Keestrack

Keestrack

Performance in every detail

F7 / F8 COLD MILLING MACHINE

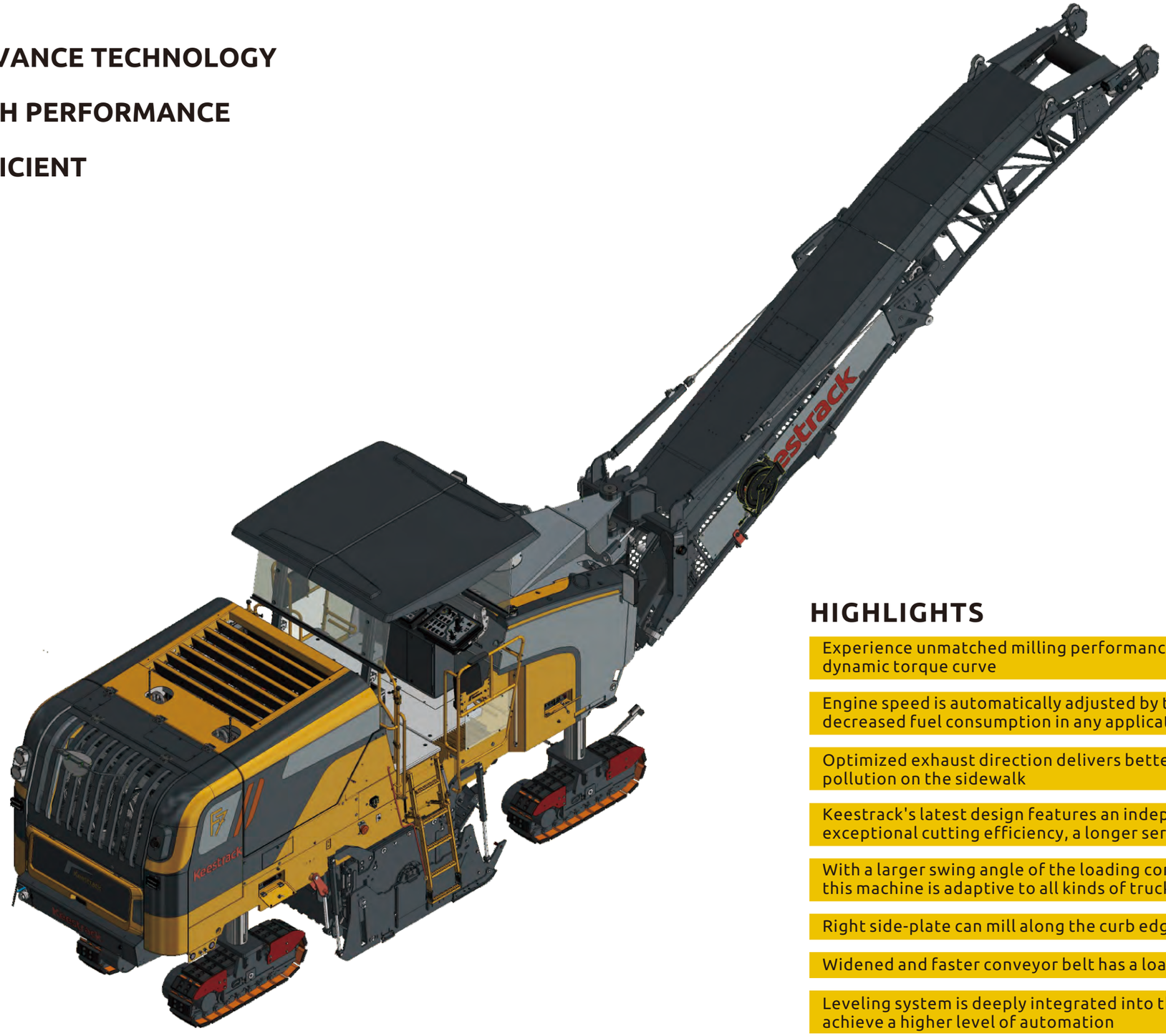
SIMPLE COMPACT POWERFUL EFFICIENT

ADVANCE TECHNOLOGY

HIGH PERFORMANCE

EFFICIENT

F7/F8



HIGHLIGHTS

- Experience unmatched milling performance powerful engine featuring an optimized dynamic torque curve
- Engine speed is automatically adjusted by the active functions, resulting in significantly decreased fuel consumption in any application
- Optimized exhaust direction delivers better protection for the environment and reduces pollution on the sidewalk
- Keestrack's latest design features an independent heavy-duty milling drum that delivers exceptional cutting efficiency, a longer service life, and a wider application range
- With a larger swing angle of the loading conveyor system and higher loading height, this machine is adaptive to all kinds of truck ranges
- Right side-plate can mill along the curb edge with up to 450 mm of lifting stroke
- Widened and faster conveyor belt has a loading capacity
- Leveling system is deeply integrated into the control system, enabling the machine to achieve a higher level of automation
- Standard features include precise leveling cylinder and cross-rope sensors, with optional sonic ski sensors or multiplex scanning available

