

MAXIMUM PERFORMANCE FOR UNSURPASSED PRODUCTIVITY



The particularly wide front loading conveyor and the high-performance belt drive guarantee maximum material loading capacity.

A large number of our innovative features significantly reduce fuel and pick consumption and thus effectively contribute to increased sustainability and the minimization of carbon emissions.



OVERVIEW OF HIGHLIGHTS

Perfectly Equipped

OPERATION

Exceptional Comfort on the Operator'sPlatform

- > Perfect view of important working areas
- > High-performance LED lighting
- > Generously sized storage space
- > Powerful heater for operator's platform
- > Variable, vertically adjustable weather canopy
- > SMART KEY to save user-specific machine parameters

02 Intuitive MMI - Man Machine Interface

- > Flexible control panel concept for maximum machine control
- > 2" control panel with favorites buttons
- > 5" control panels for leveling
- > 7" control panels conveniently display important information
- > Heavy-duty, high-quality camera/monitor system with 10" control panel

QUALITY

High-Precision, Versatile LEVEL PRO ACTIVE Leveling System

- > New, easy-to-use **LEVEL PRO ACTIVE** operating concept
- > Numerous additional and automatic functions
- > Optimized 3D and laser leveling
- > Leveling boom with Sonic-Ski sensor on both sides
- > Optimized multiplex system

04 High Reliability

- > Groundbreaking diagnostic concept
- > Redundant machine control
- > Robust, reliable CAN network
- > Reliable vandalism protection
- > Time-saving service and maintenance concept



MILLING

One-Of-A-Kind Cutting Technology

- > Rapid milling drum changes thanks to MCS BASIC
- > Simple milling drum assembly changes
- > Optimized protection against milling drum assembly wear
- > Extremely wear-resistant HT22 quick-change toolholder
- > New HT22 PLUS toolholder upper part with increased service life

Innovative MILL ASSIST



- > One-of-a-kind dual engine control for maximum performance and efficiency
- > Additional pre-selection of an operating strategy in automatic mode
- > Clear pre-selection of constant milling pattern quality
- > Innovative efficiency indicator

PERFORMANCE

07 Maximum Milling Performance

- > ACTIVE DUAL POWER Dual engine drive system for a massive power spectrum
- > Large scraper lift with high setting depth
- > Flexible and powerful loading of milled material
- > ACTIVE CONVEYOR for swinging the discharge conveyor relative to the steering angle

08 Informative WPT -WIRTGEN PERFORMANCE TRACKER

- > Field-tested WITOS FleetView telematics system
- > Optional additional equipment WPT for clear documentation of milling performance
- > Automatically generated measurement reports
- > Job site tracking via satellite map display
- > Documentation of consumables to calculate operating costs



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

ECONOMY AND SUSTAINABILITY

09 Maximum Efficiency -Active Minimization of CO₂



- > Unmatched engine control solutions for maximum diesel savings
- > Dual engine automatic stop feature
- > Maximum performance and cost-effectiveness at low
- > Dual fan concept for optimum cooling

10 Environmentally Friendly Machine Technology 1

- > Maximum exhaust gas purification for low exhaust emissions
- > Reduced noise emissions during relocation
- > Optimized VCS extraction system
- > ECO operating strategy for minimal consumption
- > Start-stop engine function via external control panel
- > Efficient water management

CONNECTED MILLING

An efficient flow of information is the key to making processes easier, faster, and more cost-effective. WIRTGEN has been committed to this approach for many years and refers to the topic in the field of milling technology as **CONNECTED MILLING**.

CONNECTED MILLING refers to the innovative, diverse flow of information between the machine and its various components, the machine operator, the service workshop, and the scheduling offices. This available data and information can be used to make milling operations even more efficient and further increase machine reliability.

In the new generation of large milling machines, the latest, innovative CONNECTED MILLING features include the MILL ASSIST intelligent assistance system and the WIRTGEN PERFORMANCE TRACKER high-precision milling performance measurement system.

MILL ASSIST can be used to assess relevant information such as engine load, milling drum type, milling depth, or traveling pressure, for example, in order to set the optimum milling drum speed. In addition, the machine operator can pre-select a work strategy with respect to costs, performance, or quality.

The WIRTGEN PERFORMANCE TRACKER uses a laser scanner to measure the

uses a laser scanner to measure the cross-sectional profile to be milled. Surface milling performance and milling volume are then precisely measured using GPS positioning and other sensors. Afterwards, an automatically generated report is created that documents the daily milling performance, including all consumables, a precise site plan, and a wealth of other information, which is then sent to the machine dispatcher, for example. The machine operator receives important information directly via the control panel display.

In WIRTGEN's new generation of large milling machines, **CONNECTED MILLING** becomes even more important for machine operators.





EXCEPTIONAL COMFORT ON THE OPERATOR'S PLATFORM

Perfect View of Important Working Areas

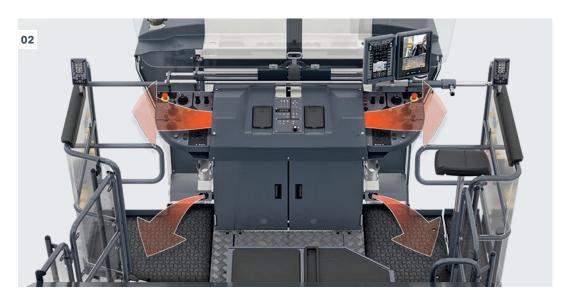
The large milling machine's intelligently designed visibility concept makes the operator's work much easier and results in precise milling results. For example, the operator's platform can be extended to the right by more than 20 cm beyond the edge of the machine to guarantee that the operator has an unobstructed view of the area to be milled and the loading of the milled material. In addition, the narrow chassis is designed with a wasp waist at the front left and right as well as at the back right. This means that the operator always has a good view of the crawler unit and milling edge.

High-Performance LED Lighting

The W 250 Fi has particularly powerful LED working lights all around the machine, lighting for the operator's platform, and "welcome and go home" lighting for comfortable access. In addition, the machine also features control panel lighting, lighting for the milling drum assembly including auxiliary working lights for tool changes, and optional LED lighting balloons. This guarantees optimum machine illumination, even in difficult lighting conditions.



- **01** Ergonomically designed operator's platform.
- **02** Optimum heating for the operator's hands and feet.
- **03** Individually, vertically heightadjustable weather canopy.
- **04** Weather canopy in transport position.







Generously Sized Storage Space

The W 250 Fi offers plenty of storage space for leveling sensors, pick ejectors, and tool buckets. The 1,620-liter, additional and optional XXL storage compartment at the rear of the machine can hold up to 72 pick buckets, while another 265-liter storage compartment on the operator's platform can also be used as an option.

Powerful Heater for Operator's Platform

The cold milling machine is equipped with a high-performance heater for the operator's platform. Intelligently arranged air vents positioned near the operator's hands and feet guarantee an excellent heating effect. In addition, the generated heat is effectively kept close to the operator by lateral wind and weather protection elements and the lowerable weather canopy.

