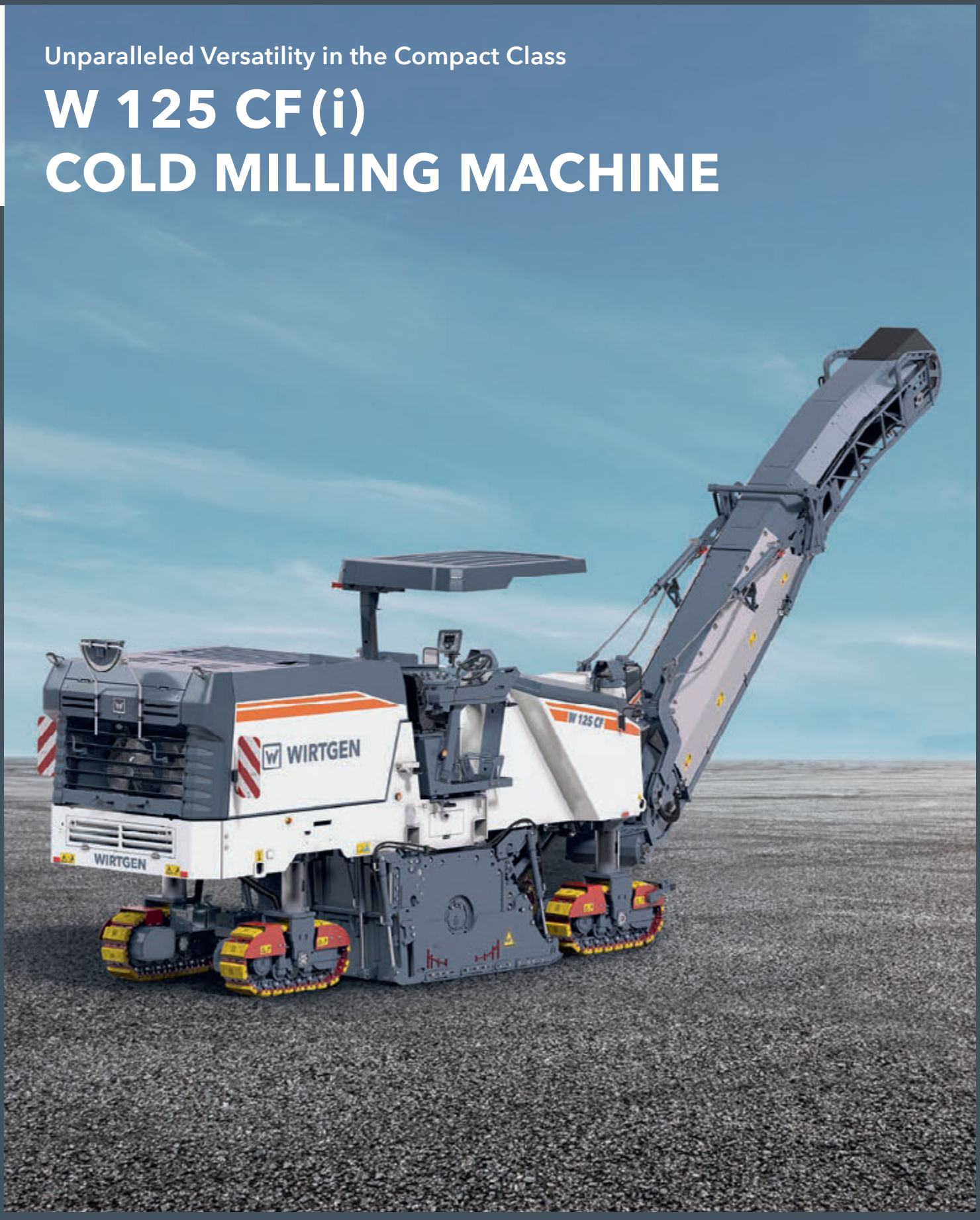
A WIRTGEN GROUP COMPANY

WIRTGEN

Unparalleled Versatility in the Compact Class

W 125 CF (i)
COLD MILLING MACHINE



UNPARALLELED VERSATILITY IN THE COMPACT CLASS

The W 125 CF(i) is the most versatile cold milling machine in the compact milling machine class.

With a standard milling width of 1.2 m, the front loader perfectly combines maximum engine power and suitability for a wide range of applications.

FCS complete option with FB600, FB900 and FB1200 milling drums provides additional versatility, e.g. removal of an asphalt shoulder for road widening.

In combination with the compact, clearly laid-out chassis, the maneuverable W 125 CF(i) is also suitable for site conditions with limited space.

One-man operation enables efficient work in all on-site situations.

In addition to an optimized machine-weight-to engine-performance ratio, the favorable machine weight enables easy transportation without the need for a special permit.

WIRTGEN COLD MILLING MACHINES

SMALL COLD MILLING MACHINES
> Working width up to 1,300 mm
> Working depth up to 300 mm

COMPACT COLD MILLING MACHINES
> Working width up to 1,900 mm
> Working depth up to 330 mm

LARGE COLD MILLING MACHINES
> Working width up to 4,400 mm
> Working depth up to 350 mm

WIRTGEN

HIGHLIGHTS AT A GLANCE

Perfectly Equipped

OPERATION

01 Ease of Operation

> Proven one-man operating concept featuring operator's platform with ergonomic multi-functional armrest
> Informative, full-color control panel in different languages
> Wide range of automated functions for reduced operator's workload and fatigue
> Optimized LED headlights and "Go home" lighting for maximum visibility at night

02 Maximum Precision with LEVEL PRO *PLUS*

> Universal **LEVEL PRO *PLUS*** leveling system as standard equipment of WIRTGEN cold milling machines
> Integrated **LEVEL PRO *PLUS*** with numerous sensors
> Single-handed operation of **LEVEL PRO *PLUS***
> Milling depth measurement via displacement sensors installed in the hydraulic side plate cylinders
> Optional high-precision RAPID SLOPE sensor

DRIVING AND STEERING

03 Highest Traction with High-Speed Crawler Tracks

> PTS – automatic machine alignment parallel to surface
> Up to 7.5 km/h travel speed
> ISC – Intelligent Speed Control system for optimum traction and low track pad wear
> Automatic load control system for optimum working speed

