



Technical specification

# Cold Recycler and Soil Stabilizer WR series

WR 200 | WR 200i | WR 240 | WR 240i | WR 250



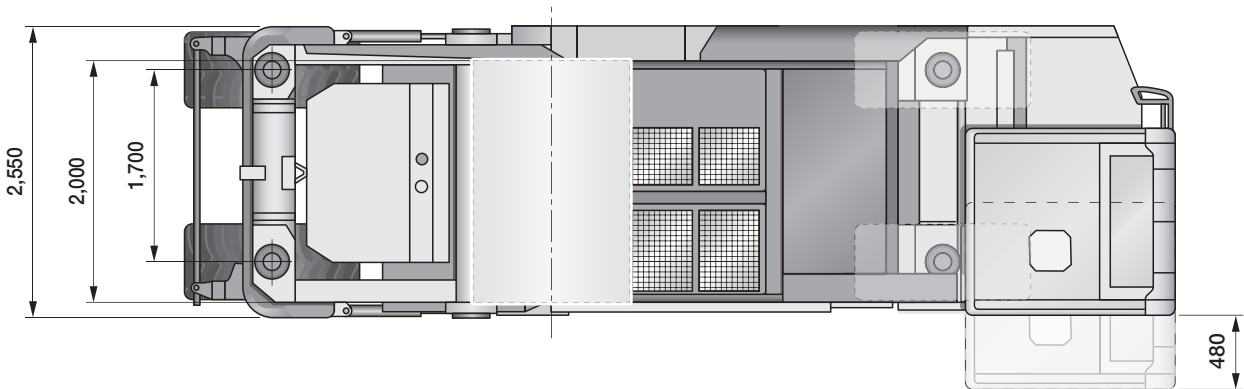
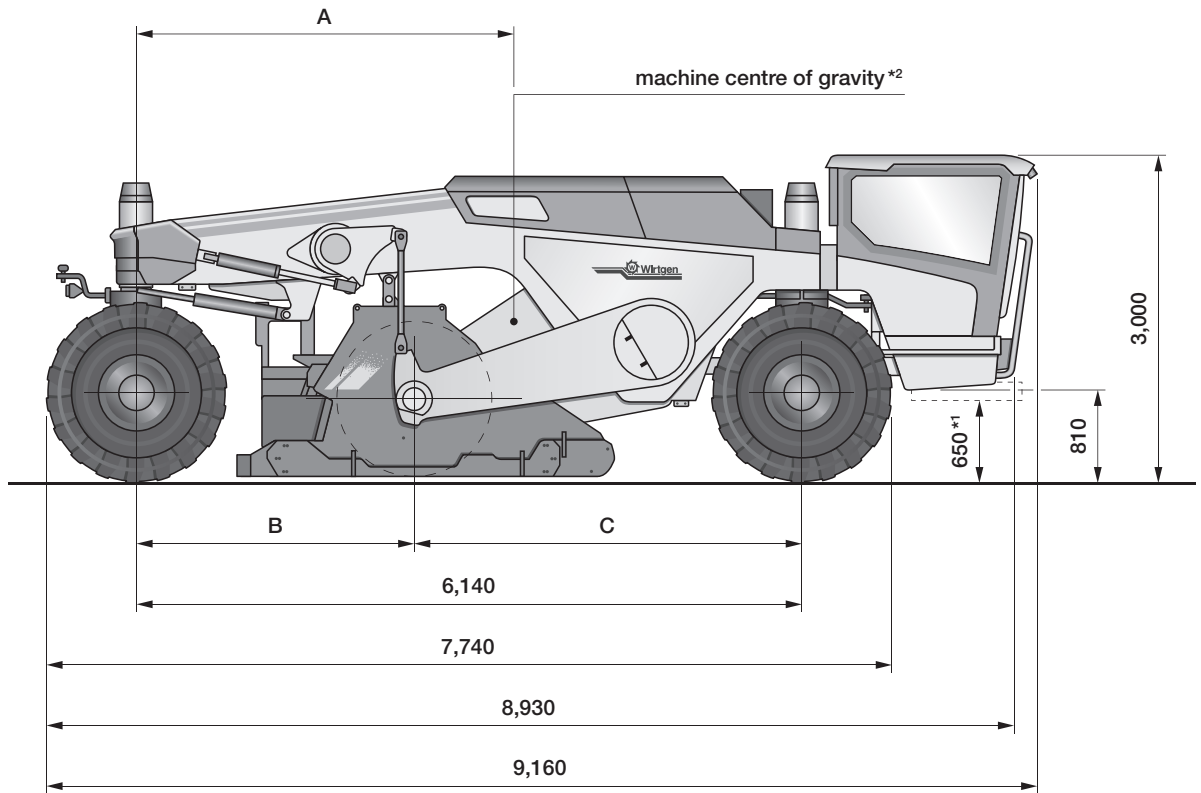
# Technical specification