Variable, Vertically Adjustable Weather Canopy

The height of the hydraulically height-adjustable weather canopy can be individually adjusted based on the respective operating and weather conditions. The height of the canopy can be adjusted at the touch of a button during milling operation, e.g. to avoid low-hanging branches on a street lined with trees. In addition, the heavy-duty windshields are equipped with window wipers. Exterior canopy panels that can be moved independently of each other provide additional protection in the event of rain. The operator's platform railings are also equipped with wind and weather protection elements.

SMART KEY

The SMART KEY key fob can be used to save individually adjustable machine parameters such as the display configuration or the assignment of favorites buttons. The user-specific data can be saved on five different key rings and easily transfered to other cold milling machines.

INTUITIVE MMI – MAN MACHINE INTERFACE

Flexible Control Panel Concept for Maximum Machine Control

The new control panel concept makes it possible to combine different control panels to meet specific customer requirements. The comprehensive and clear status, diagnostics, and informational display for the machine operator was an essential requirement for the WIRTGEN development engineers. The new, easy-to-understand, intuitive control panel concept optimally meets these requirements.

2" Control Panel with Favorites Buttons

In addition, up to two 2" control panels can be added to the operator's platform. In this context, the position of the panel on the left or right external railings of the operator's platform makes operation easier and more effective. It can be programmed with up to 21 individually selected functions, such as swinging the discharge conveyor.

5" Control Panels for Leveling

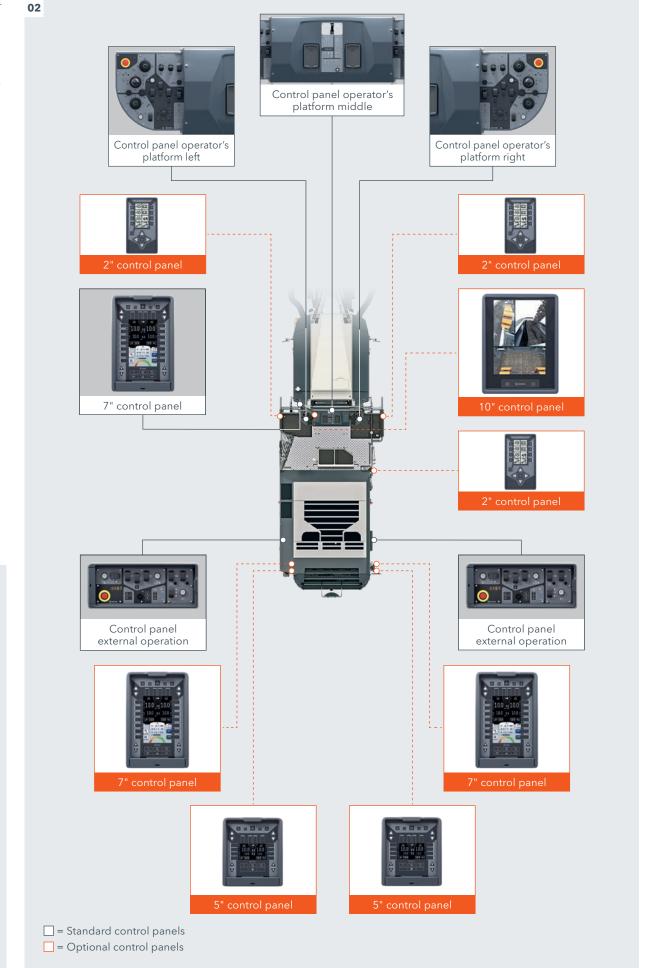
For leveling with the **LEVEL PRO ACTIVE** leveling system, up to two additional 5" control panels on the right and left of the machine can be optionally fitted for ground crews.

7" Control Panels Conveniently Display Important Information

Whether up top on the operator's platform or at the lower operating positions, the new control panel concept provides comprehensive and clear information. As such, the 7" control panel offers all of the machine operators the following displays, for example: Machine load conditions, temperatures, hydraulic pressures, diesel and water levels, leveling control, status and diagnostic messages, and general information such as the current time.



- Individual, user-friendly panel layout.
- Overview of the different control panels and their positions.





INTUITIVE MMI – MAN MACHINE INTERFACE

Heavy-Duty, High-Quality Camera / Monitor System with 10" Control Panel

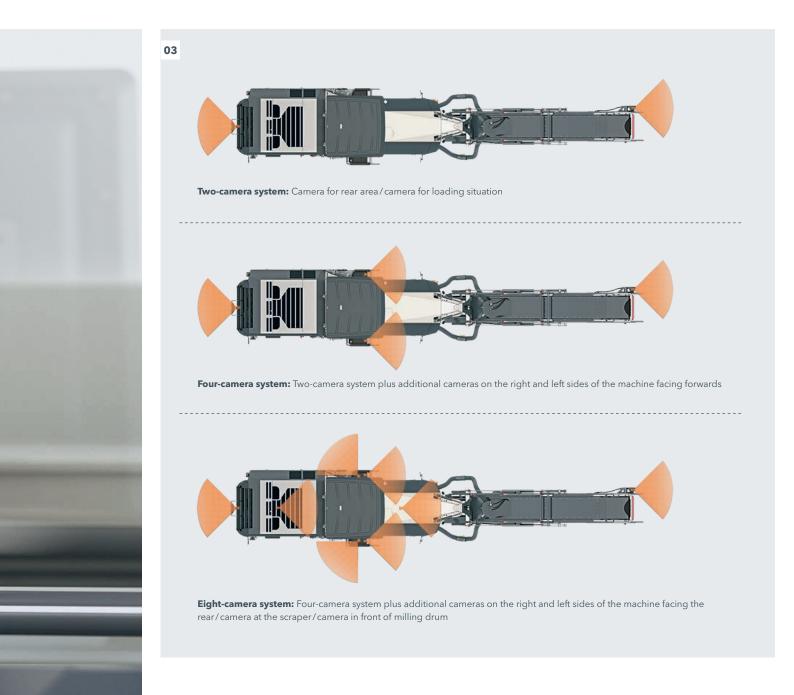
A two-camera, four-camera, or eight-camera system is also optionally available. In the two-camera system, the camera images are displayed on the 7" control panel on the operator's platform. The four-camera and eight-camera systems

also come with a 10" control panel that can display several camera images simultaneously via split screen. The heavy-duty camera/monitor systems provide the operator a clear view of important working areas, such as where the material is loaded onto trucks or the milled surface behind the scraper.



- 10" control panel with split screen to simultaneously display several camera images.
- Optional 5" control panel to display leveling information to ground crews.
- Various camera systems to provide a clear view of important areas.





HIGH-PRECISION, VERSATILE LEVEL PRO ACTIVE LEVELING SYSTEM

New, Easy-To-Use LEVEL PRO ACTIVE Operating Concept

The new **LEVEL PRO ACTIVE** leveling system especially developed for cold milling machines and featuring innovative operating panels is intuitive and easy to operate. Fully integrated into the machine control system, it enables a high degree of automation because important machine functions are directly linked to each other, guaranteeing precise milling results. In addition, **LEVEL PRO ACTIVE** offers a simple and field-tested 3D system interface with the 3D kit.

