





OVERVIEW OF HIGHLIGHTS

Perfectly Equipped

01 Simple Operating Concept

- > Flexible positioning of the main control panels in both directions of operation
- > All machine parameters are displayed on a high-resolution color screen
- > Four large, clearly structured control panels for operation by the ground crew
- > On-board diagnostic system for quick and easy assistance with maintenance procedures
- > Many new automated features enhance ease of operation
- > High-precision **LEVEL PRO** leveling system comprising different sensor models

Perfection in Visibility, Comfort and Ergonomic Design

- > Optimized machine geometry ensures perfect visibility
- > High-quality camera system comprising up to seven cameras
- > Clearly structured, adaptable operator's platform including canopy
- > Powerful LED lighting system for night operations
- > Easy start-up and quick modification of the machine to match the specific application



03 Tremendous Performance

- > High-powered, high-torque diesel engine
- > Minimized engine noise emissions allow around-the-clock operations in urban environments
- > Intelligent engine-machine management system for maximum advance rates
- > All-track drive (ASC) and fourfold full-floating lifting column feature ensure optimum traction
- > Direct mechanical rotor drive ensures high efficiency
- > High-capacity folding and slewing discharge conveyor with continuously adjustable belt speed
- > Controlled transfer of excess material into trucks via the discharge conveyor

04 High-Precision, Reliable Injection Systems

- > Integrated injection systems for water, bitumen emulsion and foamed bitumen
- > VARIO injection bar adjustable, variable nozzle cross-section for constant, volume-independent injection pressure
- > Metering panel with screen for reliable operation and easy monitoring of binder metering
- > Electrically heated injection system for bitumen and bitumen emulsion, including filter
- > Innovative process water monitoring for the production of foamed bitumen
- > Automatic self-cleaning and flushing feature for high functional reliability of the injection nozzles

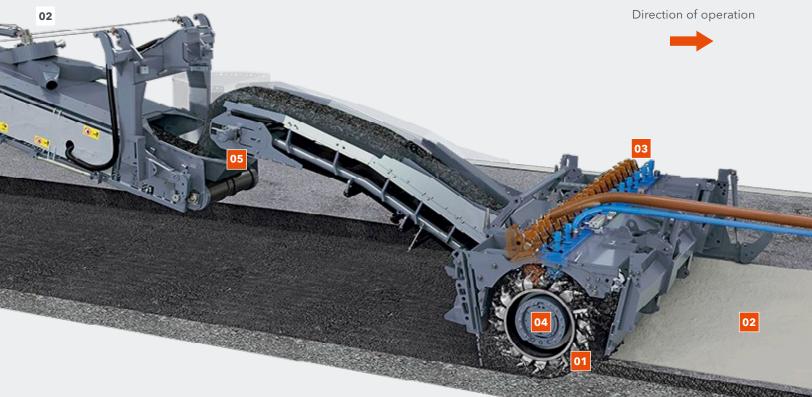
Powerful and Efficient Milling and Mixing Unit

- > Optimally designed milling and mixing unit for cold recycling or front-loading operation (milling)
- > Extremely wear-resistant quick-change toolholder system HT22
- > Hydraulic rotor-turning device and hydraulic and/or pneumatic pick ejector for easy pick changes
- > Modular milling drum assembly **MCS EXTEND**(Multiple Cutting System), available for working widths of 10 ft 6 in (3.2 m), 11 ft 6 in (3.5 m), and 12 ft 6 in (3.8 m)



COLD RECYCLING WITH INTEGRATED REAR LOADING





Cold Recycling Train with the CR Series

The STREUMASTER binding-agent spreader pre-spreads cement or lime and is followed by water and binding-agent tank trucks. The milling and mixing rotor granulates the asphalt layers. The pre-spread cement is mixed in at the same time while water and bitumen emulsion or foamed bitumen are injected into the mixing chamber via injection bars.

The recycled construction material is picked up by the conveyor system and transported right into the material hopper of the VÖGELE asphalt paver for placing. Final compaction of the material is then effected by HAMM rollers.



- 01 Damaged asphalt layer
- Pre-spread binding agent (e.g. cement or lime)
- O3 Injection bars for water and binders
- 04 Milling and mixing rotor
- Primary conveyor and discharge conveyor for material transfer to the asphalt paver

The robust milling and mixing rotor granulates the damaged asphalt pavement. The granulated material is mixed with injected binders and water in the mixing chamber, thus creating a new homogeneous mix in an in-situ process.

Due to the helical design of the milling and mixing rotor, the recycled mix is conveyed towards the centre and subsequently transported to the material hopper of the asphalt paver via the conveyor system comprising primary and discharge conveyor. The asphalt paver then paves the material true to grade and slope.

- **01** Cold recycling train with the CR Series
- **02** Recycling material with the W 380 CR(i) (down-cut)

APPLICATIONS OF THE COLD RECYCLERS

Example of an application with the W 380 CR (i): production of a bituminous-bound base layer with a W 380 CR (i) and a paver (lateral pre-milling enables variable working widths)



Example of an application with the W 380 CR (i): production of a cement-bound base layer with a W 380 CR (i) and a paver (lateral pre-milling enables variable working widths)



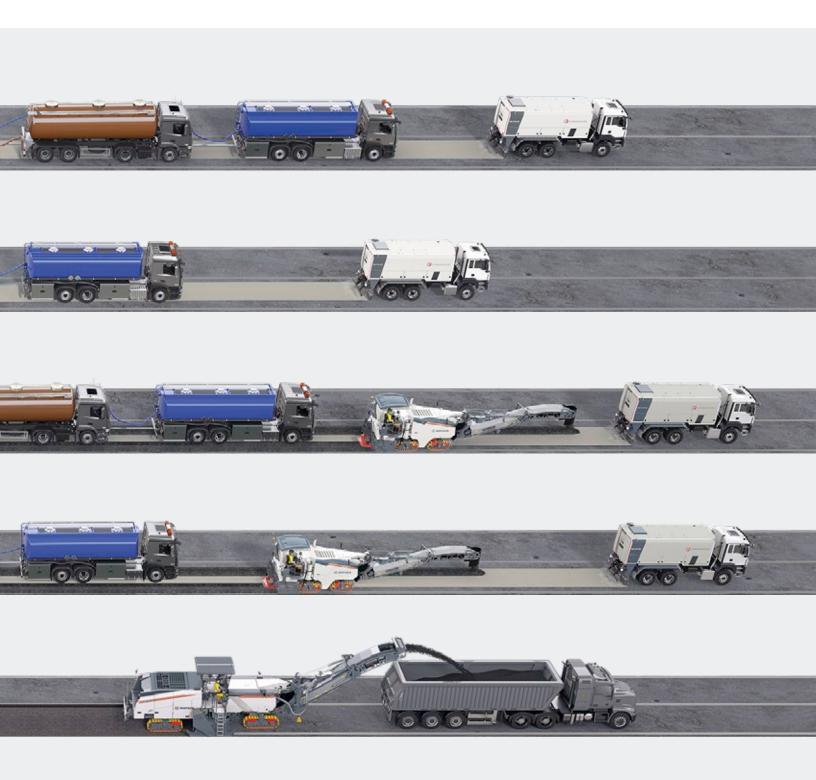
Example of an application with the W 240 CR(i): lateral pre-milling and production of a bituminous-bound base layer with a W 240 CR(i) and a paver