TECHNICAL SPECIFICATION

CHARACTERISTICS

HIGH PERFORMANCE
- Maximum power output in compliance with stricter emission standards
- Maximum fuel saving and increased efficiency
- Smooth, intelligent, and robust on-site mobility
- Minimized rotor wear and maintenance costs throughout its entire service life

TOUGH MILLING
- Enhanced milling drum and tools
- Toolholder system without bolt
- Easy bit replacement
- 0 mm side-milling
- Maximum material loading for increased productivity
- Higher loading height

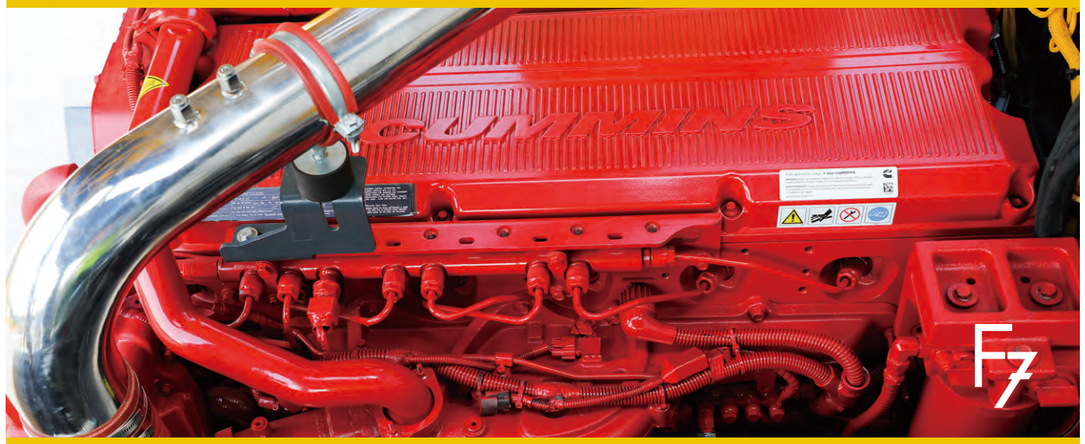
OPTIONAL
- VCS system
- Slope leveling sensor
- Additional leveling controller
- High pressure water cleaning system

INTELLIGENT CONTROL
- Cutting-edge HMI brings maximum machine control for day and night work
- One-click activation for all cutting-related working units
- UI visualization delivers real-time machine information
- Informative system for machine setup and maintenance

USER-FRIENDLY OPERATION PLATFORM
- Comfortable platform for maximum working efficiency in all areas
- Enlarged operating space through optimized water and diesel tank arrangement
- Telescoping side panels provide excellent view of key working areas
- Precise, reliable, and high-precision leveling

