

Keestrack



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Keestrack



Performance in every detail

F8 CR COLD RECYCLER
ONESINGLEMACHINEFORRECYCLING AND MILLING

SUPERIOR FEATURES OF THE F8 CR COLD RECYCLER

SINGLE MACHINE DOUBLES UP AS COLD MILLING MACHINE AND COLD RECYCLER
F8 CR is fit for use either as a powerful cold recycler with a working width of 2.2 m or as a high performance cold milling machine

AUTOMATIC LEVELLING SYSTEM WITH HIGH LEVEL OF PRECISION
Milling depth sensor incorporated with MOBA levelling system for delivery of uncompromised milling results

DIRECT AND EASY OPERATING CONCEPT
Automatic self - diagnostic system of the machine enhances simple and efficient operation executed on walk - through operator's platform

SUPERIOR ENGINE POWER Intelligent engine management system equipped on a 571 kW engine for maximum advance rates of machine performance

INJECTION SYSTEMS WITH HIGH LEVEL OF PRECISION
Utmost operation flexibility enhanced through highly precise injection of water, water - cement slurry and bitumen emulsion

OUTSTANDING MILLING AND MIXING PERFORMANCE Homogeneous cold mixes produced by the outstanding milling and mixing rotor

HEAVY DUTY MILLING & MIXING ROTOR UNIT
Survival through toughest operating conditions made possible with extremely wear - resistant materials used for milling& mixing rotor unit

CLASS LEADING PAVING SCREED
Continuously adjustable paving screed equipped with auger and tamper for faultless paving results

**F8 CR – SINGLE MACHINE DELIVERING
UNBEATABLE DOUBLE PERFORMANCE**



MERGING OF RECYCLER AND MILLING MACHINE

In road construction, time is money.

To achieve cost efficiency, the critical factor is the ability to put all equipment to maximum use. Consequently, when a machine can be used flexibly, it is a major advantage. With this objective, the Keestrack F8 CR is developed.

With F8 CR, the operator can employ the machine as a top performance cold recycler or as a high output milling machine. Thanks to its diverse application options, the F8 CR fulfills unique construction specifications as required by different projects. Repairing damaged asphalt pavements with added cement, water – cement slurry and bitumen emulsion delivering meticulous results as a cold recycler and milling off layers at depths of up to 25 cm at high advance rates without requiring modifications are guaranteed application outcomes.

In the end, the engagement of Keestrack F8 CR fulfills exacting quality requirements, not to mention the multi benefits of that it is extremely economical, environmental – friendly, and has the least impact on the public.



As a high-performance in -situ cold recycler, the F8 CR recycles asphalt roads in a single pass.