Example of an application with the W 240 CR(i): lateral pre-milling and production of a cement-bound base layer with a W 240 CR(i) and a paver



E Example of an application with the W 240 CR(i) / W 380 CR(i): cold milling with the W 240 CR(i) / W 380 CR(i)



SIMPLE OPERATING CONCEPT

Flexible Positioning of the Main Control Panels

Flexible positioning of the two functionally identical, individually adjustable main control panels on the left and right permits the cold recycler to always be operated in line with ergonomic principles, ensuring perfect visibility at the same time. When changing the machine's direction of operation, the control panels are simply mounted on the opposite side of the operator's platform. The machine can also be operated quite easily when standing transverse to the direction of travel.

Display of All Machine Parameters

All important machine and metering parameters can be adjust-

ed and monitored quite easily via the clearly and logically structured control screen.

Four Large Control Panels for the Ground Crew

Four large, clearly structured control consoles enable numerous functions such as adjusting the material guide plates, side plates, rotor plate or machine height to be operated by the ground crew.

On-Board Diagnostic System

The machine's automatic self-diagnostic system autonomously monitors valves, sensors and control components. Numerous



Ergonomics for Every Job

Complete Control

Flexibly positionable control panels

Extra panels for operating personne

clearly visualized pages provide quick and accurate information on the machine's current operating parameters. In addition, the machine offers ready access to all servicing points.

Many New Automated Features

Operation of the machine is simplified enormously by a multitude of new automated features such as the alignment of the machine parallel to the pavement surface (PTS), load-controlled conveyor belt speed, or cleaning of the injection systems.

High-Precision LEVEL PRO Leveling System

The tried-and-tested **LEVEL PRO** leveling system includes control screens for the machine operator and ground crew, as well as a wide variety of different application-specific sensors ensuring precise milling results.

- WIRTGEN A STATE OF THE STATE OF
- **01** The control panels can be adjusted to perfectly meet the different job requirements.
- **02** The ground crew can easily adjust conveyor settings and the machine's advance rate or monitor metering functions.



PERFECTION IN VISIBILITY, COMFORT AND ERGONOMIC DESIGN

Perfect Visibility

The intelligent geometry of the machine frame provides a perfect view of important areas of the operation regardless of the job to be performed or the machine's working direction. The dual wasp waist, slanting engine cowling and separate viewing channel enable the operator to always keep an eye on both the zero-clearance side and the material loading process.

High-Quality Camera System

The robust camera system comprises up to seven cameras. High-resolution camera images can be simultaneously displayed on different screens. The camera image of the discharge conveyor can, for example, be displayed both on the camera screen and on the metering panel.

Clearly Structured Operator's Platform

The spacious operator's platform, which is equipped with one each stand-up seat left and right, provides ideal ergonomic

conditions for the machine operator to fully focus on his task. In addition, the machine is extremely quiet in operation. The operator's platform can be folded out to offer a workplace even beyond the edge of the machine. Depending on weather conditions, the canopy can additionally be moved to the left or right and extended on either side.

Powerful LED Lighting System

Intelligently arranged, bright LED working lights and LED lighting balloons offer perfect visibility in poor lighting conditions.

Easy Start-Up and Quick Modification

Modifications such as mounting or removing the conveyor or paving screed can be completed within a short period of time. The support arm installed to accommodate the push bar and hoses at the front of the machine additionally facilitates operation during tanker truck changes.



Stress-Free Operating

Large operator's platform

Ideal Overview of Important Working Areas



03



Standard camera system comprising one camera:

area in front of the machine



Optional camera system comprising up to seven cameras:

area in front of the machine / front track units / front rotor plate / rear rotor plate / left side of the machine towards the front / paving screed / loading situation

01 Excellent lighting enables night operations to be complet-

03 Different camera systems provide a good view of important areas of the operation.

TREMENDOUS PERFORMANCE

High-Torque Diesel Engine

The state-of-the-art diesel engine offers tremendous drive power and a high maximum torque, ensuring fast-paced operation and high production rates even at the maximum milling depth. It permits a wide range of applications at a mixing capacity of up to 800 t/h, making the cold recycler the ideal candidate also for power-sapping operations such as pulverizing hard pavement structures to the specified quality.

Minimized Engine Noise Emissions

Optimized machine settings, effective soundproofing and temperature-controlled fan speed team up to significantly reduce noise emission levels. Our strict environmental standards thus enable operations to continue around the clock even in residential areas.





- 01 Low noise and exhaust emissions, paired with compact machine dimensions, allow operation even in urban environments.
- 02 The salient features of the cold recycler include three different rotor speeds, high engine power, mechanical rotor drive and peed-controlled fan drive.



TREMENDOUS PERFORMANCE

Intelligent Engine-Machine Management System

The machine's intelligent, fully electronic control system governs not only the interplay of important machine components but also the advance rate of the cold recycler in accordance with the machine and engine load. This relieves the machine operator of a tremendous part of his workload while at the same time improving machine performance. The machine's state-of-the-art technology reduces diesel consumption as well as ${\rm CO}_2$ and noise emissions.

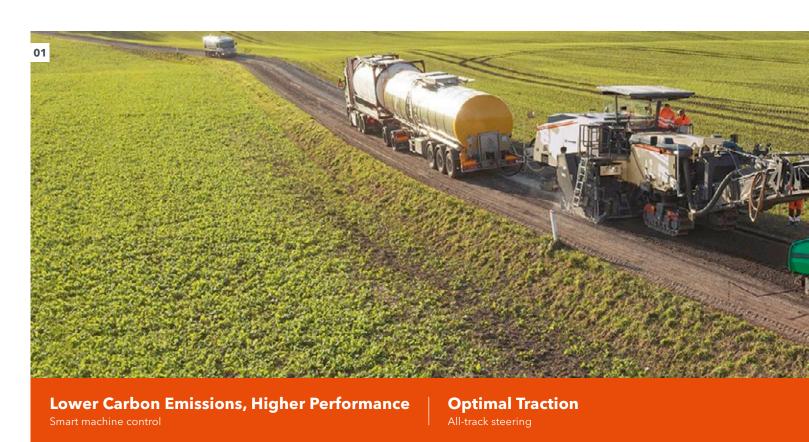
All-Track Drive (Asc) and Fourfold Full-Floating Lifting Column Feature

Quick manoeuvring and small turning radii are guaranteed by the machine's smooth hydraulic all-track steering system.

