

Innovation and Sustainability for a Wide Range of Milling Jobs

COLD MILLING MACHINE

W 100 Fi | W 120 Fi | W 130 Fi



US RELEASE

INNOVATION AND SUSTAINABILITY FOR A WIDE RANGE OF MILLING JOBS

The front loader in the one-meter class is characterized by its outstanding performance and flexibility at working widths of 3 ft 3 in (1.0 m), 3 ft 11 in (1.2 m), or 4 ft 3 in (1.3 m).

Compact dimensions and optimized machine weight make it ideal for a wide range of applications - including on job sites with limited space, such as in urban areas.

The variety of tool spacings and working widths offered by FCS milling drums further expands the range of possible applications.

The cutting-edge **LEVEL PRO ACTIVE** leveling system, the intuitive operating concept, and additional digital assistance systems enable efficient handling and precise milling results with only one operator.

The innovative **MILL ASSIST** machine control system ideally combines sustainable and efficient machine operation with high productivity.



WIRTGEN COLD MILLING MACHINES

SMALL MILLING MACHINES

- > Milling width up to 4 ft 3 in (1,300 mm)
- > Milling depth to 12 in (300 mm)

COMPACT MILLING MACHINES

- > Milling width up to 6 ft 3 in (1,900 mm)
- > Milling depth to 12 in (300 mm)

LARGE MILLING MACHINES

- > Milling width up to 14 ft 5 in (4,400 mm)
- > Milling depth to 14 in (350 mm)

OVERVIEW OF HIGHLIGHTS

Perfectly Equipped

COMFORT AND VISIBILITY

01 Second-To-None Visibility

- > High-quality camera / monitor system with two or five cameras
- > Powerful complete LED lighting package
- > Operator's platform with lateral shift function for optimal vision along the zero side

02 Perfect Comfort and Ergonomics

- > Platform design with perfect ergonomics for a high level of operator comfort and well-being
- > State-of-the-art operator's cabin for highest levels of comfort and productivity (optional)
- > The large 5-inch control screen in the multi-functional armrest displays essential information
- > Ergonomic access with automatic height adaptation
- > External control panel with frequently used machine functions
- > Ample storage space
- > Smart vandalism protection concept for control units



ASSISTANCE AND LEVELING SYSTEMS

03 Precise Leveling with LEVEL PRO ACTIVE

- > Innovative **LEVEL PRO ACTIVE** leveling system
- > Optimized multiplex system
- > Optimized 3D and laser leveling
- > Leveling boom with Sonic Ski sensor on one or both sides
- > **Copy Slope Sensor** – active transverse leveling via front lifting columns

04 Informative WPT Milling - WIRTGEN GROUP Performance Tracker Milling

- > Field-tested WITOS FleetView telematics system with optional WPT Milling
- > Direct display of truck loading
- > Clear site documentation
- > Quick and exact site accounting

05 Intuitive Assistance Systems

- > **MILL ASSIST** automatic mode with additional pre-selection of operating strategy
- > Automatic raising of scraper blade and side plates when necessary
- > Automatic front pendulum stroke control
- > Active Conveyor
- > Active Lift Up
- > Active Transport Control

MILLING AND LOADING

06 Superior Cutting Technology Boosts Performance

- > Extremely hard-wearing **HT22** quick-change toolholder system with field-proven **HT22 PLUS** upper part
- > Optimized side plate control at right by two hydraulic cylinders
- > New type of material scraper for optimal milling without full or partial loading of material
- > Program for protection of edge rings when milling in bends
- > Quick pick changing

07 Maximum Loading Capacity

- > Extremely large conveyor slewing angle of 65° to the left and right
- > Two conveyor slewing speeds
- > Higher belt cleat profile for increased conveyor capacity
- > "Booster" function for temporarily increased discharge trajectory

PERFORMANCE AND SERVICE

08 Performance Meets Efficiency

- > State-of-the-art John Deere engine with specially optimized torque curve for cold milling
- > Extended milling drum rotation speed range for a wide range of cost-efficient milling applications
- > Wide-opening hydraulic engine cowling for easy maintenance
- > Rugged electrics concept with CAN bus reserve circuits



DRIVING AND STEERING

09 Fast and Dynamic Maneuvering

- > ISC - intelligent speed control for minimal track slip
- > Fast machine height adjustment
- > Dynamic maneuvering at travel speeds of up to 4.7 mph (7.5 km/h)
- > Easily mounted 1,036 lbs (470 kg) additional weight

ENVIRONMENT AND SUSTAINABILITY

10 Minimal Environmental Impact for the Future

- > Dynamic engine control assistant for low CO₂ emissions
- > Two-part water spray bar with performance-dependent injection for minimal water consumption
- > Fuel-saving, low-noise dual fan concept
- > Optimized, effective VCS extraction system

EXCLUSIVE OPERATOR'S PLATFORM FOR HIGH PERFORMANCE

Relaxed Work

Perfectly designed operator's platform

Everything under Control

Ergonomic multifunctional armrest





01 Ergonomics and comfort increase operator well-being and performance.

02 5" control screen with clearly arranged, informative displays.

High-Quality Camera System with Two or Five Cameras

With two cameras, the standard 7" control panel displays a high-resolution view of the loading situation and the area in front of the left side plate. With five cameras, the additional 10" control panel shows the area behind the machine, the loading situation, the area in front of the left side plate, the front left crawler unit, and the left side of the machine.

Powerful Complete LED Lighting Package

The compact milling machine has particularly powerful LED working lights all around the machine, lighting for the operator's platform, illuminated control panels, and "welcome and go home" lighting for convenient access.

Operator's Platform with Lateral Shift Function for Optimal Vision Along the Zero Side

The operator's platform can be hydraulically moved outwards by nearly 8 in (200 mm) to provide an optimal view of the milling drum unit and the front right-hand crawler unit.

Platform Design with Perfect Ergonomics for a High Level of Operator Comfort and Well-Being

The operator's platform has been completely redesigned and stands out for its comfort, ergonomically designed controls, high-quality feel, and modern design. All in all, this significantly increases the operator's sense of well-being and thus their performance.

The Large 5-Inch Control Screen in the Multifunctional Armrest Displays Essential Information

In addition to the milling depth on the right and left, a wealth of important information such as machine load conditions, temperatures, hydraulic pressures, diesel and water fill levels, and

status and diagnostic messages are clearly displayed in color on the 5" control screen in the armrest.

Ergonomic Access with Automatic Height Adaptation

The ergonomically designed access ladder at the rear of the machine features automatic height control for effortless access to the operator's platform in any working situation with sufficient ground clearance.

External Control Panel with Frequently Used Machine Functions

Thanks to the additional external control panel, ground crews can effortlessly perform practical operating functions such as engine start/stop, water test, scraper up/down, or machine height adjustment.

Ample Storage Space

The compact milling machine offers plenty of storage space for leveling sensors, pick ejectors, and pick boxes. The storage compartments offer space for up to nine pick boxes in total.

Smart Vandalism Protection Concept for Control Units

The innovative vandalism protection system allows the linear 7" universal display and the 10" camera display (optional) to be moved vertically and thus reliably secured against theft and destruction. The main control panel can be easily folded in and locked.

INNOVATIVE COMFORT CABIN FOR EVEN HIGHER PRODUCTIVITY

Climb in and Enjoy the Comfort

Full weatherproofing and dust protection meets perfect ergonomics

Ideal Conditions for a Productive Working Day

Perfect air conditioning and temperature control

01



High Motivation Factor

The cabin is an attractive workplace and stands out as a unique highlight in the compact milling machine class. It motivates operators and further increases their commitment to delivering an excellent job.

Outstanding Low-Fatigue Operating Comfort

In addition to providing optimal protection against noise, dust, and weather conditions such as rain, wind, heat, and cold, the cabin also offers maximum operating comfort: the state-of-the-art workplace offers air conditioning with temperature regulation, low ambient noise levels, a radio, a low-fatigue operating concept, and more, as well as continuous operator productivity.

Clean and Fresh Air in the Cabin

The air flowing into the positive-pressure cabin is cleaned by an efficient filter system to prevent dust and dirt particles entering from outside. This guarantees minimization of the dust to which operators are typically exposed on construction sites.

More Effective Protection Against Vandalism

The lockable cabin door reliably protects against forcible entry, willful damage to control panels and the interior, and theft. Extra vandalism protection equipment no longer needs to be installed or removed and stowed away.

02



01 The operator is always ideally protected against external influences when at work in the cabin.

02 The cabin offers highest levels of operating comfort and ergonomics.

INNOVATIVE COMFORT CABIN FOR EVEN HIGHER PRODUCTIVITY

All-Round Vision

Large glazed surfaces guarantee ideal all-round vision

Optimal Adaptation to Site Conditions

Hydraulically adjustable cabin

01



High-Quality Camera System with Five Cameras

The additional, high-resolution 10" control panel shows the area behind the machine, the loading situation, the area in front of the left side plate, the front left track unit, and the left side of the machine. Thanks to the large windows, the machine operator always has an ideal overview of the entire working environment.

Improved Communication

The low-noise cabin enables easier communication with the site office or crew members during jobs.

Milling Also Possible in the Case of Obstacle Heights of 9 ft 10 in (3.0 Meters) or More

The compact milling machine with a hydraulically adjustable cabin can also cope with working situations where milling has to be carried out under obstacles with an obstacle height of 9 ft 10 in (3.0 meters) or more. This is not possible in the case of machines with the weather canopy folded away.

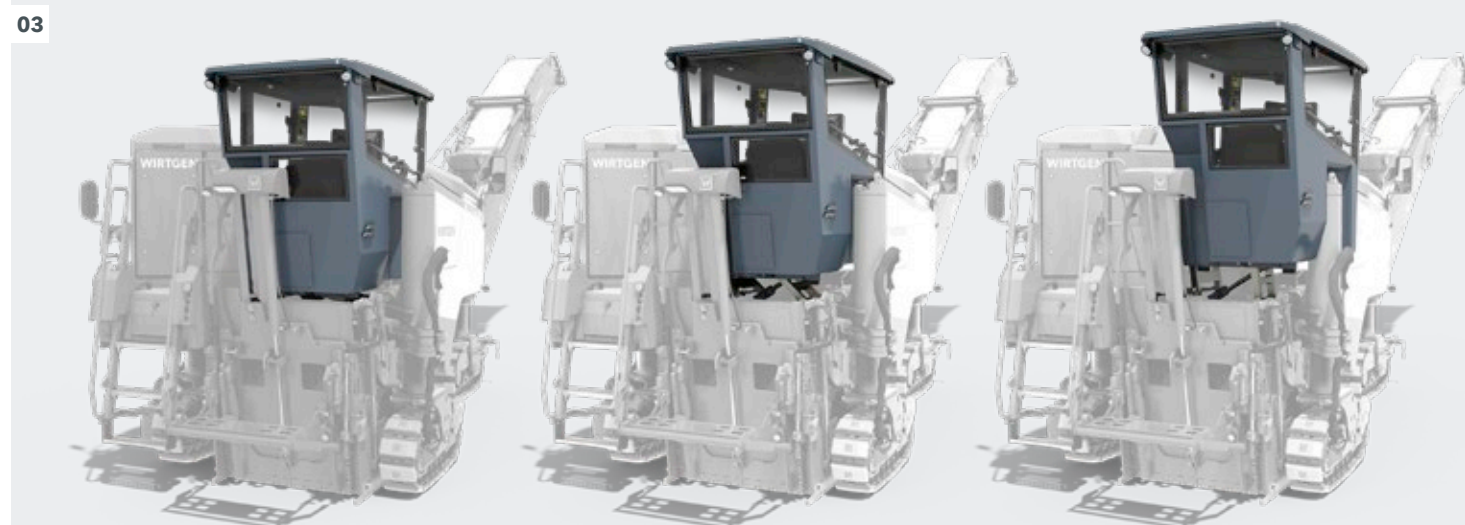
Easy Transportation

Thanks to the low transport configuration of the cabin, the height of the machine remains unchanged. This means that no limitations apply when transporting the machine.