Numerous Additional and Automatic Functions

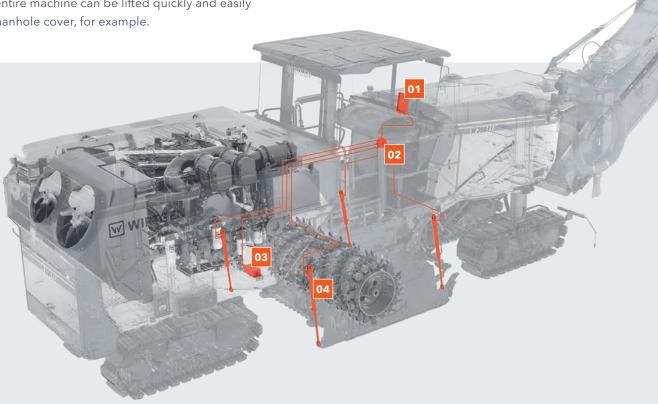
The **LEVEL PRO ACTIVE** leveling system offers many automatic and additional functions that make the operator's job easier. All of the connected sensors are displayed and can be selected on the control panel. This also speeds up work processes. This means the entire machine can be lifted quickly and easily to drive over a manhole cover, for example.

Optimized 3D and Laser Leveling

The drastically simplified method of attaching laser sensors to the cold milling machine's weather canopy makes it easier to use 3D systems.

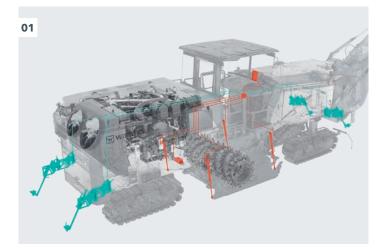
Leveling Booms on the Right and Left with Sonic-Ski Sensor

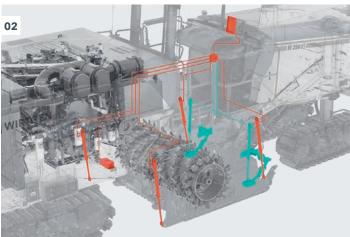
The new leveling booms with Sonic-Ski sensor make the contactless scanning of a wire or a reference surface on both sides at a distance of up to 1,900 mm from the milling edge possible. In this context, the boom can be adjusted hydraulically from the operator's platform by up to 840 mm to the outside using the Sonic-Ski sensor during milling operation; and a mechanical adjustment offers an additional 880 mm of telescopic travel.

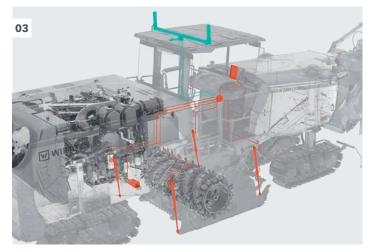


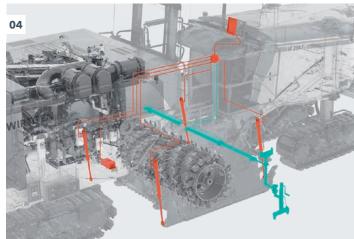
Optimized Multiplex System

The multiplex system consists of two ultrasonic sensors attached to flexibly adjustable swing legs on each side of the machine. Benefits of the system include the large adjustment range for a wide variety of leveling applications and the low weight of the individual units. The swing legs can be easily folded together onto the machine for machine transport.













03 3D leveling/laser leveling.

04 Telescoping leveling boom.

= Standard Equipment

= Optional Equipment

W 250 Fi With Standard Leveling Sensors

7" **LEVEL PRO** *ACTIVE* control panel

02 Machine control system

03 Cross-slope sensor

Hydraulic side plate cylinderwith built-in displacement sensor



EXCEPTIONAL RELIABILITY

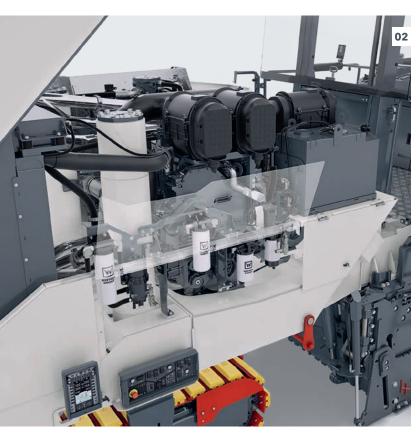
Groundbreaking Diagnostic Concept

The new diagnostic concept guides the operator easily and intuitively through the troubleshooting process. Any potential malfunction is clearly indicated to the operator on the display, including a description of the fault. The operator can then locate the malfunction using optimized, easy-to-understand color graphics. Finally, detailed assistance in writing ensures that the operator can begin to correct the error.

Redundant Machine Control

Three control computers built into the machine can be interchanged variably in order to ensure that the machine is always operational in the event that one of the three computers fails. In addition, the two 7" control panels on the operator's platform and outside for ground crews can be interchanged variably while maintaining all of the machine's functions.







OUT Output Node 0 Out 0 BMK Name Output Node 0 Out 0 BMK Name

Robust, Reliable CAN Network

A backup CAN bus has been installed in important areas and can be switched to if necessary. The main control elements are equipped with two-channel signal transmission, meaning that they can still be used if one signal fails. Information about a signal failure is also displayed to the operator.

Reliable Vandalism Protection

The innovative vandalism protection system protects the control panels against the use of force or theft. This means that the control panels on the left and right side of the operator's platform can simply be pushed into the main control panel and locked. The linearly arranged control panels on the operator's platform can be folded and secured by means of a special mechanism via the centrally positioned

control panel. All in all, the simple method of securing the control panels also makes it possible to quickly prepare the machine for transport.

Time-Saving Service and Maintenance Concept

The W 250 Fi stands out thanks to significantly simplified access to the service points. As such, the air and hydraulic oil filters are easily accessible from the operator's platform when the engine cover is open, for example. The engine oil and diesel particulate filters are readily accessible from the ground for maintenance. In addition, all relevant machine components are quickly and easily accessible.

- **01** Images are directly forwarded from the error message to the diagnostics with clear localization.
- **02** Easily accessible service points.
- **03** Secure and fast protection of control panels.

ONE-OF-A-KIND CUTTING TECHNOLOGY

Rapid Milling Drum Changes Thanks to MCS BASIC

Milling drums can now be changed even faster thanks to the new generation of MCS milling drums. The milling drum rotation device can be used to release just one central screw at the push of a button. The only thing the operator has to do afterwards is simply pull out the milling drum. The MCS side panel can be opened quickly and effortlessly using the hydraulic cylinder drive. This simplified process has many advantages: Rapidly changing milling drums with different tool spacings to meet specific application requirements increases machine productivity. Changing the milling drum at short notice and using the ideal drum for the job reduces wear costs. In addition, this

systems guarantees maximum flexibility for the ever-changing requirements during day-to-day operations.

