

Compact and heavy-duty high-performance cold milling machine.

# W 220 Fi Cold Milling Machine



## Compact and heavy-duty high-

performance cold milling machine.



The heavy-duty cold milling machine handles a wide range of applications, from surface layer rehabilitation to complete pavement removal and fine milling.

Rapid milling drum assembly changes and particularly fast milling drum changes for milling widths of 7 ft 3 in (2.2 m), 8 ft 2 in (2.5 m), or 12 ft 6 in (3.8 m) thanks to 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.

Thanks to the unique DUAL SHIFT powershift transmission with extended milling drum speed, the W 220 Fi is the perfect choice for particularly demanding milling tasks.

The new LEVEL PRO **ACTIVE** leveling system built directly into the machine control system optimizes precision in height control and machine positioning.



# Highlights of the Cold Milling Machine at a Glance

#### Operation

## 11 EXCEPTIONAL COMFORT ON THE OPERATOR'S PLATFORM

- > Excellent 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

#### 2 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

## 31 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

#### 4 | HIGH RELIABILITY

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



#### Milling 5 ONE-OF-A-KIND CUTTING TECHNOLOGY 6 INNOVATIVE MILL ASSIST > Rapid milling drum changes thanks to MCS BASIC > MILL ASSIST automatic mode for maximum cost > Simple milling drum assembly changes efficiency > Optimized protection against milling drum assembly > Additional pre-selection of an operating strategy in automatic mode wear > Extremely wear-resistant HT22 quick-change toolholder > Clear pre-selection of constant milling pattern quality > Innovative efficiency indicator > New HT22 PLUS toolholder upper part with increased > New DUAL SHIFT powershift transmission service life W WIRTGEN Cost-Effectiveness Performance 9 | REDUCED DIESEL CONSUMPTION > 2-speed powershift transmission for a wide **MAXIMUM MILLING PERFORMANCE** range of usable milling drum speeds > Powerful diesel engine > Automatic stop feature for the diesel engine > Increased ballasting flexibility > Maximum performance in the low speed > Large scraper lift with high setting depth range > Flexible and powerful loading of milled material > Automatic start-stop feature of the milling > ACTIVE CONVEYOR for swinging the discharge drum conveyor relative to the steering angle > Dual fan concept for optimum cooling 8 INFORMATIVE WPT - WIRTGEN **ENVIRONMENTALLY FRIENDLY** PERFORMANCE TRACKER **MACHINE TECHNOLOGY** > Field-tested WITOS FleetView telematics system > Maximum exhaust gas purification for low > Optional additional equipment WPT for clear exhaust emissions documentation of milling performance > Reduced noise emissions during relocation > Automatically generated measurement reports > Optimized VCS extraction system > Job site tracking via satellite map display > Start-stop engine function via external control > Documentation of consumables to calculate operating panel

> Efficient water management

costs

## **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 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.

## **Operation**

# **Exceptional Comfort on the Operator's Platform**

#### **EXCELLENT 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 7.9 in (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 220 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

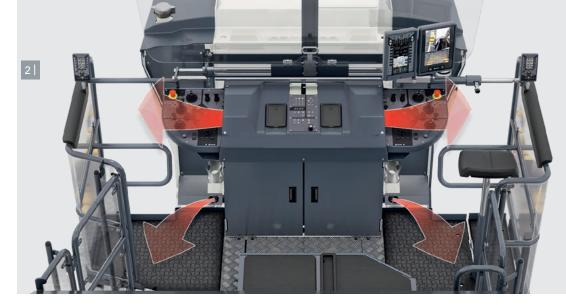
panel lighting, lighting for the milling drum assembly including auxiliary working lights for tool changes, and optional LED lighting balloons. This guarantees optimum machine illumination, even in difficult lighting conditions.

#### **GENEROUSLY SIZED STORAGE SPACE**

The W 220 Fi offers plenty of storage space for leveling sensors, pick ejectors, and tool buckets. The 428-gallon (1,620-liter), additional and optional XXL storage compartment at the rear of the machine can hold up to 72 pick buckets, while another 70-gallon (265-liter) storage compartment on the operator's platform can also be used as an option.



- 1 Ergonomically designed operator's platform.
- 2 Optimum heating for the operator's hands and feet.
- 3 | Individually, vertically heightadjustable weather canopy.
- 4 | Weather canopy in transport position.









## 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 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.

## **Operation**

## Intuitive MMI – Man Machine Interface

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

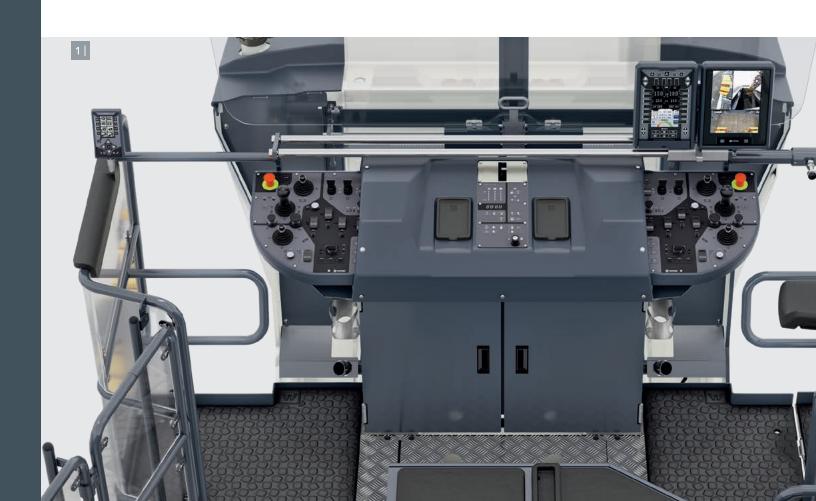
In addition, up to two 2" control panels can be added to the operator's platform. In this context, the position of the panel on the left and right external railings of the operator's platform makes operation easier and more effective. It can be programmed with up to 21 individually selected functions,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

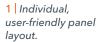
#### 5" CONTROL PANELS FOR LEVELING

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.

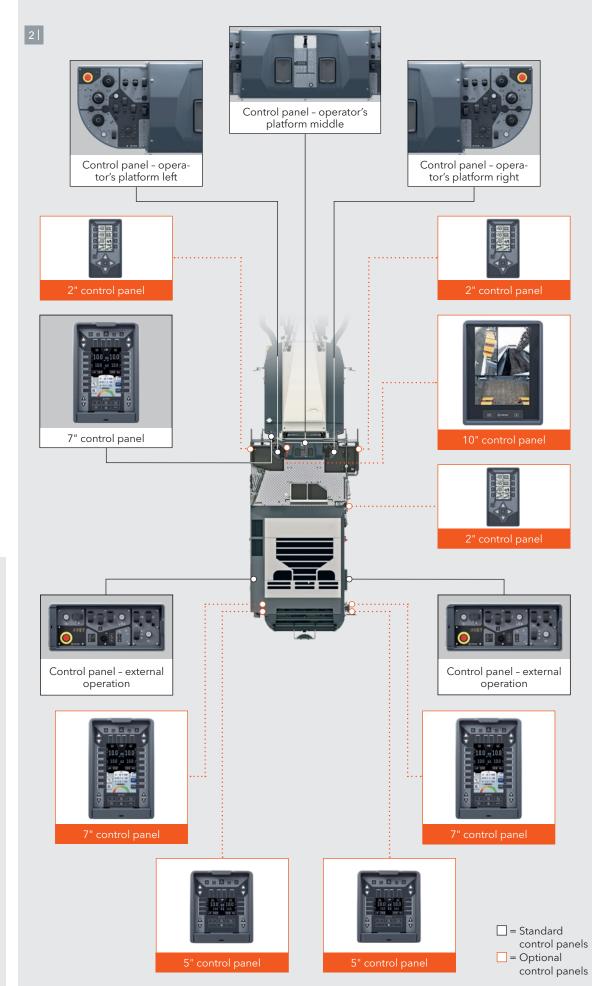
## 7" CONTROL PANELS CONVENIENTLY DISPLAY IMPORTANT INFORMATION

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.





