



Powerful rear-loading machine for professional milling operations.

# Cold Milling Machine

W 50 R | W 50 Ri | W 60 R | **W 60 Ri**



# Technical specification

## W 50 R | W 50 Ri | W 60 R | W 60 Ri



	W 50 R	W 60 R	W 50 Ri	W 60 Ri
<b>Milling drum</b>				
Milling width	20 in (500 mm)	24 in (600 mm)	20 in (500 mm)	24 in (600 mm)
Milling depth*1	0 to 8.3 in (0 to 210 mm)	0 to 8.3 in (0 to 210 mm)	0 to 8.3 in (0 to 210 mm)	0 to 8.3 in (0 to 210 mm)
Drum diameter with tools	30 in (750 mm)	30 in (750 mm)	30 in (750 mm)	30 in (750 mm)
<b>Engine</b>				
Engine manufacturer	Deutz		Deutz	
Type	TCD 2012 L04 V2		TCD 4,1 L4	
Cooling	Water		Water	
Number of cylinders	4		4	
Rated power at 2,300 rpm	100 kW/134 HP/136 PS		105 kW/141 HP/143 PS	
Maximum power at 2,300 rpm	100 kW/134 HP/136 PS		105 kW/141 HP/143 PS	
Displacement	1.1 gal (4,100 cm <sup>3</sup> )		1.1 gal (4,100 cm <sup>3</sup> )	
Fuel consumption at rated power	7.1 gph (26.8 l/h)		7.5 gph (28.2 l/h)	
Fuel consumption in field mix	2.9 gph (10.8 l/h)		3 gph (11.3 l/h)	
Emission standards	EU Stage 3a/US Tier 3		EU Stage 4/US Tier 4f	
<b>Electrical system</b>				
Electrical power supply	24 V		24 V	
<b>Tank capacities</b>				
Fuel tank	60.8 gal (230 l)			
AdBlue®/DEF tank	-		4.6 gal (17.5 l)	
Hydraulic oil tank	16.6 gal (63 l)			
Water tank	158.5 gal (600 l)			
<b>Driving properties</b>				
Max. milling speed	0 to 157.5 ft/min (0 to 48 m/min) (0 to 1.8 mph (0 to 2.9 km/h))			
Max. travel speed 3-wheeled model	0 to 436.4 ft/min (0 to 133 m/min) (0 to 5 mph (0 to 8 km/h))			
Max. travel speed 4-wheeled model	0 to 656.2 ft/min (0 to 200 m/min) (0 to 7.5 mph (0 to 12 km/h))			
<b>Tires</b>				
Tire size front, 3-wheeled or 4-wheeled model (Ø x W)	20.9 in x 11.8 in (530 x 300 mm)			
Tire size rear, 3-wheeled or 4-wheeled model (Ø x W)	22 in x 10 in (559 x 254 mm)			
<b>Loading of the milled material</b>				
Belt width of discharge conveyor	13.8 in (350 mm)			
Theoretical capacity of discharge conveyor	104.6 yd <sup>3</sup> /h (80 m <sup>3</sup> /h)			

\*1 = The maximum milling depth may deviate from the value indicated due to tolerances and wear.