01 In combination with its all-round glazing, the state-of-the-art workplace offers an ideal all-round view of the construction site.

02 Easy access to the cabin at the rear of the machine.

03 Different working positions on the compact milling machine.



PRECISE LEVELING WITH LEVEL PRO *ACTIVE*



Always Makes the Grade
LEVEL PRO *ACTIVE*

Perfect Leveling
Multiplex system

Innovative LEVEL PRO ACTIVE Leveling System

The high-precision **LEVEL PRO ACTIVE** leveling system specially developed for cold milling machines features an informative 7" control panel that is not only intuitive and easy to operate, but also offers many automatic and additional functions to make the operator's job easier. For example, the entire machine can be raised automatically to drive over a manhole cover and then lowered back to the starting position.

Optimized Multiplex System

The user-friendly multiplex system is easy to mount to the machine. It consists of a two additional ultrasonic sensors per machine side mounted on flexibly adjustable brackets. Benefits of the system include its low weight and wide adjustment range for a variety of leveling applications.

Optimized 3D and Laser Leveling

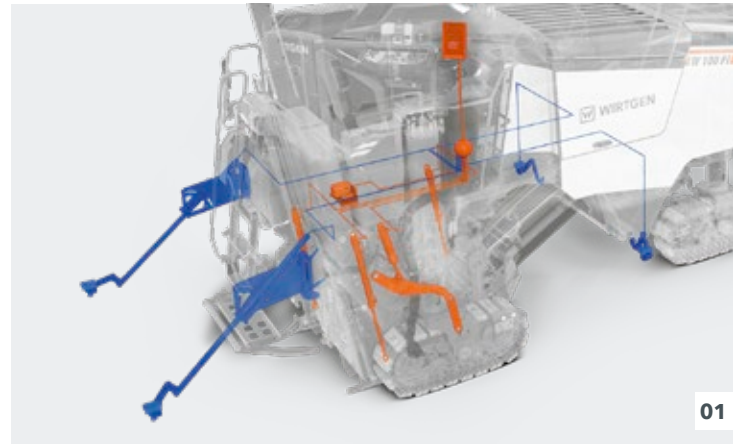
The drastically simplified method of installing the pole-mounted laser sensor makes it easier to use 3D systems.

Leveling Boom with Sonic Ski Sensor on One or Both Sides

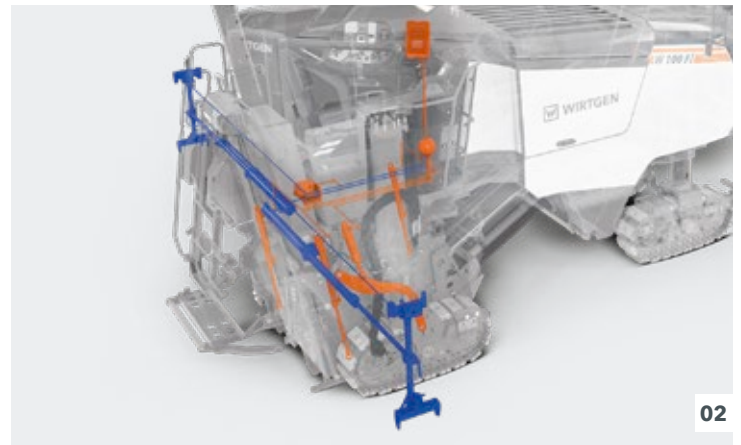
The leveling booms with Sonic-Ski sensor make the contactless scanning of a line or a reference surface next to the milled edge on both sides possible. In this context, the boom with the Sonic-Ski sensor can be hydraulically shifted outward by up to 2 ft 9 in (840 mm) from the operator's platform in milling mode. A mechanical adjustment offers an additional 2 ft 11 in (880 mm) of telescopic travel.

Copy Slope Sensor – Active Transverse Leveling via Front Lifting Columns

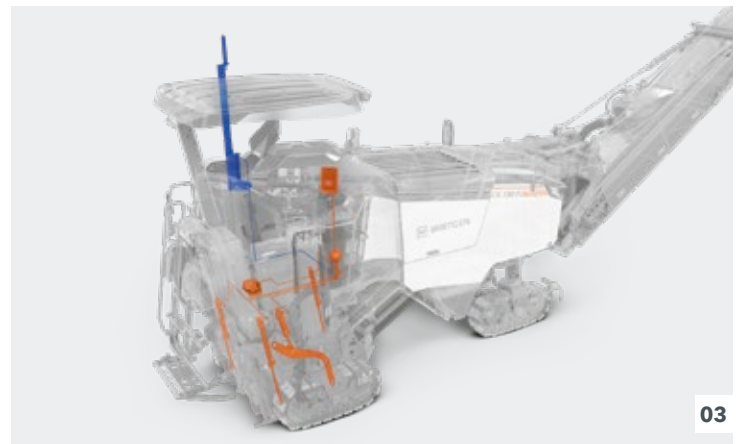
Displacement sensors in the two front lifting columns determine the difference in height between the two crawler units at the front and then always automatically align the machine parallel to the ground surface. Depending on the application, cross-leveling can be used instead of side plate leveling, for example.



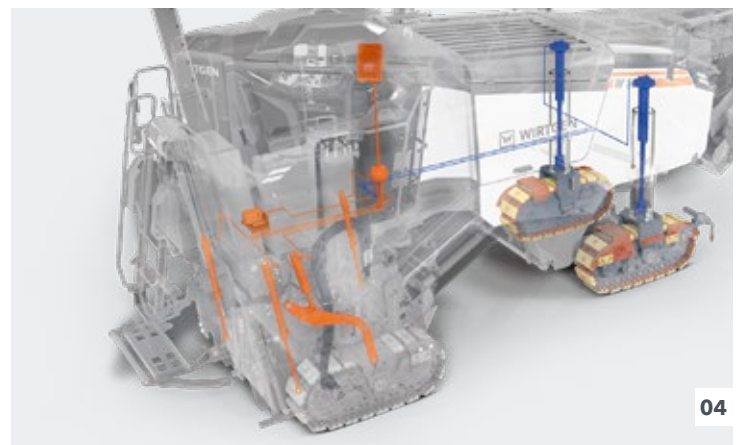
01



02



03



04

01 Multiplex system with up to four additional ultrasonic sensors

02 Telescoping leveling boom on the right or left

03 3D leveling / laser leveling

04 Detection of the difference in height between the front lifting columns

 = Standard equipment
 = Optional equipment

WIRTGEN GROUP PERFORMANCE TRACKER MILLING

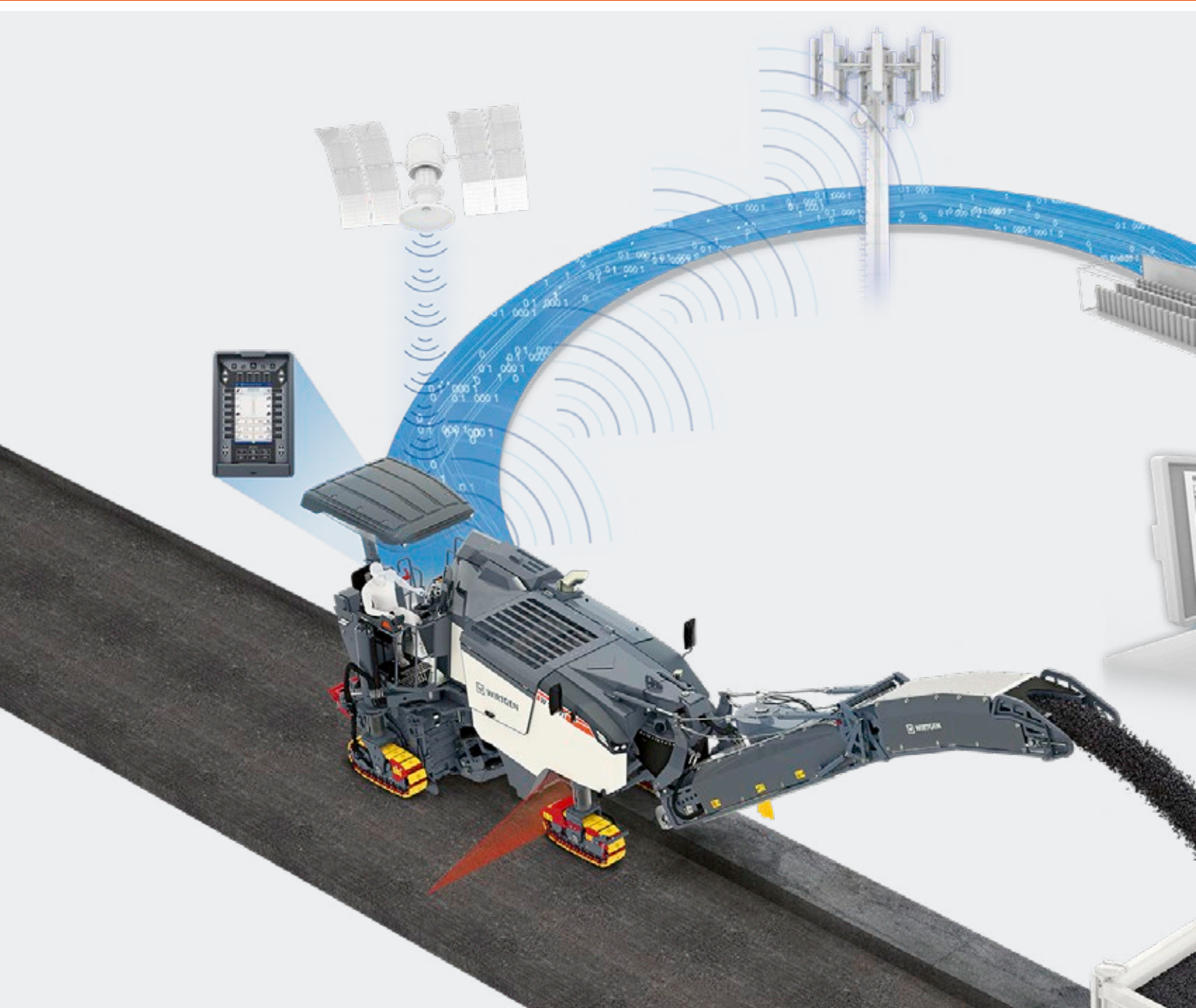
Informative WPT Milling

Comprehensive Job Data

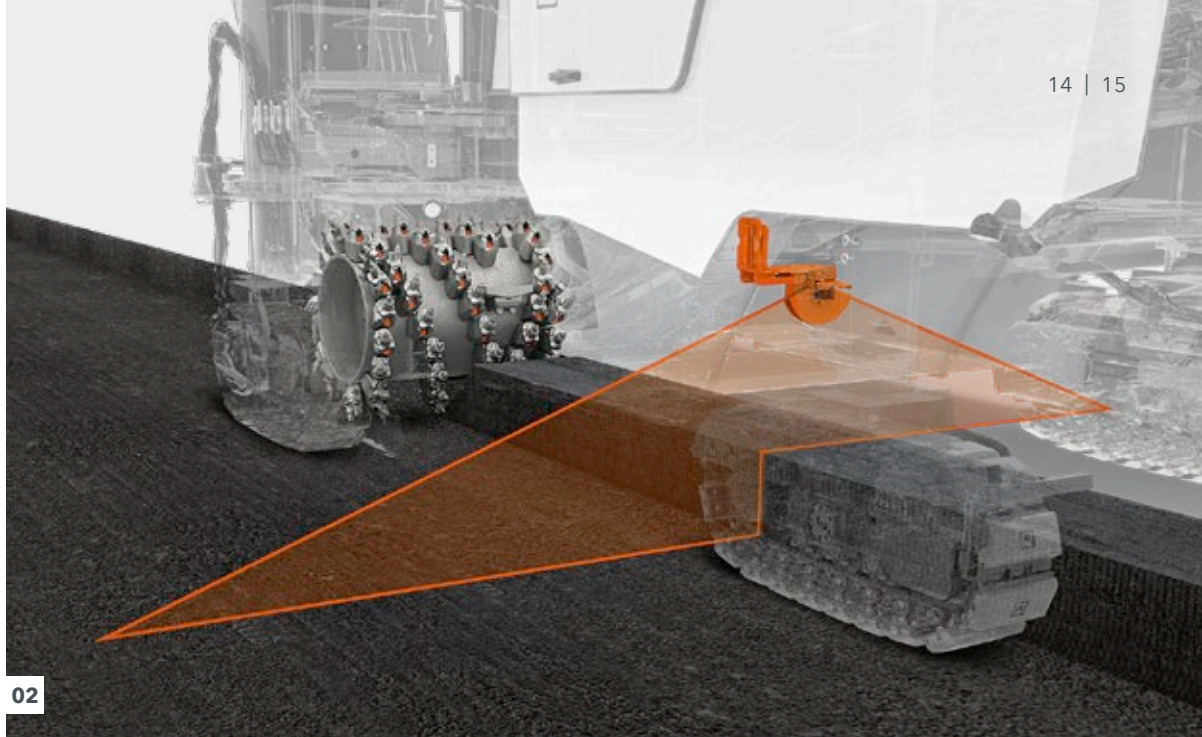
Site reports via email

Simple Accounting

No extra costs for surveying



- 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 control panel.