Keestrack

POWER



CUMMINS X15 Maximum power @1900 rpm 470kW

PERKINS E18TTA Maximum power @2100 rpm 571Kw

DUAL FAN COOLING

ENGINE

Automatic engine speed management system

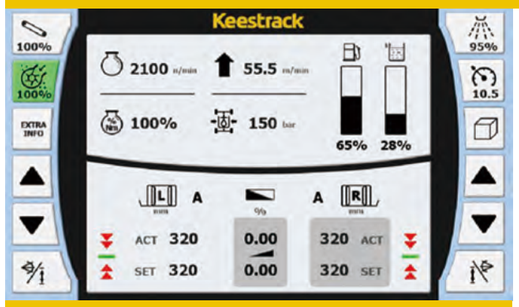
Capable of operating in ambient temperatures of up to 50°C

NEW DESIGN DUAL COOLING FAN SYSTEM

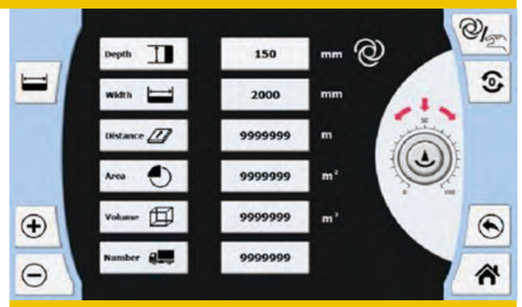
Automatic Fan Control (AFC)

New cooling technology reduces power loss and increases power reserves

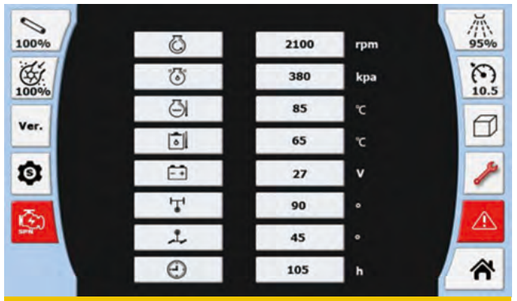
ON BOARD DIAGNOSTIC AND INFORMATION DISPLAY



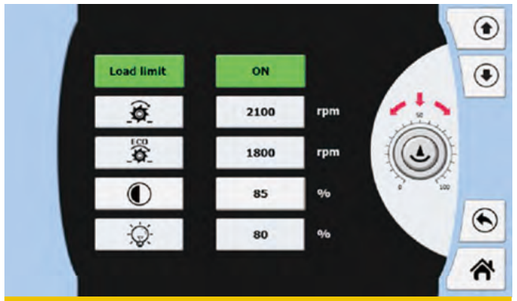
LEVEL CONTROL



JOB SITE RUNS TEST AND RECORD



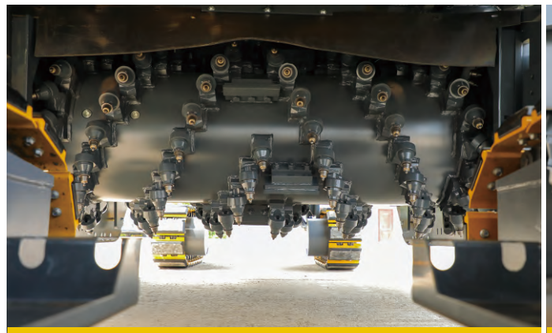
MAINTENANCE INFORMATION DIAGNOSTIC



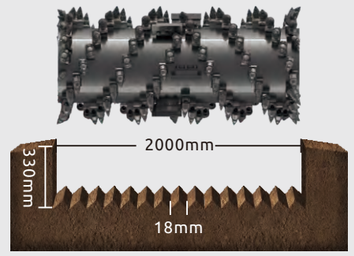
MILLING DRUM SPEED CONTROL

HIGH - PERFORMANCE TOOL HOLDER

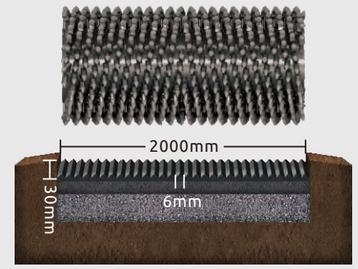
- Friction-free aerodynamic design
- Newly designed inserts for easy extraction of the carbide part from front or back
- Effortless insert removal with shorter shank and a single removal tool
- Notches in the nose for easy front part removal
- Holder's notches and short wedge for easy insert removal
- Longer wear guide on the upper holder and unique cutter drum design for improved durability