THE COLD RECYCLING PROCESS EXPLAINED



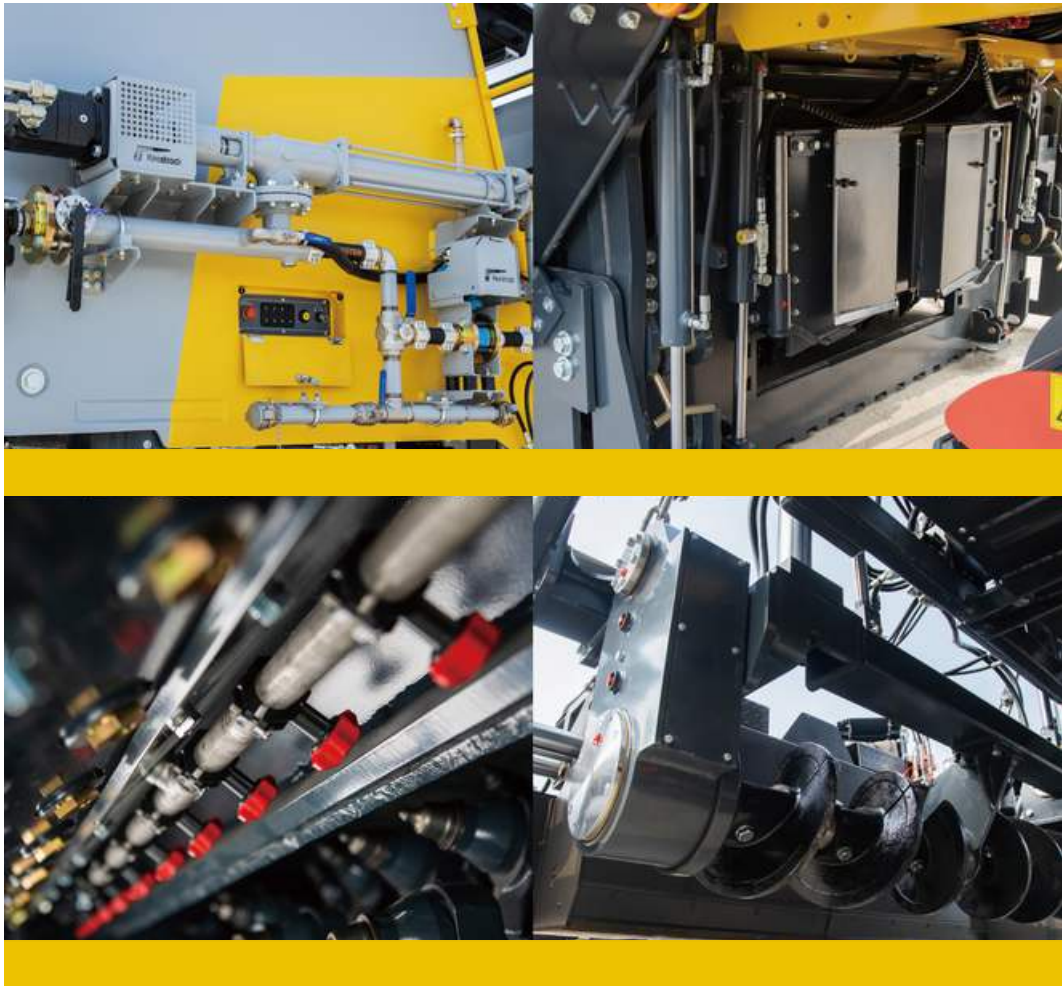
PREMIUM QUALITY BASE LAYERS THROUGH AN UNINTERRUPTED ACTION CHAIN

Where specified, cement is pre – spread by a binder which is followed by water trucks. The F8 CR, equipped with injection systems, conveys the liquid binding agents, through hose connections, from the tanker trucks coupled to the machine for precise injection into the mixing chamber.

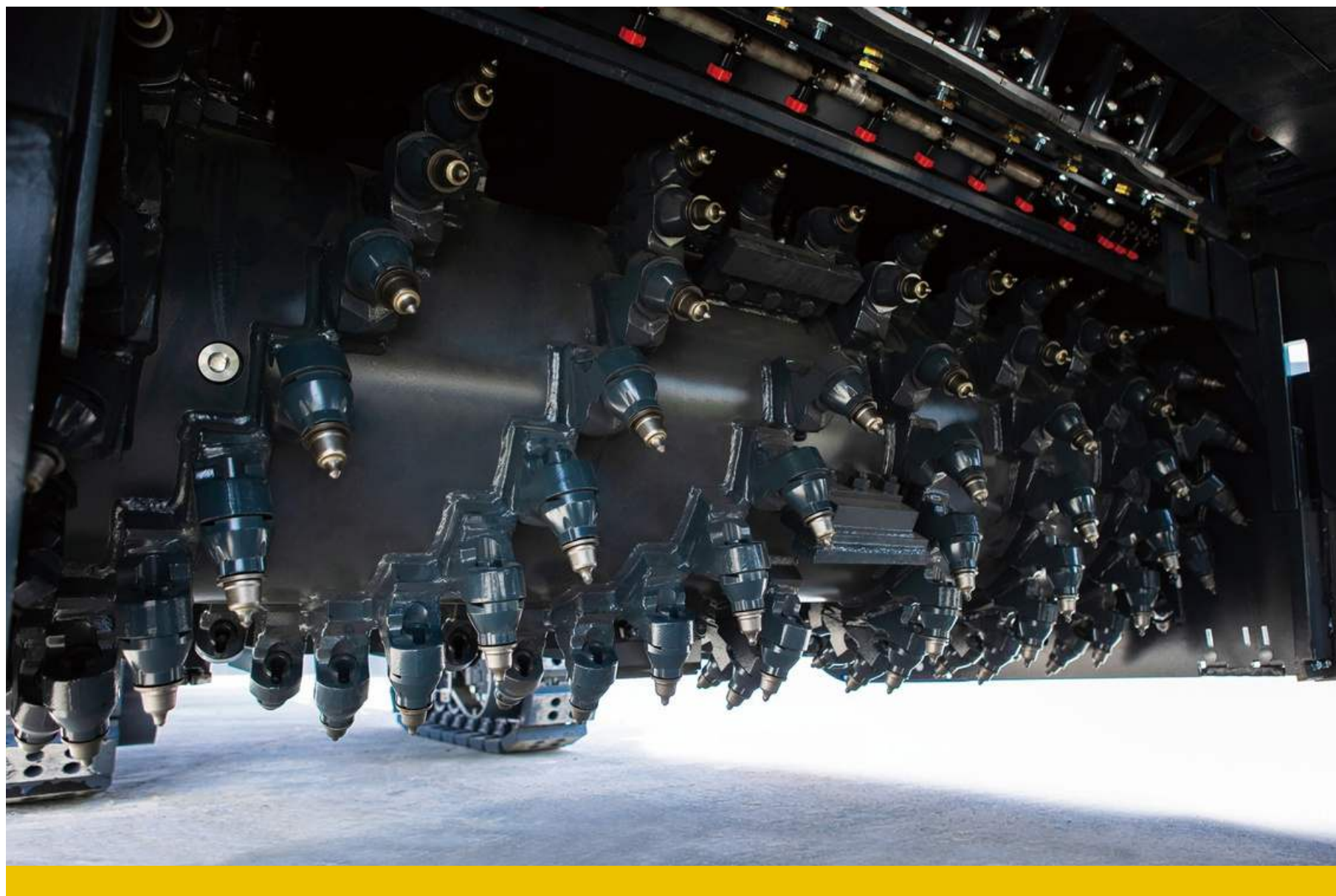
Rotating against the working direction, the heavy duty milling and mixing rotor granulates the existing damaged asphalt pavement to a maximum depth of 25 cm. The granulated material is then mixed with the pre – spread cement and injected water and bitumen emulsion in the machine's mixing chamber – a new homogeneous mix for use as road base is created.

