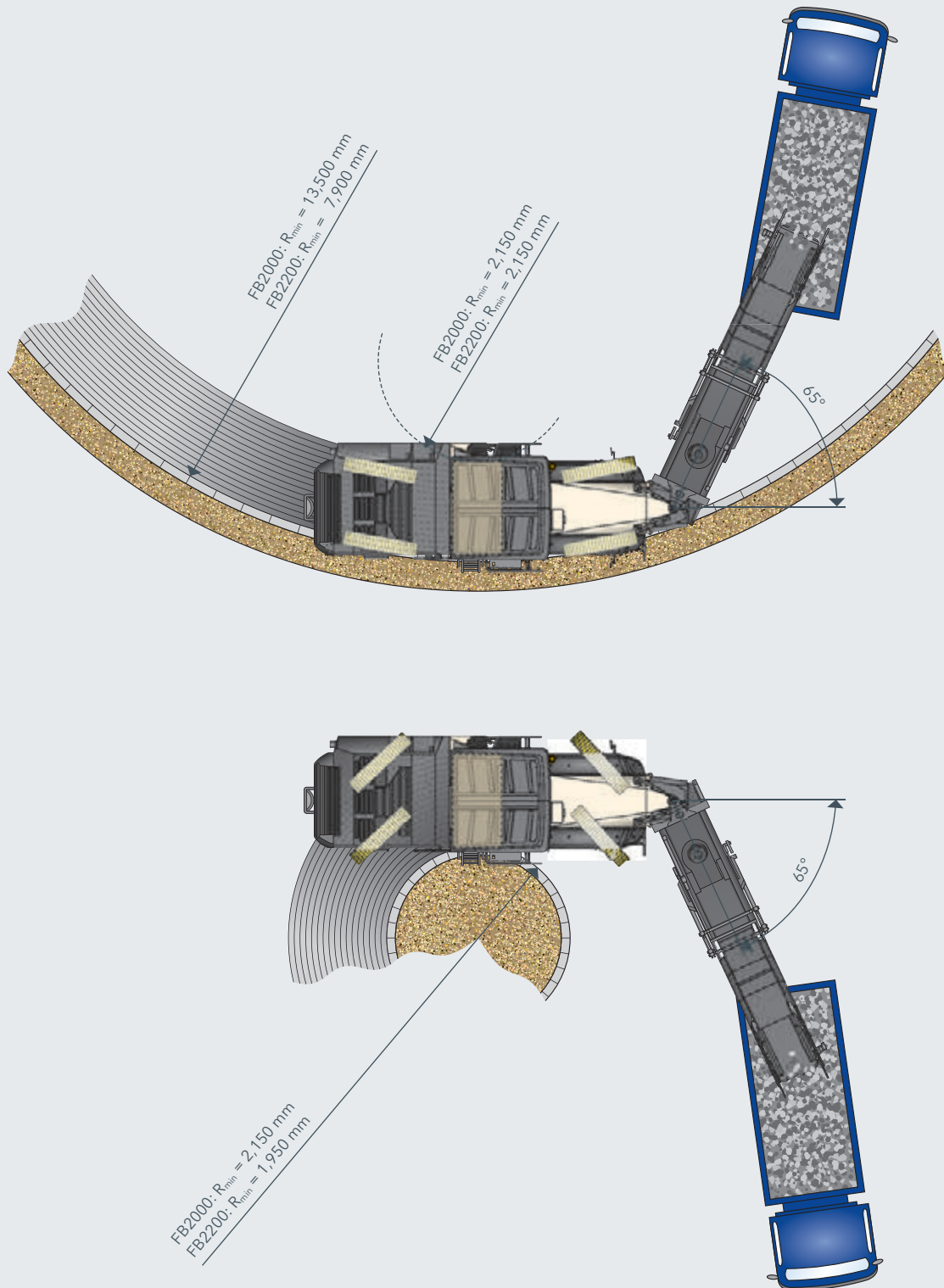
SIDE VIEW / TOP VIEW W 200 F



FB	A
2,000 mm	2,500 mm
2,200 mm	2,700 mm

*Based on operating weight, CE with conveyor folded out

MILLING RADIUS W 200 F AT MILLING DEPTH OF 150 MM



STANDARD EQUIPMENT W 200 F

Basic Machine

- > Base machine with engine ■
- > Machine frame featuring a single wasp waist at the rear right and a dual wasp waist at the front ■
- > Hydraulically opening, soundproof engine cowling ■
- > Air compressor system ■
- > Two cooling fans to minimize power consumption of the cooling system ■