Simple Milling Drum Assembly Changes

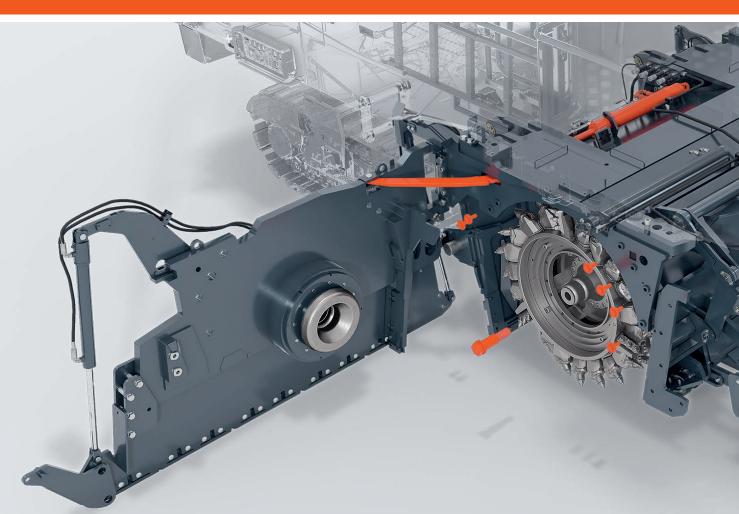
The new quick-change milling drum assembly allows different milling widths of 2.2 m, 2.5 m, 3.5 m, or 3.8 m to be selected. With the help of the simplified quick-change system, milling drum assemblies of different working widths can be changed in less than an hour. The significantly increased stroke of the machine height adjustment makes work much easier. In addition, only one electrical plug connection, four hydraulic quick couplings, and one water hose need to be connected.

With Ease

Easy-to-swap milling drums

Wider Working

Additional milling units for greater width



02

02 Large selection of different MCS milling drums.



ECO-Cutter

Milling width: 2,200 mm, Milling depth: 0 - 350 mm, Tool spacing: 25 mm



Standard Milling Drum

Milling width: 2,200 mm, Milling depth: 0 - 350 mm, Tool spacing: 18 mm



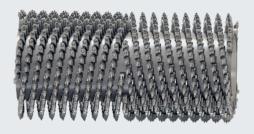
Standard Milling Drum

Milling width: 2,200 mm, Milling depth: 0 - 350 mm, Tool spacing: 15 mm



Fine Milling Drum

Milling width: 2,200 mm, Milling depth: 0 - 100 mm, Tool spacing: 8 mm

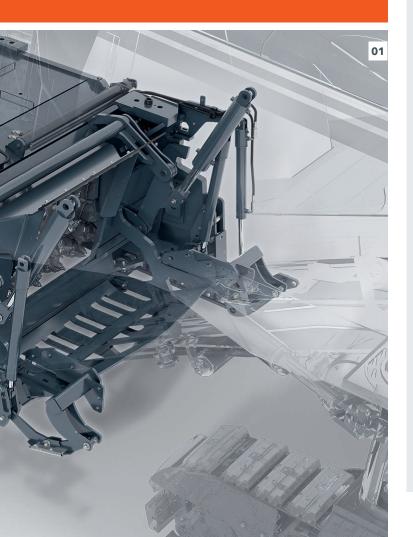


Micro-Fine Milling Drum

Milling width: 2,200 mm, Milling depth: 0 – 30 mm, Tool spacing: 6x2 mm

WIRTGEN > GOOD TO KNOW

Easy retrofit of ECO-Cutter milling drum results in reduced cutting resistance and therefore a drop in diesel consumption and CO_2 emissions.



ONE-OF-A-KIND CUTTING TECHNOLOGY

Optimized Protection Against Milling Drum Assembly Wear

The side plates are equipped with extremely wear-resistant protective skids on both sides. Additional optional rollers attached to the side plates prevent scratches on the asphalt. In addition, the material depressor on rollers gently glides over the surface.

Extremely Wear-Resistant HT22 Quick-Change Toolholder System

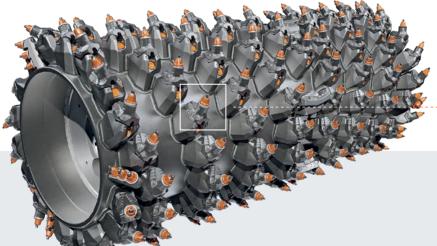
The milling drums of the W 250 Fi are equipped with the HT22 quick-change toolholder system, making them perfect for highly demanding milling tasks. In addition, the heavy-duty milling drum design enables the upper parts of the quick-change toolholders to be changed quickly on site, if required.

- **01** Extremely wearresistant **HT22** quick-change toolholder system.
- **02** 2.2 m, 2.5 m, 3.5 m, and 3.8 m milling drum assemblies.

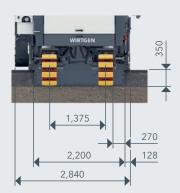
New HT22 *PLUS* Toolholder Upper Part with Increased Service Life

The new **HT22 PLUS** quick-change toolholder upper part features innovative centering marks on the tool contact surface. In combination with the new X² generation of picks, this reduces toolholder wear by up to 25% and also optimizes the rotation behavior of the picks. The new upper part offers considerable benefits such as higher milled surface quality and longer intervals between changes.





W 250 Fi with 2.2 m Milling Drum Assembly



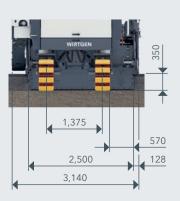


Standard Milling Drum

Milling width: 2,200 mm, Milling depth: 0 - 350 mm,

Tool spacing: 15 mm

W 250 Fi with 2.5 m Milling Drum Assembly



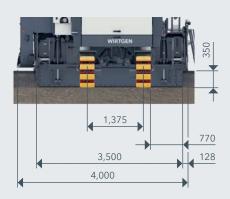


Standard Milling Drum

Milling width: 2,500 mm, Milling depth: 0 - 350 mm,

Tool spacing: 15 mm

W 250 Fi with 3.5 m Milling Drum Assembly



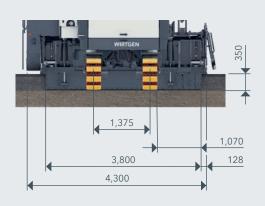


Standard Milling Drum

Milling width: 3,500 mm, Milling depth: 0-350 mm,

Tool spacing: 15 mm

W 250 Fi with 3.8 m Milling Drum Assembly





Standard Milling Drum

Milling width: 3,800 mm, Milling depth: 0 - 350 mm,

Tool spacing: 15 mm

INNOVATIVE MILL ASSIST

OPERATOR

Operating Strategy

- > ECO
- > Performance-optimized
- > Milling pattern quality

MACHINE

Operating Parameters

Such as:

- > Milling width
- > Milling depth
- > Milling drum/picks
- > ..



Automatic Adjustment of Machine Settings

- > Milling speed
- > Engine speed
- > Water injection rate

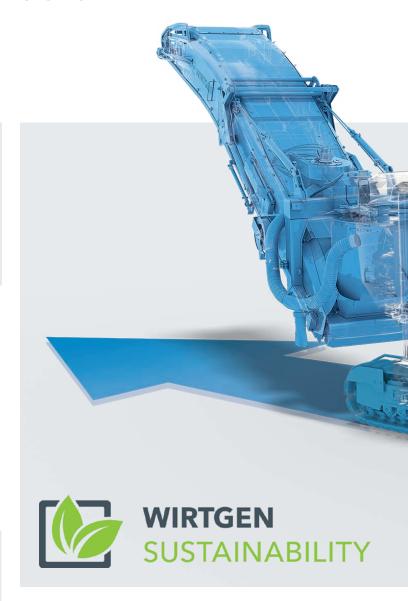
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Information Displayed

- > Efficiency
- > Milling pattern
- > Suggested optimizations

MILL ASSIST Automatic Mode

In automatic mode, the innovative **MILL ASSIST** machine control system always selects the operating strategy with the best balance between performance and costs. In doing so, the process optimization automatically adjusts the speed of the diesel engines and milling drum, the travel drive, the water system, and the machine's advance speed. This significantly reduces the operator's workload while improving machine performance and considerably reducing diesel consumption, CO_2 emissions, and noise.