Electronic traction control ensures optimum driving performance regardless of ground conditions. The perfectly balanced fourfold full-floating feature and increased travel of the lifting columns can be relied on to not only quickly level out any ground irregularities but to also facilitate machine loading.

Direct Mechanical Rotor Drive

The mechanical milling and mixing rotor drive permits consistently high performance rates at high efficiency levels. This is essential in situations where high mixing performance is required e.g. when mixing laterally pre-milled material placed in front of the cold recycler with the layer still to be granulated.





- **01** The high-performance cold recycling train with the W 240 CRi also reduces emissions and conserves valuable resources.
- **02** Lateral premilling enables the cold recycler to rehabilitate even wider road surfaces.



High-Capacity Folding and Slewing Discharge Conveyor

The cold recycler is equipped with a powerful conveyor system with extremely high conveying capacity. The slewing, height-adjustable discharge conveyor with adjustable belt speed enables huge amounts of material to be moved with speed and flexibility. The discharge conveyor can additionally be mounted or removed quickly and easily as required.

Controlled Transfer of Excess Material

Excess material can be removed from the ongoing process and transferred to a truck at either side with the slewing discharge conveyor.

HIGH-PRECISION, RELIABLE INJECTION SYSTEMS

Integrated Injection Systems

Precise injection systems controlled by micro-controller guarantee exact metering of the various additives such as water and bitumen emulsion or foamed bitumen. Depending on the application, several injection bars can be installed to allow simultaneous addition of different binding agents.

The hose connections and pumps of the injection systems are located at the front of the machine close to the tanker trucks to allow quick truck changes. Low suction points ensure good supply to the pumps and easy venting. Feed hoses installed in the machine frame provide a clear view of the process.

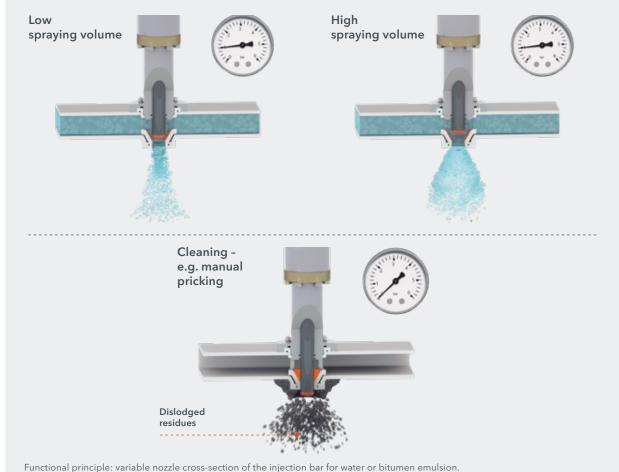
Constant Injection Pressure

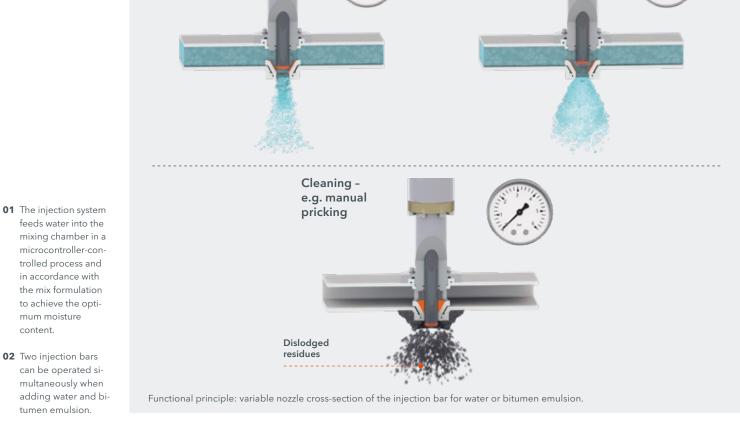
The nozzles of the **VARIO** injection bars for foamed bitumen, bitumen emulsion and water feature a variable cross-section. This enables constant injection pressure to be maintained, regardless of the volume. This ensures ideal and even distribution in the milling and mixing unit across the defined spraying width, and thus assures the homogeneity of the mix. The spraying width can also be adjusted to meet specific requirements.

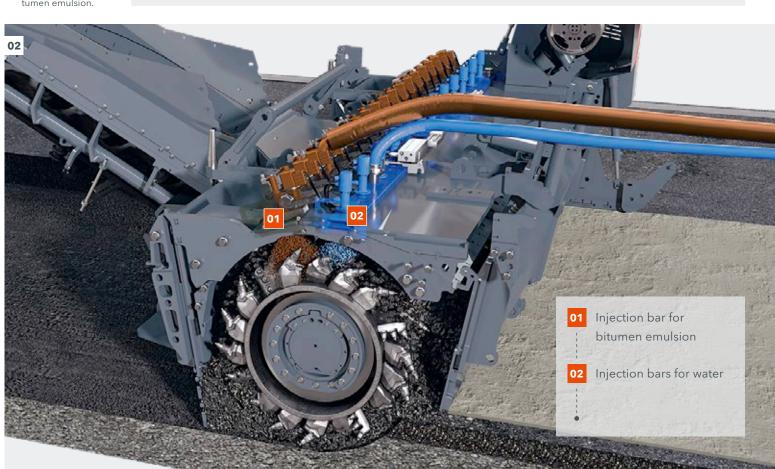
Metering Panel For Easy Monitoring Of Binder Metering

The metering panel with screen can be used to adjust and monitor all important parameters related to binder metering. The main functions of the machine can also be selected via the metering panel.









HIGH-PRECISION, RELIABLE INJECTION SYSTEMS

Electrically Heated Bitumen System

The bitumen-carrying components are electrically heated and fitted with short feed hoses to ensure easy, reliable processing of the hot bitumen at temperatures of up to 180 °C. The temperature of the bitumen injection system can be adjusted in line with requirements so that it can also be used for processing bitumen emulsion at lower temperatures.