2 Overview of the different control panels and their positions.





## **Operation**

# 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.



- 1 | 10" control panel with split screen to simultaneously display several camera images.
- 2 Optional 5" control panel to display leveling information to ground crews.
- 3 Various camera systems to provide a clear view of important areas.





#### 3| Two-camera system:

Camera for rear area/camera for loading situation

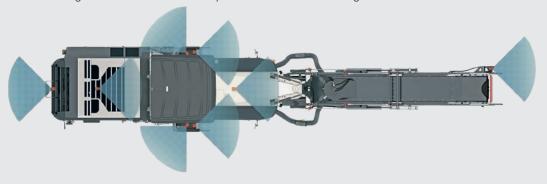


#### Four-camera system:

Two-camera system plus additional cameras on the right and left sides of the machine facing forwards



**Eight-camera system:** Four-camera system plus additional cameras on the right and left sides of the machine facing the rear/camera at the scraper/camera in front of milling drum



## Quality

# 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

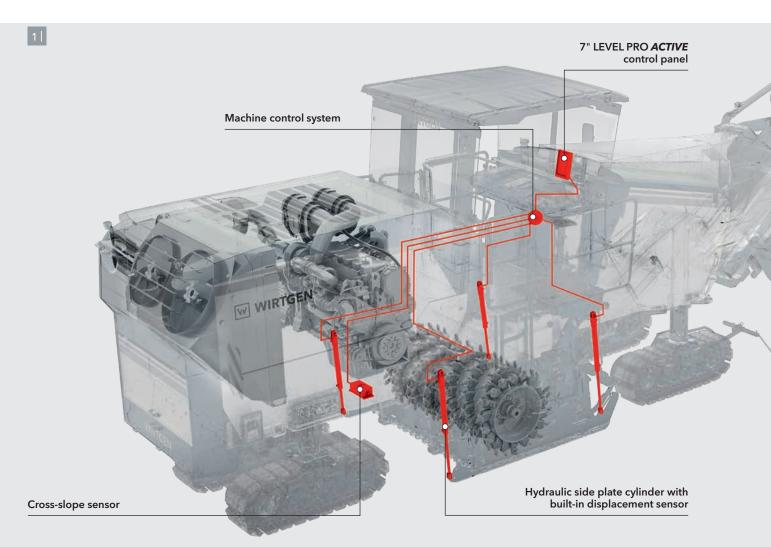
can be selected on the control panel. This also speeds up work processes. This means the entire machine can be lifted quickly and easily to drive over a manhole cover, for example.

#### **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 string line or a reference surface on both sides at a distance of up to 6 ft 3 in (1,900 mm) from the milling edge possible. In this context, the boom can be adjusted hydraulically from the operator's platform



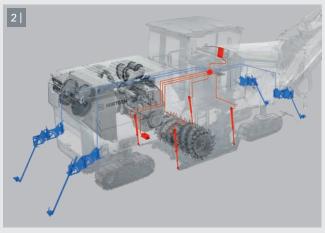
by up to 2 ft 9 in (840 mm) to the outside using the Sonic-Ski sensor during milling operation; and a mechanical adjustment offers an additional 2 ft 11 in (880 mm) of telescopic travel.

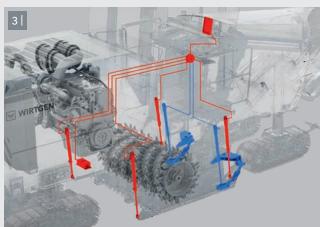
#### **OPTIMIZED MULTIPLEX SYSTEM**

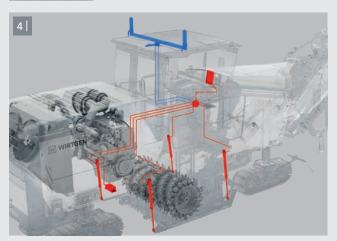
The multiplex system consists of two ultrasonic sensors attached to flexibly adjustable swing legs on each side of the machine. Benefits of the system include the large adjustment range for a wide variety of leveling applications and the low weight of the individual units. The swing legs can be easily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

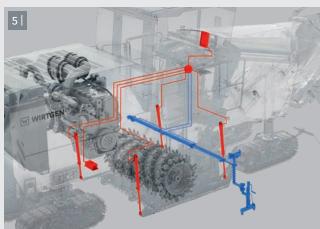


- 1 | W 220 Fi with standard leveling sensors.
- 2 | Multiplex system with up to four ultrasonic sensors.
- 3 | Scanning in front of the milling drum.
- 4 3D leveling/ laser leveling.
- 5 Telescoping leveling boom.









## Quality

## **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.

#### 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.



- 1 | Images are directly forwarded from the error message to the diagnostics with clear localization.
- 2 | Easy access to the service points, shown here on the W 220 Fi.
- 3 | Secure and fast protection of control panels.







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

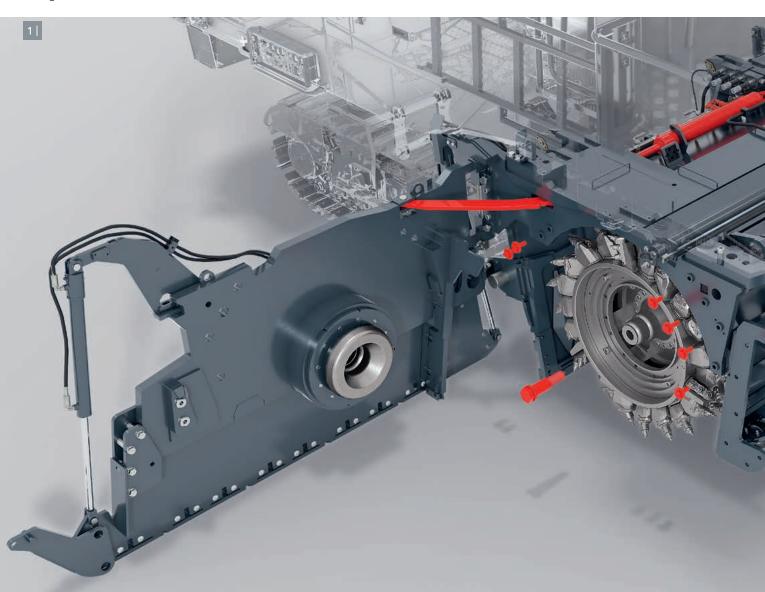
# Milling One-Of-A-Kind Cutting Technology

## 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.

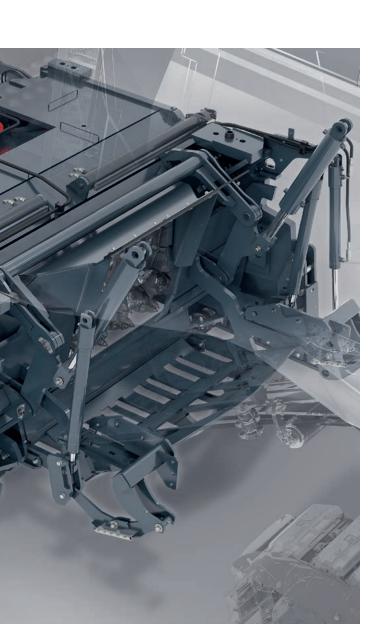
This simplified process has many advantages: Rapidly changing milling drums with different tool spacings to meet specific application requirements increases machine productivity. Changing the milling drum at short notice and using the ideal drum for the job reduces wear costs. In addition, this systems guarantees maximum flexibility for the ever-changing requirements during day-to-day operations.