One-Of-A-Kind Dual Engine Control

Thanks to the innovative engine control system, both engines always operate at maximum power and maximum fuel efficiency based on demand.

Additional Pre-Selection of an Operating Strategy in Automatic Mode

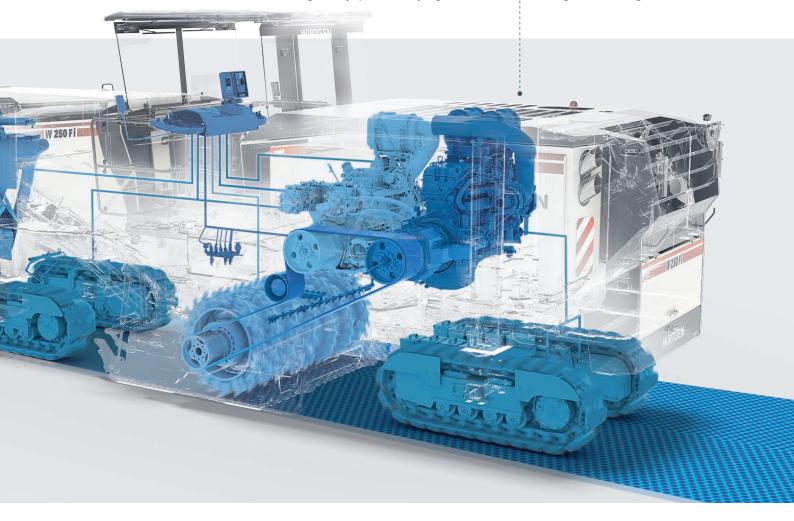
The operator can also pre-select one of three working strategies for the next application: "ECO", "cost-optimized," "performance-optimized," or "milling pattern quality." The machine then automatically adjusts the main parameters based on the selected operating strategy.



During auxiliary operations, only engine 2 is active.



In milling mode, both engines are switched on.



Clear Pre-Selection of Constant Milling Pattern Quality

The operator can preset the required milling pattern quality by simply pre-selecting from a scale from 1 to 10. This then automatically sets the milling drum rotation speed and the milling speed, taking the milling drum type into account.

Innovative Efficiency Indicator

The machine operator can constantly monitor the machine's status via an efficiency indicator. Changes to the milling parameters that could potentially improve efficiency are also displayed on the control panel.

WIRTGEN > GOOD TO KNOW

The MILL ASSIST machine control system in the W 250 F(i) enables efficient engine speeds while also boosting productivity. In particular, this results in a significant reduction in CO_2 emissions per cubic meter of milled material.

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MAXIMUM MILLING PERFORMANCE



ACTIVE DUAL POWER Dual Engine Drive

Both diesel engines deliver maximum power with high torque – and thanks to the **MILL ASSIST** engine control system, fast, productive work is possible across a very wide range of applications. The large milling machine fully leverages its impressive performance capabilities, particularly when the operating strategy "performance-optimized" for maximum area performance is pre-selected.

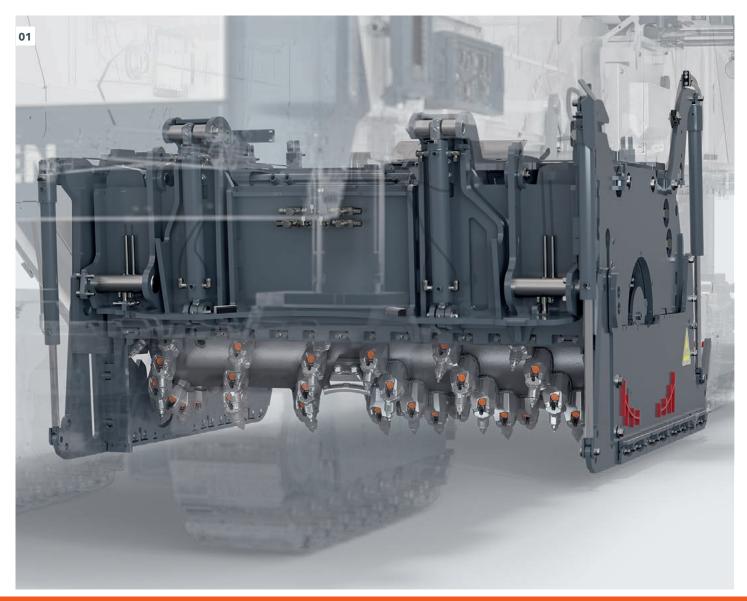


MAXIMUM MILLING PERFORMANCE

Large Scraper Lift with High Setting Depth

The increased scraper lift makes greater milling depths possible and thus expands the machine's range of applications when milling without material loading. This also allows a milling depth of up to 310 mm to be achieved as soon as the machine enters the position to begin milling. At the same

time, reduced material accumulation minimizes wear on the milling drum housing and the milling drum. Different scraper contact pressure levels can also be selected quickly and conveniently at the touch of a button via the 7" control panel, depending on the requirements and application.





01 Increased scraper stroke for a wider range of milling applications and reduced wear. 02 The discharge conveyor has a large swing range.

Flexible and Powerful Loading of Milled Material

Extremely wide conveyor swing angles of 65° to both sides make it possible to load material even in difficult situations, e.g. in intersections or turning areas. Pressing the "Booster" button on one of the two main control panels temporarily increases the belt speed by 20% and the loading capacity of the discharge conveyor by 20% in order to temporarily transport milled material particularly high or far onto a truck bed. Two swing speeds, the belt speed that can be adjusted at the touch of a button, and the hydraulically folding discharge conveyor further increase flexibility on the job site.

ACTIVE CONVEYOR

When repositioning the discharge conveyor in difficult job site situations, the semi-automatic **ACTIVE CONVEYOR** swing angle control system assists the operator in the best possible way - such as when milling in intersections or bypassing road installations.

WPT - THE INFORMATIVE WIRTGEN PERFORMANCE TRACKER

Field-Tested WITOS FleetView Telematics System

The WITOS FleetView telematics system consists of the control unit (TCU) with a GPS receiver and a license to use the WITOS FleetView web application. The web interface pro-

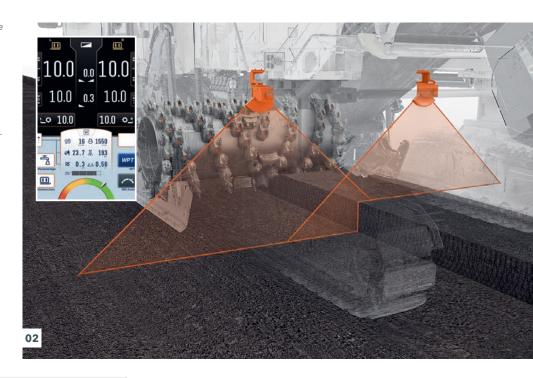
vides a compact overview of the machine status with consumption data, operating hours, position data, error messages, and service intervals.