04 New Level of Agility with Tightest Turning Radii

> Large steering angles for maximum agility and tightest turning radii
> High-precision conveyor control via joystick in multifunctional armrest
> Intelligent speed adjustment of the inner and outer crawler tracks for low track pad wear when maneuvering in bends
> High-quality camera system with two cameras for monitoring important working areas

MILLING AND LOADING

05 Impressive Milling Performance in a Wide Range of Applications

> Highly wear resistant Flexible Cutting System (FCS) with possible cutting widths FB600, FB900 or FB1200 for a very wide range of applications
> Excellent milling drum design with high performance cutting tool positioning
> Best-in-class highly wear-resistant **HT22** toolholder system
> Milling drum rotation device for rapid pick replacement

06 High Loading Volume with Maximum Flexibility

> Front-loading conveyor with slewing angles of 60° to left and right
> Hydraulically folding conveyor reduces machine length for transportation
> Performance-optimized, adjustable conveyor belt speed
> Optional VCS vacuum cutting system

PERFORMANCE AND EFFICIENCY

07 Environmental Friendliness and Sustainability

> High-performance engine with state-of-the-art speed control for low diesel consumption and reduced CO_2 emissions
> Load-dependent water consumption for drier RAP and optimized CO_2 balance
> Minimized noise emissions through effective noise insulation and dual fan concept
> Efficient servicing and maintenance concept

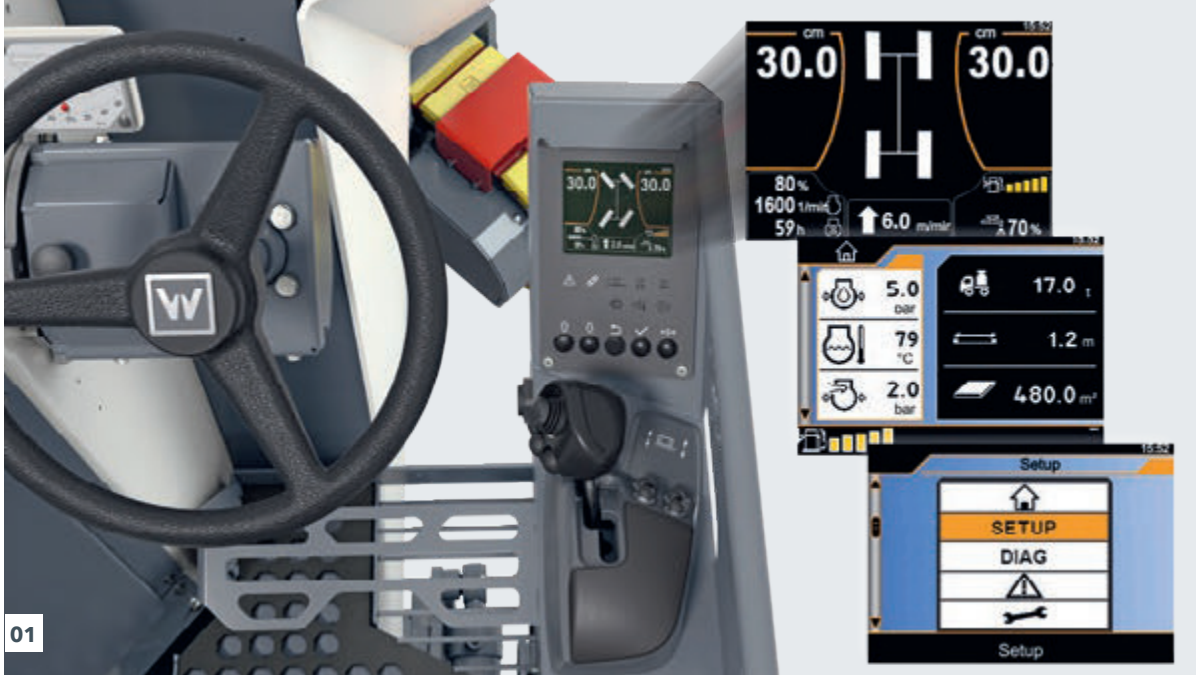
08 Maximum Efficiency for Tremendous Productivity

> Impressive engine performance with high maximum torque
> Three different milling drum speeds for maximum efficiency in all applications
> Automatic engine idle mode for reduced diesel consumption and CO_2 emissions

OPERATION

Always Makes the Grade
LEVEL PRO ***PLUS***

Everything under Control
Ergonomic multifunctional armrest



01

01 Clearly structured color control screens provide important machine and operation parameters. The operator has everything under control with just one hand.

01 Proven One-Man Operating Concept featuring Operator's Platform with Ergonomic Multifunctional Armrest

The operator's platform ensures efficient one-man operation, because the ergonomic, easy-to-handle controls are arranged in a clear pattern and in line with application requirements. The right armrest with integrated robust colored control display combines innovative design with perfect user-friendliness. Many important machine features are aligned together intelligently on the ergonomically designed multifunctional joystick and can therefore be used with effortless ease.

02 Informative, Full-Color Control Panel in Different Languages

Important data such as travel speed and working pressure are displayed in many different languages.

03 Wide Range of Automated Functions for Reduced Operator's Workload and Fatigue

Many automatic and additional functions make the operator's job easier. This also speeds up work processes.

04 Optimized LED Headlights and "Go Home" Lighting for Maximum Visibility at Night

Perfectly arranged working lights make sure that the machine's entire surroundings are fully lit and the operator always has a perfect view. In addition, the access ladder and operator's platform can be brightly illuminated when walking away from the machine.

05 Universal LEVEL PRO *PLUS* Leveling System as Standard Equipment of WIRTGEN Cold Milling Machines

LEVEL PRO *PLUS* leveling system stands out due to its precise milling results. It is used in many current series of WIRTGEN cold milling machines.

06 Integrated LEVEL PRO *PLUS* with Numerous Sensors

LEVEL PRO *PLUS* is fully integrated into the machine control system. Different sensors are available to meet the wide range of accuracy requirements of the surfaces being processed.

07 Single-Handed Operation of LEVEL PRO *PLUS*

LEVEL PRO *PLUS* combines easy and intuitive single-handed operation. The menu can be configured as desired.