02



01

Field-Tested WITOS FleetView Telematics System with Optional WPT Milling

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. The additional WPT Milling equipment also tracks the machine's actual milling performance and truck loads and provides consumption and position data in a clear, automatically generated job site report.

Direct Display of Truck Loading

The actual, currently active milling width is scanned by a laser scanner and displayed directly on the control panel together with the current truck load. The panel also displays the tonnage currently loaded onto the truck, making it easy to avoid overloading.

Clear Site Documentation

After completing a milling job, a site survey report is automatically generated in both Excel and PDF formats and sent by email to the machine owner's job management office, for example. The site survey report contains precise information on the milling volume, milled area, milling depth with the corresponding GPS position, and consumption data.

Quick and Exact Site Accounting

The prompt, simple calculation of the surface area required for the correct invoicing of the work performed saves further costs, e.g. by an external surveyor.

INNOVATIVE MILL ASSIST

Efficient Machine Control

MILL ASSIST Automatic Mode with Additional Pre-Selection of Operating Strategy

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, CO₂ emissions, and noise.

The operator can also pre-select one of three working strategies: "ECO," "performance-optimized," or "milling pattern quality." The machine then automatically adjusts the main parameters based on the selected operating strategy and displays suggested optimizations, if necessary. The operator can preset the required milling pattern quality by pre-selecting from a scale ranging from 1 to 10. This then automatically sets the milling drum rotation speed and the milling speed, taking the milling drum type into account.

OPERATOR

Operating Strategy

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

MACHINE

Work Parameters

- e.g.,
- > Milling width
 - > Milling depth
 - > Milling drum / picks
 - > ...

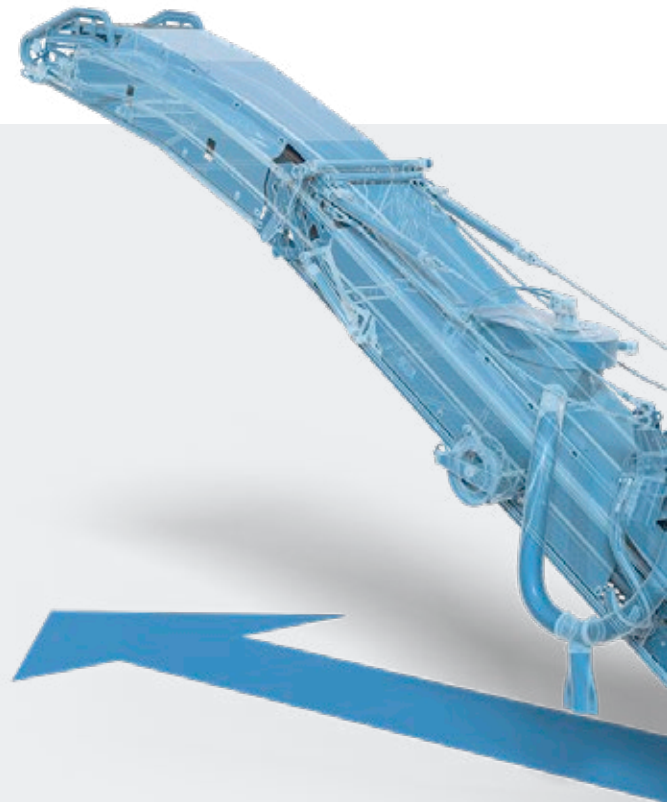


Automatic Adjustment of Machine Settings

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

Information Displayed

- > Efficiency
- > Milling pattern
- > Suggested optimizations



Automatic Raising of Scraper Blade and Side Plates when Necessary

If necessary, the right and left side plates are briefly raised automatically to prevent them from sinking into soft ground. Overload sensors protect the milling drum unit from damage by triggering the scraper to lift briefly, such as to avoid obstacles or uneven ground.

Automatic Front Pendulum Stroke Control

The automatic height adjustment of the two front lifting columns controls the pendulum stroke so that the crawler units always maintain sufficient ground contact and traction, even on uneven terrain.

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.

Active Lift Up

This automatic function avoids unevenness in the milling surface when the machine is idle by raising the milling drum.

Active Transport Control

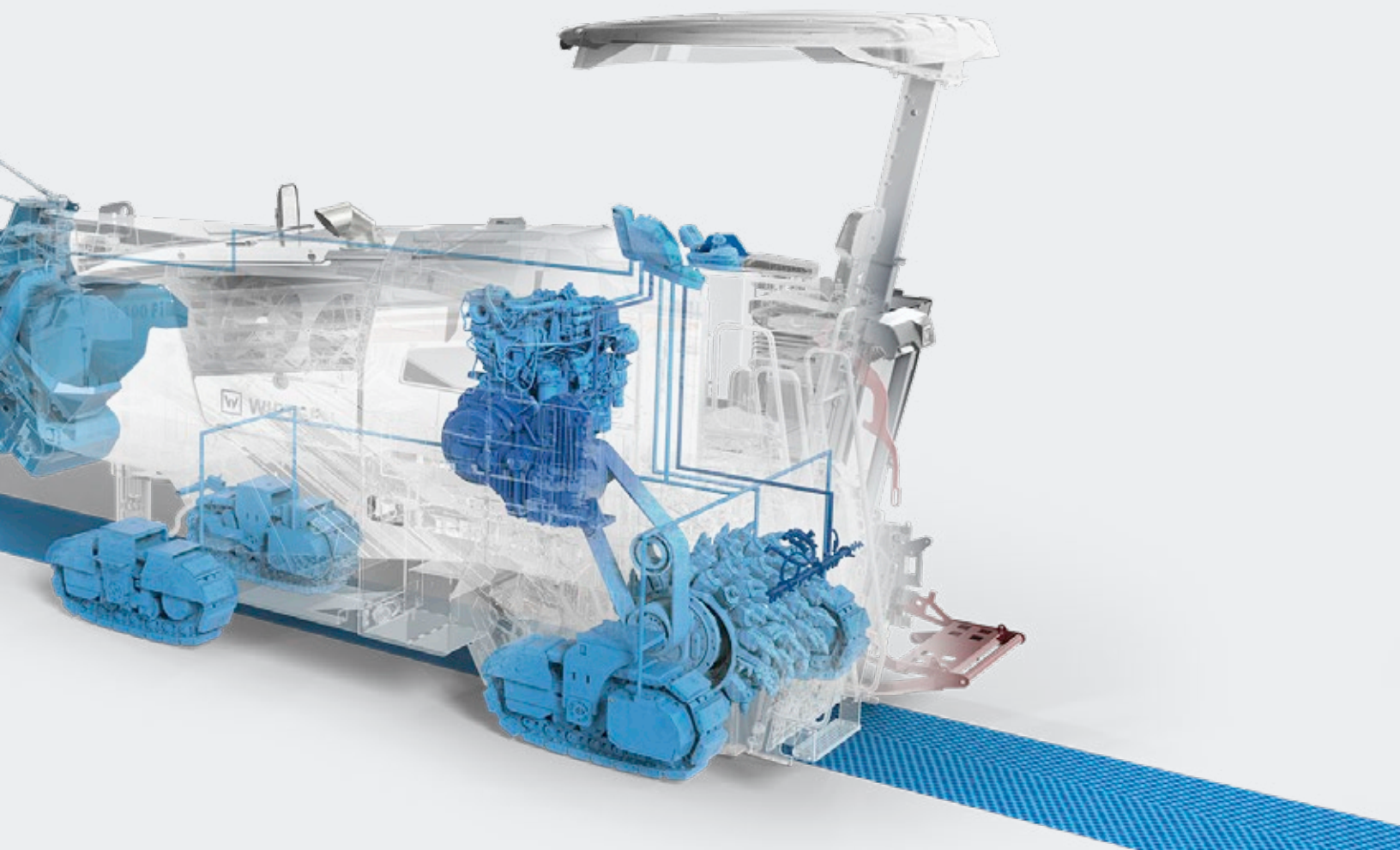
This automatic function conveniently aligns the cold milling machine horizontally when moving it at traveling speed. In addition, it automatically switches off the water supply and conveyor operation.

MILL ASSIST

Automatic efficient milling

Three Predefined Strategies

Optimal machine adjustment



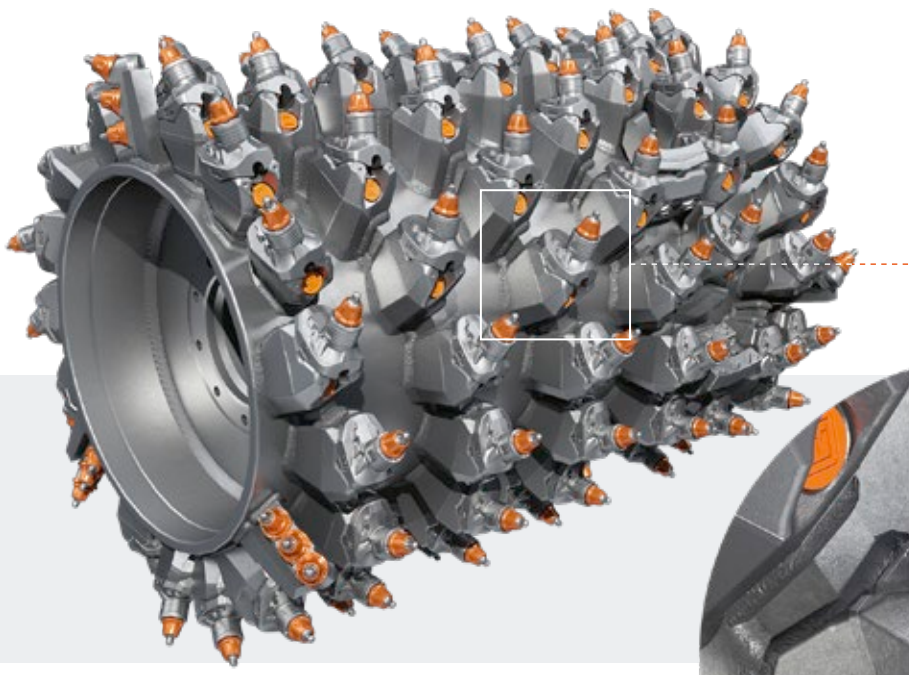
SUPERIOR CUTTING TECHNOLOGY

Extremely Hard-Wearing HT22 Quick-Change Toolholder System with Field-Proven HT22 PLUS Upper Part

The milling drums of the compact milling machine 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.