Milling Drum Unit

- > Adjustment of material depressor contact pressure via the control panel or automatically via the **MILL ASSIST** feature to reduce chunk formation ■
- > Electrical adjustment of scraper contact pressure via the control panel ■
- > Automatically controlled locking feature of scraper ■
- > Single-piece water spray bar in the milling drum unit for reliable pick cooling and to prevent dust development ■
- > Automatic control of the water quantity via the **MILL ASSIST** feature ■
- > Height adjustment stroke increased by 150 mm to facilitate pick replacement and the exchange of milling drum units ■
- > Pre-fitting to allow the quick exchange of milling drum units. ■
- > Hydraulically lifting side plates, clearance right 450 mm, clearance left 330 mm ■
- > Milling drum housing FB2000 □

Milling Drums

- > Milling drum FB2000 **HT22 PLUS** LA15 with 162 picks □

Loading of the Milled Material

- > Increased conveyor swing angles of 65° each to the left and right ■
- > Discharge conveyor with adjustable conveying speed ■
- > Boost feature for a temporary increase of the belt speed and conveying performance of the discharge conveyor by 20% ■
- > Water spray system in the primary conveyor ■
- > Larger conveyor pump for a constant belt speed even at a low engine speed of 1,300 rpm ■
- > Discharge conveyor, 7,900 mm long, 850 mm wide □

Machine Control and Leveling System

- > User-friendly control panel including 7" color screen ■
- > **LEVEL PRO ACTIVE** leveling system with numerous automated and complementary operator relieving features ■
- > **LEVEL PRO ACTIVE** - automatic height control in transport mode ■
- > **LEVEL PRO ACTIVE** - ramp milling and auto-start feature for the second milling cut ■
- > **RAPID SLOPE** cross-slope sensor for **LEVEL PRO ACTIVE** leveling system ■
- > **MILL ASSIST** assistance system for automatic adjustment of the milling drum speed in accordance with the main area of application and the parameters selected in terms of engine load, advance rate, milling volume and quality of the milling pattern ■
- > Comprehensive machine diagnostics on the control panel including, for example, a diagnostic system for the CAN bus ■
- > Voltmeter integrated into the control panel for voltage measurement in the event of a malfunction ■
- > Two control panels for operating functions performed by ground crew ■

STANDARD EQUIPMENT W 200 F

Operator's Platform

> Convenient access to the operator's platform, left and right	■
> Anti-vibration mounted operator's platform across the full width of the machine including fold-out railing, right	■
> Electrical control cabinet on the operator's platform for optimum accessibility and fast troubleshooting	■
> Two mirrors at the front, one mirror at the rear of the machine	■
> Operator's platform with simple stand-up seats	□

Track Unit and Height Adjustment

> PTS - automatic alignment of the machine parallel to the pavement surface	■
> ISC - intelligent track speed control including hydraulic four-track drive	■
> Fourfold full-floating axle for high machine stability	■
> High travel speed of up to 100 m/min at low engine speeds (1,350 rpm), reduced diesel consumption and low noise emissions	■
> Lifting speed of the height adjustment feature increased by 60%	■

Miscellaneous

> "Welcome-and-Go-Home-Light" feature in the area of the operator's platform and access	■
> Large storage compartment on the machine for pick containers	■
> High-pressure water system with automatic on/off function, 18 bar, 67 l/min	■
> Good accessibility to all maintenance points on the engine station	■
> Pneumatic hammer with pick extractor / inserter	■
> Large tool kit in lockable tool box	■
> A total of six EMERGENCY STOP switches in appropriate positions on the machine	■
> Pre-fitting for installing the WITOS FleetView control unit	■
> European type certification, EuroTest mark and CE conformity	■
> Water tank filling from rear of machine	□
> Standard film coating in RAL 9001 (cream)	□
> WITOS - professional telematics solution for machine operation and service optimization	□
> Standard LED lighting system with 20,600 lumens	□
> Electro-hydraulic unit	□