- 1 | Milling drum changes are now even faster with the new MCS BASIC milling drum system.
- 2 | Large selection of different MCS milling drums.



#### SIMPLE MILLING DRUM ASSEMBLY CHANGES

The new quick-change milling drum assembly allows different milling widths of 7 ft 3 in (2.2 m), 8 ft 2 in (2.5 m), 11 ft 6 in (3.5 m), or 12 ft 6 in (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.





## ECO Cutter Milling width: Milling depth: Tool spacing:

7 ft 3 in (2,200 mm) 0 - 14 in (0 - 350 mm) 1 in (25 mm)

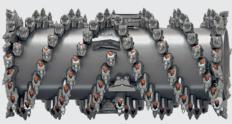


#### Standard Milling Drum

Milling width: 7 ft 3 in (2,200 mm)

Milling depth: 0 - 14 in (0 - 350 mm)

Tool spacing: 0.7 in (18 mm)



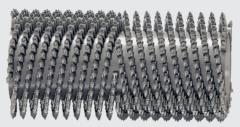
#### Standard Milling Drum

Milling width: 7 ft 3 in (2,200 mm)
Milling depth: 0 - 14 in (0 - 350 mm)
Tool spacing: 0.6 in (15 mm)



#### Fine Milling Drum

Milling width: 7 ft 3 in (2,200 mm)
Milling depth: 0 - 3.9 in (0 - 100 mm)
Tool spacing: 0.3 in (8 mm)



#### Micro-Fine Milling Drum

 $\begin{array}{ll} \mbox{Milling width:} & 7 \mbox{ ft 3 in (2,200 mm)} \\ \mbox{Milling depth:} & 0 - 1.2 \mbox{ in (0 - 30 mm)} \\ \mbox{Tool spacing:} & 6 \times 0.1 \mbox{ in (6 \times 2 mm)} \\ \end{array}$ 

# Milling One-Of-A-Kind Cutting Technology

## OPTIMIZED PROTECTION AGAINST MILLING DRUM ASSEMBLY WEAR

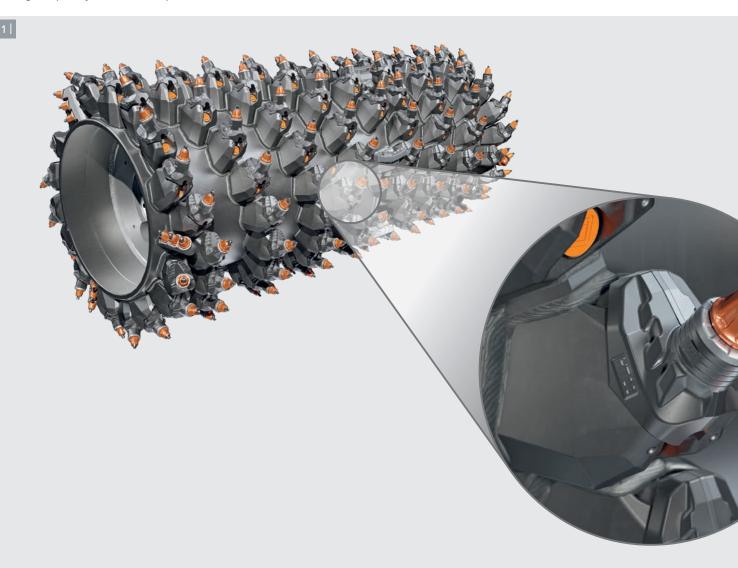
The side plates are equipped with extremely wear-resistant protective skids on both sides. Additional optional rollers attached to the side plates prevent scratches on the asphalt. In addition, the material depressor on rollers gently glides over the surface.

## EXTREMELY WEAR-RESISTANT HT22 QUICK-CHANGE TOOLHOLDER SYSTEM

The milling drums of the W 220 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.

## NEW HT22 **PLUS** TOOLHOLDER UPPER PART WITH INCREASED SERVICE LIFE

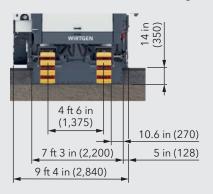
The new **HT22 PLUS** quick-change toolholder upper part features innovative centering marks on the tool contact surface. In combination with the new X² generation of picks, this reduces toolholder wear by up to 25% and also optimizes the rotation behavior of the picks. The new upper part offers considerable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



1 Extremely wear-resistant HT22 quick-change toolholder system.

2 | 7 ft 3 in (2.2 m), 8 ft 2 in (2.5 m), 11 ft 6 in (3.5 m), and 12 ft 6 in (3.8 m) milling drum assemblies.

#### W 220 Fi with 7 ft 3 in (2.2 m) milling drum assembly

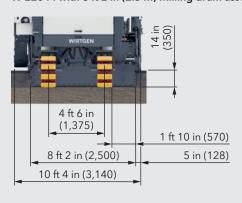




Standard Milling Drum

Milling width: 7 ft 3 in (2,200 mm)
Milling depth: 0 - 14 in (0 - 350 mm)
Tool spacing: 0.6 in (15 mm)

#### W 220 Fi with 8 ft 2 in (2.5 m) milling drum assembly

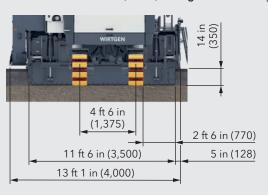




Standard Milling Drum

Milling width: 8 ft 2 in (2,500 mm)
Milling depth: 0 - 14 in (0 - 350 mm)
Tool spacing: 0.6 in (15 mm)

#### W 220 Fi with 11 ft 6 in (3.5 m) milling drum assembly

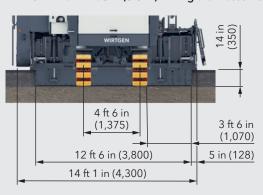




Standard Milling Drum

Milling width: 11 ft 6 in (3,500 mm)
Milling depth: 0 - 14 in (0 - 350 mm)
Tool spacing: 0.6 in (15 mm)

#### W 220 Fi with 12 ft 6 in (3.8 m) milling drum assembly





Standard Milling Drum

Milling width: 12 ft 6 in (3,800 mm)
Milling depth: 0 - 14 in (0 - 350 mm)
Tool spacing: 0.6 in (15 mm)



## Milling

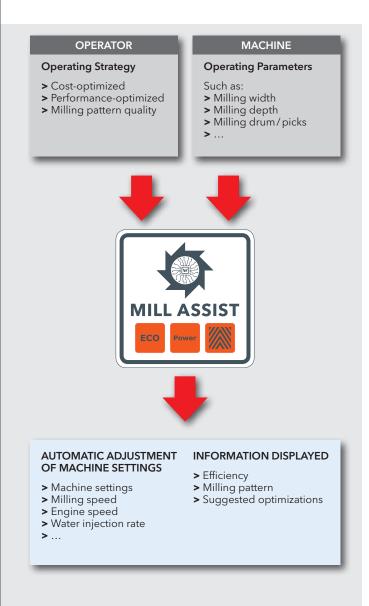
## Innovative MILL ASSIST

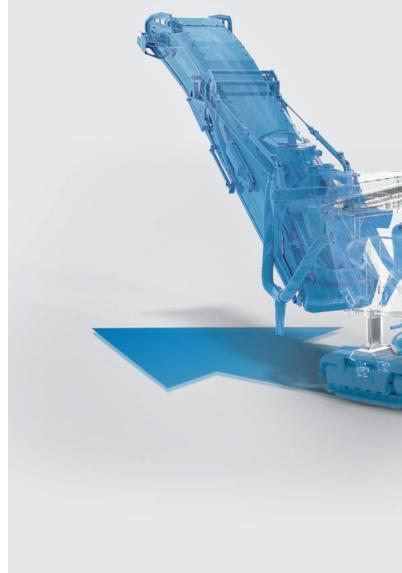
#### MILL ASSIST AUTOMATIC MODE

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 engine 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<sub>2</sub> emissions, and noise.