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 round-shank picks,

this reduces toolholder wear by up to 25%. In addition, the rotation behavior of the round shaft pick has been optimized. The new upper part offers considerable benefits such as higher milled surface quality and longer intervals between changes.



More Flexible Milling

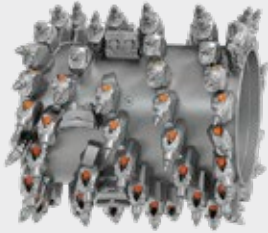
New material scraper

Turning a Corner

Program for protection of edge rings



W 100 Fi
with 3 ft 3 in (1.0 m) milling drum unit



Standard Milling Drum
Milling width: 3 ft 3 in (1,000 mm)
Milling depth: 0 to 13 in (0 to 330 mm)
Tool spacing: 0.6 in (15 mm)



W 120 Fi
with 3 ft 11 in (1.2-m) milling drum unit



Standard Milling Drum
Milling width: 3 ft 11 in (1,200 mm)
Milling depth: 0 to 13 in (0 to 330 mm)
Tool spacing: 0.6 in (15 mm)



W 130 Fi
with 4 ft 3 in (1.3-m) milling drum unit



Standard Milling Drum
Milling width: 4 ft 3 in (1,300 mm)
Milling depth: 0 to 13 in (0 to 330 mm)
Tool spacing: 0.6 in (15 mm)

Optimized Side Plate Control at Right by Two Hydraulic Cylinders

Two hydraulic cylinders are responsible for robust side plate guidance without jamming, ensuring precise leveling. The contact pressure is set from the operator's platform.

New Type of Material Scraper for Optimal Milling without Full or Partial Loading of Material

The flexible material scraper at the rear replaces the usual safety bar and ensures that the deposited material features a uniform profile when milling without loading or partial loading.

In addition, the folding design of the material scraper allows the machine to be reversed close and accurately to obstacles.

Program for Protection of Edge Rings when Milling in Bends

The automatic function increases the milling drum speed when milling in bends, thus reducing material wear on the edge ring segments that are subjected to higher stress in curves.

Quick Pick Changing

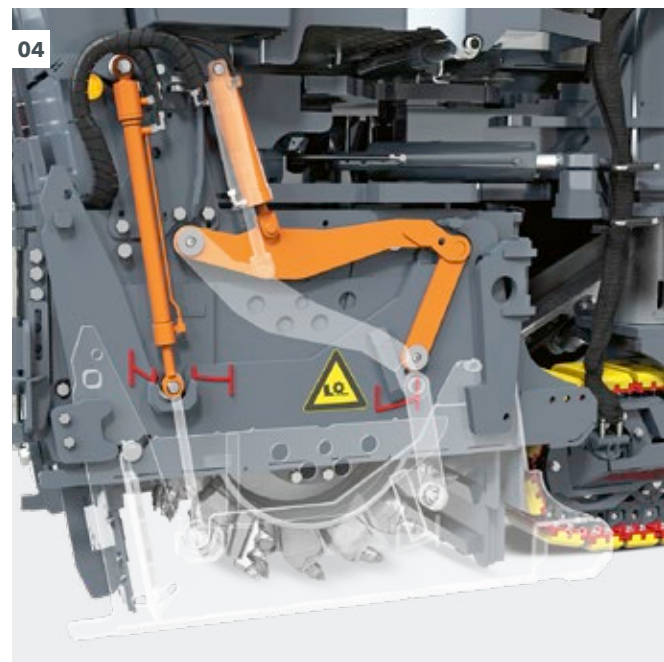
The hydraulically operated milling drum rotation device and pick ejector make it easier to change picks - even when the engine is switched off.

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

02 3 ft 3 in (1.0 m), 3 ft 11 in (1.2 m), and 4 ft 3 in (1.3 m) milling drum units.

03 Flexible material scraper at the rear of the machine.

04 Two hydraulic cylinders on the right side plate.



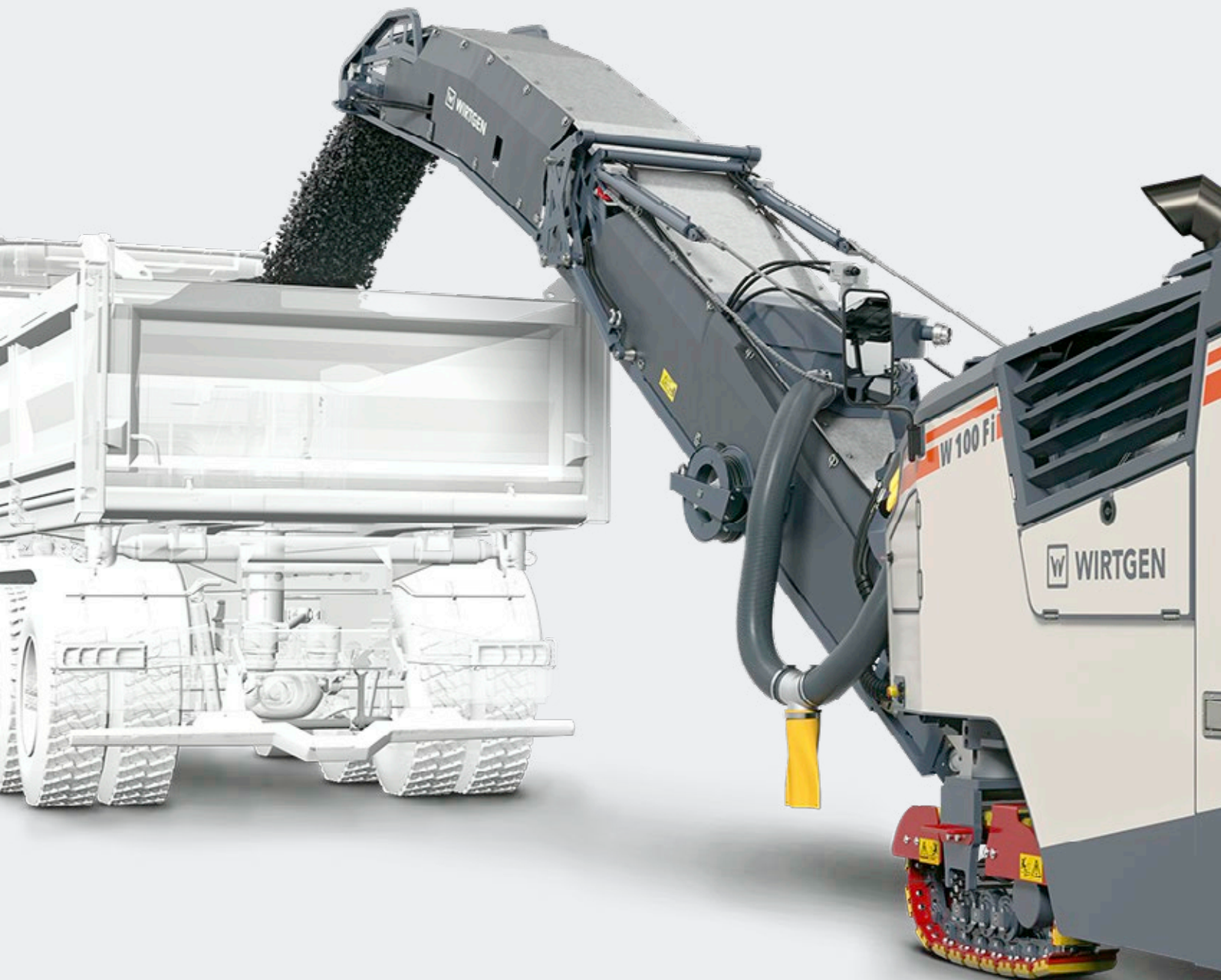
MAXIMUM LOADING CAPACITY

Unparalleled Precision

Two swing speeds

Quickly Clear Away the Milled Material

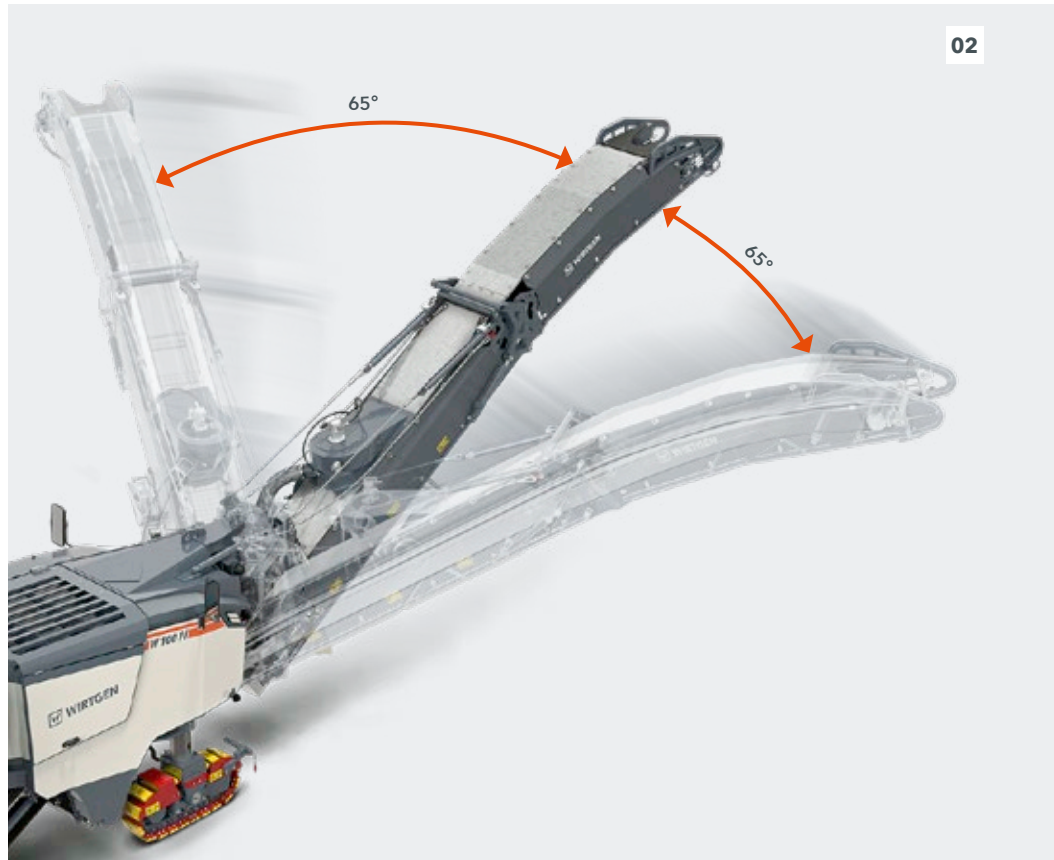
New "booster" function



- 01 High-performance loading of the milled material.
- 02 Discharge conveyor with extremely large slewing range.



01



02

Extremely Large Conveyor Swing Angle of 65° to the Right and Left

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.

Two Conveyor Swing Speeds

The discharge conveyor can swing slowly to ensure that the material is loaded precisely, while swinging at high speed ensures that the discharge conveyor is positioned quickly.