08 Milling Depth Measurement via Displacement Sensors Installed in the Hydraulic Side Plate Cylinders

The reference line is scanned via heavy-duty displacement sensors built into the hydraulic side plate cylinders and displayed directly on the high-resolution **LEVEL PRO *PLUS*** control panel.

High-Precision RAPID SLOPE Sensora

The electronic RAPID SLOPE sensor developed in house ensures that the cross-slope profile is extremely precise. The cross-slope sensor enables 100% higher working speeds compared to similar sensors while maintaining the same leveling quality.

DRIVING AND STEERING

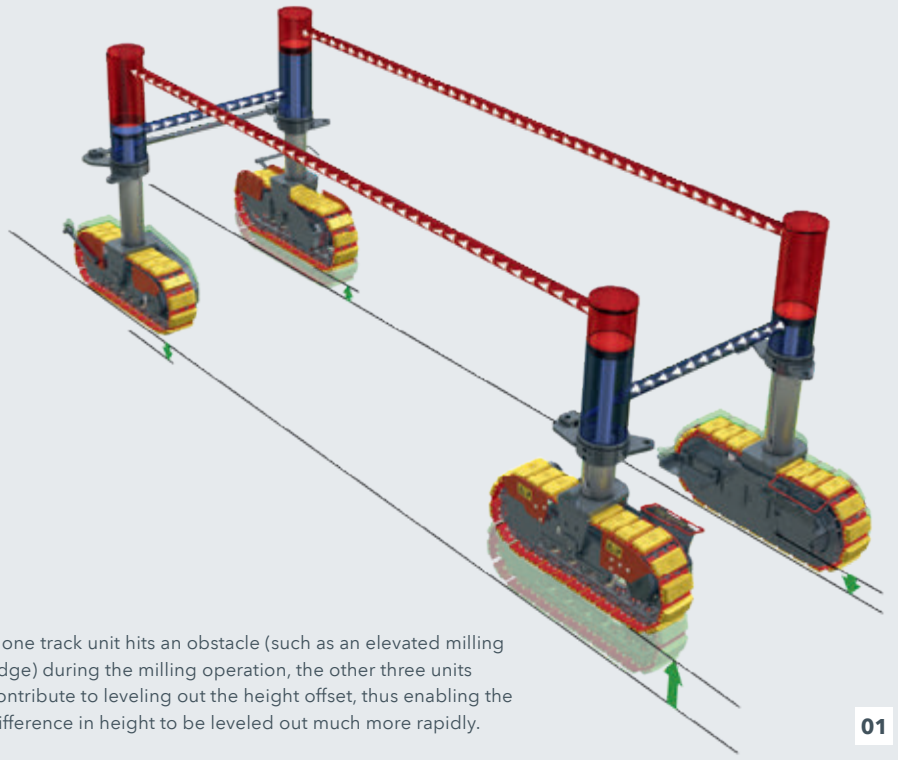
01 **PTS – Automatic Machine Alignment Parallel to Surface**

The intelligent automatic PTS system aligns the machine parallel to the road surface in a dynamic process without requiring manual intervention by the machine operator. In addition, the fourfold full-floating axle quickly and reliably compensates for any irregularities transverse to the direction of travel. Surface irregularities are leveled out by the machine's four hydraulically interlinked lifting columns. This guarantees significantly improved machine stability compared to a double floating axle.

PTS
Automatically parallel to the surface

Fourfold Full-Floating System
High machine stability

01 Surface irregularities are leveled out by the machine's four hydraulically interlinked lifting columns.



If one track unit hits an obstacle (such as an elevated milling edge) during the milling operation, the other three units contribute to leveling out the height offset, thus enabling the difference in height to be leveled out much more rapidly.

01

02 Up to 7.5 km/h Travel Speed

High travel speeds of up to 7.5 km/h permit fast transport between two job locations.

03 ISC – Intelligent Speed Control System for Optimum Traction and Low Track Pad Wear

The ISC electronic speed control system prevents the slip of individual track units in case of insufficient grip, reduces track pad wear to a minimum, and ensures optimum traction on any surface.

04 Automatic Load Control System for Optimum Working Speed

The electronic engine load control integrated into the machine control system constantly keeps the machine at maximum working speed. This ensures optimum milling performance depending on load changes.

05 Large Steering Angles for Maximum Agility and Tightest Turning Radii

Symmetrically large steering angles to the left and right guarantee tight turning radii and thus rapid maneuvering in any job situation, even in tight spaces.

06 High-Precision Conveyor Control via Joystick in Multifunctional Armrest

The highly responsive hydraulic steering system allows the operator to steer the front-loading conveyor precisely and smoothly via joystick positioned in the multifunctional armrest.

07 Intelligent Speed Adjustment of the Inner and Outer Crawler Tracks for Low Track Pad Wear when Maneuvering in Bends

The computer-controlled speed adjustment regulates the speed difference of the inner and outer track units when maneuvering in bends to keep track pad wear to a minimum.

08 High-Quality Camera System with Two Cameras for Monitoring Important Working Areas

The camera / monitor system consists of two cameras and a rugged monitor. The monitor displays the high-resolution images of the area behind the machine and the left side of the machine.