## 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: "cost-optimized," "performance-optimized," or "milling pattern quality." The machine then automatically adjusts the main parameters based on the selected operating strategy.





## CLEAR PRE-SELECTION OF CONSTANT MILLING PATTERN QUALITY

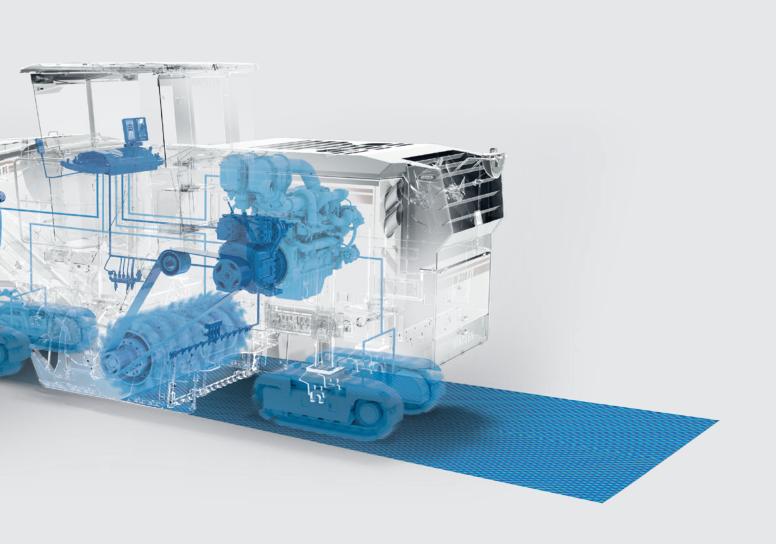
The operator can preset the required milling pattern quality by simply pre-selecting from a scale from 1 to 10. This then automatically sets the milling drum rotation speed and the milling speed, taking the milling drum type into account.

#### 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.

#### **NEW DUAL SHIFT POWERSHIFT TRANSMISSION**

The new two-speed **DUAL SHIFT** selector gearbox controlled via **MILL ASSIST** can also be shifted under load. **DUAL SHIFT** offers an extremely wide range of milling drum speeds and makes the machine perfect for a wide range of cost-effective milling applications. Low milling drum speeds reduce diesel consumption. High milling drum speeds make it possible to achieve maximum milling speeds during fine milling, for example.



## **Performance**

## **Maximum Milling Performance**

#### **POWERFUL DIESEL ENGINE**

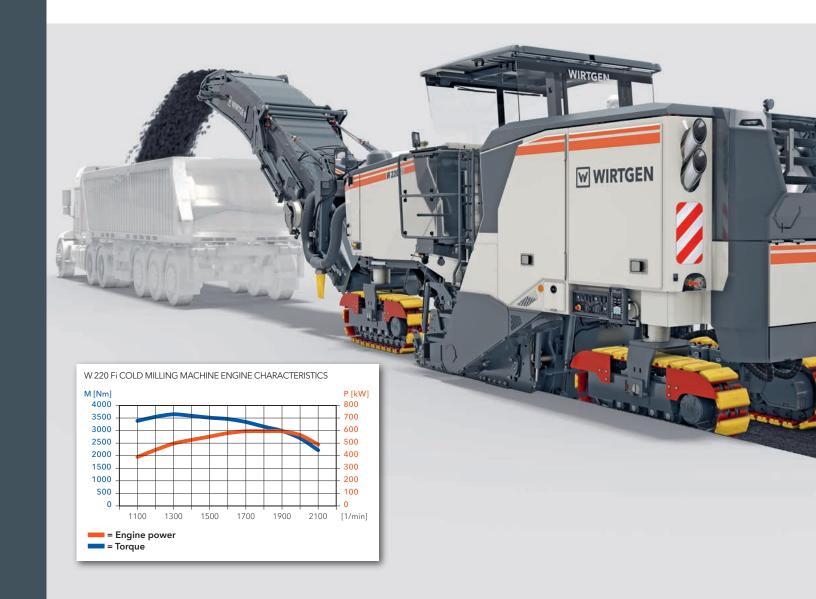
The engine's enormous power combined with its high maximum torque makes the machine even more powerful and versatile.

#### INCREASED BALLASTING FLEXIBILITY

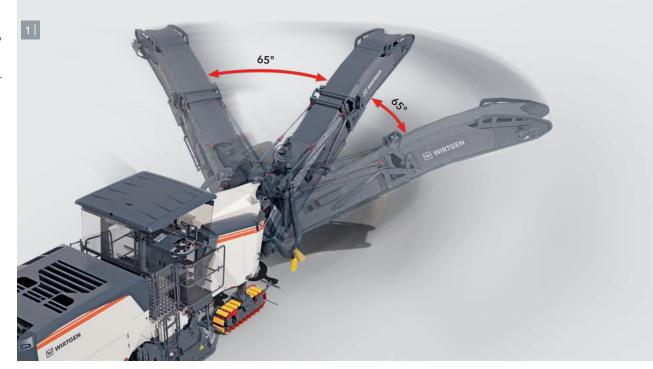
The additional weights weighing 3,307 lbs (1,500 kg) can be quickly and easily installed or removed from the rear of the machine in two increments. This allows the desired machine transport weight to be adjusted even more precisely.

#### 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 1 ft (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.



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







## 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.

## **Performance**

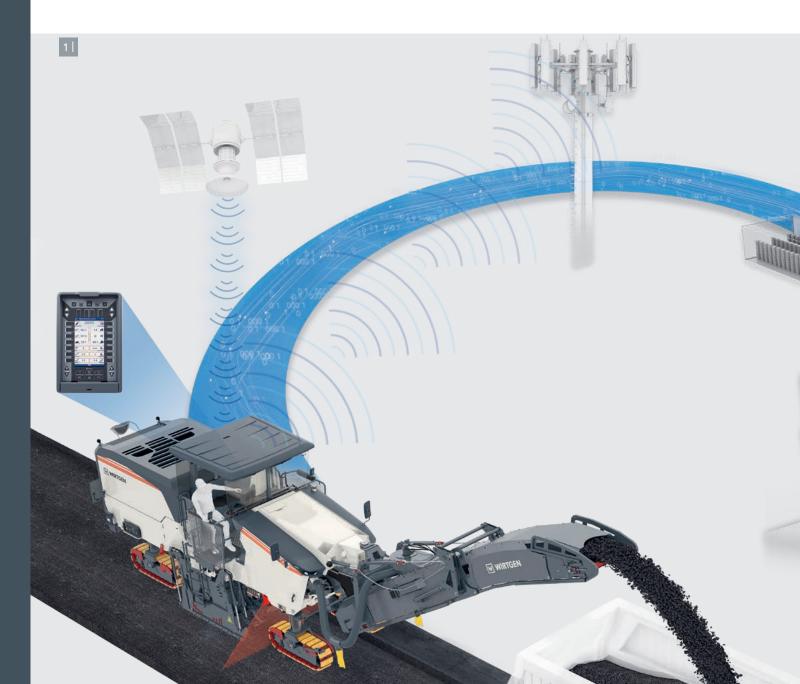
## WPT - The Informative WIRTGEN Performance tracker

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

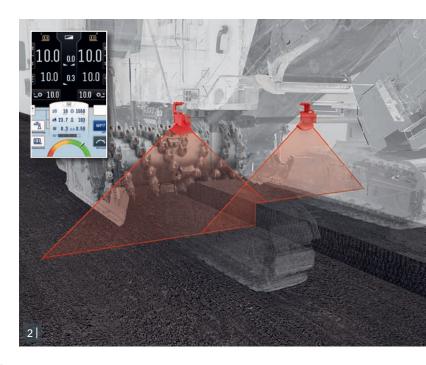
## OPTIONAL ADDITIONAL EQUIPMENT WPT FOR CLEAR DOCUMENTATION OF MILLING PERFORMANCE

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

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 DISPLAY

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.