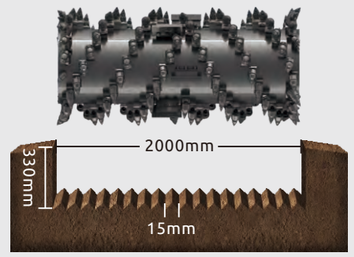
MILLING DRUMS



STANDARD MILLING DRUM 144 CUTTING TOOLS

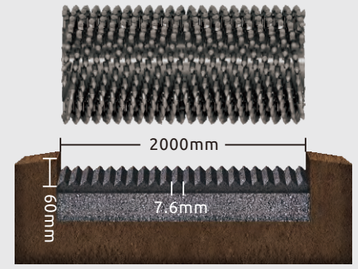


FINE MILLING DRUM 672 CUTTING TOOLS



2m MILLING DRUM 162 CUTTING TOOLS

- Compact, bolt-free holder set
- Minimal time required for bolt checking and retightening
- Easy use and maintenance

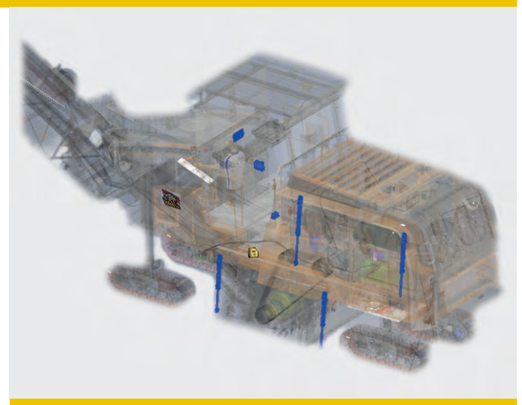


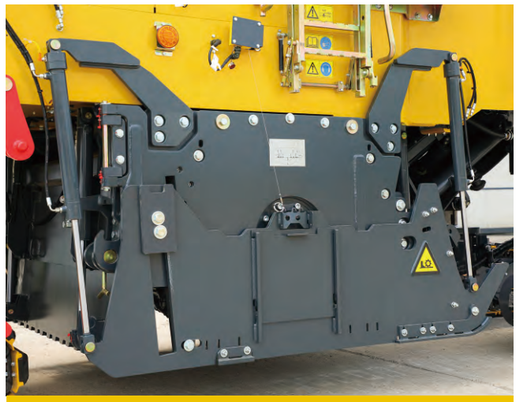
FINE MILLING DRUM 528 CUTTING TOOLS

- Heavy-duty milling drum
- Fixed pedestal position for longer drum life and lower operating costs

LEVELING SYSTEM

GROUND LEVEL CONTROL





SIDE PLACE CYLINDER SENSORS

LEVEL CONTROL

ACCURATE

Side plate cylinder includes built-in leveling sensor

Providing greater accuracy and smoother surfaces

RELIABLE

Proven MOBA control system

Integrated can-bus system

ADAPTABLE

Slope and grade sensor as standard

CONFIGURATION

Ground leveling controller

Convenient for ground staff and operation work simultaneously

OPTIONAL

Sonic-ski sensor

Leveling beam

Laser

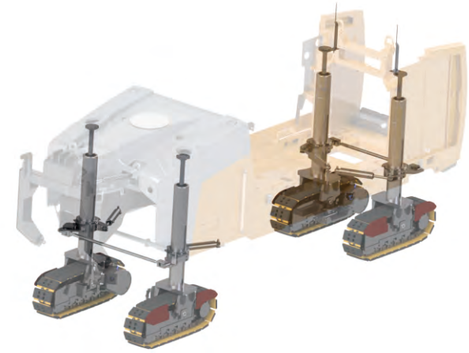
3D LEVELING

Solution from LEICA measurement system

Track driving

Ensures strong and stable traction performance at all times

TRACK DRIVING



Ensures strong and stable traction performance at all times

LLC LOAD LIMITED CONTROL SYSTEM

The machine distributes engine power to the milling and drive systems based on demand and automatically senses changes in milling system load and adjusts propulsion speed to prevent milling drum stoppage and optimize production.