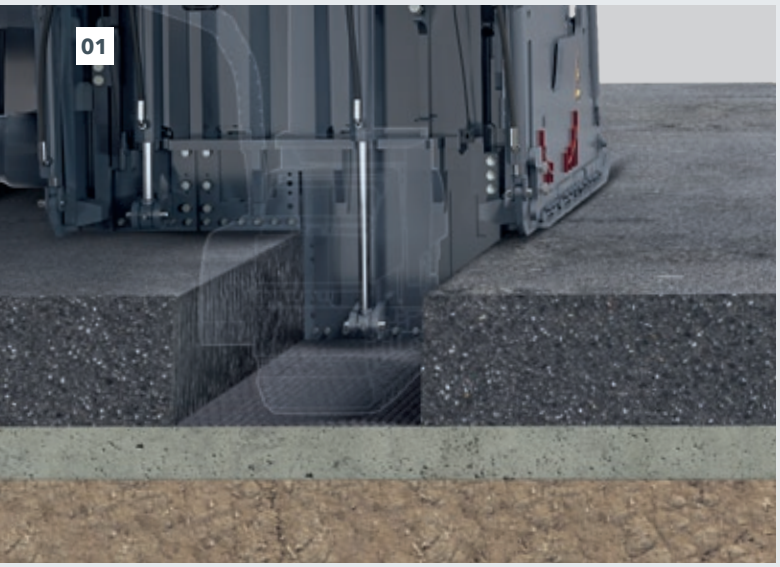
MILLING AND LOADING

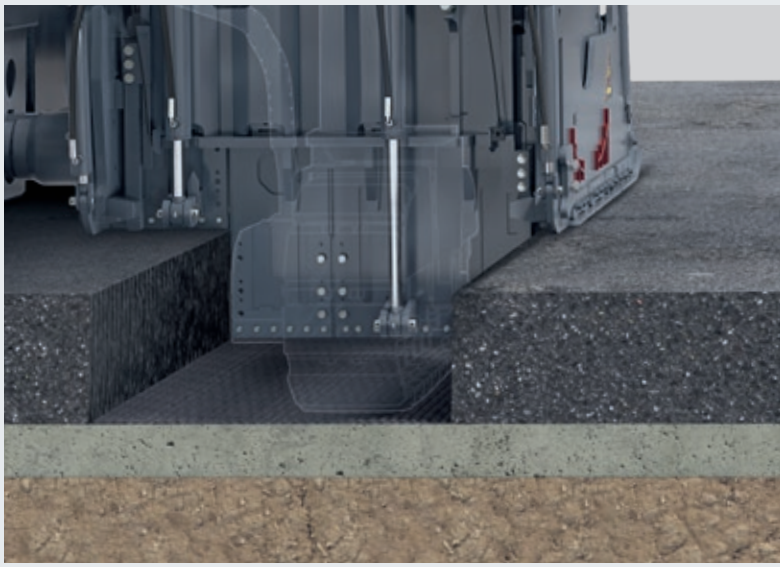
01 **Highly Wear Resistant Flexible Cutting System (FCS) with Possible Cutting Widths FB600, FB900 or FB1200 for a very Wide Range of Applications**

The milling drum housing has been manufactured from highly wear resistant steel plates for an extended service life. The complete FCS package offers use with milling drums of different working widths. In addition to the typical jobs of a compact milling machine at a milling width of 1,200 mm, the W 125 CF(i) copes trench cutting and removal of road shoulders when widening roads at milling widths of 600 mm and 900 mm. The scraper blade can simply be adjusted to the specific milling width, thus allowing optimal loading of the granulated material.

02 **Excellent Milling Drum Design with High-Performance Cutting Tool Positioning**

The innovative, specially designed edge rings are equipped with fewer cutting tools while at the same time producing even more accurate milling edges.





Standard milling drum (additional)

Milling width:	600 mm
Milling depth:	0 – 330 mm
Tool spacing:	18 mm

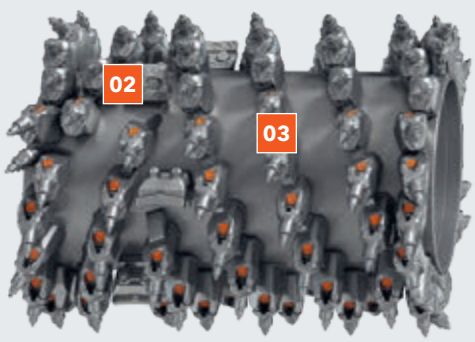
Standard milling drum (additional)

Milling width:	900 mm
Milling depth:	0 – 330 mm
Tool spacing:	18 mm

Additional Widths, Additional Jobs
Flexible Cutting System

Quickly Clear Away the Milled Material
High-performance loading

01 The milling drum unit features a variety of valuable, innovative features, and can achieve milling depths of up to 330 mm. FCS with possible cutting widths FB600, FB900 or FB1200 allows additional versatility. **02** High-performance loading of the milled material.



Standard milling drum

Milling width:	1,200 mm
Milling depth:	0 – 330 mm
Tool spacing:	18 mm

03 **Best-in-Class, Highly Wear-Resistant HT22 Toolholder System**

The **HT22** toolholder system optimizes the cutting process for less cutting resistance and wear to minimize machine downtime and increase the service life of the entire milling drum.

04 **Milling Drum Rotation Device for Rapid Pick Replacement**

The hydraulically operated milling drum rotation device makes it easier and quicker to change picks.

05 **Front-Loading Conveyor with Slewing Angles of 60° to Left and Right**

Wide conveyor swing angles of 60° to both sides allow material loading even in difficult situations, e.g. in traffic intersections or in restricted space conditions.

06 **Hydraulically Folding Conveyor Reduces Machine Length for Transportation**

The hydraulically folding conveyor can be folded away quickly for easy transport and to adapt to site conditions.

07 **Performance-Optimized, Adjustable Conveyor Belt Speed**

The conveyor belt speed can be adjusted in line with requirements: from slow, low wear operation to maximum loading capacity at high conveying speed to load even oversize trucks.

O **Optional VCS Vacuum Cutting System**

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

MILLING AND LOADING

01

HT22 Toolholder System

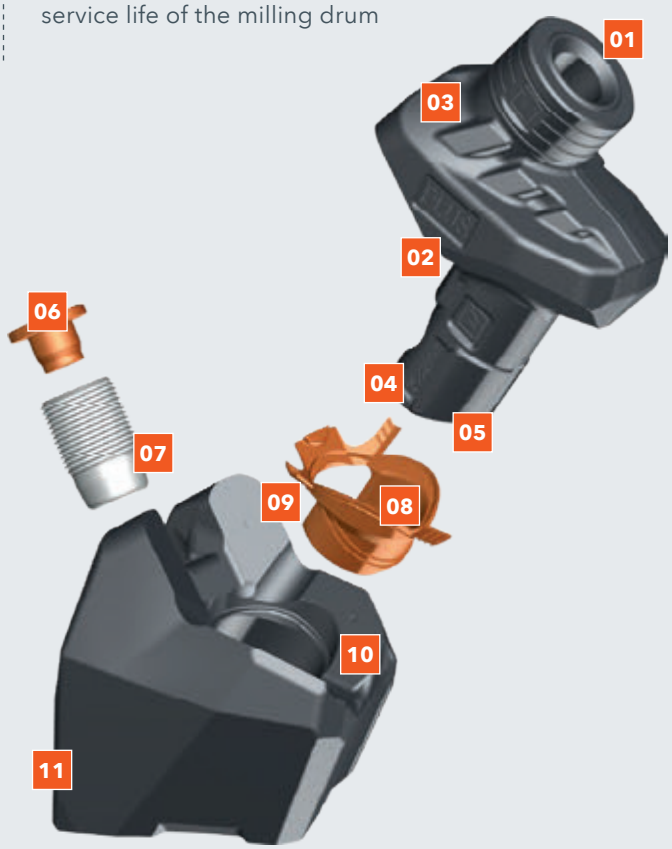
The **HT22** toolholder system stands out for its use of highly wear-resistant steel, increased wear resistance, and significantly extended replacement intervals. The rugged upper part can be replaced quickly and easily right on the job site. The centering imprint on the **HT22 *PLUS*** upper part (optional) optimizes the rotary behavior of the **GENERATION X²** pick and ensures a maximum toolholder service life.