Process Water Monitoring for the Production of Foamed Bitumen

The continuous, unobstructed flow of the amount of process water injected into the expansion chamber during foamed bitumen production is monitored and displayed via the additional process water monitoring feature.

Automatic Cleaning Processes

As the work progresses, individual nozzles are regularly closed in rapid sequence. This results in a sudden increase of pressure, which serves to clean the other open nozzle outlets on the VARIO injection bar. In addition, the nozzles can be cleaned manually by freeing the closing hydraulic cylinder at the nozzle outlet, when the work is interrupted or finished.



- **01** For base layers of exceptionally high quality, foamed bitumen is produced in separate expansion chambers by injecting water and compressed air into bitumen previously heated to approx. 180 °C.
- 02 The microcontroller-controlled injection system injects foamed bitumen and water into the mixing chamber in precisely metered quantities.





EFFECTIVE CUTTING AND MIXING TECHNOLOGY

Perfectly Designed Milling and Mixing Unit

The milling and mixing unit is designed for heavy-duty milling and mixing applications. It is ideally suited for both the down-cut process, which produces the ideal particle gradation and is the preferred method in cold recycling, and the tried-and-tested up-cut process which is used in front-loading milling operations. The side plates, scraper and rotor plate require only minor modifications to be suitable for use in both directions of operation. The large stroke of the machine's height adjustment feature and wide-opening rotor plate permit additional premilled material to be included in the recycling process.

Extremely Hard-Wearing HT22 Quick-Change Toolholder System

The milling and mixing rotors fitted with the **HT22** quick-change toolholder system are ideally suited to perform complex recycling and milling operations. The upper parts of the quick-change toolholders can be replaced quickly and effortlessly right on the construction site.

Easy Pick Replacement

The hydraulically operated rotor rotation device, used in combination with the hydraulic pick ejector drift or pneumatic pick driver and ejector drift, facilitates pick replacement – even with the engine switched off. The large stroke of the machine's height adjustment feature and wide-opening rotor plate additionally optimize accessibility and operator comfort.

MCS for Working Widths of 10 ft 6 in (3.2 m), 11 ft 6 in (3.5 m) and 12 ft 6 in (3.8 m)

To enhance the flexibility of the W 380 CR(i) the **MCS EXTEND** milling and mixing unit can be converted to working widths of 10 ft 6 in (3.2 m), 11 ft 6 in (3.5 m) or 12 ft 6 in (3.8 m) within a short period of time. This is realized by mounting additional extension elements for the rotor, rotor housing and injection bars.

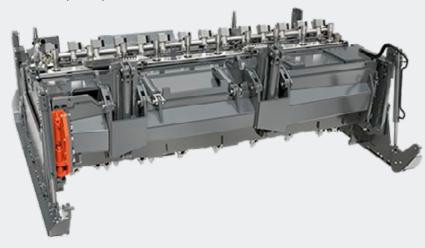
Reduced Wear

Extend Your Capabilities

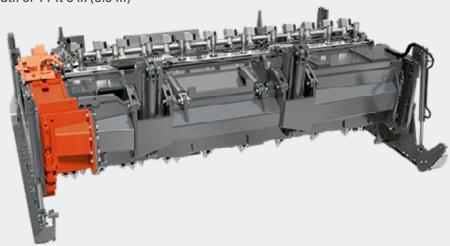
MSC EXTEND for larger working widths



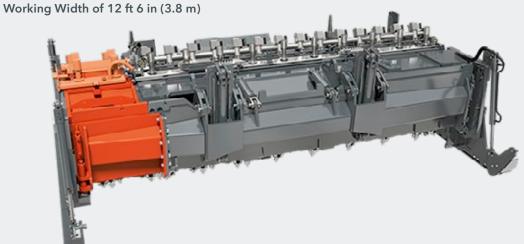




MCS $\it EXTEND$ Milling and Mixing Unit of the W 380 CR(i) With a Working Width of 11 ft 6 in (3.5 m)



MCS **EXTEND** Milling and Mixing Unit of the W 380 CR(i) With a Working Width of 13 ft 6 in (3.8 m)



- **01** The milling and mixing unit is suitable for use in both directions of operation.
- milling and mixing unit of the W 380 CR(i) can be converted to working widths of 10 ft 6 in (3.2 m), 11 ft 6 in (3.5 m) or 12 ft 6 in (3.8 m).

COLD RECYCLING WITH HIGH-PERFORMANCE REAR LOADING

Cold Recycling with the W 380 CR(i) in a Single Pass

The W 380 CR(i) cold recycler's mixing capacity of up to 882 t/h (800 t/h) enables the production of larger quantities of cold mix. The mix is then transferred to the VÖGELE paver following right behind the recycler via the integrated conveyor system. The powerful paving screed is capable of paving large layer thicknesses and large lane widths in a single machine pass.

High Storage Capacity in the Paver's Material Hopper

During cold recycling with rear loading, the cold recycling mix is conveyed to the paver's material hopper via the discharge conveyor. The hopper acts as an ideal material buffer with ample storage capacity, making it easy to equalize any ground irregularities.







01 The W 380 CR(i) recycles road pavements at a mixing capacity of up to 882 t/h (800 t/h).

COLD RECYCLING WITH LATERAL PRE-MILLING



Material Guide Plate System for Variable Paving Widths

Granulated material produced in milling operations previously performed by small or compact milling machines is picked up via the adjustable material guide plate system installed at the front of the machine and added to the mixing process. Thanks to the increased mixing capacity in combination with rear loading and a VÖGELE paver following behind the machine, it is also possible to rehabilitate varying pavement widths in a single pass.

The two guide plates of the material guide plate system can be independently adjusted mechanically to the width of the previously produced material windrow. Height and contact pressure are adjusted hydraulically.



01 - 02 The recycler picks up the granulated material produced in a previous milling operation via the integrated guide plate system to recycle the road pavement across the full width.





OTHER APPLICATIONS

In addition to the high-performance recycling of road pavements as the main application, the cold recycler is also capable of milling, homogenizing or granulating asphalt pavements. This maximizes machine utilization.

Milling:

The cold recycler can also be operated as an efficient high-performance large milling machine using the up-cut process. An ultra-strong engine and high conveying capacity make it the ideal candidate for milling jobs requiring extremely high outputs, such as the reclamation of asphalt pavements at full depth. High advance rates and milling depths guarantee the quick completion of large construction projects on motorways or airport runways.

Homogenizing:

The machine is also capable of homogenizing, for example, asphalt layers with an underlying gravel layer. The mixture is deposited and subsequently overlaid with new bound layers.