The spreading auger follows to spread the material evenly across the full working width in front of the screed to precisely pave and pre – compact it true to line and level at layer thickness of up to 25 cm.

Final compaction is performed by the tandem and pneumatic – tyred rollers and upon completion, the recycled layer serves as a premium quality base for the new road.



INNOVATIVE KEESTRACK CUTTING / MIXING TECHNOLOGY



LA18 MILLING DRUM BEYOND THE TRADITIONAL

Since the early development stage of standard milling drum at Keestrack, the LA18 concept was integrated to reach a better balance of performance and cost with the customers in mind. The intelligent decision is exemplified by the fewer number of tools, lower cost of fuel whilst registering higher efficiency and productivity.



TOOLHOLDER SYSTEM WITH BREAKTHROUGH

The bolt - free toolholder system of Keestrack leaves the prolonged maintenance problem associated with traditional system behind. The system is further complemented by its compact size and aerodynamically shaped design as well as the simplified maintenance methodology of the base holder.



UNPRECEDENTED INJECTION SYSTEMS FOR PRECISE ADDITION OF BINDERS

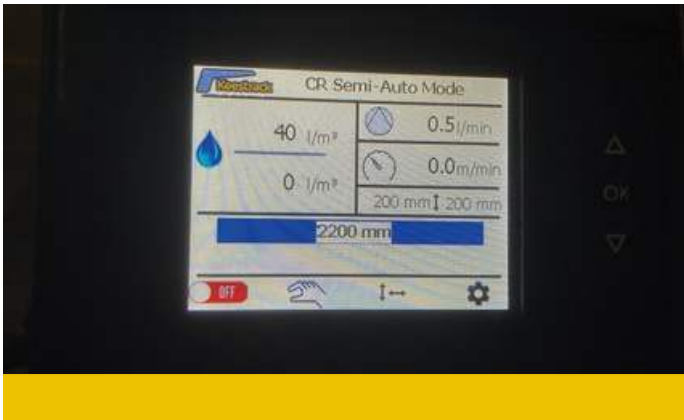


BROAD RANGE OF MIXING OPTIONS FOR SELECTION

The F8 CR is equipped with class leading injection systems as binders need to be added in precise quantities to ensure production of perfect mixes and base layers of premium quality.

Delivery of water and bitumen emulsion to the recycler's injection systems via coupled hose connections is facilitated by the tanker trucks pushed by the F8 CR.

Binders are injected into the mixing chamber via special injection bars. Microprocessors are in place to ensure injection in precisely metered quantities across the the full working width of the recycler and in accordance with the machine's advance speed and recycling depth.



CLASS LEADING SCREED FOR PREMIUM QUALITY PAVING



FAULTLESS AND METICULOUS PAVING RESULTS

To guarantee perfect paving of the mix true to line and level, the F8 CR is equipped with a class leading paving screed. Whether it be bends or having to navigate permanent fixtures, the continuously adjustable screed faces the challenges with ease. Even distribution of the mix across the full working width is achieved by the spreading auger installed in front of the screed.