01 The versatile W 125 CF(i) is ideally suited e. g. for removal of an asphalt shoulder for road widening or removal of material at large milling depths.

HT22 Toolholder System in Detail

01 Innovative centering marks on the tool contact surface in combination with **GENERATION *X²*** picks for maximum toolholder service life right from the start

02 Significantly larger, more durable, and self-centering contact surfaces on the top and bottom parts significantly extend the service life of the milling drum



03 Increased wear volume in the shoulder section improves protection of the toolholder base when milling abrasive materials

04 Reduced maintenance requirements due to longer intervals between torque inspections of the quick-change toolholder bolts (every 500 hours)

05 Optimized shaft geometry with additional improved thermal processing to withstand extreme stress

06 Protective plug prevents bolt head from getting dirty

07 Heavy-duty retaining bolt

08 Seal between top and bottom part allows top part to be easily removed / inserted

09 Bottom part covers top part completely for maximum protection

10 Extra-large contact surface between top part and bottom part for longer bottom part service life

11 Optimized welded joint with increased strength and flexibility for optimum pick rotation

PERFORMANCE AND EFFICIENCY

01 **High-Performance Engine with State-of-the-Art Speed Control for Low Diesel Consumption and Reduced CO_2 Emissions**

The engine speed is governed in accordance with the activated features, thus minimizing diesel consumption and CO_2 emissions regardless of the job to be completed.

02 **Load-dependent Water Consumption for Drier RAP and Optimized CO_2 Balance**

The amount of water injected to cool the picks increases automatically relative to the increase in engine load. Less moist milled material due to automatically reduced water spraying increases energy efficiency and saves CO_2 during further processing into recycled mix.

03 **Minimized Noise Emissions through Effective Noise Insulation and Dual Fan Concept**

Effective noise insulation significantly reduces noise emissions. 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 noise emissions and diesel consumption.

04 **Efficient Servicing and Maintenance Concept**

All points of maintenance and inspection have been arranged together in a few locations and offer excellent access to enable quick and easy completion of the maintenance procedures.

Environmentally Friendly Technologies
Lower CO_2 emissions

Powerful Engine
High productivity

Central Milling Drum Design
The machine's center of gravity, which is designed close to the milling drum, ensures high milling performance and high traction of the crawler tracks.

05 **Impressive Engine Performance with High Maximum Torque**

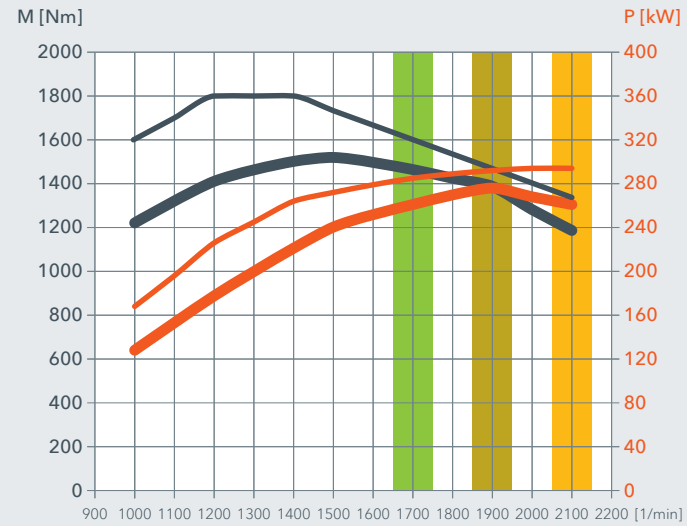
The state-of-the-art diesel engine offers tremendous engine power with high maximum torque. This guarantees rapid, productive operations in every application, even at maximum milling depth.

06 **Three Different Milling Drum Speeds for Maximum Efficiency in all Applications**

Three different milling drum speeds ensure unparalleled milling performance in a wide range of applications. Speed one is selected for low diesel and cutting tool consumption, speed two for maximum milling performance, speed three for the best milling surface quality.

07 **Automatic Engine Idle Mode for Reduced Diesel Consumption and CO_2 Emissions**

In case of low engine performance requirements during downtime or waiting times, the diesel engine is automatically switched to idle mode to save diesel and CO_2 emissions.



Different engine speeds for low diesel consumption and maximum milling performance.

ADDITIONAL VALUABLE OPTIONS

ADDITIONAL OPTIONS THAT CAN BE ORDERED FOR THE BASIC MACHINE

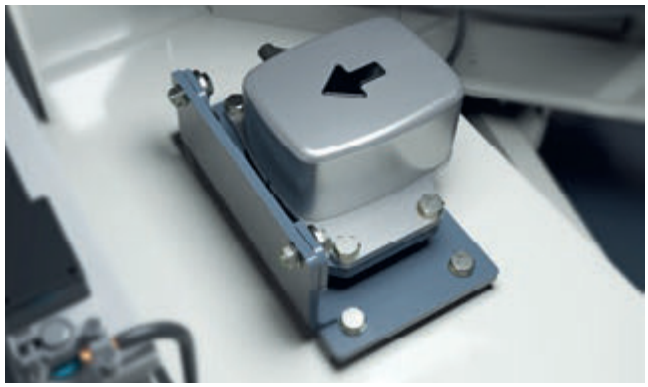
Options can be preinstalled in the standard machine according to customer requirements.