ASR ANTI-SLIP SYSTEM

The electric proportional motor monitors and differentiates slippage within milliseconds to prevent single-track slippage, ensuring optimal traction performance of the machine at all times while reducing track shoe wear.

HEAVY DUTY TRACK PAD

Track pad size: 1,715 x 310 mm

Split track pad

Larger track pad: 1,846 x 310 mm (optional)

The track pad has a larger grounding area, providing great grip, stronger traction performance and avoid skidding

Replacement of the split type track pad is more convenient and cost-effective

In special working conditions, a larger track pad is recommended

COMFORTABLE CONTROL ENVIRONMENT

ONE CLICK BUTTON

BACKLIT DESIGN

TELESCOPING SIDE PANEL

7" COLOUR SCREEN

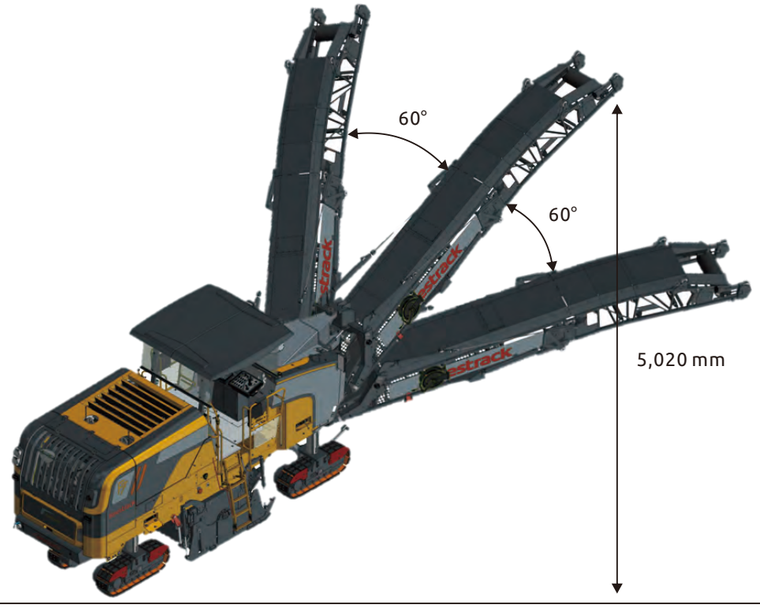
- Sliding display screen can be positioned at any angle
- Sliding control panel can be adjusted for various operating positions
- Back lit keyboard for easy operation in low-light conditions
- Simple and easy to operate
- Multifunction operating handle for increased efficiency
- One-button start / stop function with automatic centering

ONE CLICK BUTTON

CONVENIENT DAILY MAINTENANCE

- Electro-hydraulic lifting engine hood with a maximum opening angle 67°
- All filter elements are installed on one side, making daily inspections easy
- Electronic control system with centralized layout for easy maintenance