Choice of clockwise or counter – clockwise direction can be accommodated by the centrally divided auger with the conveying speed of both sections being continuously adjustable. The screed's hydraulic tamper also ensures reliable pre – compaction of the recycled pavement layer.

The integrated automatic levelling system ensures paving of the recycled mix precisely as per specifications. The resulting base layer as an ideal foundation for a new asphalt surfacing is guaranteed.



DIRECT AND SIMPLE OPERATION DELIVERS MAXIMUM PRODUCTIVITY



WORKING CONDITIONS ERGONOMICALLY-FRIENDLY

As a cold recycler and cold milling machine, direct and simple operation by means of the clearly arranged controls is carefully considered during the development of the F8 CR to be capable of completing highly complex tasks. The multifunctional screen installed in the centre of the operator's platform provides comprehensive information on all relevant parameters pertaining to the machine, engine and hydraulic system. The user - friendly MOBA levelling system guarantees uncompromised results regardless of the job to be performed.

With ample space on the walk - through operator's platform, options to suit the operator's personal preferences are available - standing or seated position, height and tilt adjustment of control panels on the left and right side individually. Minimization of impact of machine vibrations on the operator is also achieved by the anti - vibration mounted treads.



The control screen and MOBA panel are located within easy reach and in the operator's direct field of view

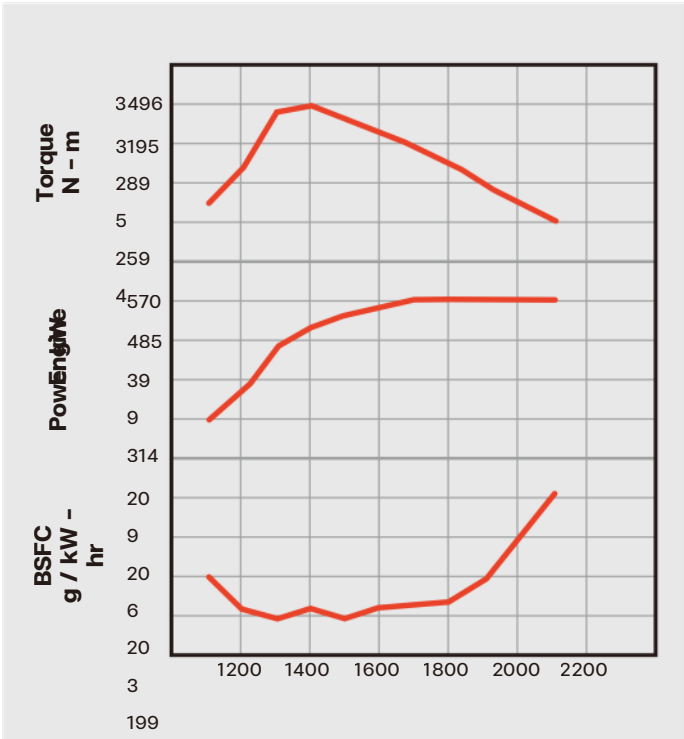
SMART POWER SYSTEM



LONG-TESTED ENGINE PERFORMANCE MEETS SMART CONTROL

The Perkins diesel engine 's heavy duty piston sets and bearings are designed specially for milling job conditions and the engine control system has been highly integrated into the machine management system since the development phase of F8 CR.

A standard LLC (load limited control) system ensures the machine's advance rate in accordance with the engine load reducing the risk of engine overload and relieving the operators' pressure at work.



HIGHLY EFFICIENT DRUM-DRIVE SYSTEM

The mechanical milling and mixing drum driven via three V - belts is a key tool which contributes to permanently high output rates and highly efficient operation. At the same time, the smooth belt drive leads to low fuel consumption, high water resistance and ease of maintenance. The automatic belt tensioner also ensures consistent power transmission during all kinds of working condition.



FAST, EASY AND COST - EFFICIENT TRANSPORTATION

The whole F8 CR can be easily transported on a flatbed truck at any jobsite. The folding conveyor design overcomes possible transportation complications caused by transport height. In transportation status, the whole machine is still less than 33 ton, which can be carried by a light - designed truck.