01 Multiplex 3-Way

The multiplex system package consists of two ultrasonic sensors attached on right or left side of the machine. Using the average value of the sensors, the current milling depth is calculated with high precision.

02 RAPID SLOPE Sensor

The **LEVEL PRO *PLUS*** leveling system can be equipped with a RAPID SLOPE sensor. The cross-slope sensor is ideal, for example, for aligning the machine to a one-sided reference at a defined cross-slope.



03 Water Filling Pump

The powerful, hydraulically operated filling pump allows water tank filling with 6.0 m suction hose from the rear of the machine.

04 VCS Vacuum Cutting System

Vacuum cutting system on the discharge conveyor for the extraction of fine material particles and water vapor from the sealed milling drum unit.

AVAILABLE OPTIONS THAT CAN BE ADDED LATER AS A RETROFIT KIT

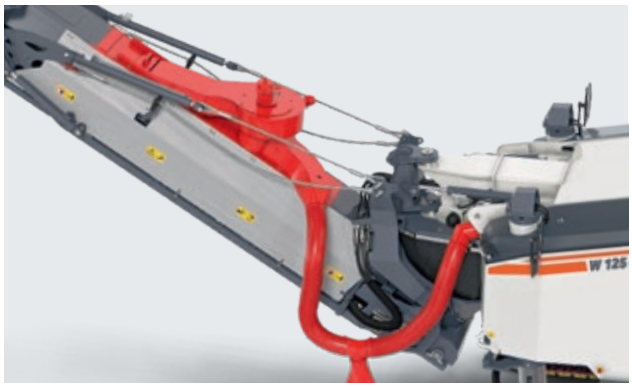
Options can be retrofitted to the machine at any time at the customer's request. WIRTGEN supplies complete retrofit kits for this purpose that can simply be installed in the machine.

01 Multiplex 3-Way Retrofit Kit

02 RAPID SLOPE Sensor Retrofit Kit

03 Water Filling Pump Retrofit Kit

04 VCS Vacuum Cutting System Retrofit Kit



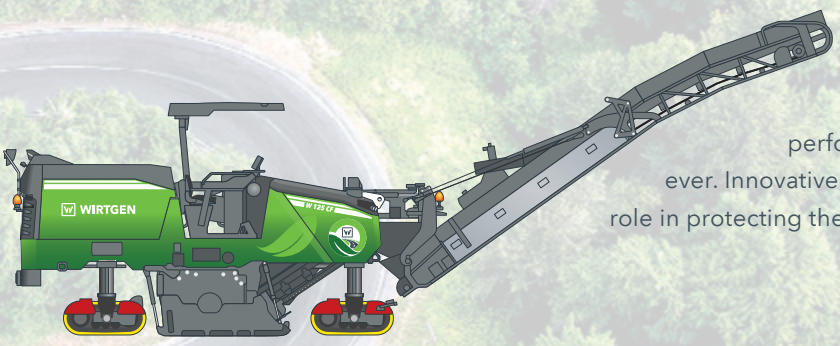
ENVIRONMENTALLY FRIENDLY MACHINE TECHNOLOGY

Minimized Diesel Consumption
Speed-regulated engine, automatic engine idle mode, and three different milling drum speeds for minimized CO_2-emissions

Minimized Water Consumption
Load-dependent water consumption for less moist milled material and minimization of CO_2-emissions during subsequent materials processing

Minimized Pick Consumption
High-performance cutting technology with extremely wear-resistant milling tools minimizes usage of valuable natural resources

Minimized Noise
Effective sound insulation plus intelligent dual fan concept minimizes noise emissions



Improved CO_2 Balance
Minimizing exhaust fumes and noise on job sites while maintaining maximum performance and productivity is more important than ever. Innovative WIRTGEN technologies play an extremely active role in protecting the environment, conserving natural resources, and reducing harmful CO_2 emissions.

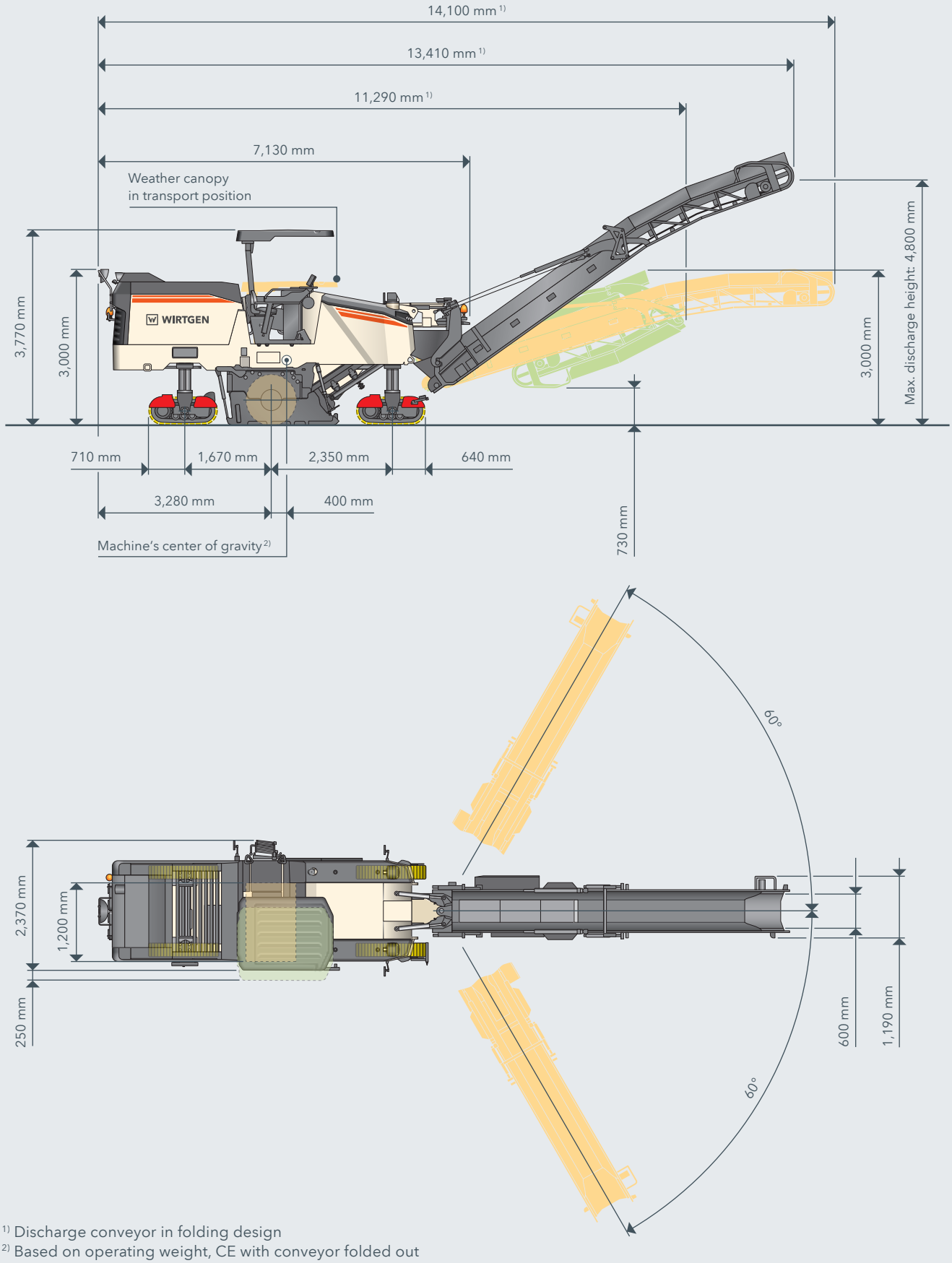
The W 125 CF(i) is the most versatile cold milling machine in the compact milling machine class. With a standard milling width of 1.2 m, the front loader perfectly combines maximum engine power and suitability for a wide range of applications. FCS complete option with FB600, FB900 and FB1200 milling drums provides additional versatility, e.g. removal of an asphalt shoulder for road widening.