Granulating:

The powerful cold recycler granulates the damaged asphalt layers to specification without adding any binders to the process. The homogeneous construction material granulate can be optimally compacted and ranks among the high-quality base-layer materials in unbound construction.



- 01 The machine can be operated as an efficient high-performance large milling machine using the up-cut process.
- **02** The cold recycler's range of applications also includes homogenization and granulation.
- **03** The W 240 CR(i) can be easily transported as a single unit.



Ease of Transport

The compact W 240 CR(i) can be easily transported as a single unit on a low-loader truck. A major advantage when transporting the W 240 CR(i) is that all components can remain mounted on the machine.

Thanks to the intelligent design concept, the large milling and mixing unit of the W 380 CR(i) can be mounted or removed quickly and placed on an assembly dolly in preparation for transportation.







Cold In-place Recycling (CIR) and Full Depth Reclamation (FDR): the CR series machines are used as part of a paving train for the economical cold in-place recycling of road pavements in a single pass adding cement, emulsion or foamed bitumen, featuring a mixing capacity of up to 882 t/h (800 t/h). The high-performance W 240 CR(i) with rear loading and a working width of 7 ft 8 in (2,350 mm) is ideal for the rehabilitation of road pavements on construction sites with limited space and can also be transported easily from job to job as a single unit.

The high-performance W 380 CR(i) with rear loading and a working width of 12 ft 6 in (3,800 mm) is used for rehabilitating full, very wide road surfaces at an extremely high daily productivity.

TECHNICAL SPECIFICATIONS	W 240 CR	W 240 CRi	
Milling and Mixing Rotor			
Working width	7 ft 8 in (2	2,350 mm)	
Working depth 1)	0 to 14 in (0) to 350 mm)	
Drum diameter with tools	3 ft 9 in (1,140 mm)	
Rotor speed at maximum operating speed	108 rpm	100 rpm	
Engine			
Manufacturer	Cate	rpillar	
Туре	C27 A	ATAAC	
Cooling	W	ater	
Number of cylinders		12	
Power	at 2,100 rpm: 708 kW / 950 HP / 963 PS	at 2,000 rpm: 653 kW / 875 HP / 888 PS	
Maximum power	at 1,800 rpm: 708 kW / 950 HP / 963 PS	at 1,800 rpm: 775 kW / 1.038 HP / 1.054 PS	
Displacement	1,660 in ³ (27.2 l)	1,660 in ³ (27.2 l)	
Fuel consumption, full load	49.4 gal/h (187 l/h)	51.5 gal/h (195 l/h)	
Fuel consumption, field mix	19.8 gal/h (75 l/h)	21.1 gal/h (80 l/h)	
Exhaust emission standard	no EU regulation / US EPA Tier 2	EU Stage 5 / US EPA Tier 4f	
Electrical System			
Voltage supply	24 V		
Filling Capacities			
Fuel	369.8 ga	al (1,400 l)	
Hydraulic fluid	92.5 ga	92.5 gal (350 l)	
Water	1,057 ga	1,057 gal (4,000 l)	
Driving Performance			
Operating and travel speed	0 to 289 ft/min (0 to 3.3 mph)	(0 to 88 m/min (0 to 5.3 km/h))	
Track Units			
Track units, front and rear (L x W x H)	7 ft 5 in x 15 in x 2 ft 7 ir	7 ft 5 in x 15 in x 2 ft 7 in (2,250 x 370 x 790 mm)	
Conveyor System			
Belt width of primary conveyor	3 ft 7 in (3 ft 7 in (1,100 mm)	
Belt width of discharge conveyor	·	3 ft 7 in (1,100 mm)	
Theoretical capacity of discharge conveyor	873.7 yd ³ /l	873.7 yd³/h (668 m³/h)	

¹⁾ The maximum working depth may deviate from the value indicated due to tolerances and wear.



W 200 CD	w see cp:	
W 380 CR	W 380 CRi	
	(3,800 mm)	
	0 to 350 mm)	
	1,140 mm)	
108 rpm	100 rpm	
Cate	erpillar	
	ATAAC	
	/ater	
	12	
at 2,100 rpm: 708 kW / 950 HP / 963 PS	at 2,000 rpm: 653 kW / 875 HP / 888 PS	
at 1,800 rpm: 708 kW / 950 HP / 963 PS	at 1,800 rpm: 775 kW / 1,038 HP / 1,054 PS	
1,660 in ³ (27.2 l)	1,660 in ³ (27.2 l)	
49.4 gal/h (187 l/h)	51.5 gal/h (195 l/h)	
19.8 gal/h (75 l/h)	21.1 gal/h (80 l/h)	
no EU regulation / US EPA Tier 2	EU Stage 5 / US EPA Tier 4f	
2	4 V	
	al (1,400 l)	
92.5 gal (350 l)		
1,057 g:	al (4,000 l)	
0 to 289 ft/min (0 to 3.3 mph)) (0 to 88 m/min (0 to 5.3 km/h))	
0 to 287 IVIIIII (0 to 3.3 IIIpii)	((0.10.00 117/11111 (0.10.3.3 K117/11))	
7 ft 5 in x 15 in x 2 ft 7 i	n (2,250 x 370 x 790 mm)	
3 ft 7 in (1,100 mm)	
3 ft 7 in (1,100 mm)	
873.7 yd³/	[′] h (668 m³/h)	

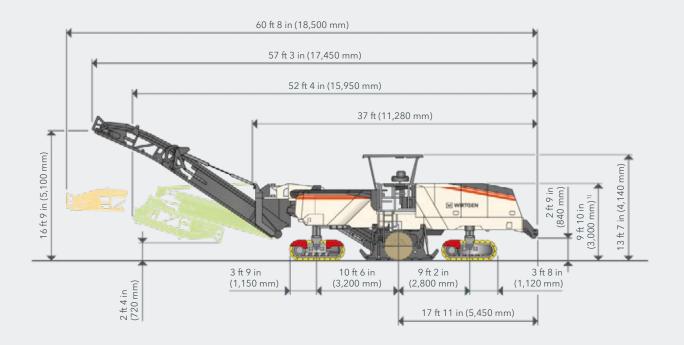
TECHNICAL SPECIFICATIONS	W 240 CR	W 240 CRi	
Weight of Basic Machine			
Empty weight of machine in standard design excluding operating fluids	100,972 lbs (45,800 kg)		
Operating weight, CE ²⁾	106,924 lbs	(48,500 kg)	
Maximum operating weight (full tanks, full range of equipment)	119,931 lbs	(54,400 kg)	
Weights of Operating Fluids			
Filling of water tank	8,819 lbs	(4,000 kg)	
Filling of fuel tank (0.83 kg/l)	2,535 lbs	(1,150 kg)	
Additional Add-On Weights			
Operator and tools			
> Operator	165 lbs	(75 kg)	
> 5 pick containers	276 lbs (125 kg)		
Injection systems in lieu of standard			
> Model without spraying system: Injection openings in rotor housing closed	-882 lbs	(-400 kg)	
> Double spraying system: with VARIO spraying bars for water (211 gal/min (800 l/min)) and bitumen emulsion or foamed bitumen (1,102 lbs/min (500 kg/min))	1,852 lbs (840 kg)		
Optional additional equipment			
> Material guide plates on the front track units	1,984 lbs (900 kg)		
> Canopy	1,103 lbs (500 kg)		
> Minus discharge conveyor	-6,283 lbs (-2,850 kg)		
> VCS extraction system	551 lbs (250 kg)		
Transport Weights of Single Components			
Empty weight of machine in standard design excluding milling and mixing unit	-		
Milling and mixing unit on transport carriage (L \times W \times H : 15 ft 7 in \times 9 ft 6 in \times 7 ft 10 in (4,750 \times 2,900 \times 2,400 mm))	-		
Transport carriage for milling and mixing unit	-	-	