TECHNICAL SPECIFICATION

MILLING DRUM	
Milling width, standard	2,200 mm
Milling depth	330 mm
Rotor diameter (with tools)	1,040 mm
Rotor tool spacing	18 mm
Number of teeth	156

ENGINE	
Engine manufacturer	Perkins (Caterpillar)
Engine model	2806 C - E18TTA (C18
Number of cylinders	) 6
Displacement	18 ltr
Engine output - rated power	571 kW

ELECTRICAL	
Electrical power supply	24 V

CAPACITIES	
Fuel tank	1,000 ltr
Hydraulic tank	200 ltr
Water tank	3,300 ltr

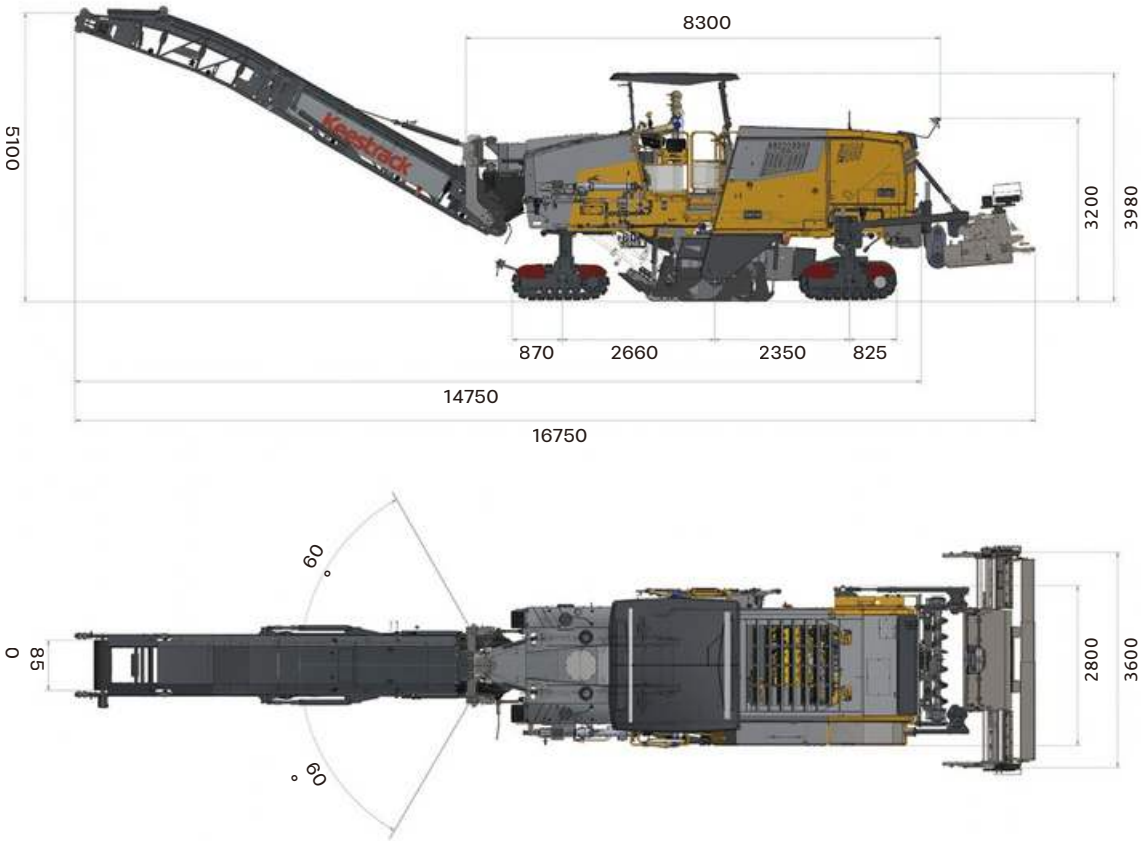
DRIVING PROPERTIES	
Travel speed	6.0 km / h
Working speed	100 m / min

TRACK UNITS	
Track units, front & rear (L x W x H)	1,715 x 310 x 615 mm
Number of track units	4
Side plate lift stroke (L x R)	330 / 450 mm

LOADING OF THE MILLED MATERIAL	
Collecting conveyor width	850 mm
Upper conveyor width	850 mm
Upper conveyor length	8,100 mm
Conveyor swing - each way	60 ± °
Max. conveying speed	5.5 m / s
Theoretical capacity of discharge	375 m³ /
Discharge height	h 5.1 m

WEIGHT OF BASE MACHINE	
Transport weight, CE	35,290 kg
Operating weight, CE	37,790 kg
Transport weight*	30,340 kg
* (empty water tank and less fuel, without screed and discharge conveyor)	