	<b>Cold recycler and soil stabilizer</b>	
	<b>WR 200</b>	<b>WR 200i</b>
<b>Working width (max.)</b>	2,000 mm	
<b>Working depth *</b>	0–500 mm	
<b>Milling and mixing rotor</b>		
Tool spacing	20 mm	
Number of tools	150	
Drum diameter with tools	1,480 mm	
<b>Engine</b>		
Manufacturer	Mercedes Benz / MTU	
Type	OM 460 LA	OM 470 LA / 6R 1100
Cooling	water	
Number of cylinders	6	
Power	at 2,000 min <sup>-1</sup> : 305 kW/409 HP/415 PS	at 1,900 min <sup>-1</sup> : 308 kW/412 HP/418 PS
Maximum power	at 1,800 min <sup>-1</sup> : 315 kW/422 HP/428 PS	at 1,700 min <sup>-1</sup> : 320 kW/429 HP/435 PS
Displacement	12.8 l	10.7 l
Fuel consumption	80 l/h	77 l/h
Fuel consumption in field mix	–	–
Emission standards	EC Stage 3a / US Tier 3	EC Stage 4 / US Tier 4f
<b>Electrical system</b>	24 V	
<b>Filling capacities</b>		
Fuel tank	830 l	
AdBlue®/DEF tank	–	90 l
Hydraulic fluid tank	200 l	
Water tank	380 l	
<b>Driving properties</b>		
Travel speed in milling and travel gear	0–210 m/min (12.6 km/h)	
Transversal inclination, max.	8°	
Ground clearance	approx. 400 mm	
<b>Tyres</b>		
Tyre size, front/rear	620/75 R26	
<b>Shipping dimensions</b>		
Truck transport dimensions (L x W x H)	9,160 x 2,550 x 3,000 mm	
Ocean transport dimensions (L x W x H)	9,300 x 2,750 x 3,200 mm	

\*1 = the maximum working depth may deviate from the value indicated, due to tolerances and wear

Cold recycler and soil stabilizer		
WR 240	WR 240i	WR 250
2,400 mm		2,400 mm
0–510 mm		0–560 mm
20 mm		30x2 mm
170		208
1,480 mm		1,480 mm
	Cummins	Caterpillar
	QSX 15	C18 ATAAC
	water	water
	6	6
at 2,100 min <sup>-1</sup> : 447 kW/600 HP/608 PS	at 2,100 min <sup>-1</sup> : 433 kW/580 HP/589 PS	at 2,100 min <sup>-1</sup> : 571 kW/766 HP/777 PS
at 1,900 min <sup>-1</sup> : 455 kW/610 HP/619 PS	at 1,800 min <sup>-1</sup> : 447 kW/600 HP/608 PS	at 1,800 min <sup>-1</sup> : 571 kW/766 HP/777 PS
15 l	15 l	18.1 l
120 l/h	118 l/h	142 l/h
60 l/h	60 l/h	70 l/h
EC Stage 3a / US Tier 3	EC Stage 3b / US Tier 4i	no EC regulation / US Tier 2
	24 V	
	1,500 l	
	–	
	320 l	
	500 l	
	0–210 m/min (12.6 km/h)	
	8°	
	approx. 400 mm	
	28L - 26	
	9,230 x 3,000 x 3,000 mm	
	9,400 x 3,200 x 3,200 mm	