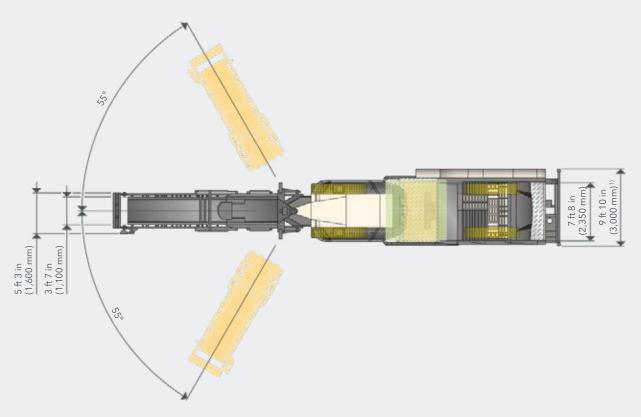
²⁾ Machine in standard design, half-full water tank, half-full fuel tank, operator, on-board tools, excluding optional equipment features

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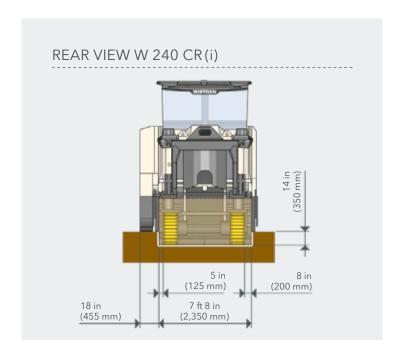
110,896 lbs (50,300 kg) 116,845 lbs (53,000 kg) 129,852 lbs (58,900 kg) 8,819 lbs (4,000 kg) 2,535 lbs (1,150 kg) 165 lbs (75 kg) 276 lbs (125 kg) -882 lbs (-400 kg) 1,984 lbs (900 kg) 1,984 lbs (900 kg) 551 lbs (500 kg)
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1,984 lbs (900 kg) 1,103 lbs (500 kg) —
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1,103 lbs (500 kg) —
-
551 lbs (250 kg)
77,382 lbs (35,100 kg)
36,376 lbs (16,500 kg)
2,866 lbs (1,300 kg)

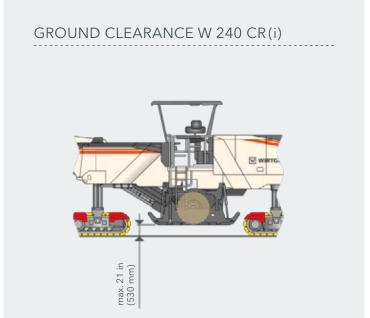
SIDE VIEW / TOP VIEW W 240 CR(i)