Higher Belt Cleat Profile for Increased Conveyor Capacity

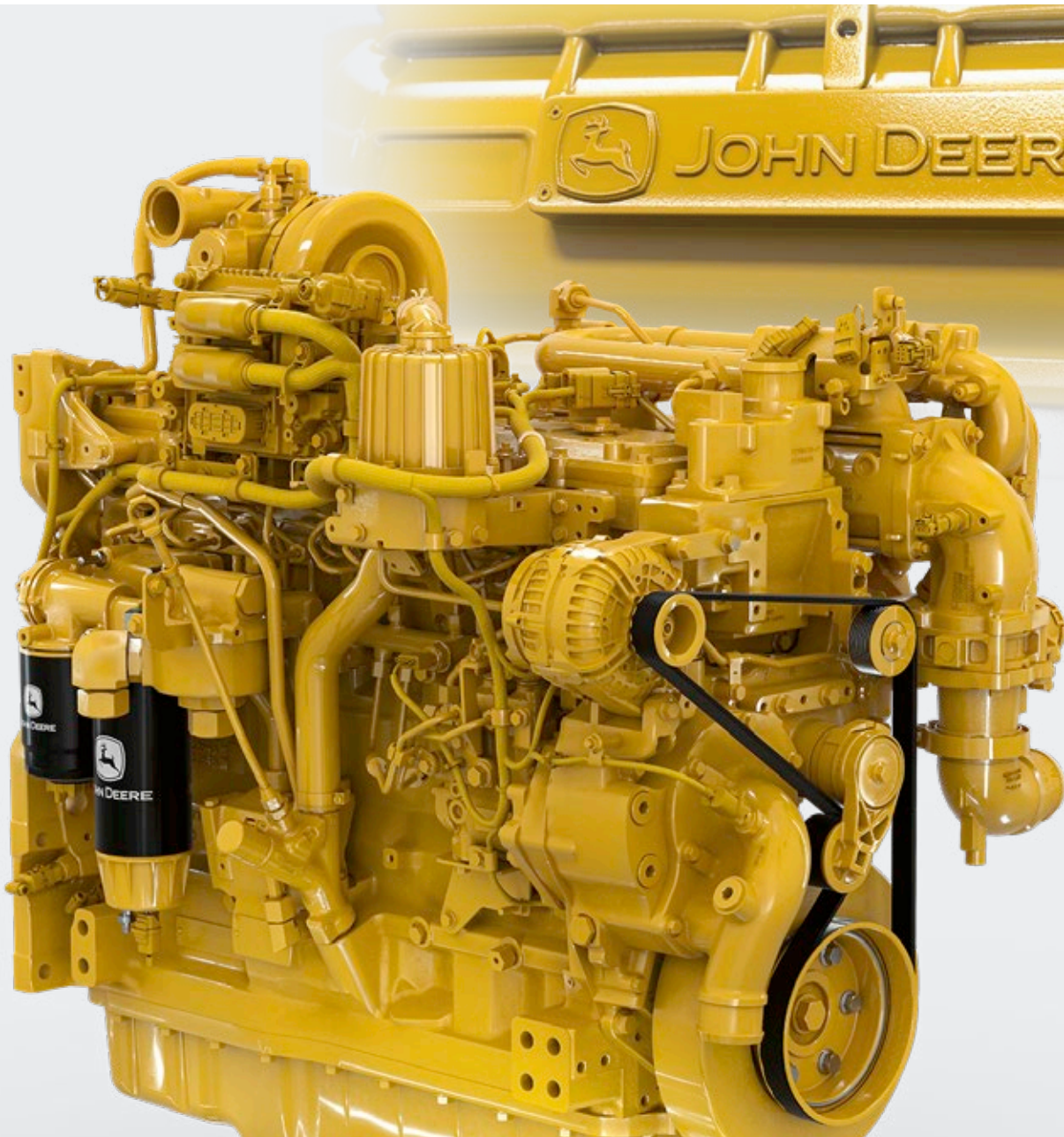
The large belt width and the belt cleat profile increased by 100% increase the loading capacity and thus the efficiency of the entire milling process.

"Booster" Function for Temporarily Increased Discharge Trajectory

Pressing the "Booster" button on the main control panel briefly increases the belt speed and conveying capacity of the discharge conveyor by 20% in order to temporarily transport the milled material particularly high or far onto a truck bed.

PERFORMANCE MEETS EFFICIENCY

Powerful John Deere Engine Technology



From a Single Source

John Deere brand engine technology

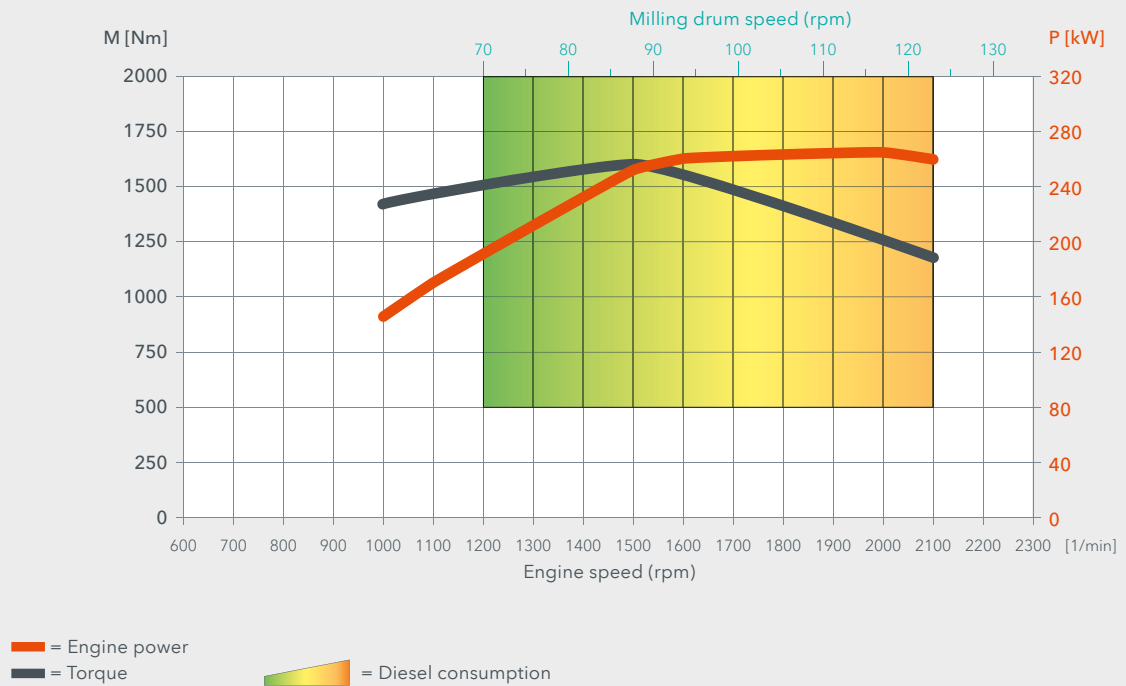
Perfect for Cold Milling Machines

Engine characteristics tailored to the application

01 When equipped with the MILL ASSIST milling application control system, the compact milling machine offers an extremely wide milling drum speed range to dramatically reduce diesel consumption, carbon emissions, and pick wear.

W 100 Fi, W 120 Fi, and W 130 Fi Cold Milling Machine Engine Characteristics

01



State-Of-The-Art John Deere Engine with Specially Optimized Torque Curve for Cold Milling

The economical John Deere diesel engine meets the strict requirements of EU Stage 5 / US EPA Tier 4f emissions standards and offers an impressive engine output of 265 kW / 355 hp / 360 PS with high maximum torque. It is worth noting that WIRTGEN and John Deere worked closely together to adapt the torque characteristics of the engine to make it ideal for cold milling machines. All in all, this translates into reduced fuel consumption and fast, productive operations, even at maximum milling depth.

Extended Milling Drum Speed Range for a Wide Range of Cost-Efficient Milling Applications

Thanks to the intelligent engine control unit in conjunction with **MILL ASSIST**, the compact milling machine offers an extremely wide usable milling drum speed range. The new lower engine speed range is particularly effective in achieving significant diesel savings and tremendous milling performance in numerous applications.

Wide-Opening Hydraulic Engine Cowling for Easy Maintenance

The engine cover can be hydraulically opened wide by almost 90° at the push of a button, providing easy access to the maintenance components in the engine compartment.

Rugged Electrics Concept with Can Bus Reserve Circuits

If necessary, the CAN bus can be variably reconnected via backup lines. 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.

FAST AND DYNAMIC MANEUVERING

ISC - Intelligent Speed Control for Minimal Track Slip

The intelligent ISC (Intelligent Speed Control) system delivers optimum, even traction – electronic traction control prevents individual crawler units from slipping as far as possible, even under difficult conditions. In addition, ISC keeps the machine's advance rate in the ideal engine utilization range and electronically matches the curve speed of the inner and outer crawler units to each other. This minimizes track pad wear.

Fast Machine Height Adjustment

The new machine height adjustment system not only functions with extreme precision for high-quality milling results, but also enables fast stroke movements for rapid positioning and lifting.

Dynamic Maneuvering at Travel Speeds of up to 4.7 mph (7.5 km/h)

The machine's maximum speed of 4.7 mph (7.5 km/h) ensures that jobs are completed particularly quickly.



Always Powerful

Intelligent travel drive

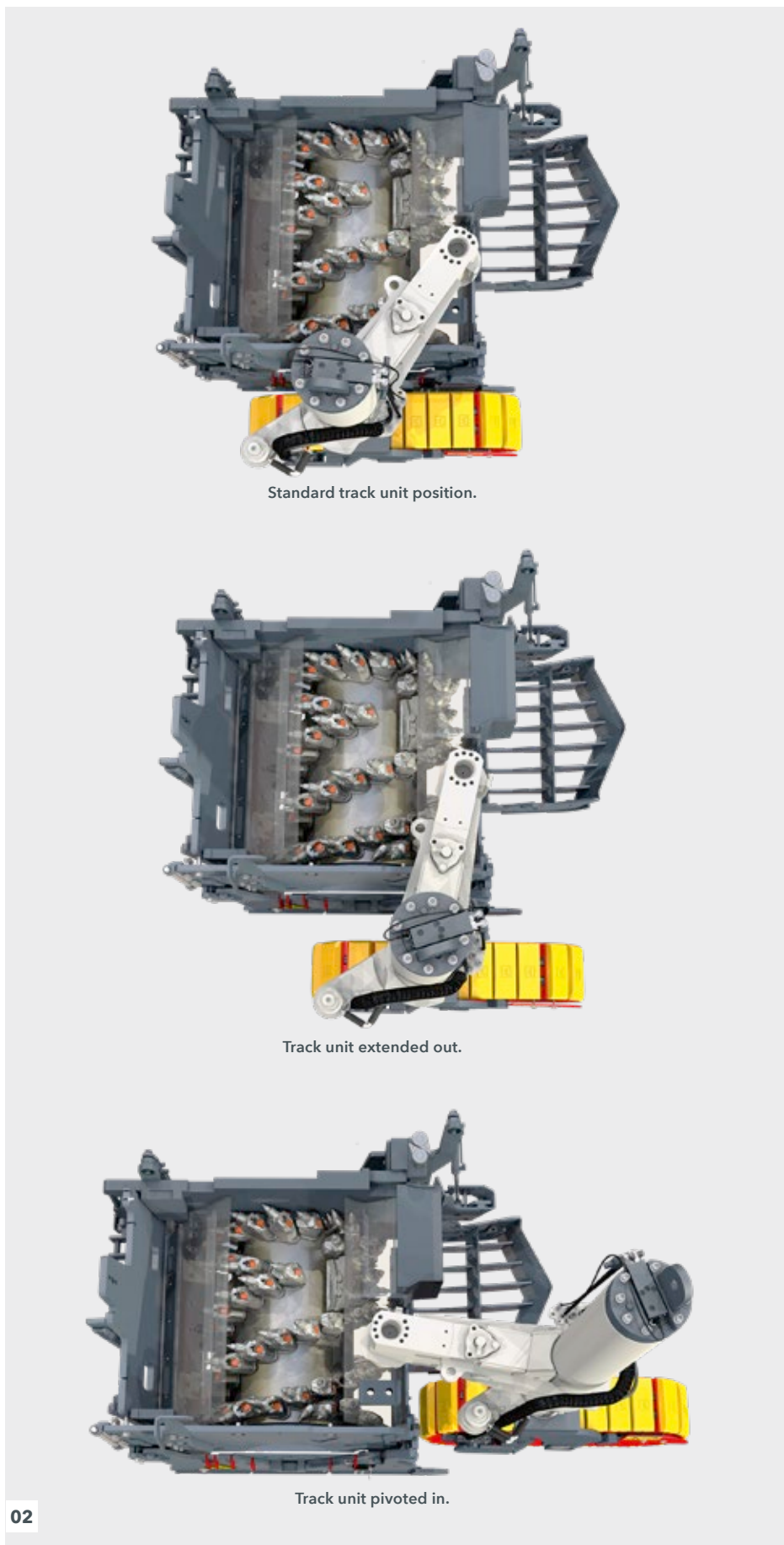
High Travel Speed

On to the next job quickly

- 01 The compact milling machine stands out due to its minimal milling radii.
- 02 The rear crawler unit on the right side has three fixed positions. In the "extended" position, the entire rear right-hand crawler unit is positioned within the cutting circle of the previous working pass. This makes it easy to begin milling the next working pass with zero offset.