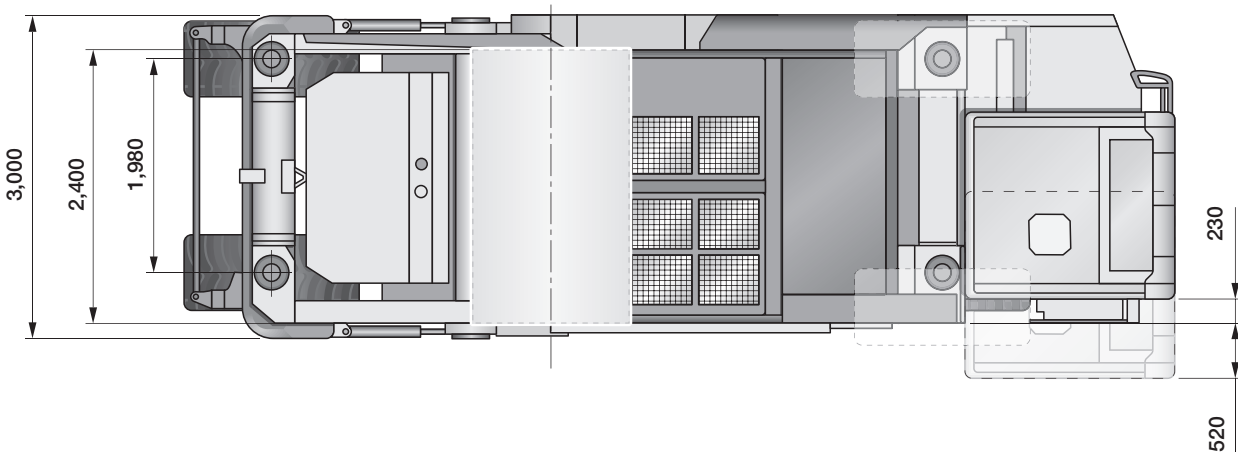
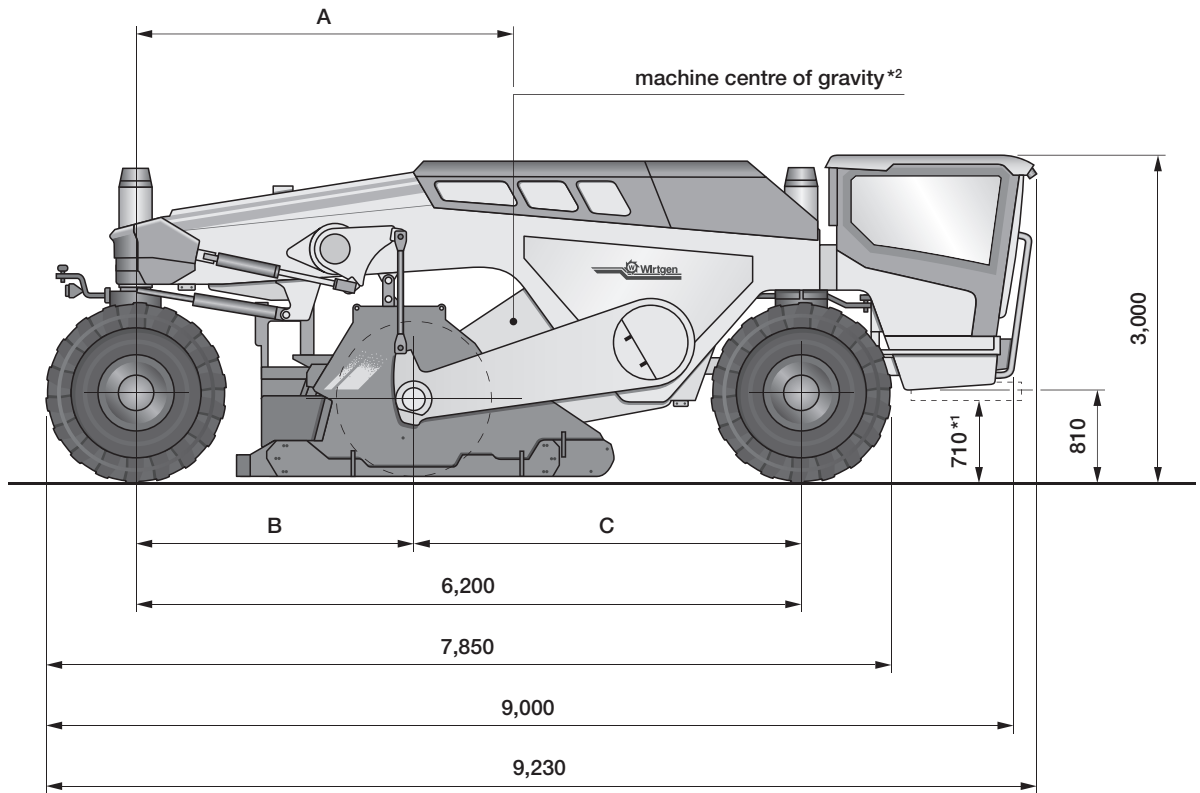
**Cold recycler and soil stabilizer WR 200/WR 200i**  
 Dimensions in mm