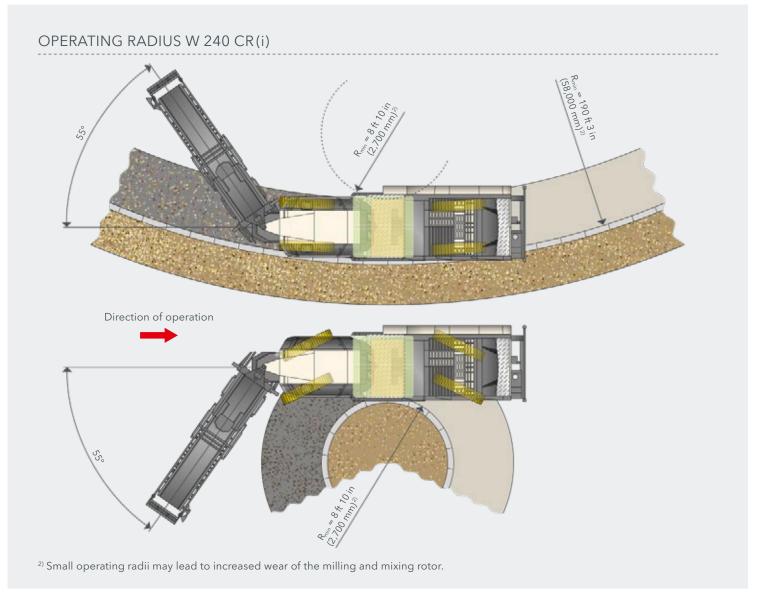




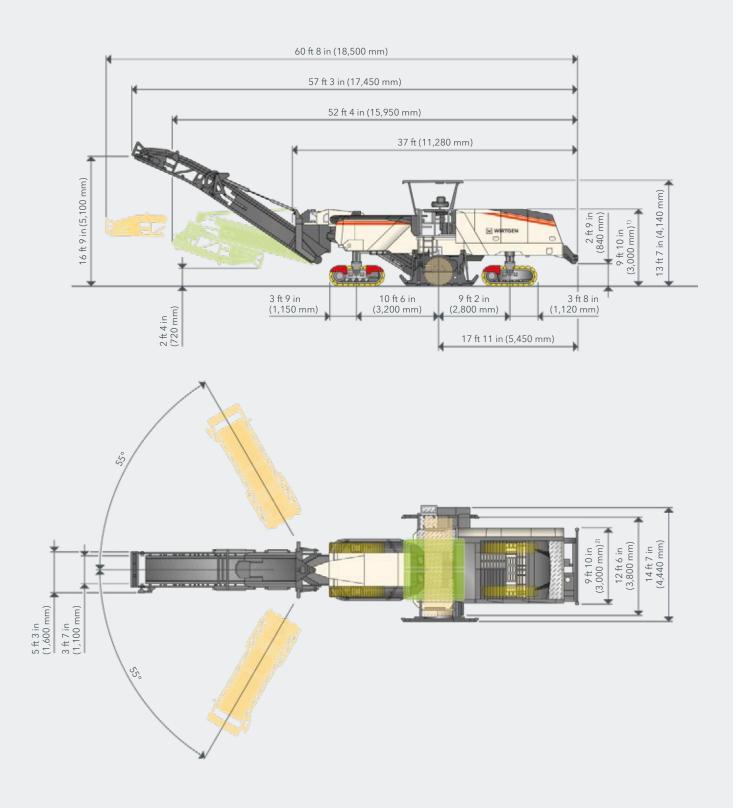
¹⁾ Dimensions for low-loader transport





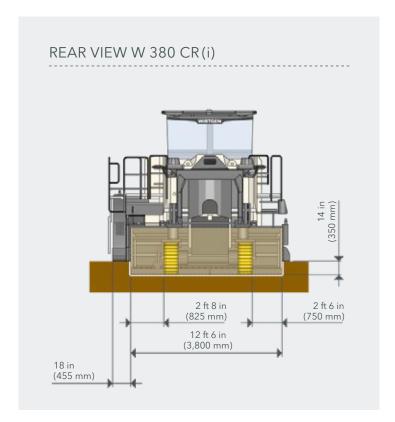


SIDE VIEW / TOP VIEW W 380 CR(i)



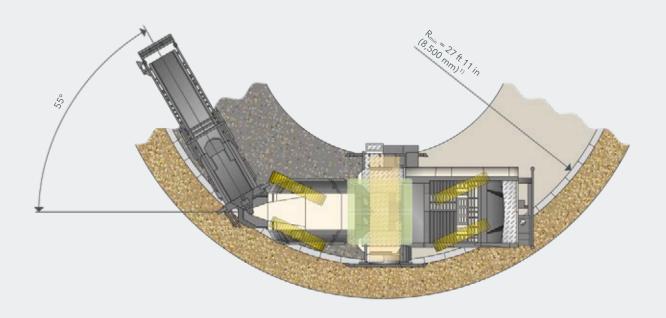
¹⁾ Dimensions for low-loader transport

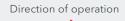
 $^{^{\}rm 2)}$ Transport width excluding milling and mixing unit

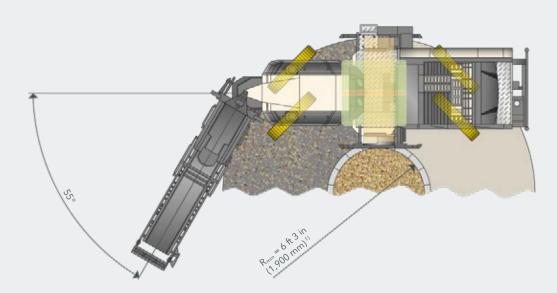




OPERATING RADIUS W 380 CR(i)

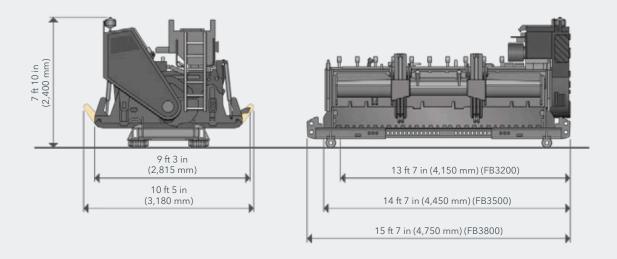






 $^{^{1)}\,\}mathrm{Small}$ operating radii may lead to increased wear of the milling and mixing rotor

TRANSPORT DIMENSIONS



Milling and mixing unit FB3800 including transport carriage

STANDARD EQUIPMENT	W 240 CR(i)	W 380 CR(i)
Basic Machine		
> Base machine with engine		
> The machine can be used as a cold recycler in rear-loading mode or as a cold milling machine in front-loading mode		
> Soundproof lining of engine compartment		
> Diesel engine power controller for optimum milling and mixing results		
> Load limit controller for optimum operation in down-cut mode		
> Engine cooling system with temperature-controlled fan speed		
> Machine frame providing optimum visibility for rear- and front-loading operations		
> Air compressor system, max. 116 psi (8 bar)		
> Battery-operated hydraulic unit		
> Mechanical drum drive via high-performance V-belts with automatic belt tensioner		
> Milling drum gearbox for down-cut operation in rear-loading mode		
Milling and Mixing Unit		
> Three electrically selectable milling drum speeds		
> Quick and easy conversion from rear-loading to front-loading operation		
> Water spray system with automatic on/off function including two spray bars in the milling and mixing unit		
> Hydraulically movable and adjustable front drum plate with exchangeable carbide elements		
> Rear drum sealing plate with hydraulic conveyor lifting feature and exchangeable carbide elements		
> Hydraulically lifting side plates, optimized for both directions of operation		
> Milling drum housing FB2350		_
> Milling drum housing FB3800	_	
Milling and Mixing Rotor		
> Milling and Mixing Rotor FB2350 HT22 PLUS LA15 D20 with 198 picks		_
> Milling and Mixing Rotor FB3800 HT22 PLUS LA15 D20 with 294 picks	_	
> Power multiplier for defined bolt tightening when changing the milling drum unit	_	
Loading of the Milled and Mixed Material		
> Conveyor system with manually or automatically adjustable conveying speed		
> Two slewing speeds on the hydraulically foldable discharge conveyor		
> Water sprinkling system in the primary conveyor		
> Primary conveyor: 3 ft 7 in (1,100 mm) discharge conveyor belt width, material depressor with scraper function		-
> Discharge conveyor belt: 3 ft 7 in (1,100 mm) belt width, slewing angle +/- 55°		
Injection System / Addition of Binders		
> Single spraying system (FB2350) with VARIO spraying bars for water (211 gal/min (800 l/min))		_
> Single spraying system (FB3800) with VARIO spraying bars for water (211 gal/min (800 l/min))	_	
> Model without extension elements for spraying system	_	