TECHNICAL SPECIFICATIONS	W 125 CF	W 125 CFi
Milling Drum		
Standard milling width	1,200 mm	
Milling depth [1]	0 – 330 mm	
Cutting diameter	980 mm	
Engine		
Manufacturer	CUMMINS	CUMMINS
Type	QSL 8.9	L9
Cooling	Water	Water
Number of cylinders	6	6
Rated power at 2,100 rpm	261 kW / 350 hp / 355 PS	294 kW / 394 hp / 400 PS
Maximum power at 1,900 rpm	276 kW / 370 hp / 375 PS	292 kW / 392 hp / 397 PS
Operating power at 1,600 rpm	250 kW / 335 hp / 340 PS	279 kW / 375 hp / 379 PS
Displacement	8.9 l	8.9 l
Fuel consumption at rated power | at mix of job site operations	72 l/h | 29 l/h	76 l/h | 30 l/h
Emissions standard	EU Stage 3a / US EPA Tier 3 / CN Stage 3	CN NR Stage 4
Electrical System		
Power supply	24 V	
Tank Capacities		
Fuel tank	750 l	
AdBlue® / DEF [2]	–	85 l
Hydraulic oil	120 l	
Water	2,250 l	
Driving Performance		
Max. milling speed	0 – 40 m/min (2.4 km/h)	
Max. travel speed	0 – 125 m/min (7.5 km/h)	
Crawler Units		
Track chains front / back (L x W x H)	1,330 x 260 x 550 mm	
Loading of Milled Material		
Belt width of primary conveyor	650 mm	
Belt width of discharge conveyor	600 mm	
Theoretical capacity of discharge conveyor	233 m^3/h	

TECHNICAL SPECIFICATIONS	W 125 CF	W 125 CFi
Weight of Basic Machine		
Empty weight of machine without fluids, including weather canopy	19,600 kg	19,850 kg
Operating weight, CE [3]	21,150 kg	21,400 kg
Maximum operating weight (full tanks, full range of equipment)	23,150 kg	23,400 kg
Weight of Tank Contents		
Water	2,250 kg	
Fuel (0.83 kg/l)	620 kg	
AdBlue® / DEF [2] (1.1 kg/l)	–	93 kg
Additional Weight		
Operator and Tools		
> Machine operator	75 kg	
> 5 pick containers	125 kg	
> Vehicle tool kit	30 kg	
Optional Milling Drums Instead of Standard		
> FCS milling drum FB600 **HT22 *PLUS*** LA18 with 66 picks	68 kg	
> FCS milling unit FB900 **HT22 *PLUS*** LA18 with 82 picks	18 kg	
Optional Additional Equipment		
> VCS extraction system	125 kg	
> Additional weight	1,000 kg	