MATERIAL LOADING



EXTRA-WIDE CONVEYOR

850 mm loading conveyor

MAXIMAM LOADING CAPACITY

F7 Maximum loading 375 m³ / h

F8 Maximum loading 450 m³ / h

ADJUSTABLE CONVEYOR

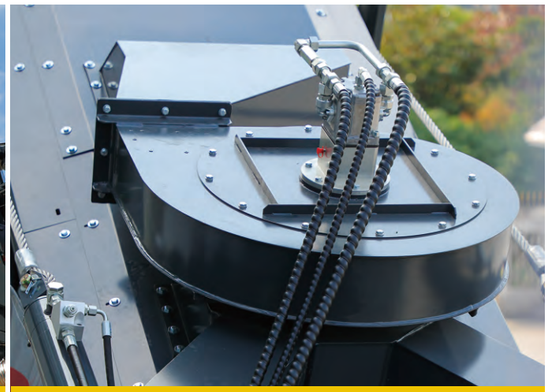
Best speed can be adjusted 0 - 6m / s

Reverse conveyor

VCS VACUUM SYSTEM

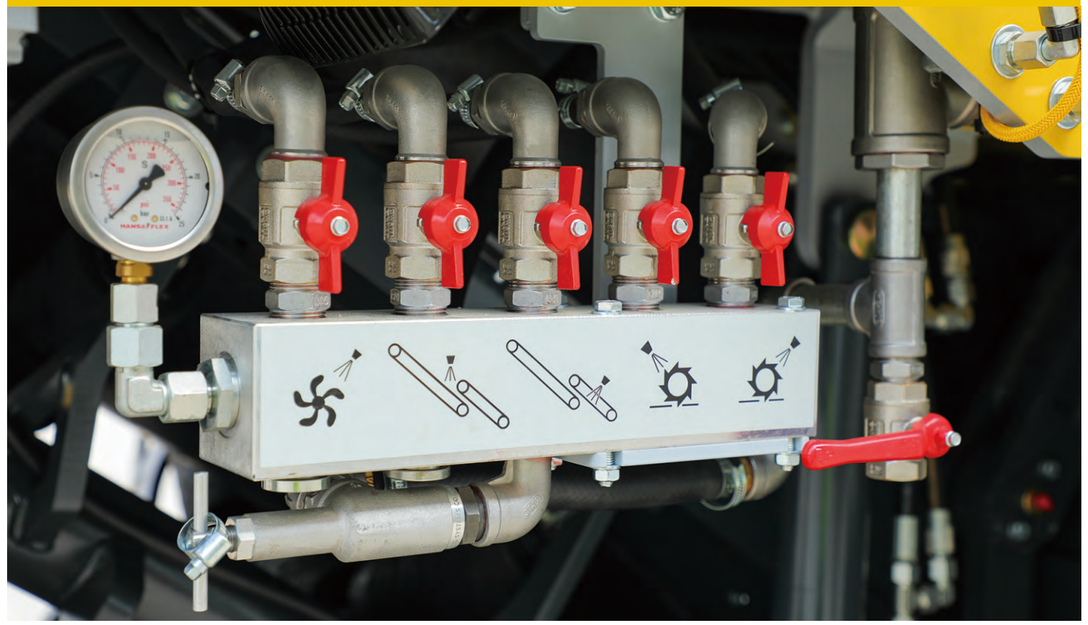
Reduces dust and improves the construction environment

FOLDING CONVEYOR



VCS SYSTEM

WATER CLEANER



Water tank 3,300 L

Water sprinkling strip with 16 nozzles

Conveyor sprinkling 10 nozzles

180 bar high-pressure water cleaner

LARGE LOCKABLE STORAGE

LOCKABLE STORAGE SPACE
Upper storage: 1,688 mm x 722 mm, for 10 cutting tool buckets
Lower storage: 1,686 mm x 330 mm, for 4 cutting tool buckets

TECHNICAL SPECIFICATIONS

MILLING DRUM	F7	F8
Number of cutting tools	144	144
Milling width	2,000 mm (Standard)	2,000 mm (Standard)
	2,200 mm (Option)	2,200 / 2,500 mm mm (Option)
Milling depth	0 – 330 mm	0 – 330 mm
Cutting diameter	1,040 mm	1,040 mm
Tool spacing	18 mm	18 mm

ENGINE		
Manufacturer	CUMMINS	PERKINS
Model	X 15	2806 C - E18TTA
Maximum power @2,100 rpm	470 kW	571 kW
Emission standards	US Tier 4 / EU Stage 5	US Tier 4 / EU Stage 5
Cylinders	6	6
Aspiration	Turbo	Turbo
Cooling	Water	Water
Displacement	15	15

TANK CAPACITIES		
Fuel tank	1,120 l	1,180 l
Hydraulic tank	170 l	200 l
Water tank	3,400 l	3,400 l