DIMENSIONS



dimensions in mm

STANDARD EQUIPMENT

BASIC MACHINE	
571 kW diesel engine (Emission standards EPA Tier2)	
Standard milling & mixing width 2,200 mm	
Maximum milling depth 330 mm, maximum recycling depth 250 mm	
Automatic control of engine speed optimizing output to the demand on the engine	
Automatic idle control to lower down fuel consumption	
Enlarged cooling fan with on-demand speed control	
Compressed Air system	
Electric - hydraulic fold of engine cover and canopy	
Color - yellow and grey	
MILLING & MIXING ROTOR	
KEESTRACK standard drum, milling width 2,200 mm, line space 18 mm, 156 teeth	
Bolt free holder	

MILLING & MIXING HOUSING
Two milling drum rotation speeds, every speed can be stepless adjusted accordingly
Mechanical milling drum drive with automatic belt tensioner
Primary belt in milling beam can be hydraulic lifting or floating via control panel
Electrical adjustment of scraper contact pressure via control panel
Tungsten carbide hard cutting edge in scraper.
Side plates separately lifted hydraulically, clearance right 450 mm
Water spray bar in the milling drum unit for pick cooling and dust control
Milling drum rotation device, manual drive
Hydraulically movable and adjustable front drum plate
Drum housing width 2,200 mm, fits for standard / fine milling drum

SPRAYING UNIT OF COLD RECYCLING SYSTEM
Spraying system fo water or bitumen emulsion
Water or bitumen emulsion filling front - without filling pump
Water injection control installed at screed frame
High performance water pump, max capacity 400 L / min
A large ejection opening in combination with a guide plate system permits the milled material to be deposited between the rear crawler units

PAVE UNIT OF COLD RECYCLING SYSTEM
Two control panels for screed operation, left and right
Hydraulic vario screed with tamper, basic working width 1.8 m, max.working width 3.6 m
Auger lift in hydraliclly

CONVEYOR
Two - step conveyor system, 850 mm width, ° swing
Max discharge height up to 5,100 mm that fits well for all kinds of trucks
Stepless adjustable conveying speed
Hydraulically foldable discharge conveyor
Vacuum cleaning system (VCS)
Water spraying system, double filters, 10 bar
Spraying nuzzles at drum housing, primary conveyor and dischage conveyor

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

LEVELING SYSTEM
Deep integration with MOBA automatic leveling system, available for different leveling solution
Main leveling controller (for operation standing)
Additional leveling controller, flexible plug in & out (for ground crew)
Left and right wire rope sensors on side plates for grade leveling
Slope leveling sensor on machine frame

OPERATING ROOM
Shock absorbed design of platform
Enlarged working space for multiple operators' stand or sit
Windscreens, front & rear
Foot ladders on both sides, foldable ladder available on right side
Slidable handrail available on right side to avoid trees or barriers
Two foldable seats at both sides
A long bench at the rear with large storage room, lockable
Control panel cover with lock
Electrical control cabinet, cover with lock
USB * 2 (right of cabinet) for phone charging
Gradienter
Two rearview mirrors
Canopy foldable in electro - hydraulically, manually extendable to both sides

UNDERCARRIAGE AND DRIVE SYSTEM
Four large size crawlers
Electric proportional motor with anti - slip function
Wear - resisting bolt - on PU track pad
LLC - Load Limit Control system
4 steering modes
2 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 at the left - rear of machine
Lockable store room at the rear of machine for 4 boxes of picks
Storage compartment between the rear crawler for 4 boxes of picks
High pressure water cleaning sytem, 180 bar with spray nozzles and hoses 6 emergency stop switch around the machine
Standard Warranty: 12 months or 1,000 hours which comes first

OPTIONAL EQUIPMENT

MILLING DRUM
Standard LA18 milling drum, 2,000 mm width, 18 mm line spacing, 144 teeth
La15 milling drum, 2,000 mm width, 15 mm line spacing, 162 teeth
La15 milling drum, 2,200 mm width, 15 mm line spacing, 180 teeth
Fine milling drum, 2,000 mm width, 6 mm * 2 line spacing, 672 teeth
Fine milling drum, 2,000 mm width, 7.6 mm * 2 line spacing, 528 teeth

LEVELING SYSTEM
One sonic ski sensors, cables & holders
Two ultrasonic sensors, cables & holders for multiplex scanning
Four ultrasonic sensors, cables & holders for multiplex scanning
Two laser receivers, cables & holders
Grade leveling sensors integrated in position-sensing cylinders on both side plates