Easily Mounted 1,036 lbs (470 kg) Additional Weight

The low net weight of the compact milling machine in combination with the easily mountable 1,036 lbs (470 kg) additional weight at the rear of the machine makes a high operating weight, ideal traction, and smooth and easy transport possible, depending on the requirements.



MINIMAL ENVIRONMENTAL IMPACT FOR THE FUTURE

Dynamic Engine Control Assistant for Low CO₂ Emissions

In combination with **MILL ASSIST**, the efficient John Deere engine, and the wide milling drum speed range, the intelligent engine control system minimizes CO₂ emissions.

Two-Part Water Spray Bar with Performance-Dependent Injection for Minimal Water Consumption

Two 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. Automatically switching the water system on and off as well as reducing the amount of water used depending on the milling speed not only cuts water consumption by up to 20%, but also reduces machine downtimes during operation.

Fuel-Saving, Low-Noise Dual Fan Concept

Two 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 and noise.

Efficiency-Optimized VCS Extraction System

The well-sealed VCS exhaust system improves air quality and visibility in the machine operator's and ground crew's working area. In addition, the easily accessible VCS suction channel makes cleaning the system easier.

Focus on the Environment

Lower CO₂ emissions

Fuel Saver

Intelligently controlled



The front loader in the one-meter class is characterized by its outstanding performance and flexibility at working widths of 3 ft 3 in (1.0 m), 3 ft 11 in (1.2 m), or 4 ft 3 in (1.3 m). Compact dimensions and optimized machine weight make it ideal for a wide range of applications – including on job sites with limited space, such as in urban areas. Switching FCS milling drums with different tool spacings and different working widths allows the milling machine to be used for a wide range of additional applications.



TECHNICAL SPECIFICATIONS	W 100 Fi	W 120 Fi	W 130 Fi
Milling Drum			
Milling width	3 ft 3 in (1,000 mm)	3 ft 11 in (1,200 mm)	4 ft 3 in (1,300 mm)
Milling depth ¹⁾	13 in (0 to 330 mm)		
Cutting diameter	3 ft 3 in (980 mm)		
Engine			
Manufacturer	John Deere		
Type	6090HD-S5-PVR		
Cooling	Water		
Number of cylinders	6		
Rated power at 2,100 rpm	260 kW / 349 hp / 354 PS		
Maximum power at 1,900 to 2,000 rpm	265 kW / 355 hp / 360 PS		
Displacement	549 in³ (9.0 l)		
Fuel consumption at rated power during a mixture of job site operations	16.6 gph (62.7 l/h) 6.6 gph (25.1 l/h)		
Sound power level in accordance with DIN EN 500-2 engine operator's platform	≤ 107 dB(A) ≥ 90 dB(A)		
Emissions standard	EU Stage 5 / US EPA Tier 4f		
Electrical System			
Power supply	24 V		
Tank Capacities			
Fuel	161.1 gal (610 l)		
AdBlue® / DEF ²⁾	11.6 gal (44 l)		
Hydraulic oil	30.4 gal (115 l)		
Water	369.8 gal (1,400 l)	422.7 gal (1,600 l)	422.7 gal (1,600 l)
Driving Performance			
Max. milling speed	0 to 197 ft/min (0 to 2.2 mph) (0 to 60 m/min (0 to 3.6 km/h))		
Max. speed on wheels	0 to 410 ft/min (0 to 4.7 mph) (0 to 125 m/min (0 to 7.5 km/h))		
Max. speed on tracks	0 to 410 ft/min (0 to 4.7 mph) (0 to 125 m/min (0 to 7.5 km/h))		
Track Units			
Tire size, front / rear (D x W)	2 ft 2 in x 11 in (660 x 280 mm)		
Track chains front / back (L x W x H)	4 ft 6 in x 10 in x 23 in (1,360 x 260 x 584 mm)		
Loading of Milled Material			
Belt width of primary conveyor	2 ft 2 in (650 mm)		
Belt width of discharge conveyor	2 ft (600 mm)		
Theoretical capacity of discharge conveyor	230 yd³/h (176 m³/h)		

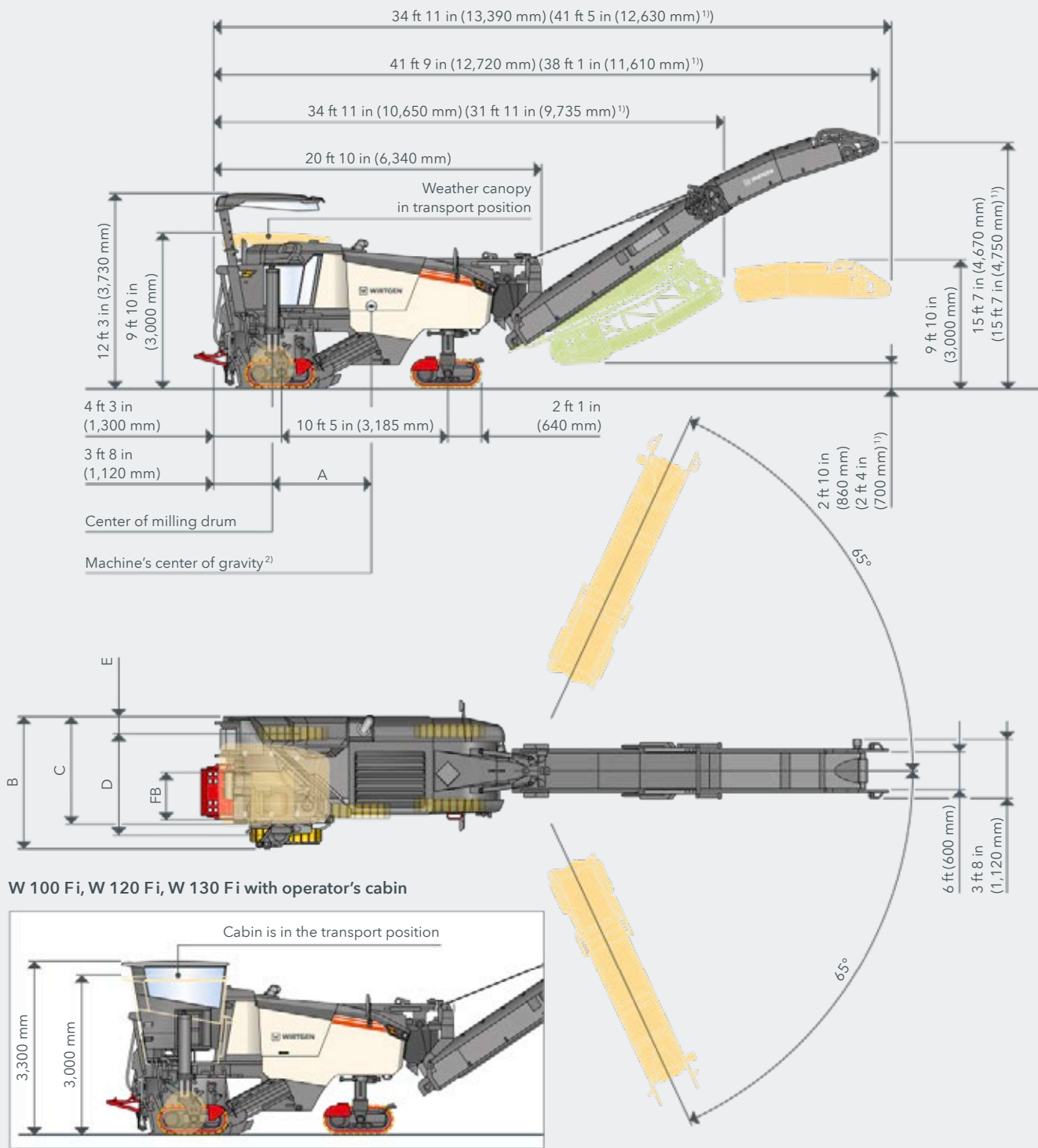
TECHNICAL SPECIFICATIONS	W 100 Fi	W 120 Fi	W 130 Fi
Weight of Basic Machine			
Empty weight of machine without fluids	41,667 lbs (18,900 kg)	43,652 lbs (19,800 kg)	44,533 lbs (20,200 kg)
Operating weight, CE ³⁾	44,093 lbs (20,000 kg)	46,297 lbs (21,000 kg)	47,179 lbs (21,400 kg)
Maximum operating weight (full tanks, full range of equipment)	50,155 lbs (22,750 kg)	52,911 lbs (24,000 kg)	54,013 lbs (24,500 kg)
Weight of Tank Contents			
Water	3,087 lbs (1,400 kg)	3,527 lbs (1,600 kg)	3,527 lbs (1,600 kg)
Fuel (6.9 lbs/gal (0.83 kg/l))	1,116 lbs (506 kg)		
AdBlue® / DEF ²⁾ (9.2 lbs/gal (1.1 kg/l))	106 lbs (48 kg)		
Additional Weight			
Operator and Tools			
> Machine operator	165 lbs (75 kg)		
> 5 pick containers	276 lbs (125 kg)		
> Tools	66 lbs (30 kg)		
Optional Milling Drum Units Instead of Standard			
> Milling drum housing FB1000 (3 ft 3 in) FCS	617 lbs (280 kg)	-	-
> Milling drum housing FB1200 (3 ft 11 in) FCS	-	728 lbs (330 kg)	-
> Milling drum housing FB1300 (4 ft 3 in) FCS	-	-	816 lbs (370 kg)
Optional Milling Drums Instead of Standard			
> FCS milling drum FB1000 (3 ft 3 in) HT22 PLUS LA15 with 95 picks	-176 lbs (-80 kg)	-	-
> FCS milling drum FB1200 (3 ft 11 in) HT22 PLUS LA15 with 109 picks	-	-176 lbs (-80 kg)	-
> FCS milling drum FB1300 (4 ft 3 in) HT22 PLUS LA15 with 115 picks	-	-	-176 lbs (-80 kg)
> Milling drum FB1000 (3 ft 3 in) HT22 PLUS LA18 with 88 picks	132 lbs (-60 kg)	-	-
> Milling drum FB1200 (3 ft 11 in) HT22 PLUS LA18 with 100 picks	-	154 lbs (-70 kg)	-
> Milling drum FB1300 (4 ft 3 in) HT22 PLUS LA18 with 105 picks	-	-	165 lbs (-75 kg)
Optional Additional Equipment			
> 4 motorized wheeled chassis instead of crawler units	3,087 lbs (-1,400 kg)		
> Hydraulically lowering weather canopy instead of standard	562 lbs (255 kg)		
> Operator’s platform with air-conditioned comfort cabin instead of standard	937 lbs (425 kg)		
> Shortened discharge conveyor, 6,500 mm long, 600 mm wide, with hydraulic folding device	-99 lbs (-45 kg)		
> VCS extraction system	165 lbs (75 kg)		
> Additional weights	1,036 lbs (470 kg)		
> Foldable signal lights	88 lbs (40 kg)		
> Leveling boom including sensor for LEVEL PRO ACTIVE leveling system	106 lbs (48 kg)		
> Upgrade of LEVEL PRO ACTIVE with two leveling booms and one Sonic-Ski sensor	170 lbs (77 kg)		
> Powerful high-pressure water cleaner, 2,176 psi (150 bar), 4 gal/min (15 l/min)	93 lbs (42 kg)		
> Air compressor system	99 lbs (45 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, excluding optional equipment