- 1 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.
- 2 The actual, currently active milling width is scanned by a laser scanner and clearly displayed on the operating panel.

## **Cost-Effectiveness**

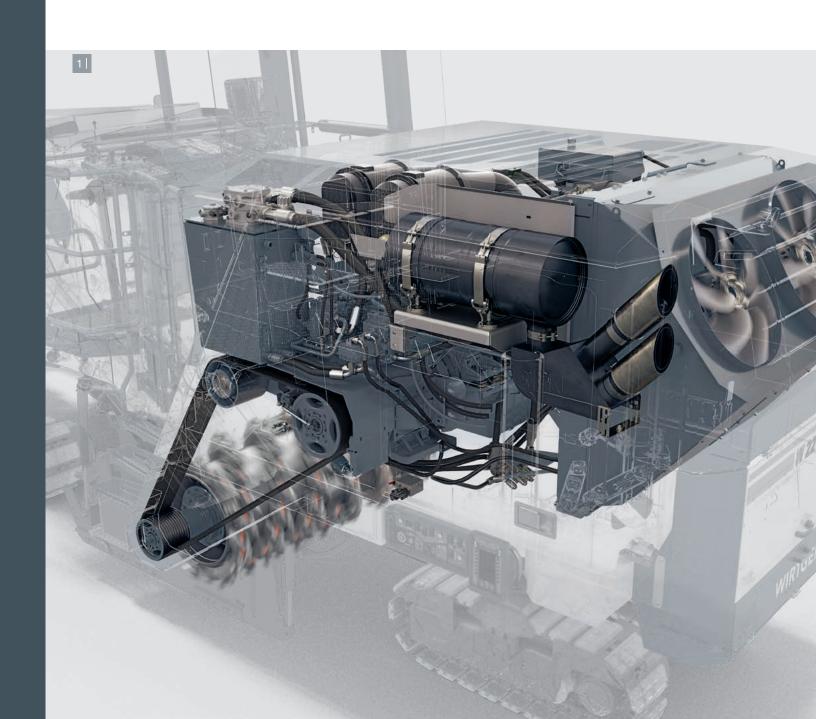
## **Reduced Diesel Consumption**

## TWO-SPEED POWERSHIFT TRANSMISSION FOR A WIDE RANGE OF USABLE MILLING DRUM SPEEDS

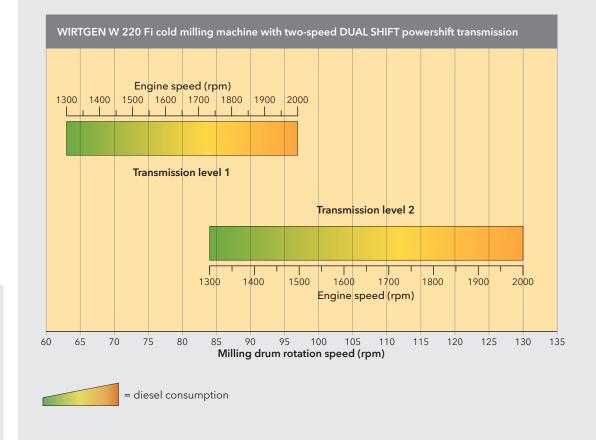
The new two-speed **DUAL SHIFT** powershift transmission makes it possible to operate the machine at efficient engine speeds while maintaining powerful milling drum speeds. **DUAL SHIFT** offers the unbeatable advantages of low diesel consumption, reduced noise emissions, and unmatched milling performance.

#### **AUTOMATIC STOP FEATURE FOR THE DIESEL ENGINE**

The diesel engine is 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.



- 1 Compact engine drive station, shown here on the W 220 Fi.
- 2 | Significantly expanded range of milling drum speeds for reduced diesel consumption and tool wear, shown here for the W 220 Fi.



## MAXIMUM PERFORMANCE IN THE LOW SPEED RANGE

The built-in **MILL ASSIST** machine control system ensures that the diesel engine of the W 220 Fi primarily runs at lower speeds while simultaneously delivering high performance and low diesel consumption.

## AUTOMATIC START-STOP FEATURE OF THE MILLING DRUM

The start-stop feature temporarily switches off the milling drum after a few seconds when the milling operation has stopped, like when waiting for a truck, further reducing diesel consumption. The milling drum is then automatically switched on again when milling is resumed.

#### INTELLIGENT DUAL FAN CONCEPT

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



### **Cost-Effectiveness**

# **Environmentally Friendly Machine Technology**

Minimizing exhaust fumes, noise, and dust on road construction sites while maintaining maximum performance and productivity is more important than ever. Innovative WIRTGEN technologies play an extremely active role in protecting the environment and conserving natural resources.

Speed ranges that optimize consumption during milling operation, engine speeds that adapt to the advance rate, and engine temperature-controlled fan speeds all help to protect the environment and conserve resources. In addition, the milled material is a valuable recycled construction material and is completely reused in the production of asphalt mixes.

## MAXIMUM EXHAUST GAS PURIFICATION FOR LOW EXHAUST EMISSIONS

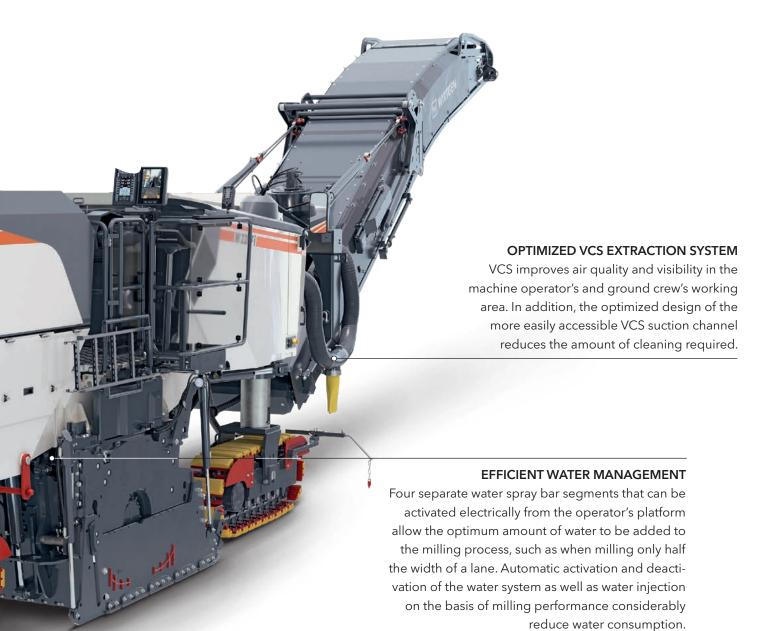
The state-of-the-art, fuel-efficient diesel engine of the W 220 Fi offers maximum engine power with

exceptionally high torque. In this context, the engine technology used in the W 220 Fi meets the requirements of highest US EPA Tier 4f emissions standard for minimum exhaust emissions.



## REDUCED NOISE EMISSIONS DURING RELOCATION

The cold milling machine has a travel speed of up to 288.7 ft/min (88 m/min). At the same time, only low engine speeds are required - with reduced diesel consumption and lower noise emissions.