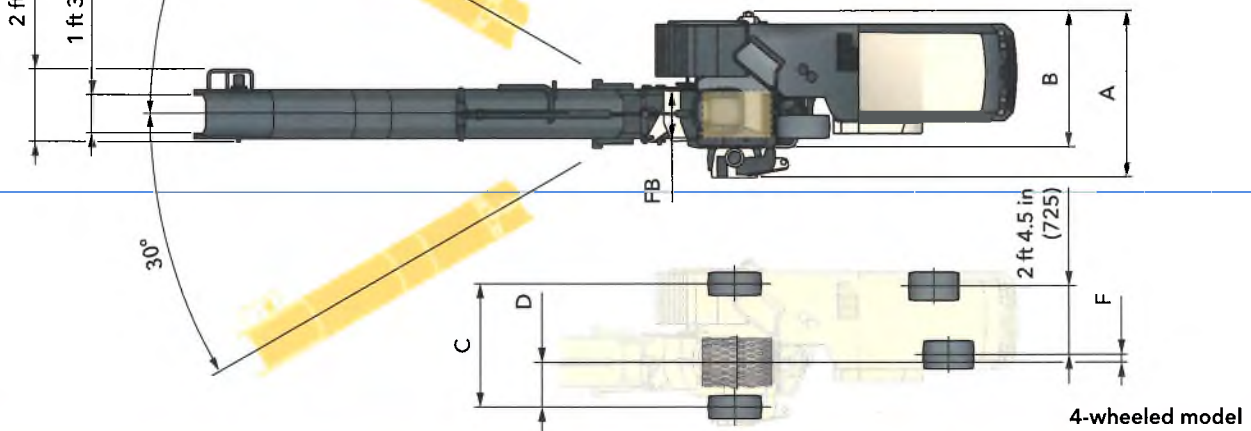
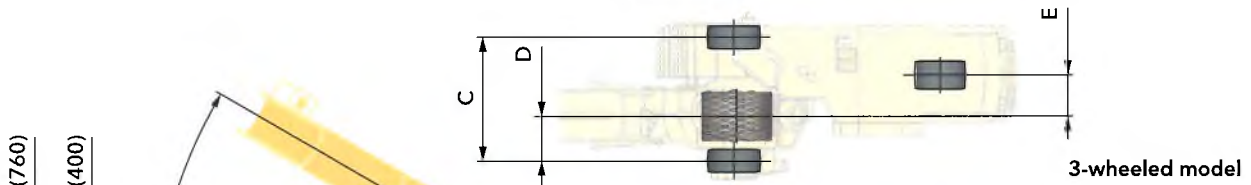
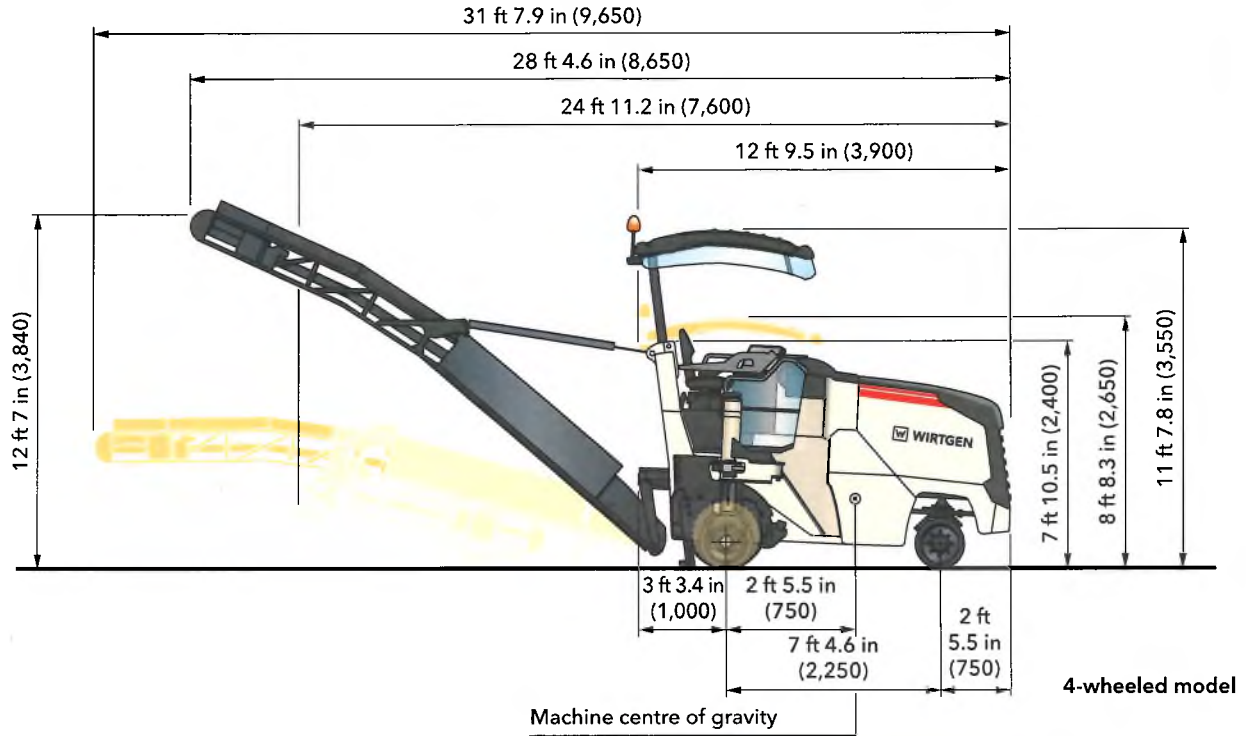