■ = Standard equipment

□ = Standard equipment, can be replaced with optional equipment if desired

□ = Optional equipment

OPTIONAL EQUIPMENT W 200 F

Milling Drum Unit

> Milling drum housing FB2200	<input type="checkbox"/>
> Quick-change milling drum unit FB2000 MCS BASIC	<input type="checkbox"/>
> Quick-change milling drum unit FB2200 MCS BASIC	<input type="checkbox"/>
> Extension of MCS BASIC with a hydraulically opening side door for FB2000	<input type="checkbox"/>
> Extension of MCS BASIC with a hydraulically opening side door for FB2200	<input type="checkbox"/>
> Electrically switchable sectional water spray bar for FB2000	<input type="checkbox"/>
> Electrically switchable sectional water spray bar for FB2200	<input type="checkbox"/>
> Wear protection rollers for side plates, left or right	<input type="checkbox"/>
> Mounting aid for lifting out the primary conveyor when changing the milling drum unit	<input type="checkbox"/>
> Milling drum mounting and transport carriage FB1500 to FB2500	<input type="checkbox"/>
> Transport roller set for simplified milling drum unit change (FB1500 - FB3800)	<input type="checkbox"/>
> Quick-change milling drum unit FB2000 MCS and milling drum MCS BASIC FB2000 LA15	<input type="checkbox"/>
> Quick-change milling drum unit FB2200 MCS and milling drum MCS BASIC FB2200 LA15	<input type="checkbox"/>

Milling Drums

> Milling drum FB2000 HT22 PLUS LA18 with 146 picks	<input type="checkbox"/>
> Milling drum MCS BASIC FB2000 HT22 PLUS LA15 with 162 picks	<input type="checkbox"/>
> Milling drum MCS BASIC FB2000 HT22 PLUS LA18 with 146 picks	<input type="checkbox"/>
> Milling drum FB2200 HT22 PLUS LA15 with 176 picks	<input type="checkbox"/>
> Milling drum FB2200 HT22 PLUS LA18 with 155 picks	<input type="checkbox"/>
> Milling drum MCS BASIC FB2200 HT22 PLUS LA15 with 176 picks	<input type="checkbox"/>
> Milling drum MCS BASIC FB2200 HT22 PLUS LA18 with 155 picks	<input type="checkbox"/>
> Milling drum FB2000 HT22 PLUS LA8 with 272 picks	<input type="checkbox"/>
> Milling drum FB2000 HT22 PLUS LA25 with 126 picks	<input type="checkbox"/>
> Milling drum FB2000 HT5 LA6X2 with 672 picks	<input type="checkbox"/>
> Milling drum FB2200 HT22 PLUS LA8 with 297 picks	<input type="checkbox"/>
> Milling drum FB2200 HT22 PLUS LA25 with 134 picks	<input type="checkbox"/>
> Milling drum FB2200 HT5 LA6X2 with 740 picks	<input type="checkbox"/>
> Milling drum MCS BASIC FB2000 HT22 PLUS LA8 with 272 picks	<input type="checkbox"/>
> Milling drum MCS BASIC FB2000 HT22 PLUS LA25 with 126 picks	<input type="checkbox"/>
> Milling drum MCS BASIC FB2000 HT5 LA6X2 with 672 picks	<input type="checkbox"/>
> Milling drum MCS BASIC FB2000 HT22 PLUS LA15 with 18 standard picks and 144 PCD tools	<input type="checkbox"/>
> Milling drum MCS BASIC FB2200 HT22 PLUS LA8 with 297 picks	<input type="checkbox"/>
> Milling drum MCS BASIC FB2200 HT22 PLUS LA25 with 134 picks	<input type="checkbox"/>
> Milling drum MCS BASIC FB2200 HT5 LA6X2 with 740 picks	<input type="checkbox"/>
> Milling drum MCS BASIC FB2200 HT22 PLUS LA15 with 18 standard picks and 158 PCD tools	<input type="checkbox"/>