STANDARD EQUIPMENT	W 240 CR(i)	W 380 CR (i
Machine Control and Leveling System		
> Multifunctional color control screen displaying important machine operating conditions		
> Extensive machine diagnostics in the machine display		
> Automated features to reduce the machine operator's workload		
> Four exterior control panels for operating functions performed by the ground crew		
> LEVEL PRO leveling system for milling depth control, including one control screen and one each electrical height sensor in the hydraulic cylinders on the side plates, right and left	-	-
Operator´s Platform		
> Fully anti-vibration mounted operator's platform		
Convenient access to the operator's platform, left and right		
> Fold-out extension of operator's platform, right		
> Large storage compartment and stand-up seats, left and right		
> Two mirrors at the front, two mirrors at the rear of the machine		
> Walk-through operator's platform with one each control panel, right and left		
> The control panels can be adjusted in height, rotated and positioned in line with ergonomic principles and the machine's direction of operation		
> Lockable control panel covers		
> Camera at the front with two screens, right and left		
Frack Unit and Height Adjustment		
> PTS - automatic alignment of the machine parallel to the pavement surface		
> ISC - intelligent track speed control including hydraulic four-track drive		
> Fourfold full-floating axle for high machine stability		
> High ground clearance for improved access when replacing picks or removing the milling and mixing unit		-
> Four-track steering system offering the following steering modes in both directions of operation: crab, cornering or straight-ahead mode		
> Extremely wear-resistant, two-part EPS Plus polyurethane track pads		
Miscellaneous		
> Water filling front - without filling pump		
> Washdown system with hose reel and cleaning gun		
Comprehensive LED lighting system, 24 V		
> "Welcome-and-Go-Home-Light" feature including LED lighting in the area of the operator's platform and access		
> Large tool kit in lockable tool box		
> EMERGENCY STOP switches in appropriate positions on the machine		
> Pre-fitting for installing the WITOS FleetView control unit "WIRTGEN Road Technologies Telematics and on-site Solutions" (WITOS) is the intelligent telematics system of the WIRTGEN Road Technologies for efficient fleet and service management worldwide		
> Water tank filling from rear of machine with hydraulic filling pump		
> Standard painting in RAL 9001 (cream)		
> WITOS - professional telematics solution for machine operation and service optimization		

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

OPTIONAL EQUIPMENT	W 240 CR(i)	W 380 CR(i)
Basic Machine		
> Milling drum gearbox for up-cut operation in rear-loading mode		
Milling and Mixing Unit		
> Milling drum housing FB3200 MCS EXTEND	_	
> Milling drum housing FB3500 MCS EXTEND	_	
> Milling drum housing FB3800 MCS EXTEND	_	
> Ancillary parts for milling drum housing with extension to FB3200 MCS EXTEND	_	
> Ancillary parts for milling drum housing with widening to FB3500 MCS EXTEND	_	
> Ancillary parts for milling drum housing with widening to FB3800 MCS EXTEND	_	
Milling and Mixing Rotor		
> MCS EXTEND milling and mixing rotor, FB3200 HT22 PLUS LA15 D20, multi-part, with 239 picks	_	
> MCS EXTEND milling and mixing rotor, FB3500 HT22 PLUS LA15 D20, multi-part, with 258 picks	_	
> MCS EXTEND milling and mixing rotor, FB3800 HT22 PLUS LA15 D20, multi-part, with 277 picks	_	
> Transport frame for additional MCS milling units MCS EXTEND	_	
> Assembly aid for additional MCS milling units MCS EXTEND	_	
Loading of the Milled and Mixed Material		
> Model without discharge conveyor		_
> VCS extraction system		
> Hydraulically adjustable deflector plate on the discharge conveyor		
> Supports for discharge conveyor		
Injection System / Addition of Binders		
> Double spraying system (FB2350) with VARIO spraying bars for water (211 gal/min (800 l/min)) and bitumen emulsion or foamed bitumen (1,102 lbs/min (500 kg/min))		_
> Double spraying system (FB3800) with VARIO spraying bars for water (211 gal/min (800 l/min)) and bitumen emulsion or foamed bitumen (1,102 lbs/min (500 kg/min))	_	
> Model without spraying system		
Injection System / Addition of Binders (MCS EXTEND only)		
> Single spraying system (MCS EXTEND) with VARIO spraying bar for water (211 gal/min (800 l/min))	_	
> Double spraying system (MCS EXTEND) with VARIO spraying bars for water (211 gal/min (800 l/min)) and bitumen emulsion or foamed bitumen (1,102 lbs/min (500 kg/min))	_	
> Model without spraying system MCS EXTEND	_	
> Extension of single spraying system for water to FB3500 MCS EXTEND	_	
> Extension of double spraying system for water and bitumen emulsion or foamed bitumen to FB3500 MCS EXTEND	_	
> Extension without spraying system FB3500 MCS EXTEND	_	
> Extension of single spraying system for water to FB3800 MCS EXTEND	_	
> Extension of double spraying system for water and bitumen emulsion or foamed bitumen to FB3800 MCS EXTEND	_	
> Extension without spraying system FB3800 MCS EXTEND	_	

OPTIONAL EQUIPMENT	W 240 CR(i)	W 380 CR(i)
Machine Control and Leveling System		
> Ultrasonic sensor for wire or ground scanning		
> Additional LEVEL PRO control screen		
> Pre-fitting for multiplex system comprising 4 sensors sockets		
> 3-way multiplex system, right, including 2 ultrasonic sensors		
> 3-way multiplex system, right and left, including 4 ultrasonic sensors		
> Level control 3D leveling pre-equipment		
> Cross-slope sensor for machine		
Operator´s Platform		
> Weather canopy, electro-hydraulic fold-down feature		
Miscellaneous		
> Water tank filling from rear of machine with hydraulic filling pump		
> Painting in one special color (RAL)		
> Painting in two special colors (RAL)		
> Model without WITOS		
> USB interface for retrieving the job data		
> Transport carriage for milling drum units from FB2200 to FB4400	_	
> High-pressure water cleaner, 2,756 psi (190 bar), 4 gal/min (15 l/min)		
> Guide plates on the front track units to guide previously deposited material		
> Milling drum rotation device for the milling and mixing units FB3200 - FB3800		_
> Pneumatic hammer with pick extractor/inserter	_	
> Hydraulic pick ejector		
> Diesel tank filling pump with 16 ft 5 in (5.00 m) suction hose		
> Wiggins fast-fill system for diesel refuelling		
> Additional camera on the discharge conveyor		
> Additional monitor system including 5 cameras and monitor		
> Pre-fitting for two LED lighting balloons		
> LED lighting balloon, 24 volt		
> 3" hot bitumen suction hose, 4,000 LG - tanker connection		
> 3" water or emulsion suction hose, 5,000 LG - tanker connection		
> Support arm for holding the push bar and feed lines whilst changing tankers		
> Additional bitumen filter with cleaning housing		
> Additional bitumen filter with cleaning housing		

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





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