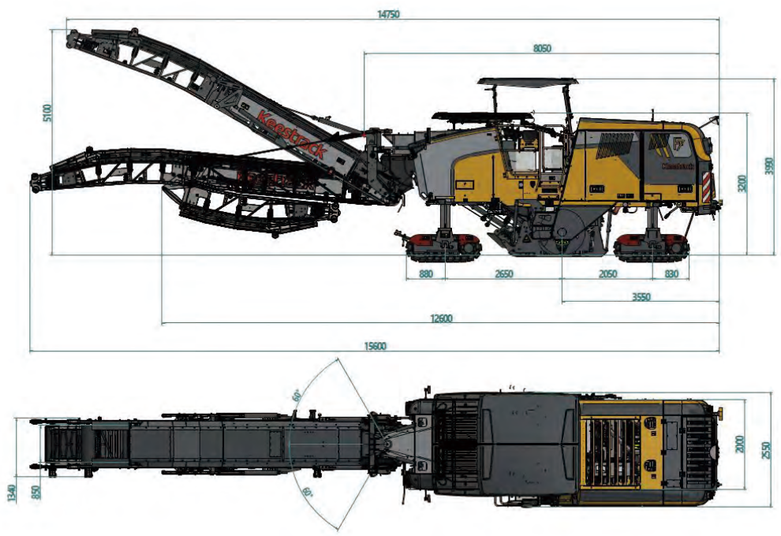
ELECTRICAL SYSTEM		
Electrical	24 V	24 V

DRIVING		
Maximum travel speed	6 km / h	6 km / h
Working Speed	100 m / min	100 m / min

TRACK UNITS		
Crawler tracks, front (L x W x H)	1,715 x 310 x 615 mm	1,715 x 310 x 615 mm
Crawler tracks, Back (L x W x H)	1,715 x 310 x 615 mm	1,715 x 310 x 615 mm
Track units	4	4
Side plate lift stroke (L / R)	L 330 / R 450 mm	L 330 / R 450 mm

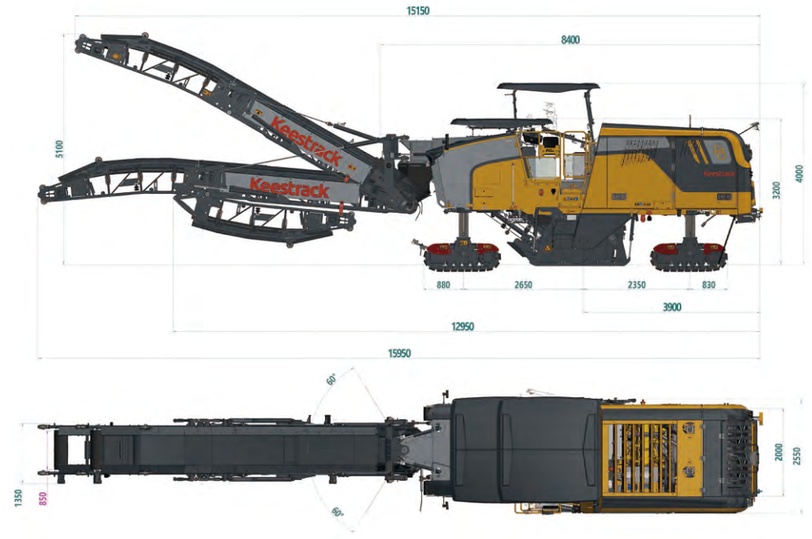
LOADING MATERIAL		
Primary conveyor belt width	850 mm	850 mm
Discharge conveyor belt width	850 mm	850 mm
Conveyor swing	60°	60°
Discharge conveyor belt height	5,020 mm	5,020 mm
Discharge output up to	375 m³ / h	450 m³ / h

MACHINE WEIGHTS		
Transportation weight	30,000 kg	31,000 kg
Working weight	32,000 kg	33,000 kg
Maximum working weight (full tanks, full range of equipment)	34,200 kg	35,200 kg



F7

DIMENSIONS
dimensions in mm



F8

DIMENSIONS
dimensions in mm

STANDARD MACHINE FEATURES

BASIC MACHINE

- Diesel engine compliant with EU Stage V / US Tier 4 f / China IV emission standards
- Automatic adjustment of engine speed based on performance requirements
- Two cooling fans with auto control speed to minimize power consumption
- Compressed air system
- Electric-hydraulic fold of engine cover and canopy