Loading of the Milled Material

> Discharge conveyor, 7,900 mm long, 850 mm wide, with hydraulic folding device	<input type="checkbox"/>
> VCS extraction system	<input type="checkbox"/>
> Support device for discharge conveyor	<input type="checkbox"/>
> ACTIVE CONVEYOR swing angle control for discharge conveyor	<input type="checkbox"/>

OPTIONAL EQUIPMENT W 200 F

Machine Control and Leveling System

> Actual milling depth measurement and display on the LEVEL PRO ACTIVE panel	<input type="checkbox"/>
> Overload sensors installed on the scraper	<input type="checkbox"/>
> Active floating position for the side plates, left and right	<input type="checkbox"/>
> 5" control panel for controlling the leveling system	<input type="checkbox"/>
> Qty. 1 - 2" control panel including favorites buttons	<input type="checkbox"/>
> Qty. 2 - 2" control panels including favorites buttons	<input type="checkbox"/>
> 7" control panel for displaying the machine control system and for controlling the leveling system	<input type="checkbox"/>
> Extended functionality of the control panels at the bottom right and left including start-stop engine feature, level indicator for the water tank and time display	<input type="checkbox"/>
> User-specific storage of machine settings via SMART KEY key fob	<input type="checkbox"/>
> Extension of LEVEL PRO ACTIVE with leveling booms and one Sonic Ski sensor	<input type="checkbox"/>
> Extension of LEVEL PRO ACTIVE with one hydraulic sensor mounted on the right	<input type="checkbox"/>
> Extension of LEVEL PRO ACTIVE with two hydraulic sensors mounted on the left and the right	<input type="checkbox"/>
> Extension of LEVEL PRO ACTIVE with two ultrasonic sensors for multiplex scanning	<input type="checkbox"/>
> Extension of LEVEL PRO ACTIVE with four ultrasonic sensors for multiplex scanning	<input type="checkbox"/>
> Extension of LEVEL PRO ACTIVE with pre-fitting for 3D leveling for machines without canopy	<input type="checkbox"/>
> Extension of LEVEL PRO ACTIVE with pre-fitting for 3D leveling for machines with canopy	<input type="checkbox"/>
> Extension of LEVEL PRO ACTIVE with two laser receivers	<input type="checkbox"/>

Operator's Platform

> Operator's platform with simple stand-up seat and large storage compartment	<input type="checkbox"/>
> Operator's platform with simple stand-up seat and weather canopy	<input type="checkbox"/>

Miscellaneous

> Hydraulically operated filling pump for water refilling	<input type="checkbox"/>
> Film coating according to the customer's wishes	<input type="checkbox"/>
> Model without WITOS	<input type="checkbox"/>
> Extended LED lighting system with 37,600 lumens	<input type="checkbox"/>
> Extended electro-hydraulic unit	<input type="checkbox"/>
> Two additional weights with a total weight of 1,600 kg	<input type="checkbox"/>
> Large storage compartment at the rear of the machine for 69 pick containers	<input type="checkbox"/>
> Storage compartment close to the rear track units for 8 pick containers	<input type="checkbox"/>
> Milling drum rotation device	<input type="checkbox"/>
> Powerful high-pressure water cleaner, 150 bar, 15 l/min	<input type="checkbox"/>
> Hydraulic pick ejector	<input type="checkbox"/>
> 2-fold camera system	<input type="checkbox"/>
> 4-fold camera system with 10" control panel	<input type="checkbox"/>
> 8-fold camera system with 10" control panel	<input type="checkbox"/>
> Electrical diesel suction and pressure pump including 7.50 m suction hose	<input type="checkbox"/>
> License plate holder with LED lighting	<input type="checkbox"/>
> Drawbar eye at the rear with a 50 kN load capacity	<input type="checkbox"/>
> Hydraulically driven sweeping unit	<input type="checkbox"/>

■ = Standard equipment

▣ = Standard equipment, can be replaced with optional equipment if desired

□ = Optional equipment





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