	W 50 R	W 60 R	W 50 Ri	W 60 Ri
<b>Weight of base machine</b>				
Empty weight of machine, 3-wheeled model without conveyor and tank contents	14,175.7 lbs (6,430 kg)	15,322.1 lbs (6,950 kg)	14,175.7 lbs (6,430 kg)	15,322.1 lbs (6,950 kg)
Operating weight, CE*2, 3-wheeled model without conveyor	15,278 lbs (6,930 kg)	16,424.4 lbs (7,450 kg)	15,278 lbs (6,930 kg)	16,424.4 lbs (7,450 kg)
Operating weight, max. (full tanks, full range of equipment)	21,373.8 lbs (9,695 kg)	21,748.6 lbs (9,865 kg)	21,415.7 lbs (9,714 kg)	21,790.5 lbs (9,884 kg)
<b>Weights of tank contents</b>				
Water tank filling		1,322.8 lbs (600 kg)		
Diesel tank filling (6.9 lbs/gal (0.83 kg/l))		418.9 lbs (190 kg)		
AdBlue®/DEF tank filling (9.2 lbs/gal (1.1 kg/l))		-	41.9 lbs (19 kg)	
<b>Additional add-on weights</b>				
<b>Driver and tools</b>				
Driver		165.3 lbs (75 kg)		
Weight of 2 cutting tool containers		110.2 lbs (50 kg)		
On-board tools		66.1 lbs (30 kg)		
<b>Optional milling drum assemblies in lieu of standard</b>				
Milling drum housing FB500 (20 in) with scraper system	793.7 lbs (360 kg)	-	793.7 lbs (360 kg)	-
Milling drum housing FB600 (24 in) with scraper system	-	815.7 lbs (370 kg)	-	370 kg
<b>Optional milling drums in lieu of standard</b>				
FCS milling unit FB400 (16 in) HT08 LA15 including scraper bottom parts	-121.3 lbs (-55 kg)	-	-121.3 lbs (-55 kg)	-
FCS milling unit FB300 (12 in) HT08 LA15 including scraper bottom parts	-231.5 lbs (-105 kg)	-	-231.5 lbs (-105 kg)	-
Milling drum FB80 (3 in) HT02 FT210 with 24 picks	-359.4 lbs (-163 kg)	-418.9 lbs (-190 kg)	-359.4 lbs (-163 kg)	-418.9 lbs (-190 kg)
Milling drum FB300 (12 in) HT08 LA15 with 47 picks	-189.6 lbs (-86 kg)	-	-189.6 lbs (-86 kg)	-
Milling drum FB400 (16 in) HT08 LA15 with 54 picks	-99.2 lbs (-45 kg)	-	-99.2 lbs (-45 kg)	-
Micro-fine milling drum FB500 (20 in) HT4 LA3 with 166 mini-picks	-141.1 lbs (-64 kg)	-	-141.1 lbs (-64 kg)	-
Fine milling drum FB500 (20 in) HT5 LA6 with 84 picks	11 lbs (5 kg)	-	11 lbs (5 kg)	-
Fine milling drum FB600 (24 in) HT5 LA6 with 101 picks	-	6.6 lbs (3 kg)	-	6.6 lbs (3 kg)
Milling drum Eco-Cutter FB500 (20 in) HT08 LA20 with 54 picks	-13.2 lbs (-6 kg)	-	-13.2 lbs (-6 kg)	-
Milling drum Eco-Cutter FB600 (24 in) HT08 LA20 with 58 picks	-	-28.7 lbs (-13 kg)	-	-28.7 lbs (-13 kg)
Mounting side milling wheel FB80 (3 in), FT300 compl.	-132.3 lbs (-60 kg)	-	-132.3 lbs (-60 kg)	-
<b>Optional supplementary weights</b>				
Supplementary weight for flexible use 1	837.8 lbs (380 kg)	Standard	837.8 lbs (380 kg)	Standard
Supplementary weight for flexible use 2		1,366.9 lbs (620 kg)		
<b>Optional additional equipment</b>				
Discharge conveyor, 18 ft 4 in (5,600 mm) long, 1 ft 2 in (350 mm) wide (without scraper system)		1,058.2 lbs (480 kg)		
Discharge conveyor 18 ft 4 in (5,600 mm) long, 1 ft 2 in (350 mm), with hydraulic folding device (without scraper system)		1,234.6 lbs (560 kg)		
Shortened discharge conveyor, 3 ft 7 in (1,100 mm) long, 1 ft 2 in (350 mm) wide (without scraper system)		463 lbs (210 kg)		
4-wheeled model in lieu of 3-wheeled model		286.6 lbs (130 kg)		
Canopy		330.7 lbs (150 kg)		