MILLING DRUM HOUSING

- Two stage milling drum rotation speeds with stepless adjustment for each stage
- Primary belt in milling beam can be hydraulic lifted or be floating via control panel
- Hydraulic adjustment of scraper contact pressure via control panel
- Tungsten carbine hard cutting edge in scraper
- Side plates separately lifted hydraulically, with a clearance of 450 mm on the right side
- Water spray bar in the milling drum unit for pick cooling and dust control
- Manual drive for the milling drum rotation device
- Drum house width 2,000 mm, suitable for standard or fine milling drum

MILLING DRUM UNIT

- KEESTRACK standard drum, milling width 2,000 mm, line space 18 mm, 144 teeth
- Bolt-free holder

CONVEYOR

- Two-step conveyor system, 850 mm width, 120° swing scope
- Maximum discharge height up to 5,100 mm suitable for all kinds of trucks
- Stepless adjustable conveying speed
- Hydraulically foldable discharge conveyor
- Vacuum cleaning system (VCS) to reduce dust
- Water spraying system with double filters and 10 bar pressure rating
- Spraying nozzles located at drum housing, primary conveyor and discharge conveyor

MACHINE CONTROL

- 7" colorful high-performance display with high brightness and high resolution
- Multi-variant adjustable display that fits any operator position
- All key parameters can be shown on the home page of the display
- Integrated with a diagnosis and calibration system
- Slidable control panels
- Buttons and functions arranged according to ergonomics and touch frequency
- “Quick-start" function allows the machine to be set into working status with the push of a button (engine, milling drum, spraying, conveyor)
- Four control panels available for ground crew

LEVELING SYSTEM

- Deep integration with MOBA automatic leveling system, available for different leveling solutions
- Main leveling controller for the platform crew
- Additional leveling controller with flexible plug-in plug-out capabilities for ground crew
- Grade leveling integrated in position-sensing cylinders
- Slope leveling sensor located on the operator's stand

STANDARD MACHINE FEATURES

OPERATING ROOM
Shock-absorbing design of the platform to provide stability
Windscreens at both the front and rear of the machine
Improved ladders on both sides, with a foldable ladder available on right side
Two foldable seats ocated on both sides of the machine
One bench located at the rear with large storage room that is lockable
Control panel cover with lock for added security
Electrical control cabinet that is lockable for added protection
2 x USB ports for phone charging
Gradienter for added precision
Two rearview mirrors for improved visibility
Canopy that is foldable in electro-hydraulically, able to be extended to both sides manually

UNDERCARRIAGE AND DRIVE SYSTEM
Four large size crawlers
Electric proportional motor with anti-slip function
Bolt-on PU track pad
LLC Load Limit Control system
Four steering modes
Two neutral modes

MISCELLANEOUS
Pneumatic extraction tool for picks
Extraction tool for toolholder
LED working lights
One set of flashing beacon
Lockable tool box and set of tools located at the left-rear of machine
Storage compartment located between the rear crawler for 4 boxes of picks
High pressure water cleaning with a pressure rating of 180 bar
Six emergency stop switches located around the machine

OPTIONAL EQUIPMENT

MILLING DRUM
Fine milling drum, 2,000 mm width, 6 mm x 2 line spacing, 672 cutting tools
Fine milling drum, 2,000 mm width, 7.6 mm x 2 line spacing, 528 cutting tools
LA15 milling drum, 2,000 mm width, 15 mm line spacing, 162 cutting tools
Standard LA18 milling drum, 2,200 mm width, 18 mm line spacing, 156 cutting tools
LA15 milling drum, 2,200 mm width, 15 mm line spacing, 180 cutting tools

LEVELING SYSTEM
One sonic ski sensor, with cables and holders
Two ultrasonic sensors, with cables and holders for multiplex scanning
Four ultrasonic sensors, with cables and holders for multiplex scanning
Two laser receivers, with cables and holders
3D leveling kits

UNDERCARRIAGE AND DRIVE SYSTEM
Enlarged crawlers, L x W x H = 1,846 x 310 x 663 mm

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