- 01 The operator is always aware of the current machine and application parameters - at the end of the workday, the data is transmitted to the machine owner.
- 02 The actual, currently active milling width is scanned by a laser scanner and clearly displayed on the operating panel.

Optional Additional Equipment WPT for Clear Documentation of Milling Performance

The additional equipment **WPT** also tracks the machine's actual milling per-



formance and provides consumption and position data in a clear, automatically generated report. Milling cross-sections measured by a laser scanner are converted for the purpose of calculating the milling volume. The current milling volume and truck tonnage are constantly displayed to the operator on the 7" control panel during the milling process.

Automatically Generated Site Survey Reports

01

Milling performance data is continuously transmitted to a data server via a cellular connection. After completing a milling job, a site survey report is automatically generated in both Excel and PDF formats and sent by e-mail to the machine operator's job management office, for example. The site survey report contains precise information on the milling volume, milled area, and milling depth with the corresponding GPS position.

Job Site Tracking via Satellite Map Aisplay

The site survey reports contain easy-to-read satellite map images detailing the completed milling work. In this context, the milled areas are shown in different colors based on the various milling depth classes.

Documentation of Consumables

The site survey report contains valuable information on consumables such as diesel, water, and picks. Information such as the number of loaded trucks is also displayed, if confirmed by the machine operator. This makes it possible to calculate operating costs quickly and easily.

MAXIMUM EFFICIENCY - ACTIVE MINIMIZATION OF CO₂

Unmatched Engine Control Solutions for Maximum Diesel Savings

The new ACTIVE DUAL POWER dual engine drive together with the MILL ASSIST system ensures that either one or both engines are automatically activated, depending on site conditions and the pre-selected operating strategy. In addition, the two extremely fuel-efficient engines run efficiently at the lowest possible speed. The result is not only optimum engine operation adapted to the respective application, but also enormous savings when it comes to diesel fuel and cutting tools.

Dual Engine Automatic Stop Feature

The diesel engines are automatically switched off in idle mode after an appropriate cooling time. The engine stopping time is displayed on the control panels during the cooling phase.

Maximum Performance and Cost-Effectiveness at Low Speeds

The built-in **MILL ASSIST** machine control system ensures that the diesel engine of the W 250 Fi primarily runs at lower speeds while simultaneously delivering high performance and low diesel consumption.

Intelligent Dual Fan Concept

Two separate speed-controlled and intelligently positioned fans cool the diesel engines and the hydraulic system as required. As a result, the cooling system also helps efficiently reduce diesel consumption.



Examples of the W 250 Fi's Operating Modes

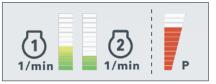




Auxiliary Mode

In auxiliary mode, engine 2 is only active at low speed to power the hydraulic system in order to save fuel.







ECO

In ECO efficiency mode, engine 2 is active at low speed to power the hydraulic system and engine 1 is active at medium speed for milling operations.





Power

Engine 1 and engine 2 power the milling drum synchronously for maximum milling performance. Both engines now deliver high torque with maximum power (P).



Quality

To achieve maximum milling quality, engine 2 is active at low speed to power the hydraulic system and engine 1 is active at medium speed for milling operations.

^{*} = Diesel and pick consumption per m^3

ENVIRONMENTALLY FRIENDLY MACHINE TECHNOLOGY

Environmental Focus

Minimal Water Usage

Low CO₂ emissions

Efficient water metering





ECO Operating Strategy for MinimalConsumption

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

05 Efficient Water Management

Four separate water spray bar segments that can be activated electrically from the operator's platform allow the optimum amount of water to be added to the milling process, such as when milling only half the width of a lane. Automatic activation and deactivation of the water system as well as water injection on the basis of milling performance considerably reduce water consumption.

06 Optimized VCS Extraction System

VCS improves air quality and visibility in the machine operator's and ground crew's working area. In addition, the optimized design of the more easily accessible VCS suction channel reduces the amount of cleaning required.



01 Maximum Exhaust Gas Purification for Low Exhaust Emissions

In this context, the engine technology meets the requirements of the highest EU Stage 5 / US EPA Tier 4f emissions standard for minimal exhaust emissions.

02 Reduced Noise Emissions During Relocation

The cold milling machine has a travel speed of up to 88 m/min. At the same time, only low engine speeds are required - with reduced diesel consumption and lower noise emissions.

O3 Start-Stop Engine Function Via External Control Panel

Engine 2 can also be switched on and off effortlessly by ground crews via the external control panel, making to possible to further reduce diesel consumption and noise emissions.

WIRTGEN > GOOD TO KNOW

All of the features of the W 250 Fi 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 250 Fi from the F-series – the current generation of large milling machines from WIRTGEN – cuts CO_2 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 250 from 2010 – the W 250 Fi reduces CO_2 emissions by as much as 20% per cubic meter of milled material. WIRTGEN innovations such as **MILL ASSIST**, **ACTIVE DUAL POWER** dual engine drive, and dual fan cooling all play a vital role here.





WIRTGEN W 250 (2010)

WIRTGEN W 250 Fi (2020)

As an HVO-ready machine, the W 250 F i offers potential for further reductions in CO_2 emissions when run on the high-quality biofuel HVO.



Our most powerful cold milling machine stands out for delivering maximum performance and unsurpassed productivity. Rapid milling drum assembly changes and particularly fast milling drum changes for milling widths of 2.2 m, 2.5 m, or 3.8 m thanks to the the MCS (Multiple Cutting System) further expand the machine's wide range of applications. In automatic mode, the innovative **MILL ASSIST** machine control system always selects the best ratio between performance and costs – in addition, an operating mode can be selected based on cost, performance, or quality.