\*2 = Weight of machine with half-full water tank, half-full fuel tank, driver (165.3 lbs (75 kg)) and on-board tools, excluding optional equipment

# Dimensions

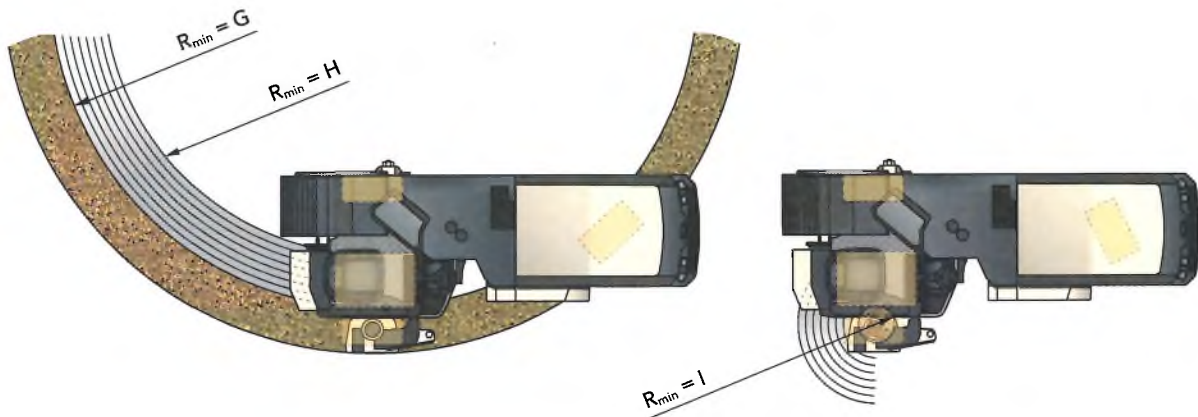
W 50 R | W 50 Ri | W 60 R | W 60 Ri



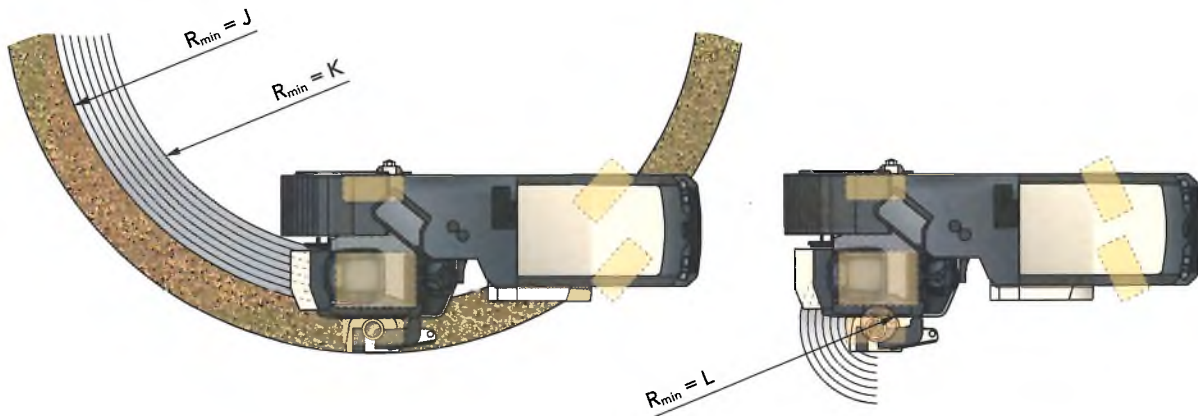
	A	B	C	D	E	F	FB
W 50 R/W 50 Ri	5 ft 4.6 in (1,640)	4 ft 5 in (1,350)	4 ft 3 in (1,296)	1 ft 5 in (435)	1 ft 5 in (435)	3.1 in (80)	1 ft 7.7 in (500)
W 60 R/W 60 Ri	5 ft 9.3 in (1,760)	4 ft 8.3 in (1,430)	4 ft 8 in (1,416)	1 ft 7 in (485)	1 ft 7 in (485)	5.1 in (130)	1 ft 11.6 in (600)

Dimensions in American standard and mm

**3-wheeled model**



**4-wheeled model**



	3-wheeled model			4-wheeled model		
	G	H	I	J	K	L
W 50 R/W 50 Ri	9 ft 6.2 in (2,900)	7 ft 10.5 in (2,400)	5.9 in (150)	7 ft 8.5 in (2,350)	6 ft 0.8 in (1,850)	5.9 in (150)
W 60 R/W 60 Ri	9 ft 10.1 in (3,000)	7 ft 10.5 in (2,400)	2 in (50)	8 ft 0.5 in (2,450)	6 ft 0.8 in (1,850)	2 in (50)

Milling radius, 2 in (50 mm) milling depth, dimensions in American standard and mm

# Standard equipment

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	W 50 R	W 60 R	W 50 Ri	W 60 Ri
<b>Base machine</b>				
Engine cover with noise insulation and flexibly decoupled engine mounting for especially quiet running and low noise emissions	■	■	■	■
<b>Milling drum unit</b>				
Automatically activating, hydraulic drive belt tensioner for reliable power transmission to the milling drum	■	■	■	■
Hydraulically lifting side plates with position measuring sensors in the hydraulic cylinders for measuring the milling depth.	■	■	■	■
Round milling drum housing and straight left side plate for optimum material transport, making for low left-over amounts when lifting out the milling drum	■	■	■	■