#### START-STOP ENGINE FUNCTION VIA EXTERNAL CONTROL PANEL

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

## **Technical Specifications**

W 220 Fi

Milling drum	
Milling width	7 ft 3 in (2,200 mm)
Milling depth *1	0-14 in (0-350 mm)
Cutting diameter	3 ft 9 in (1,140 mm)
Engine	
Manufacturer	Caterpillar
Туре	C18 ATAAC
Cooling	Water
Number of cylinders	6
Rated power	at 1,950 rpm 597 kW/801 hp/812 PS
Maximum power	at 1,700 rpm 597 kW/801 hp/812 PS
Displacement	4.8 gal (18.1 l)
Fuel consumption at rated power   during a mixture of job site operations	39.6 gal/h   15.9 gal/h (150 l/h   60 l/h)
Emissions standard	US EPA Tier 4f
Electrical system	
Power supply	24 V
Tank capacities	
Fuel tank	343.4 gal (1,300 l)
Hydraulic oil tank	31.7 gal (120 l)
Water	1,096.3 gal (4,150 l)
Driving performance	
Max. travel and milling speed	0-288.7 ft/min (3.3 mph) (0-88 m/min (5.3 km/h))
Crawler units	
Crawler units front/back (L x W x H)	6 ft 7 in x 15 in x 2 ft 6 in (2,000 x 370 x 750 mm)
Loading of milled material	
Belt width of primary conveyor	3 ft 7 in (1,100 mm)
Belt width of discharge conveyor	3 ft 3 in (1,000 mm)
Theoretical capacity of discharge conveyor	722 yd³/h (552 m³/h)

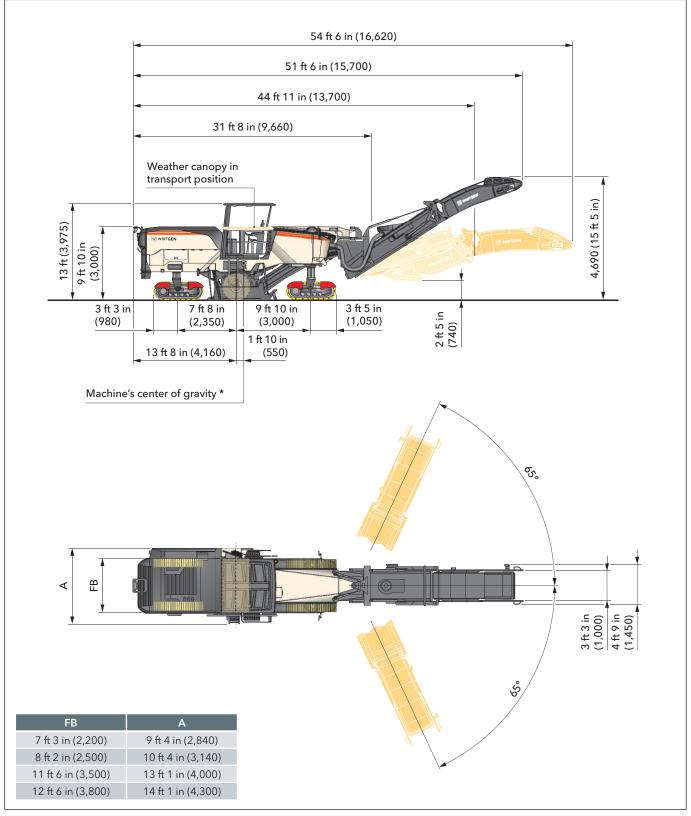
 $<sup>^{\</sup>star 1}$  = The maximum milling depth may deviate from the value indicated due to tolerances and wear.

Base machine weight	
Empty weight of machine without fluids	75,839 lbs (34,400 kg)
Operating weight, CE*2	81,792 lbs (37,100 kg)
Maximum operating weight (full tanks, full range of equipment) in FB2200	96,783 lbs (43,900 kg)
Weight of tank contents	
Water	9,149 lbs (4,150 kg)
Fuel (6.9 lbs/gal (0.83 kg/l))	2,381 lbs (1,080 kg)
Additional weight	
Operator and tools	
Machine operator	165 lbs (75 kg)
5 pick containers	276 lbs (125 kg)
Vehicle tool kit	66 lbs (30 kg)
Optional milling drum units instead of standard	
Milling drum assembly <b>MCS <i>BASIC</i></b> FB2200	1,433 lbs (650 kg)
Milling drum assembly <b>MCS <i>BASIC</i></b> FB2500	3,638 lbs (1,650 kg)
Milling drum assembly <b>MCS EXTEND</b> FB3500	7,716 lbs (3,500 kg)
Milling drum assembly <b>MCS EXTEND</b> FB3800	9,921 lbs (4,500 kg)
Optional milling drums instead of standard	
Milling drum FB2200 <b>HT22</b> LA18 with 156 picks	-463 lbs (-210 kg)
Optional MCS milling drums instead of standard	
Milling drum <b>MCS <i>BASIC</i></b> FB2200 <b>HT22</b> LA15 with 182 picks	221 lbs (100 kg)
Milling drum <b>MCS <i>BASIC</i></b> FB2200 <b>HT22</b> LA18 with 156 picks	-243 lbs (-110 kg)
Milling drum <b>MCS <i>BASIC</i></b> FB2200 <b>HT22</b> LA15 with 18 standard picks and 180 PKD cutting tools	331 lbs (150 kg)
Milling drum <b>MCS <i>BASIC</i></b> FB2500 <b>HT22</b> LA15 with 196 picks	860 lbs (390 kg)
Milling drum MCS EXTEND FB3500 HT22 LA15, multi-part with 294 picks	4,453 lbs (2,020 kg)
Milling drum MCS EXTEND FB3800 HT22 LA15, multi-part with 314 picks	5,401 lbs (2,450 kg)
Optional additional equipment	
Operator's platform with functional standing seat and large storage compartment	176 lbs (80 kg)
Operator's platform with functional standing seat, large storage compartment, and weather canopy	1,323 lbs (600 kg)
Operator's platform with high-quality comfort cabin	1,874 lbs (850 kg)
Two additional weights with a total weight of 3,307 lbs (1,500 kg)	3,307 lbs (1,500 kg)
Large storage compartment at the rear of the machine for 72 pick buckets	441 lbs (200 kg)
Extension of <b>MCS <i>BASIC</i></b> with one hydraulically opening side panel for FB2200/FB2500	110 lbs (50 kg)
VCS extraction system	309 lbs (140 kg)
Extension of <b>LEVEL PRO <i>ACTIVE</i></b> with leveling booms and a Sonic-Ski sensor	176 lbs (80 kg)
Extension of LEVEL PRO ACTIVE with two ultrasonic sensors for multiplex scanning	88 lbs (40 kg)
Extension of <b>LEVEL PRO <i>ACTIVE</i></b> with four ultrasonic sensors for multiplex scanning	176 lbs (80 kg)