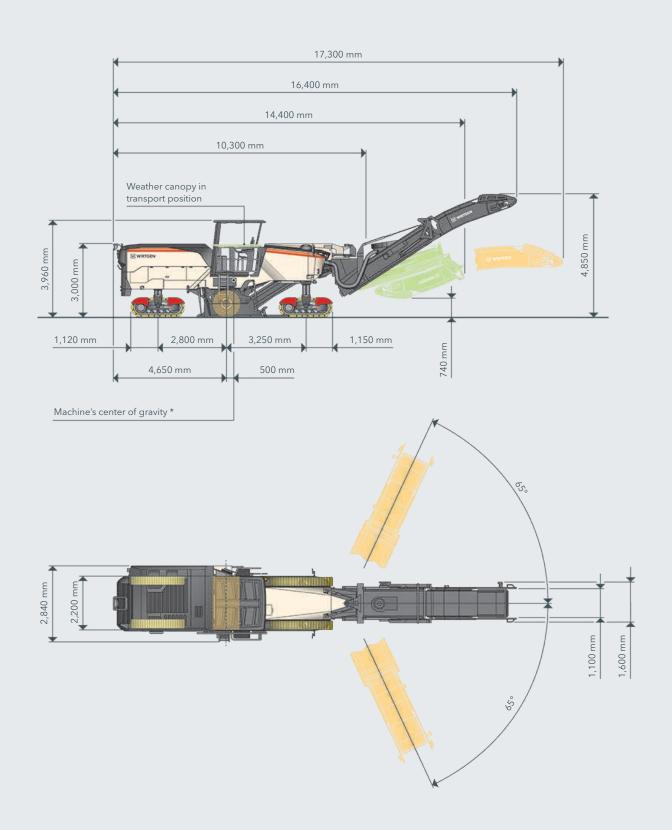
Milling Drum	
Standard milling width	2,200 mm
Milling depth 1)	0 - 350 mm
Cutting diameter	1,140 mm
Engine	
Manufacturer	CUMMINS
Туре	L9 + X15
Cooling	Water
Number of cylinders	6 + 6
Rated power at 2,100 rpm	742 kW / 995 HP / 1,009 PS
Maximum power at 1,900 rpm	753 kW / 1,010 HP / 1,024 P
Displacement	24
Fuel consumption at rated power during a mixture of job site operations	195 l/h 78 l/h
Emissions standard	EU Stage 5 / US EPA Tier 4f
Electrical System	
Power supply	24 V
Tank Capacities	
Fuel	1,300 l
AdBlue® / DEF ²⁾	135
Hydraulic oil	120
Water	4,500
Driving Performance	
Max. travel and milling speed	0 - 88 m/min (5.3 km/h)
Crawler Units	
Crawler units front / back (L x W x H)	2,200 x 370 x 790 mm
Loading of Milled Material	
Belt width of primary conveyor	1,100 mm
Belt width of discharge conveyor	1,100 mm
Theoretical capacity of discharge conveyor	668 m³/h

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Neight of Standard Machine	
Empty weight of machine without fluids	39,300 kg
Operating weight, CE ³⁾	42,300 kg
Maximum operating weight (full tanks, full range of equipment) in FB2200	49,000 kg
Weight of Tank Contents	
Vater	4,500 kg
Fuel (0.83 kg/l)	1,080 kg
AdBlue® / DEF ²⁾ (1.1 kg/l)	150 kg
Additional Weight	
Operator and Tools	
Machine operator	75 kg
> 5 pick containers	125 kg
> Vehicle tool kit	30 kg
Optional Milling Drum Units Instead of Standard	
Milling drum assembly MCS <i>BASIC</i> FB2200	650 kg
Milling drum assembly MCS BASIC FB2500	1,650 kg
Milling drum assembly MCS EXTEND FB3500	3,500 kg
Milling drum assembly MCS EXTEND FB3800	4,500 kg
Optional Milling Drums Instead of Standard	
Milling drum FB2200 HT22 PLUS LA18 with 156 picks	-210 kg
Optional MCS Milling Drums Instead of Standard	
Milling drum MCS BASIC FB2200 HT22 PLUS LA15 with 182 picks	100 kg
Milling drum MCS BASIC FB2200 HT22 PLUS LA15 with 182 picks	-110 kg
Milling drum MCS BASIC FB2200 HT22 PLUS LA15 with 18 standard picks and 180 PKD cutting tools	150 kg
Milling drum MCS BASIC FB2500 HT22 PLUS LA15 with 196 picks	390 kg
Milling drum MCS EXTEND FB3500 HT22 PLUS LA15, multi-part with 294 picks	2,020 kg
Milling drum MCS EXTEND FB3800 HT22 PLUS LA15, multi-part with 314 picks	2,450 kg
Optional Additional Equipment	
Operator's platform with functional standing seat and large storage compartment	80 kg
Operator's platform with functional standing seat, large storage compartment, and weather canopy	600 kg
Operator's platform with high-quality comfort cabin	850 kg
Two additional weights with a total weight of 1,500 kg	1,500 kg
Large storage compartment at the rear of the machine for 72 pick buckets	200 kg
Extension of MCS BASIC with one hydraulically opening side panel for FB2200 / FB2500	50 kg
VCS extraction system	140 kg
Extension of LEVEL PRO <i>ACTIVE</i> with leveling booms and a Sonic-Ski sensor	80 kg
Extension of LEVEL PRO ACTIVE with two ultrasonic sensors for multiplex scanning	40 kg

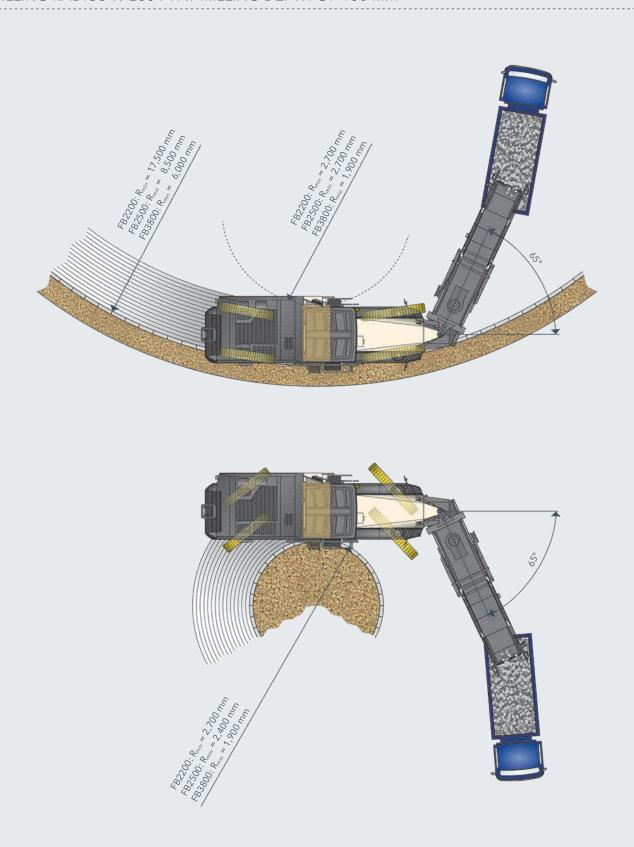
¹⁾ The maximum milling depth may deviate from the value indicated due to tolerances and wear ²⁾ AdBlue® is a registered trademark of the German Association of the Automotive Industry (VDA) ³⁾ Machine weight, half-full tanks, vehicle tool kits, machine operator (75 kg), excluding optional equipment