Prepared for using a scraper decoupled from the conveyor suspension for loading material using discharge conveyor	■	■	■	■
The right side of the milling drum housing can easily be folded down for maintenance or milling drum change	■	■	■	■
Optimized for quick change of the milling drum, including by using centering pins with the side door of the milling drum housing	■	■	■	■
With automatic electrical safety shut-off for the milling drum	■	■	■	■
Milling drum housing FB500 (20 in) without scraper system, for use without discharge conveyor	□	–	□	–
Milling drum housing FB600 (24 in) without scraper system, for use without discharge conveyor	–	□	–	□
Manually adjustable front milling drum unit seal FB500 (20 in)	□	–	□	–
Manually adjustable front milling drum unit seal FB600 (24 in)	–	□	–	□
<b>Milling drums</b>				
Milling drum FB500 (20 in) HT08 LA15 with 60 picks	□	–	□	–
Milling drum FB600 (24 in) HT08 LA15 with 70 picks	–	□	–	□
<b>Milled-out material loading</b>				
Machine prepared for optional material loading by discharge conveyor	■	■	■	■
Conveyor speed continuously variable	■	■	■	■
Conveyor slewing angle right/left 30 degrees each for significantly improved loading procedures	■	■	■	■
Slender conveyor suspension permits improved visibility to the rear	■	■	■	■
Machine without hydraulic preliminary equipment for a discharge conveyor	□	□	□	□
Machine without preliminary belt equipment and discharge conveyor	□	□	□	□
<b>Machine control and leveling system</b>				
Digital milling depth indicator in the control display	□	□	□	□
<b>Operator's stand</b>				
Operator's stand with ergonomically arranged operator's seat, control panel arranged on the right and digital milling depth indicator in the control display	■	■	■	■
Steering console with adjustable rake and reach for ideal adaptation of the operator's stand to the operator	■	■	■	■