\*1 = with injection system  
 \*2 = based on operating weight, CE

	A	B	C
WR 200/WR 200i	3,500	2,540	3,600

**Cold recycler and soil stabilizer WR 240/WR 240i und WR 250**  
 Dimensions in mm



	A	B	C
WR 240/WR 240i	3,550	2,600	3,600
WR 250	3,500	2,550	3,650

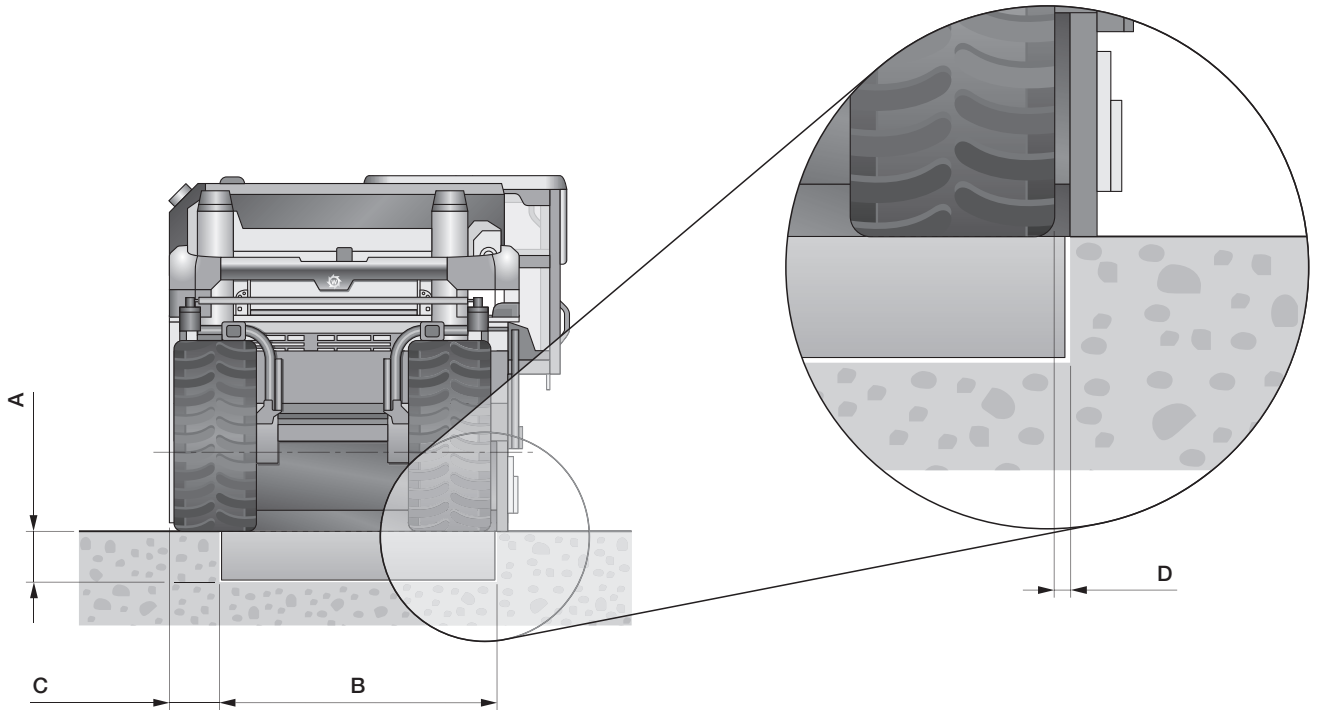
\*1 = with injection system

\*2 = based on operating weight, CE

	Machine weights			
	WR 200	WR 200i	WR 240 / WR 240i	WR 250
Empty weight of machine in standard design without filling media	23,200 kg	23,400 kg	28,400 kg	30,000 kg
Operating weight, CE*	23,900 kg	24,100 kg	29,400 kg	31,000 kg
Operating weight, max. (full tanks, full range of equipment) with ESP foamed bitumen	26,100 kg	26,400 kg	32,000 kg	33,600 kg
	Weights of filling media			
Water tank filling in kg	380 kg		500 kg	
Diesel tank filling in kg (0.83 kg/l)	690 kg		1,245 kg	
	Optional equipment features increasing / reducing empty weight			
<b>Single ESP:</b> Injection system for water or bitumen emulsion	380 kg		380 kg	
<b>Dual ESP:</b> Injection system for water and bitumen emulsion	710 kg		710 kg	
<b>ESP foamed bitumen:</b> Injection system for water and foamed bitumen	1,350 kg		1,400 kg	