SIDE VIEW / TOP VIEW W 250 Fi



^{*}Based on operating weight, CE with conveyor folded out

MILLING RADIUS W 250 Fi AT MILLING DEPTH OF 150 MM



Basic Machine	
> Base machine witch dual motor drive	
> Machine frame featuring a single wasp waist at the rear right and a dual wasp waist at the front	
> Automatic pressure adjustment of the hydraulic pump for cylinder functions in accordance with performance re reduced diesel consumption	equirements for
> Hydraulically opening, soundproof engine cowling	
> Air compressor system	
> Battery-operated hydraulic unit for auxiliary drive	
> 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" chunk formation	feature to reduce
> Electrical adjustment of scraper contact pressure via the control panel	
> Automatically controlled locking feature of scraper	
> Milling drum rotation device with electro-hydraulic milling drum drive for slowly turning the milling drum durin replacement	g pick
> Single-piece water spray bar in the milling drum unit for reliable pick cooling and to prevent dust development	t
> Automatic control of the water quantity via the "MILL ASSIST" feature	
> Height adjustment stroke increased by 200 mm to facilitate pick replacement and the exchange of milling drun	n units
> Pre-fitting to allow the quick exchange of milling drum units	
> Hydraulically lifting side plate, right clearance 450 mm and left clearance 350 mm	
> Milling drum housing FB2200	
Milling Drums	
> Milling drum FB2200 HT22 PLUS LA15 with 180 picks	
Loading of the Milled Material	
> Increased conveyor swing angles of 65° each to the left and right	
> Discharge conveyor with adjustable conveying speed and two slewing speeds for precise loading	
> Boost feature for a temporary increase of the belt speed and conveying performance of the discharge conveyor	or by 20%
> Water spray system in the primary conveyor	
> Larger conveyor pump for a constant belt speed even at a low engine speed of 1300 rpm	
> Discharge conveyor, 8,150 mm long, 1,100 mm wide, with hydraulic folding device	
Machine Control and Leveling System	
> User-friendly control panel including 7" colour 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 <i>ACTIVE</i> leveling system	
> "MILL ASSIST" assistance system for automatic adjustment of the milling drum speed in accordance with the mapplication and the parameters selected in terms of engine load, advance rate, milling volume and quality of the	
	CAN bus
> Comprehensive machine diagnostics on the control panel including, for example, a diagnostic system for the C	

STANDARD EQUIPMENT W 250 Fi 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 > Electrical level indicator for the water tank on the external control panels > Time display on the main control panel and on the exterior control panels > Two mirrors at the front, one mirror at the rear of the machine > Operator's platform with functional stand-up seat **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 88 m/min at low engine speeds (1,350 rpm), reduced diesel consumption and low noise emissions 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 > WITOS - professional telematics solution for machine operation and service optimisation > Standard LED lighting system with 19,700 lumens

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

 $[\]square$ = Optional equipment

OPTIONAL EQUIPMENT W 250 Fi	
Milling Drum Unit	
> Milling drum housing MCS BASIC FB2200	
> Milling drum housing MCS BASIC FB2500	
> Milling drum housing MCS EXTEND FB3500	
> Milling drum housing MCS EXTEND FB3800	
> Extension of MCS <i>BASIC</i> with a hydraulically opening side door for FB2200 / FB2500	
> Electrically switchable sectional water spray bar for FB2200	
> Electrically switchable sectional water spray bar for FB2500	
> Electrically switchable sectional water spray bar for FB3500 / 3800	
> Wear protection rollers for side plates, left or right	
> Transport carriage for milling drum units from FB2200 to FB4400	
> Milling drum mounting and transport carriage FB1500 to FB2500	
> Transport roller set for simplified milling drum unit change (FB1500 - FB3800)	
> Quick-change milling drum unit FB2200 MCS BASIC	
> Quick-change milling drum unit FB2500 MCS BASIC	
> Quick-change milling drum unit FB3800 MCS EXTEND	
Milling Drums	
> Milling drum FB2200 HT22 PLUS LA18 with 156 picks	
> Milling drum MCS BASIC FB2200 HT22 PLUS LA15 with 180 picks	
> Milling drum MCS BASIC FB2200 HT22 PLUS LA18 with 156 picks	
> Milling drum MCS BASIC FB2500 HT22 PLUS LA15 with 196 picks	
> Milling drum MCS EXTEND FB3500 HT22 PLUS LA15, multi-part, with 294 picks	
> Milling drum MCS EXTEND FB3800 HT22 PLUS LA15 MCS milling drum, multi-part, with 314 picks	
> Milling drum MCS BASIC FB2200 HT22 PLUS LA8 with 297 picks	
> Milling drum MCS BASIC FB2200 HT22 PLUS LA25 with 134 picks	
> Milling drum MCS BASIC FB2200 HT5 LA6X2 with 740 picks	
> Milling drum MCS BASIC FB2200 HT22 PLUS LA8 with 18 standard picks and 280 PCD tools	
> Milling drum MCS BASIC FB2200 HT22 PLUS LA15 with 18 standard picks and 162 PCD tools	
> Milling drum MCS BASIC FB2500 HT5 LA6X2 with 840 picks	
> Milling drum MCS BASIC FB2500 HT22 PLUS LA8 with 335 picks	
> Milling drum MCS BASIC FB2500 HT22 PLUS LA25 with 141 picks	
Loading of the Milled Material	
> Double discharge conveyor, 8,150 mm long, 1,100 mm wide, with hydraulic folding device	
> Mounting aid for lifting out the primary conveyor when changing the milling drum unit	
> VCS extraction system	
> Signal lights for visual "stop" and "go" instructions for the truck driver	
> ACTIVE CONVEYOR swing angle control for discharge conveyor	
> Support device for discharge conveyor	

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> Actual milling depth measurement and display on the LEVEL PRO <i>ACTIVE</i> panel	
> Overload sensors installed on the scraper	
> Active floating position for the side plates, left and right	
> 5" control panel for controlling the leveling system	
> 7" control panel for displaying the machine control system and for contolling the leveling system	
> Qty. 1 - 2" control panel including favourites buttons	
> Qty. 2 - 2" control panels including favourites buttons	
> User-specific storage of machine settings via SMART KEY key fob	
Extension of LEVEL PRO <i>ACTIVE</i> with leveling booms and one Sonic Ski sensor	
Extension of LEVEL PRO <i>ACTIVE</i> with one hydraulic sensor mounted on the right	
> Extension of LEVEL PRO <i>ACTIVE</i> with two hydraulic sensors mounted on the left and the right	
Extension of LEVEL PRO ACTIVE with two ultrasonic sensors for multiplex scanning	
> Extension of LEVEL PRO <i>ACTIVE</i> with four ultrasonic sensors for multiplex scanning	
Extension of LEVEL PRO <i>ACTIVE</i> with two ultrasonic sensors for multiplex scanning (FB3500 / FB3800)	
Extension of LEVEL PRO <i>ACTIVE</i> with four ultrasonic sensors for multiplex scanning (FB3500 / FB3800)	
> Extension of LEVEL PRO <i>ACTIVE</i> with pre-fitting for 3D leveling for machines without canopy	
Extension of LEVEL PRO <i>ACTIVE</i> with pre-fitting for 3D leveling for machines with canopy	
Extension of LEVEL PRO <i>ACTIVE</i> with pre-fitting for 3D leveling for machines with cabin	
Extension of LEVEL PRO ACTIVE with two laser receivers	
Operator´s Platform	
> 2-fold camera system	
> 4-fold camera system with 10" control panel	
> 8-fold camera system with 10" control panel	
Miscellaneous	
> Powerful high-pressure water cleaner, 150 bar, 15 l/min	
> One hydraulic pick ejector	
> Two hydraulic pick ejectors	
> Electrical fuel filter preheating	
Electrical diesel suction and pressure pump including 7.50 m suction hose	
Licence plate holder with LED lighting	
> Drawbar eye at the rear with a 50 kN load capacity	

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









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For further information, please scan the code.