- = Standard equipment
- = Standard equipment, replaceable with optional equipment
- = Optional equipment

	W 50 R	W 60 R	W 50 Ri	W 60 Ri
<b>Operator's stand</b>				
2 rear-view mirrors left	■	■	■	■
Machine design permits unobstructed view of the milled edge at the right and left as well as the working area in front of the milling drum on the right	■	■	■	■
Conveniently accessible ladder/footstep to the operator's stand with night-time lighting and especially low, folding bottom edge of the latter/footstep	■	■	■	■
Robust anti-vandalism protection for the controls	■	■	■	■
Standard operator's seat	□	□	□	□
<b>Under-carriage and height adjustment</b>				
Precise machine height adjustment in 0.04 or 0.2 in (1 or 5 mm) steps from the machine control panel	■	■	■	■
Infinitely variable, hydraulic all-wheel drive with three speed ranges	■	■	■	■
Digital load control, manual engageable, hydraulic differential lock (by flow distributor)	■	■	■	■
Particularly wide solid rubber tires (1 ft (300 mm)) for the lowest ground pressures and optimum traction	■	■	■	■
For milling along curb edges, the rear right support wheel can be swiveled hydraulically from the operator's stand in front of the milling drum. In addition, the machine does not have to be lowered.	■	■	■	■
Hydraulic spring-loaded brake	■	■	■	■
Proportional height adjustment at rear	■	■	■	■
3-wheel crawler unit	□	□	□	□
<b>Others</b>				
Optimized center of gravity position, irrespective of the filling levels of the water and fuel tanks	■	■	■	■
Particularly low machine center of gravity for high stability of the machine	■	■	■	■
Robust and easily maintained machine chassis with optimum ground clearance and short overhangs	■	■	■	■
Device for towing away	■	■	■	■
Reversing horn	■	■	■	■
Machine equipment with an additional weight 838 lbs (380 kg) behind the front axle. The additional weight increases the machine traction.	-	■	-	■
Large tool package with lockable tool box and additional storage space for two pick buckets	■	■	■	■
European type test certificate, Euro Test-mark and CE conformity	■	■	■	■
Paint standard cream white RAL 9001	□	□	□	□
Halogen/LED lighting package including rotating beacon	□	□	□	□

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- = Standard equipment, replaceable with optional equipment
- = Optional equipment