<b>ESP 1800 L:</b> Injection system for water, 1,800 l/min	340 kg		350 kg	
Additional water tank (empty)	–		440 kg	
Additional water tank filling in kg	–		950 kg	

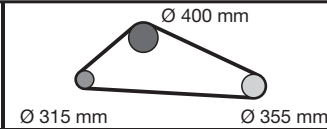
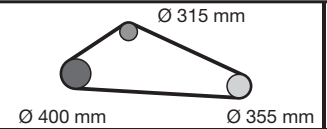
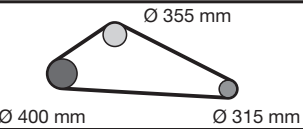






\* = machine in standard design, half-full water tank, half-full fuel tank, driver (75 kg), on-board tools

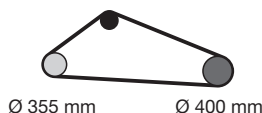









**Rear view of WR 200/WR 200i, WR 240/WR 240i and WR 250**  
**Dimensions in mm**



	A	B	C	D
WR 200/WR 200i	500	2,000	370	approx. 25
WR 240/WR 240i	510	2,400	420	approx. 50
WR 250	560	2,400	420	approx. 50

Milling rotor speed\* WR 200/WR 200i, WR 240/WR 240i and WR 250

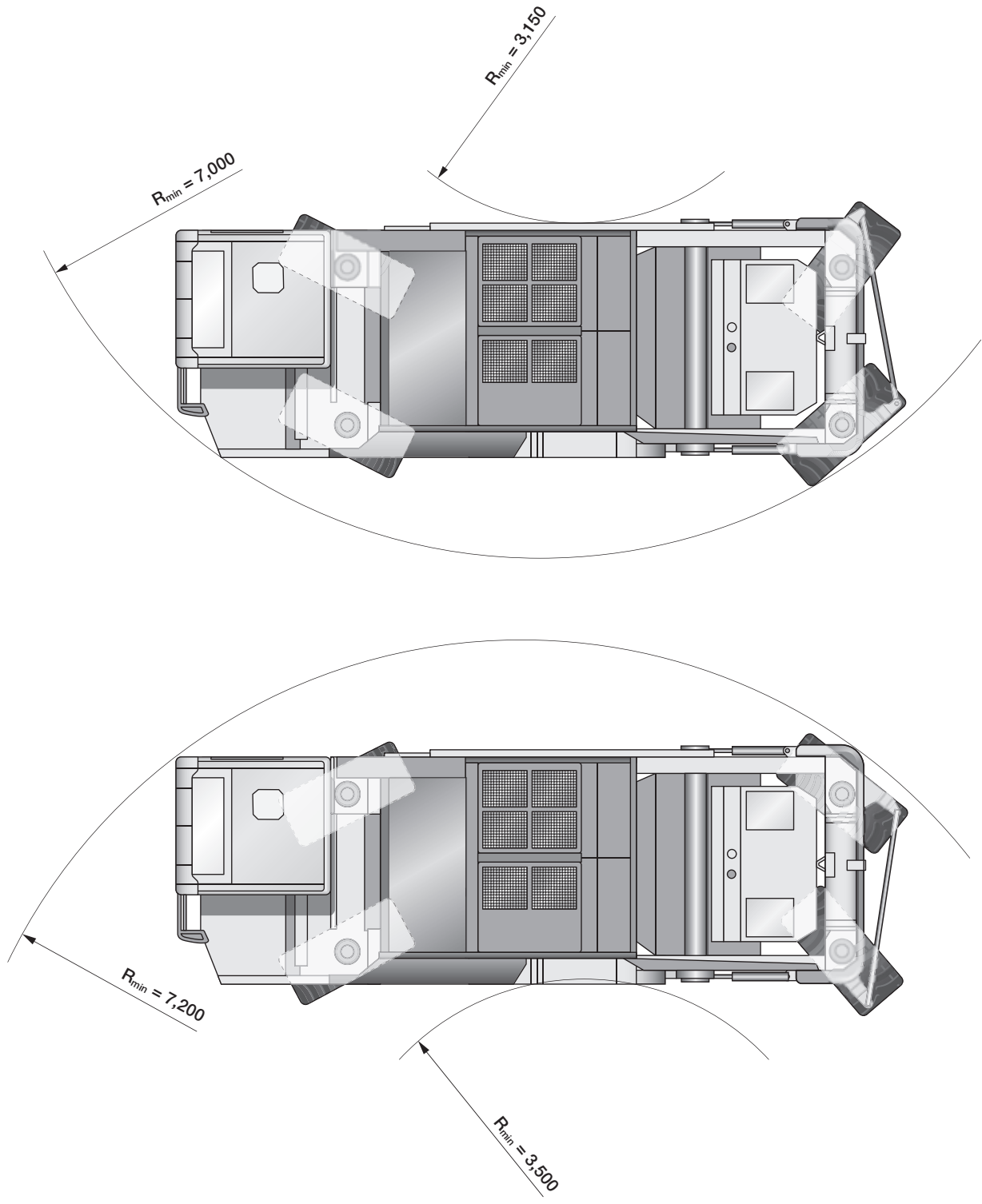
	Engine speed			
WR 200 / WR 200i		108 min <sup>-1</sup>	137 min <sup>-1</sup>	154 min <sup>-1</sup>
		117 min <sup>-1</sup>	149 min <sup>-1</sup>	168 min <sup>-1</sup>
		127 min <sup>-1</sup>	161 min <sup>-1</sup>	181 min <sup>-1</sup>
WR 240 / WR 240i		108 min <sup>-1</sup>	137 min <sup>-1</sup>	154 min <sup>-1</sup>
		120 min <sup>-1</sup>	153 min <sup>-1</sup>	172 min <sup>-1</sup>
		133 min <sup>-1</sup>	169 min <sup>-1</sup>	190 min <sup>-1</sup>