SIDE VIEW / TOP VIEW W 100 Fi, W 120 Fi, W 130 Fi WITH CRAWLER UNITS

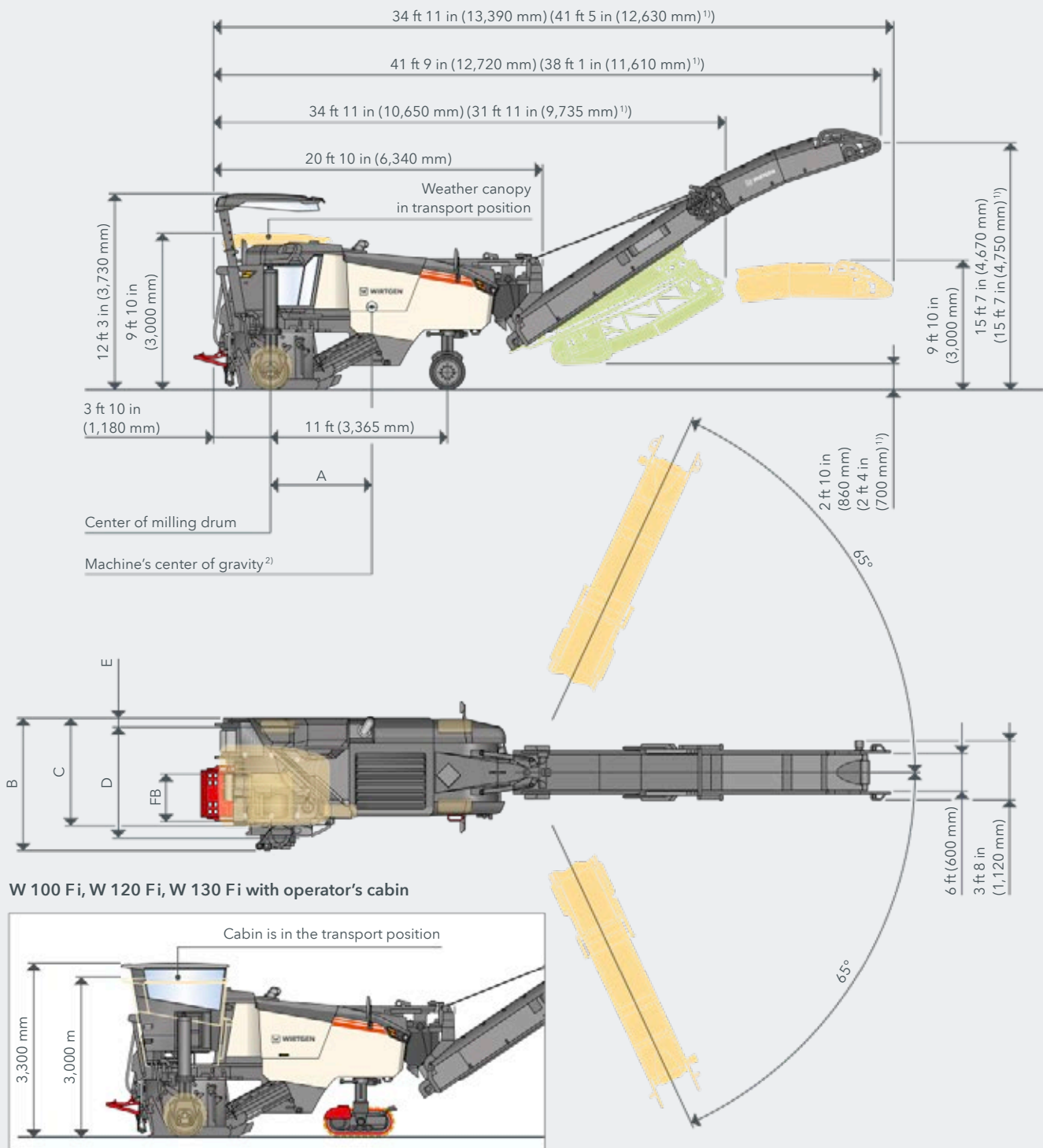


	FB	A	B	C	D	E
W 100 Fi	3 ft 3 in (1,000 mm)	5 ft 3 in (1,600 mm)	8 ft 4 in (2,540 mm)	6 ft 11 in (2,120 mm)	6 ft 5 in (1,945 mm)	13 in (335 mm)
W 120 Fi	3 ft 11 in (1,200 mm)	5 ft 4 in (1,620 mm)	8 ft 9 in (2,660 mm)	7 ft 4 in (2,230 mm)	6 ft 10 in (2,095 mm)	12 in (295 mm)
W 130 Fi	4 ft 3 in (1,300 mm)	5 ft 3 in (1,600 mm)	9 ft 1 in (2,760 mm)	7 ft 8 in (2,330 mm)	7 ft 3 in (2,210 mm)	12 in (295 mm)

¹⁾ Folding discharge conveyor, short

²⁾ Based on operating weight, CE with conveyor folded out

SIDE VIEW / TOP VIEW W 100 Fi, W 120 Fi, W 130 Fi WITH WHEELED CHASSIS



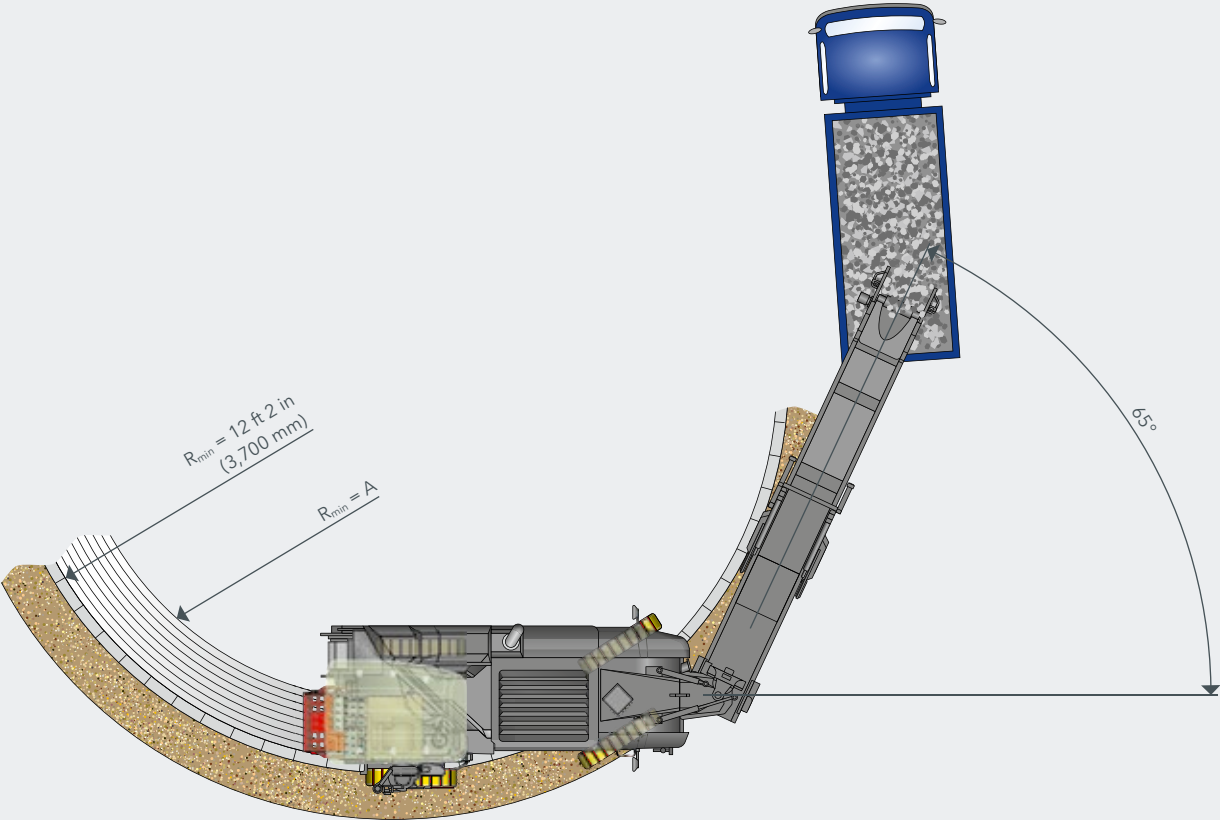
W 100 Fi, W 120 Fi, W 130 Fi with operator's cabin

	FB	A	B	C	D	E
W 100 Fi	3 ft 3 in (1,000 mm)	5 ft 3 in (1,600 mm)	8 ft 4 in (2,540 mm)	6 ft 11 in (2,120 mm)	6 ft 4 in (1,925 mm)	13 in (340 mm)
W 120 Fi	3 ft 11 in (1,200 mm)	5 ft 4 in (1,620 mm)	8 ft 9 in (2,660 mm)	7 ft 4 in (2,230 mm)	6 ft 10 in (2,075 mm)	11 in (290 mm)
W 130 Fi	4 ft 3 in (1,300 mm)	5 ft 3 in (1,600 mm)	9 ft 1 in (2,760 mm)	7 ft 8 in (2,330 mm)	7 ft 2 in (2,190 mm)	11 in (290 mm)

¹⁾ Folding discharge conveyor, short

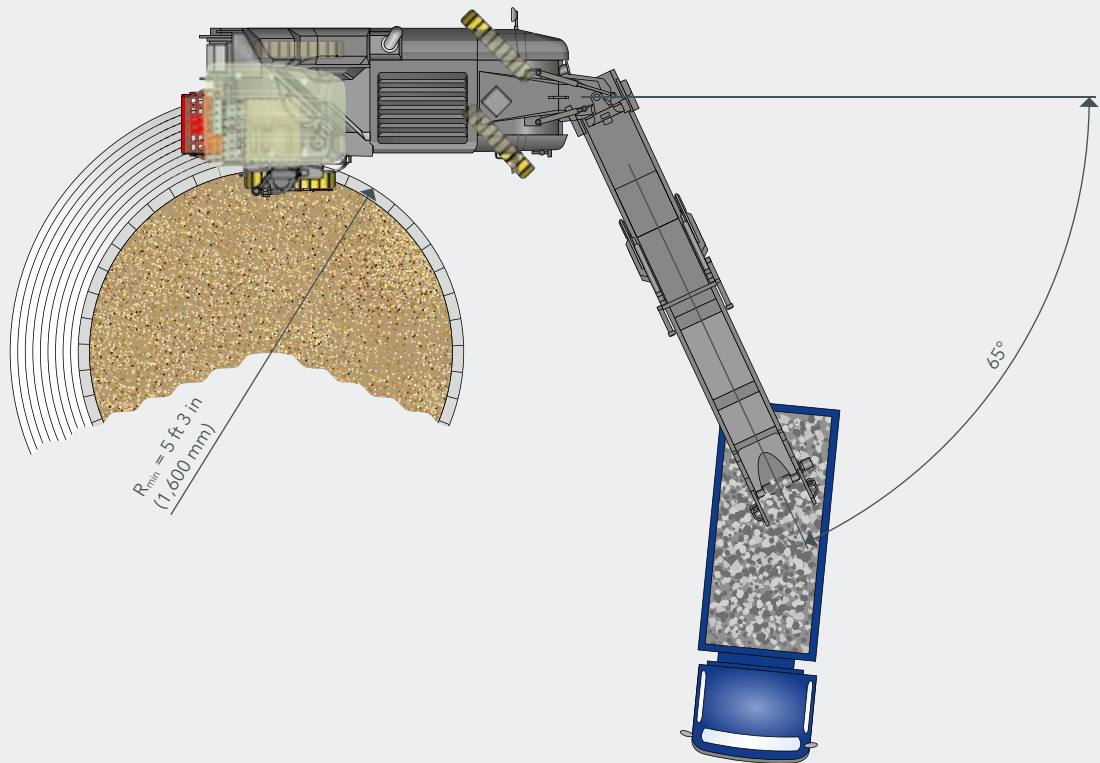
²⁾ Based on operating weight, CE with conveyor folded out