# Optional equipment

W 50 R | W 50 Ri | W 60 R | W 60 Ri

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	W 50 R	W 60 R	W 50 Ri	W 60 Ri
<b>Milling drum unit</b>				
Milling drum housing FB500 (20 in) with scraper system, for use with discharge conveyor	<input type="checkbox"/>	–	<input type="checkbox"/>	–
Milling drum housing FB600 (24 in) with scraper system, for use with discharge conveyor	–	<input type="checkbox"/>	–	<input type="checkbox"/>
Hydraulically adjustable front milling drum unit seal FB500 (20 in), including overload sensor	<input type="checkbox"/>	–	<input type="checkbox"/>	–
Hydraulically adjustable front milling drum unit seal FB600 (24 in), including overload sensor	–	<input type="checkbox"/>	–	<input type="checkbox"/>
Overload sensor on the scraper FB500/600 (20 in/24 in)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Active floating position for the right and left side plates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Milling drums</b>				
FCS milling unit FB300 (12 in) HT08 LA15 including scraper bottom parts	<input type="checkbox"/>	–	<input type="checkbox"/>	–
FCS milling unit FB400 (16 in) HT08 LA15 including scraper bottom parts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FCS milling unit FB500 (20 in) HT08 LA15 including scraper bottom parts	–	<input type="checkbox"/>	–	<input type="checkbox"/>
Milling drum FB80 (3 in) HT02 FT210 with 24 picks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Milling drum FB300 (12 in) HT08 LA15 with 47 picks	<input type="checkbox"/>	–	<input type="checkbox"/>	–
Milling drum FB400 (16 in) HT08 LA15 with 54 picks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fine milling drum FB500 (20 in) HT5 LA6 with 84 picks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fine milling drum FB600 (24 in) HT5 LA6 with 101 picks	–	<input type="checkbox"/>	–	<input type="checkbox"/>
Micro-fine milling drum FB500 (20 in) HT4 LA3 with 166 mini-picks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Milling drum Eco-Cutter FB500 (20 in) HT08 LA20 with 54 picks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Milling drum Eco-Cutter FB600 (24 in) HT08 LA20 with 58 picks	–	<input type="checkbox"/>	–	<input type="checkbox"/>
Mounting side milling wheel FB80 (3 in), FT300 compl.	<input type="checkbox"/>	–	<input type="checkbox"/>	–
Adapter for standard milling drum FB500 (20 in)	–	<input type="checkbox"/>	–	<input type="checkbox"/>
<b>Milled-out material loading</b>				
Machine with hydraulic preliminary equipment for a discharge conveyor - screw coupling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Machine with hydraulic preliminary equipment for a discharge conveyor - quick-change coupling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transport lock for machine with loading conveyor removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discharge conveyor, 18 ft 4 in (5,600 mm) long, 1 ft 2 in (350 mm) wide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shortened discharge conveyor, 3 ft 7 in (1,100 mm) long, 1 ft 2 in (350 mm) wide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discharge conveyor 18 ft 4 in (5,600 mm) long, 1 ft 2 in (350 mm), with hydraulic folding device	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Additional shortened discharge conveyor, 3 ft 7 in (1,100 mm) long, 1 ft 2 in (350 mm) wide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic connection adapter screw coupling for additional discharge conveyor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic connection adapter quick-change coupling for additional discharge conveyor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Material chute for discharging the milled material to the right side	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- = Standard equipment
- = Standard equipment, replaceable with optional equipment
- = Optional equipment





	W 50 R	W 60 R	W 50 Ri	W 60 Ri
<b>Machine control and leveling system</b>				
LEVEL PRO PLUS leveling system right and left	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RAPID SLOPE sensor for LEVEL PRO PLUS leveling system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Leveling boom including sensor for LEVEL PRO PLUS leveling system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Operator's stand</b>				
Comfort operator's seat incl. seat heating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operator's stand with weather canopy and lateral weather protection elements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Monitor system with 2 cameras and screen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Under-carriage and height adjustment</b>				
4-wheel crawler unit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Precision steering by pushbuttons for machine with 3-wheel chassis (up to 5 mph (8 km/h))	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Precision steering by pushbuttons for machine with 4-wheel chassis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increased traveling speed (3-wheel up to 5 mph (8 km/h), 4-wheel up to 7.5 mph (12 km/h))	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Others</b>				
Paint in one special color (RAL)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Paint in 2 special colors (RAL)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Paint in maximum two special colors with substructure in special color (RAL)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
High-power lighting package LED including rotating beacon	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Additional weight 838 lbs (380 kg) behind the front axle	<input type="checkbox"/>	-	<input type="checkbox"/>	-
Additional weight 1,367 lbs (620 kg) on underbody	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Milling drum assembly trolley for milling drums up to FB600 (24 in)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electric preheating of the fuel filter	-	-	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulic connection for additional devices on the rear of the machine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Powerful hydraulic hammer with 33 ft (10 m) connection hose.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sweeping unit with disk brush	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pre-equipped for installation of Rumble Strip kit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulically driven water filler pump	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hydraulically driven pick ejector drift	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Job data acquisition in the control display	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

= Standard equipment  
 = Standard equipment, replaceable with optional equipment  
 = Optional equipment