	Setting of drum gearbox	Engine speed		
WR 250			87 min <sup>-1</sup>	111 min <sup>-1</sup>
			97 min <sup>-1</sup>	124 min <sup>-1</sup>
			108 min <sup>-1</sup>	137 min <sup>-1</sup>
			129 min <sup>-1</sup>	164 min <sup>-1</sup>
			145 min <sup>-1</sup>	184 min <sup>-1</sup>
			160 min <sup>-1</sup>	203 min <sup>-1</sup>

\* = the milling rotor speed depends on the engine speed setting



Turning radius of WR 200/WR 200i, WR 240/WR 240i and WR 250  
Dimensions in mm



Equipment features	WR 200 / WR 200i	WR 240 / WR 240i	WR 250
<b>Basic machine</b>			
Free view of the milling edge, right	■	■	■
Integrated water tank	■	■	■
Right-hand wheels within the milling width	■	■	■
Engine management for optimal milling performance	■	■	■
Cooling system with temperature-governed fan speed	■	■	■
Effective engine soundproofing	■	■	■
Large storage space for cutting tool containers	■	■	■
Air compressor system	■	■	■
Standard painting in Wirtgen white with orange stripes	■	■	■
Special painting in one, two or several colours	□	□	□
Electrically operated diesel refuelling pump	□	□	□
“Wiggins” quick-filling system for diesel refuelling	□	□	□
Hydraulically operated high-pressure water cleaner, 190 bar	□	□	□
Battery-operated hydraulic module for milling drum turning device, cutting tool extractor and emergency functions	□	□	□
<b>Milling and mixing unit</b>			
Mechanical direct drive via power belt with automatic belt tensioner	■	■	■
Variable cutting speed by combining: - 3 selectable engine speeds - 3 adjustable belt pulley arrangements	■	■	-
Variable cutting speed by combining: - 3 selectable engine speeds - 2 adjustable belt pulley arrangements, and - 2-stage, switchable milling drum transmission	-	-	■
Power control during initiation of the milling process	■	■	■
Down-milling or up-milling option depending on the working direction	■	■	■
Hydraulically adjustable crusher bar	■	■	■
Hydraulically adjustable scraper blade	■	■	■
Continuous hydraulic raising and lowering of the milling rotor	■	■	■
Variable mixing chamber	■	■	■
Drum turning device for cutting tool replacement	□	□	■
Pneumatic cutting tool driver and extractor	□	□	□
Hydraulic cutting tool extractor	□	□	□
<b>Milling and mixing rotor</b>			
Milling and mixing rotor, milling width 2,000 mm, quick-change toolholder system, tool spacing 20 mm, tool shank diameter 22 mm	■	-	-
Milling and mixing rotor, milling width 2,000 mm, quick-change toolholder system, tool spacing 20 mm, tool shank diameter 25 mm	□	-	-
Milling and mixing rotor, milling width 2,400 mm, quick-change toolholder system, tool spacing 20 mm, tool shank diameter 22 mm	-	■	-
Milling and mixing rotor, milling width 2,400 mm, quick-change toolholder system, tool spacing 20 mm, tool shank diameter 25 mm	-	□	-
Milling and mixing rotor, milling width 2,400 mm, quick-change toolholder system, tool spacing 30x2 mm, tool shank diameter 22 mm	-	-	■
Milling and mixing rotor, milling width 2,400 mm, quick-change toolholder system, tool spacing 30x2 mm, tool shank diameter 25 mm	-	-	□
Replaceable edge ring segments	■	■	■