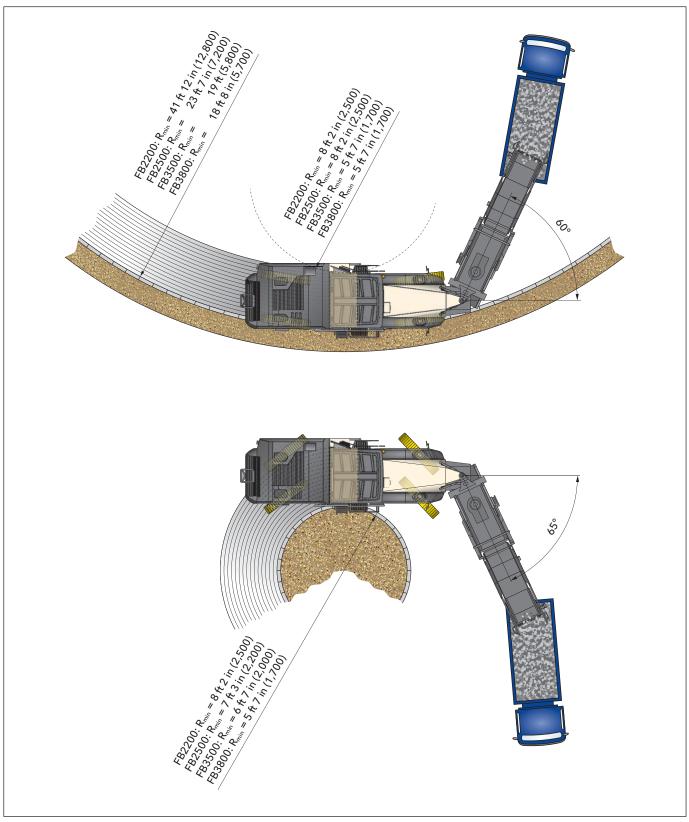
 $<sup>\</sup>star^2$  = Machine weight, half-full tanks, vehicle tool kits, machine operator, excluding optional equipment

## **Dimensions**

## W 220 Fi



Dimensions in American standard and mm \* Based on operating weight, CE with conveyor folded out



Milling radius at milling depth of 5.9 in (150 mm), dimensions in American standard and mm

## **Standard Equipment**

## W 220 Fi

Basic machine	
Basic machine with engine	
Machine frame featuring a single wasp waist at the rear right, and a dual wasp waist at the front	
<b>DUAL SHIFT</b> two-speed powershift transmission for efficient engine speeds combined with powerful milling drum speeds	
Automatic pressure adjustment of the cylinder pump in accordance with performance requirements for reduced diesel consump	tion
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 feature to reduce chunk formation	
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 during pick replaceme	ent
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 7.9 in (200 mm) to facilitate pick replacement and the exchange of milling drum unit	ts
Pre-fitting to allow the quick exchange of milling drum units	
Hydraulically lifting side plates, clearance right 18 in (450 mm), clearance left 13 in (330 mm)	
Milling drum housing FB2200 (7 ft 3 in)	
Milling drums	
Milling drum FB2200 (7 ft 3 in) <b>HT22</b> LA15 with 188 picks	
Loading of the milled material	
Increased conveyor slewing 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 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, 26 ft 9 in (8,150 mm) long, 3 ft 3 in (1,000 mm) wide	
Machine control and leveling system	
User-friendly control panel including 7" color screen	
<b>LEVEL PRO ACTIVE</b> leveling system with numerous automated and complementary features relieving the operator of a part of his workload	
LEVEL PRO ACTIVE - automatic height control in transport mode	
automatic height control in transport mode	

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

Machine control and leveling system	
RAPID SLOPE cross-slope sensor for <b>LEVEL PRO <i>ACTIVE</i></b> 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	
Automatic start-stop feature of the milling drum to reduce diesel consumption	
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	
Operator's platform	
Convenient access to the operator's platform, right and left	
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 288.7 ft / min (88 m/min) at low engine speeds (1,350 rpm), reduced diesel consumption and low noise emissions	
Miscellaneous	
"Welcome" and "Go home" lights 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, 261 psi (18 bar), 17 gal/min (67 l/min)	
Good accessibility to all maintenance points on the engine station	
Pneumatic hammer with pick extractor/inserter	
Comprehensive toolkit in lockable toolbox	
A total of six EMERGENCY STOP switches in appropriate positions on the machine	
Pre-fitting for installing the WITOS FleetView control unit	
European design type certification, EuroTest mark and CE conformity	
Water tank filling from rear of machine	
Standard painting in RAL 9001 (cream)	
WITOS FleetView - professional telematics solution for machine operation and service optimization	
Standard LED lighting system with 19,700 lumens	
- Standard aguinment	

 <sup>■ =</sup> Standard equipment
 □ = Standard equipment, can be replaced with optional equipment if desired
 □ = Optional equipment

## **Optional Equipment**

## W 220 Fi

Milling drum unit	
Milling drum housing MCS BASIC FB2200 (7 ft 3 in)	П
Milling drum housing MCS BASIC FB2500 (8 ft 2 in)	
Milling drum housing MCS EXTEND FB3500 (11 ft 6 in)	
Milling drum housing MCS EXTEND FB3800 (12 ft 6 in)	
Extension of <b>MCS BASIC</b> with a hydraulically opening side door for FB2200/FB2500 (7 ft 3 in / 8 ft 2 in)	
Electrically switchable sectional water spray bar for FB2200 (7 ft 3 in)	
Electrically switchable sectional water spray bar for FB2500 (8 ft 2 in)	
Electrically switchable sectional water spray bar for FB3500/3800 (11 ft 6 in / 12 ft 6 in)	
Wear protection rollers for side plates	
Transport carriage for milling drum units from FB2200 (7 ft 3 in) to FB4400 (14 ft 5 in)	
Milling drum mounting and transport carriage FB1500 (4 ft 11 in) to FB2500 (8 ft 2 in)	
Transport roller set for simplified milling drum unit change (FB1500 - FB3800)	
Quick-change milling drum assembly FB2200 (7 ft 3 in) MCS BASIC	
Quick-change milling drum unit FB2500 (8 ft 2 in) MCS BASIC	
Quick-change milling drum unit FB3800 (12 ft 6 in) MCS EXTEND	
Milling drums	
Milling drum FB2200 (7 ft 3 in) <b>HT22</b> LA18 with 156 picks	
Milling drum MCS BASIC FB2200 (7 ft 3 in) HT22 LA15 with 182 picks	
Milling drum MCS BASIC FB2200 (7 ft 3 in) HT22 LA18 with 156 picks	
Milling drum MCS BASIC FB2500 (8 ft 2 in) HT22 LA15 with 196 picks	
Milling drum MCS EXTEND FB3500 (11ft 6 in) HT22 LA15, multi-part, with 294 picks	
Milling drum MCS EXTEND FB3800 (12 ft 6 in) HT22 LA15 MCS milling drum, multi-part, with 314 picks	
Milling drum MCS BASIC FB2200 (7 ft 3 in) HT22 LA8 with 297 picks	
Milling drum MCS BASIC FB2200 (7 ft 3 in) HT22 LA25 with 121 picks	
Milling drum MCS BASIC FB2200 (7 ft 3 in) HT5 LA6X2 with 740 picks	
Milling drum MCS BASIC FB2200 (7 ft 3 in) HT22 LA8 with 18 standard picks and 298 PCD tools	
Milling drum MCS BASIC FB2200 (7 ft 3 in) HT22 LA15 with 18 standard picks and 180 PCD tools	
Milling drum MCS BASIC FB2500 (8 ft 2 in) HT5 LA6X2 with 840 picks	
Milling drum MCS BASIC FB2500 (8 ft 2 in) HT22 LA8 with 335 picks	
Milling drum MCS BASIC FB2500 (8 ft 2 in) HT22 LA25 with 148 picks	
Loading of the milled material	
Discharge conveyor, 26 ft 9 in (8,150 mm) long, 3 ft 3 in (1,000 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 to the truck driver	
ACTIVE CONVEYOR slewing angle control for discharge conveyor	
Support device for discharge conveyor	
Machine control and leveling system	
Actual milling depth measurement and display on the <b>LEVEL PRO ACTIVE</b> 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	
2" control panel including "Favourites" keys	
Two 2" control panels including "Favourites" keys	
User-specific storage of machine settings via SMART KEY fob	