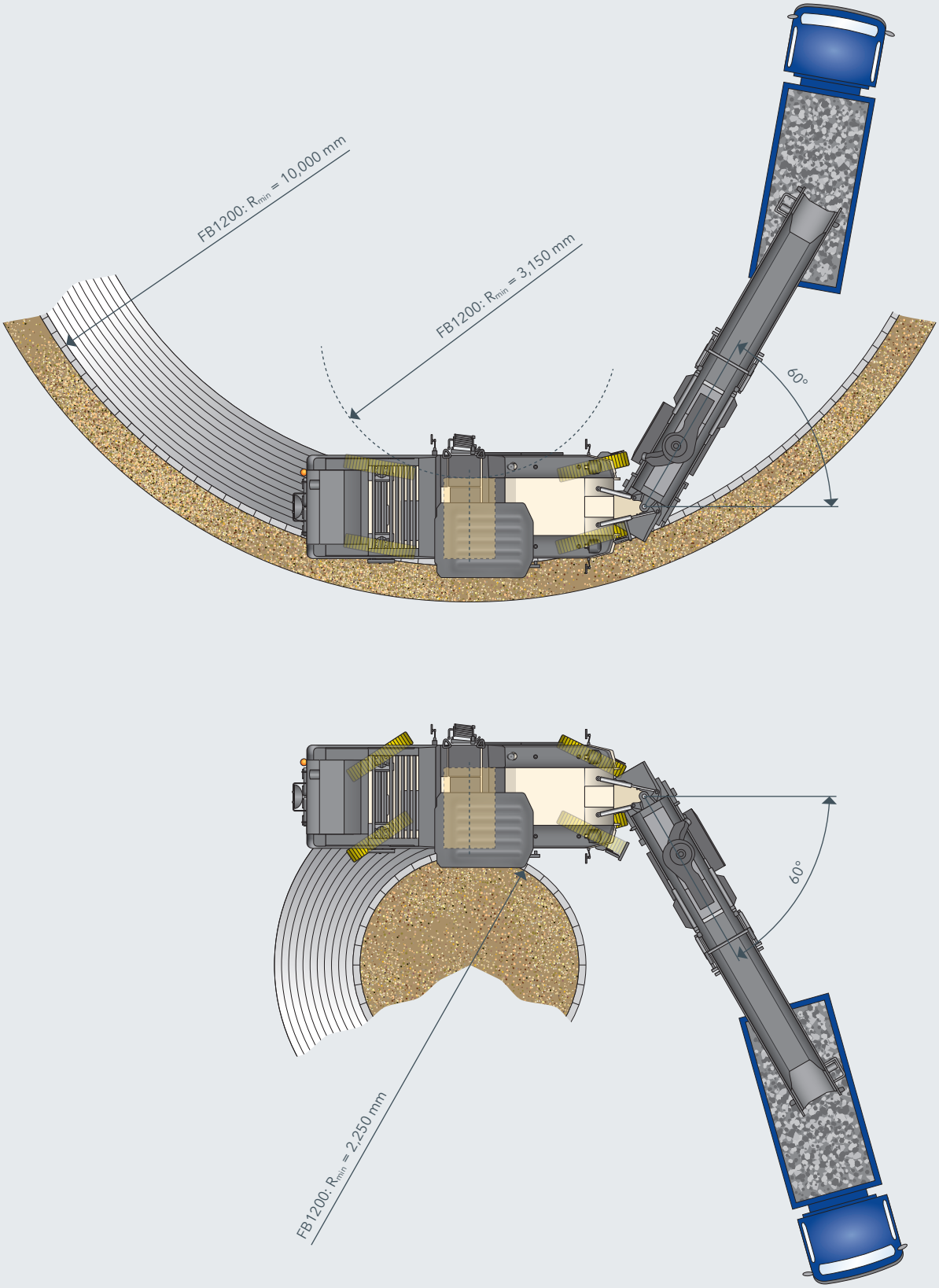
[1] The maximum milling depth may deviate from the value indicated due to tolerances and wear.
[2] AdBlue® is a registered trademark of the German Association of the Automotive Industry (VDA).
[3] Machine weight, half-full tanks, vehicle tool kits, machine operator, excluding optional equipment

SIDE VIEW / TOP VIEW W 125 CF(i)



1) Discharge conveyor in folding design
2) Based on operating weight, CE with conveyor folded out

MILLING RADIUS W 125 CF(i), MILLING DEPTH 150 MM



STANDARD EQUIPMENT W 125 CF(i)

Basic Machine	
> Base machine with engine	■
> Machine chassis with wasp waist on the right side (zero edge)	■
> Hydraulically opening, soundproof engine cowling	■
> Two cooling fans to minimize power consumption of the cooling system	■
> Elastically mounted engine station with low vibration and low noise	■
> Three milling drum rotation speeds with electric on/off function 106 rpm – 96 rpm – 86 rpm	■
Milling Drum Unit	
> The right-hand side of the milling drum housing can be easily opened for maintenance or drum change	■
> Hydraulic material depressor with conveyor lifting function	■
> Hydraulically opening scraper plate with convenience locking	■
> Exchangeable wearing segments on the side plate	■
> Milling drum housing FB1200 FCS	■
Milling Drums	
> Milling drum rotation device	■
> FCS milling drum FB1200 **HT22 *PLUS*** LA18 with 100 picks	■
Loading of the Milled Material	
> Discharge conveyor 7,350 mm long, 600 mm wide, with hydraulic folding device	■
> Hydraulically folding discharge conveyor with an adjustable conveying speed for precise loading	■
> Discharge conveyor slewing angle left 60 degrees - right 60 degrees	■
Machine Control and Leveling System	
> **LEVEL PRO *PLUS*** leveling system right and left	■
> Load-dependent advance control	■
> Automatic water management	■
> Automatic engine speed control	■
Operator´s Platform	
> Convenient control panel with practical switches	■
> Multifunctional armrest including color operating display for one-handed operation of most machine functions	■
> Digital multi-function display for all important operating conditions	■
> Operating panel nighttime lighting	■
> Robust anti-vandalism protection for the controls	■
> Adjustable steering wheel position	■
> Optimally positionable operator's seat	■
> Convenient folding access ladder on the left	■
> Three mirrors front, one mirror middle and one mirror in rear area of the machine	■
> Canopy fiberglass manually lowering	■
> Monitor system with 2 cameras and an additional color screen	■
Track Unit and Height Adjustment	
> 4-track drive with manually activated, electronic anti-slip control	■
> 4 selectable steering modes	■
> Fourfold full-floating axle for high machine stability	■
> PTS – automatic alignment of the machine parallel to the pavement surface	■
> 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	■

STANDARD EQUIPMENT W 125 CF(i)

Miscellaneous	
> Large tool package	■
> Generously sized water and diesel tanks	■
> Total of 3 EMERGENCY STOP switches at sensible positions on the machine	■
> "Go-Home-Light" feature including LED lighting in the area of the operator's platform and access	■
> Standard painting in RAL 9001 (cream)	■
> Job data acquisition in the control display	■

OPTIONAL EQUIPMENT W 125 CF(i)

Milling Drums	
> FCS milling drum FB600 **HT22 *PLUS*** LA18 with 66 picks	□
> FCS milling unit FB900 **HT22 *PLUS*** LA18 with 82 picks	□
Loading of the Milled Material	
> VCS extraction system	□
Machine Control and Leveling System	
> Additional control panel **LEVEL PRO *PLUS***	□
> Multiplex pre-fitting comprising 4 sensor sockets and holder	□
> 3-way multiplex system, right, including 2 ultrasonic sensors	□
> 3-way multiplex system, right and left, including 4 ultrasonic sensors	□
> RAPID SLOPE cross-slope sensor for **LEVEL PRO *PLUS*** leveling system	□
Operator´s Platform	
> Control panel for ground crew	□
Miscellaneous	
> Additional weight 1,000 kg	□
> Hydraulic filling pump for water tank	□

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

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