■ = standard equipment

□ = optional equipment

- = not available

Equipment features	WR 200/WR 200i	WR 240/WR 240i	WR 250
<b>Injection system</b>			
Openings for injections systems closed by means of cover panels	■	■	■
Single ESP: Injection system for water or bitumen emulsion	□	□	□
Dual ESP: Injection system for water and bitumen emulsion	□	□	□
ESP foamed bitumen: Injection system for water and foamed bitumen	□	□	□
ESP 1800 L: Injection system for water, 1,800 l/min	□	□	□
Additional water tank (950 l)	-	□	□
Suction hose for water or bitumen emulsion	□	□	□
Suction hose for hot bitumen	□	□	□
Slurry pipe to transport cement slurry from the WM 1000	-	□	□
Additional push bar	□	□	□
<b>Machine control and levelling system</b>			
Colour screen for machine data, parameter settings and diagnostics	■	■	■
Cross slope sensor to adjust the cross slope	■	■	■
Programmable automatic lowering and raising of the milling and mixing rotor to start or stop the milling process	■	■	■
Automatic functions for increased machine operator comfort	■	■	■
WIFMS interface for external data retrieval	□	□	□
<b>Operator's platform</b>			
Anti-vibration mounted comfort operator's cabin	■	■	■
ROPS and FOPS integrated in cabin frame	■	■	■
Windows with windscreen wipers for an optimal view of work areas	■	■	■
Cabin can be moved out over the right side of the machine	■	■	■
Reversing camera with visual reverse assist integrated in colour screen	■	■	■
Screen system including 3 additional cameras and display on additional screen	□	□	□
Operator's stand can be swivelled about 90 degrees	■	■	■
Heating system and roof hatch	■	■	■
Automatic climate control system integrated in roof lining	□	□	□
Various storage and shelving options	■	■	■
12-volt and 24-volt sockets	■	■	■
Fold-up access to operator's platform	■	■	■
Working lights integrated in cabin roof	■	■	■
Mirrors in the front section of the machine	■	■	■
Radio system with CD/MP3/USB/Bluetooth and two loudspeakers	□	□	□
Job data printer to keep a log of binder consumption and area performance	□	□	□
<b>Chassis and height adjustment</b>			
Continuously adjustable hydraulic all-wheel drive	■	■	■
Four-fold full-floating axle for high machine stability	■	■	■
All-wheel steering with various steering modes	■	■	■
<b>Miscellaneous</b>			
Lighting package with 14 halogen working lights	■	■	■
Lighting package with 12 LED and 2 halogen working lights	□	□	□
Comprehensive safety package with emergency stop switches	■	■	■
Comprehensive toolkit with lockable toolbox	■	■	■
European design type certification, GS mark (Geprüfte Sicherheit = Tested Safety) and CE conformity	■	■	■
Warranty of 12 months or 1,000 engine operating hours	■	■	■
Machine commissioning by qualified personnel	■	■	■

■ = standard equipment  
□ = optional equipment  
- = not available



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