MILLING RADIUS W 100 Fi, W 120 Fi, W 130 Fi AT MILLING DEPTH OF 6 IN (150 MM)



	FB	A
W 100 Fi	3 ft 3 in (1,000 mm)	8 ft 10 in (2,700 mm)
W 120 Fi	3 ft 11 in (1,200 mm)	8 ft 2 in (2,500 mm)
W 130 Fi	4 ft 3 in (1,300 mm)	8 ft 2 in (2,500 mm)

MILLING RADIUS W 100 Fi, W 120 Fi, W 130 Fi AT MILLING DEPTH OF 6 IN (150 MM)



STANDARD EQUIPMENT	W 100 Fi	W 120 Fi	W 130 Fi
Basic Machine			
> Base machine with engine	■	■	■
> Electrohydraulically opening engine cowling	■	■	■
> Radiator with temperature-dependent fan speed	■	■	■
> Highly effective noise insulation throughout the engine compartment	■	■	■
> Automatic engine speed adjustment depending on machine load	■	■	■
> Elastically mounted engine station with low vibration and low noise	■	■	■
Milling Drum Unit			
> The right-hand side of the milling drum housing can be easily opened for maintenance or drum change	■	■	■
> Hydraulically operated rear scraper with mechanical locking	■	■	■
> Milling drum housing FB1000 (3 ft 3 in)	□	—	—
> Milling drum housing FB1200 (3 ft 11 in)	—	□	—
> Milling drum housing FB1300 (4 ft 3 in)	—	—	□
> Active floating position for the side plates, left and right	□	□	□
> Version with a one-piece water spray bar	□	□	□
> Version without a material scraper	□	□	□
> FCS tandem scraper	□	□	□
Milling Drums			
> FCS Milling drum FB1000 (3 ft 3 in) HT22 PLUS LA15 with 95 picks	□	—	—
> FCS Milling drum FB1200 (3 ft 11 in) HT22 PLUS LA15 with 109 picks	—	□	—
> FCS Milling drum FB1300 (4 ft 3 in) HT22 PLUS LA15 with 115 picks	—	—	□
> Milling drum rotation device	□	□	□
Loading of the Milled Material			
> Discharge conveyor slewing angle left 65 degrees - right 65 degrees	■	■	■
> Hydraulically foldable discharge conveyor with two swing speeds, including adjustable conveyor speed for precise loading	■	■	■
> Machine with hydraulic pre-fitting for a discharge conveyor - screw coupling	□	□	□
> Discharge conveyor, 26 ft 9 in (8,150 mm) long, 2 ft (600 mm) wide, with hydraulic folding device	□	□	□
> Version without VCS extraction system	□	□	□
> Version without swivel angle control for the discharge conveyor	□	□	□
Machine Control and Leveling System			
> Digital milling depth indicator on machine control panel	■	■	■
> LEVEL PRO ACTIVE leveling system right and left	■	■	■
> RAPID SLOPE cross-slope sensor for LEVEL PRO ACTIVE leveling system	■	■	■
> Precise machine height adjustment in increments of 1 or 5 mm via the machine's main control panel	■	■	■
> Advance drive with electronic traction control system	■	■	■
> Automatic water management	■	■	■
> Version without leveling boom	□	□	□
> Version without level control 3D leveling pre-equipment	□	□	□

STANDARD EQUIPMENT	W 100 Fi	W 120 Fi	W 130 Fi
Operator's Platform			
> Hydraulically extendable operator's platform for optimum view of the working area	■	■	■
> Steering console adjustable in inclination which enables the operator's platform to be ideally adjusted to suit the operator	■	■	■
> Slender machine design permits unobstructed view of the milled edge as well as the working area in front of the milling drum on the right	■	■	■
> Conveniently accessible ladder / footstep to the operator's platform with night-time lighting and especially low bottom edge of the latter / footstep	■	■	■
> Robust anti-vandalism protection for the controls	■	■	■
> Mirror package including front left and right rear-view mirrors, a forward-facing mirror to the left of the operator's platform, and a mirror for the area in front of the left front crawler unit	■	■	■
> Reversing horn with clearly audible signal	■	■	■
> Illuminated control panel / nighttime design	■	■	■
> Scraper height indicator on control panel	■	■	■
> Premium operator's platform, hydraulically movable	□	□	□
> Version without weather canopy and without lateral weather protection elements	□	□	□
> Version of operator's platform without heating	□	□	□
Track Unit and Height Adjustment			
> Dual-speed hydraulic height adjustment of front and rear track units	■	■	■
> ISC - intelligent track speed control including hydraulic four-track drive	■	■	■
> Reversing with the milling drum rotating. Simple and fast maneuvering	■	■	■
> Equipped with extremely wear-resistant 2-piece polyurethane track pads	■	■	■
> 4 driven track units	□	□	□
Miscellaneous			
> Large tool package	■	■	■
> Towing device	■	■	■
> Generously sized water and diesel tanks	■	■	■
> Comprehensive safety package with several EMERGENCY STOP switches	■	■	■
> "Welcome-and-Go-Home-Light" feature including LED lighting in the area of the operator's platform and access	■	■	■
> Hydraulically driven water filler pump used to fill the water tank with a suction hose, maximum flow-through quantity of 55.5 gal/min (210 l/min)	■	■	■
> European type certification, EuroTest mark and CE conformity	■	■	■
> Standard film coating in RAL 9001 (cream)	□	□	□
> WITOS - professional telematics solution for machine operation and service optimization	□	□	□
> Standard LED lighting package with 14,050 lumen	□	□	□
> Premium electro-hydraulic unit	□	□	□
> Execution without additional weight	□	□	□
> Version without compressed air system	□	□	□
> MILL ASSIST assistance system	□	□	□
> Monitor system with 2 cameras and a 7" control panel	□	□	□
> Version without extended lighting equipment	□	□	□

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

OPTIONAL EQUIPMENT	W 100 Fi	W 120 Fi	W 130 Fi
Milling Drum Unit			
> Milling drum housing FB1000 (3 ft 3 in) Premium	<input type="checkbox"/>	—	—
> Milling drum housing FB1200 (3 ft 11 in) Premium	—	<input type="checkbox"/>	—
> Milling drum housing FB1300 (4 ft 3 in) Premium	—	—	<input type="checkbox"/>
> Overload sensor on the scraper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> Wear-protection rollers for right side plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> Sectional, electrically switchable water spray bar	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> Hydraulic material scraper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Milling Drums			
> Milling drum FB1000 (3 ft 3 in) HT22 PLUS LA15 with 95 picks	<input type="checkbox"/>	—	—
> Milling drum FB1200 (3 ft 11 in) HT22 PLUS LA15 with 109 picks	—	<input type="checkbox"/>	—
> Milling drum FB1300 (4 ft 3 in) HT22 PLUS LA15 with 115 picks	—	—	<input type="checkbox"/>
> Milling drum FB1000 (3 ft 3 in) HT22 PLUS LA18 with 88 picks	<input type="checkbox"/>	—	—
> Milling drum FB1200 (3 ft 11 in) HT22 PLUS LA18 with 100 picks	—	<input type="checkbox"/>	—
> Milling drum FB1300 (4 ft 3 in) HT22 PLUS LA18 with 105 picks	—	—	<input type="checkbox"/>
> FCS milling drum FB1000 (3 ft 3 in) HT22 PLUS LA15 with 95 picks	<input type="checkbox"/>	—	—
> FCS milling drum FB1200 (3 ft 11 in) HT22 PLUS LA18 with 100 picks	—	<input type="checkbox"/>	—
> FCS milling drum FB1300 (4 ft 3 in) HT22 PLUS LA18 with 105 picks	—	—	<input type="checkbox"/>
> FCS milling drum FB1000 (3 ft 3 in) HT22 PLUS LA8 with 149 picks	<input type="checkbox"/>	—	—
> FCS milling drum FB1200 (3 ft 11 in) HT22 PLUS LA8 with 174 picks	—	<input type="checkbox"/>	—
> FCS milling drum FB1300 (4 ft 3 in) HT22 PLUS LA8 with 185 picks	—	—	<input type="checkbox"/>
> FCS milling drum FB1000 (3 ft 3 in) HT5 LA6X2 with 340 picks	<input type="checkbox"/>	—	—
> FCS milling drum FB1200 (3 ft 11 in) HT5 LA6X2 with 410 picks	—	<input type="checkbox"/>	—
> FCS milling drum FB1300 (4 ft 3 in) HT5 LA6X2 with 444 picks	—	—	<input type="checkbox"/>
> FCS milling drum FB1000 (3 ft 3 in) HT22 PLUS LA25 with 83 picks	<input type="checkbox"/>	—	—
> FCS milling drum FB1200 (3 ft 11 in) HT22 PLUS LA25 with 87 picks	—	<input type="checkbox"/>	—
> FCS milling drum FB1300 (4 ft 3 in) HT22 PLUS LA25 with 91 picks	—	—	<input type="checkbox"/>
> FCS milling unit FB300 (12 in) HT22 PLUS LA12 with 61 picks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> FCS milling unit FB600 (2 ft) HT22 PLUS LA12 with 79 picks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> FCS milling unit FB900 (2 ft 11 in) HT22 PLUS LA15 with 102 picks	—	<input type="checkbox"/>	<input type="checkbox"/>
> Milling drum assembly trolley to FB1300 (4 ft 3 in)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> Assembly kit for moving the FCS milling drum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> Hydraulically driven pick extractor drift	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> Pneumatic hammer with pick extractor / inserter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

OPTIONAL EQUIPMENT	W 100 Fi	W 120 Fi	W 130 Fi
Loading Of The Milled Material			
> Shortened discharge conveyor, 21 ft 4 in (6,500 mm) long, 2 ft (600 mm) wide, with hydraulic folding device	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> Signal lights for visual "stop" and "go" instructions for the truck driver	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> VCS extraction system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> Active Conveyor swing angle control for discharge conveyor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Machine Control and Leveling System			
> Leveling boom including sensor for LEVEL PRO ACTIVE leveling system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> Extension of LEVEL PRO ACTIVE with two leveling booms and one Sonic-Ski sensor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> Multiplex preliminary equipment consisting of 2 sensor sockets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> 3-way multiplex system, right, including 2 ultrasonic sensors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> 3-way multiplex system, right and left, including 4 ultrasonic sensors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> Level control 3D leveling pre-equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> Extension of LEVEL PRO ACTIVE with a linear laser sensor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operator's Platform			
> Operator's platform with weather canopy and lateral weather protection elements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> Operator's platform heater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Track Unit and Height Adjustment			
> 4 driven wheeled chassis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Miscellaneous			
> Film coating according to the customer's wishes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> Air compressor system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> Electrical fuel system preheating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> User-specific saving of machine settings via SMART KEY key fob	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> Monitor system with 5 cameras and a 10" control panel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> Expanded lighting equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
> License plate holder with LED lighting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

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