= Standard equipment

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

Machine control and leveling system	
Extension of <b>LEVEL PRO <i>ACTIVE</i></b> with leveling booms and one Sonic Ski sensor	
Extension of LEVEL PRO ACTIVE with one hydraulic sensor mounted on the right	
Extension of <b>LEVEL PRO <i>ACTIVE</i></b> with two hydraulic sensors mounted on the right and left	
Extension of LEVEL PRO ACTIVE with two ultrasonic sensors for multiplex scanning	
Extension of LEVEL PRO ACTIVE with four ultrasonic sensors for multiplex scanning	
Extension of <b>LEVEL PRO <i>ACTIVE</i></b> with two ultrasonic sensors for multiplex scanning (FB3500/FB3800) (11 ft 6 in / 12 ft 6 in)	
Extension of <b>LEVEL PRO <i>ACTIVE</i></b> with four ultrasonic sensors for multiplex scanning (FB3500/FB3800) (11 ft 6 in / 12 ft 6 in)	
Extension of LEVEL PRO ACTIVE with pre-fitting for 3D leveling for machines without canopy	
Extension of LEVEL PRO ACTIVE with pre-fitting for 3D leveling for machines with canopy	
Extension of <b>LEVEL PRO ACTIVE</b> with pre-fitting for 3D leveling for machines with cabin	
Extension of LEVEL PRO ACTIVE with two laser receivers	
Operator's platform	
Operator's platform with functional stand-up seat, large storage compartment	
Operator's platform with functional stand-up seat, a large storage compartment and weather protection canopy	
Operator's platform with a high-quality comfort cabin	
Warm air heating close to the operator's hands and feet	
Additional stand-up seat for operator's platform	
2-fold camera system	
4-fold camera system with 10" control panel	
8-fold camera system with 10" control panel	
Miscellaneous	
Miscellaneous  Hydraulically operated filling pump for water refilling	
Miscellaneous  Hydraulically operated filling pump for water refilling  Standard film coating in RAL 9001 (cream)	
Miscellaneous  Hydraulically operated filling pump for water refilling  Standard film coating in RAL 9001 (cream)  Painting in one special color (RAL)	
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Miscellaneous  Hydraulically operated filling pump for water refilling  Standard film coating in RAL 9001 (cream)  Painting in one special color (RAL)  Film coating according to the customer's wishes  Model without WITOS FleetView	
Miscellaneous  Hydraulically operated filling pump for water refilling  Standard film coating in RAL 9001 (cream)  Painting in one special color (RAL)  Film coating according to the customer's wishes  Model without WITOS FleetView  WIRTGEN PERFORMANCE TRACKER including WITOS FleetView - precise tracking of the milling performance	
Miscellaneous  Hydraulically operated filling pump for water refilling  Standard film coating in RAL 9001 (cream)  Painting in one special color (RAL)  Film coating according to the customer's wishes  Model without WITOS FleetView  WIRTGEN PERFORMANCE TRACKER including WITOS FleetView - precise tracking of the milling performance  Extended LED lighting system with 43,600 lumens	
Hydraulically operated filling pump for water refilling  Standard film coating in RAL 9001 (cream)  Painting in one special color (RAL)  Film coating according to the customer's wishes  Model without WITOS FleetView  WIRTGEN PERFORMANCE TRACKER including WITOS FleetView - precise tracking of the milling performance  Extended LED lighting system with 43,600 lumens  High-performance LED lighting system with 93,000 lumens, including LED lighting balloon	
Hydraulically operated filling pump for water refilling  Standard film coating in RAL 9001 (cream)  Painting in one special color (RAL)  Film coating according to the customer's wishes  Model without WITOS FleetView  WIRTGEN PERFORMANCE TRACKER including WITOS FleetView - precise tracking of the milling performance  Extended LED lighting system with 43,600 lumens  High-performance LED lighting system with 93,000 lumens, including LED lighting balloon  Two-piece additional weight totaling 3,307 lbs (1,500 kg)	
Hydraulically operated filling pump for water refilling  Standard film coating in RAL 9001 (cream)  Painting in one special color (RAL)  Film coating according to the customer's wishes  Model without WITOS FleetView  WIRTGEN PERFORMANCE TRACKER including WITOS FleetView - precise tracking of the milling performance  Extended LED lighting system with 43,600 lumens  High-performance LED lighting system with 93,000 lumens, including LED lighting balloon  Two-piece additional weight totaling 3,307 lbs (1,500 kg)  Large storage compartment at the rear of the machine for 72 pick containers	
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Miscellaneous  Hydraulically operated filling pump for water refilling  Standard film coating in RAL 9001 (cream)  Painting in one special color (RAL)  Film coating according to the customer's wishes  Model without WITOS FleetView  WIRTGEN PERFORMANCE TRACKER including WITOS FleetView - precise tracking of the milling performance  Extended LED lighting system with 43,600 lumens  High-performance LED lighting system with 93,000 lumens, including LED lighting balloon  Two-piece additional weight totaling 3,307 lbs (1,500 kg)  Large storage compartment at the rear of the machine for 72 pick containers  Storage compartment close to the rear track units for 10 pick containers  Powerful high-pressure water cleaner, 2,175 psi (150 bar), 4 gal / min (15 l / min)	
Miscellaneous  Hydraulically operated filling pump for water refilling  Standard film coating in RAL 9001 (cream)  Painting in one special color (RAL)  Film coating according to the customer's wishes  Model without WITOS FleetView  WIRTGEN PERFORMANCE TRACKER including WITOS FleetView - precise tracking of the milling performance  Extended LED lighting system with 43,600 lumens  High-performance LED lighting system with 93,000 lumens, including LED lighting balloon  Two-piece additional weight totaling 3,307 lbs (1,500 kg)  Large storage compartment at the rear of the machine for 72 pick containers  Storage compartment close to the rear track units for 10 pick containers  Powerful high-pressure water cleaner, 2,175 psi (150 bar), 4 gal / min (15 l / min)  One hydraulic pick extractor	
Miscellaneous  Hydraulically operated filling pump for water refilling  Standard film coating in RAL 9001 (cream)  Painting in one special color (RAL)  Film coating according to the customer's wishes  Model without WITOS FleetView  WIRTGEN PERFORMANCE TRACKER including WITOS FleetView - precise tracking of the milling performance  Extended LED lighting system with 43,600 lumens  High-performance LED lighting system with 93,000 lumens, including LED lighting balloon  Two-piece additional weight totaling 3,307 lbs (1,500 kg)  Large storage compartment at the rear of the machine for 72 pick containers  Storage compartment close to the rear track units for 10 pick containers  Powerful high-pressure water cleaner, 2,175 psi (150 bar), 4 gal / min (15 l / min)  One hydraulic pick extractor	
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Miscellaneous  Hydraulically operated filling pump for water refilling  Standard film coating in RAL 9001 (cream)  Painting in one special color (RAL)  Film coating according to the customer's wishes  Model without WITOS FleetView  WIRTGEN PERFORMANCE TRACKER including WITOS FleetView - precise tracking of the milling performance  Extended LED lighting system with 43,600 lumens  High-performance LED lighting system with 93,000 lumens, including LED lighting balloon  Two-piece additional weight totaling 3,307 lbs (1,500 kg)  Large storage compartment at the rear of the machine for 72 pick containers  Storage compartment close to the rear track units for 10 pick containers  Powerful high-pressure water cleaner, 2,175 psi (150 bar), 4 gal / min (15 l / min)  One hydraulic pick extractor  Two hydraulic pick extractor  Dual starter system	

 <sup>■ =</sup> Standard equipment
 □ = Standard equipment, can be replaced with optional equipment if desired
 □ = Optional equipment



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