



Technical specification

Cold milling machines

W 100 F - W 120 F - W 130 F

W 100 Fi - W 120 Fi - W 130 Fi

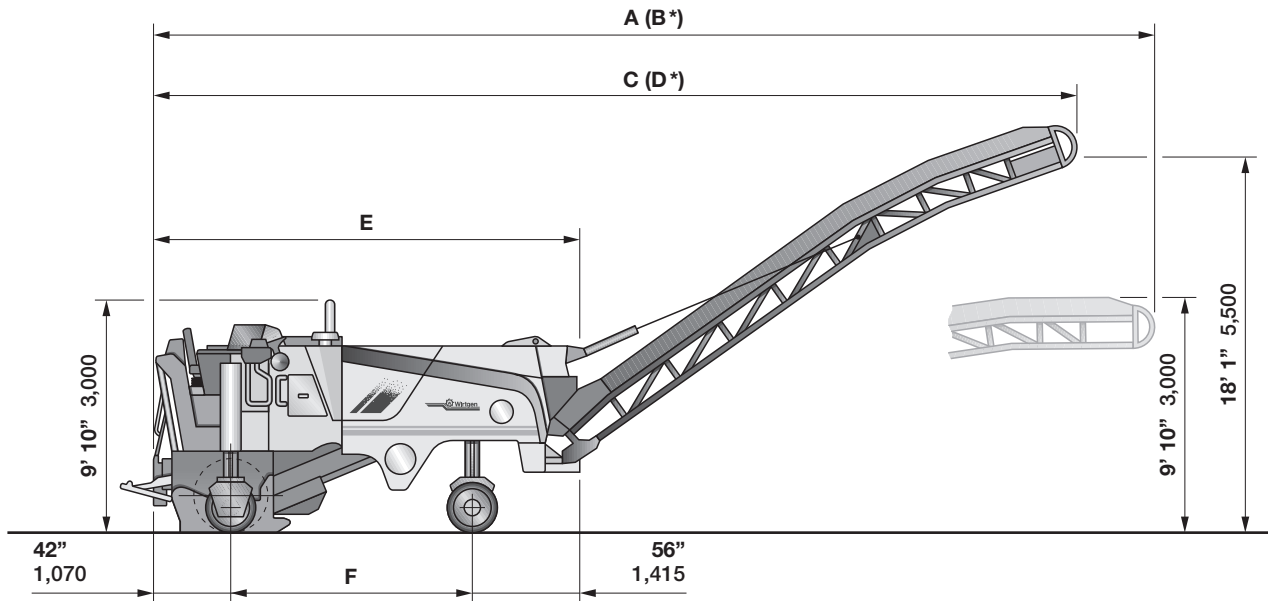


Technical specification

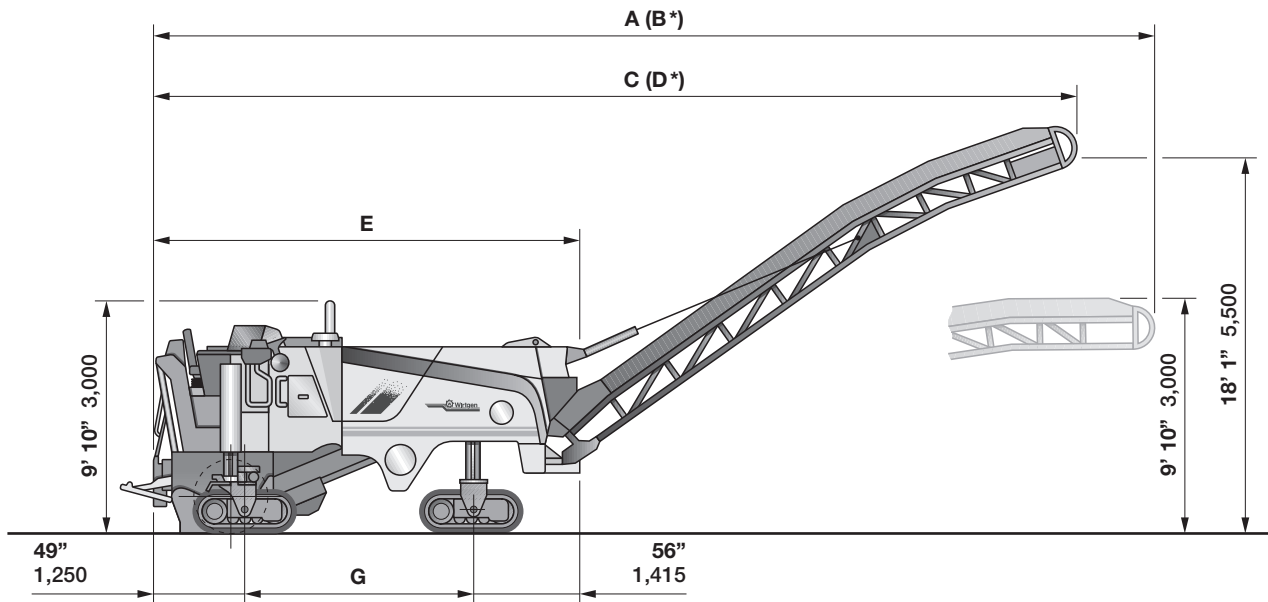
	Cold milling machine W 100 F, W 120 F, W 130 F and W 100 Fi, W 120 Fi, W 130 Fi		
Milling drum	FB 1,000	FB 1,200	FB 1,300
Milling width	39" 1,000 mm	47" 1,200 mm	51" 1,300 mm
Milling depth*1	0–13" 0–320 mm	0–13" 0–320 mm	0–13" 0–320 mm
Tool spacing	5/8" 15 mm	5/8" 15 mm	5/8" 15 mm
Number of tools	99	115	121
Drum diameter with tools	39" 980 mm	39" 980 mm	39" 980 mm
Engine	W 100 F, W 120 F, W 130 F	W 100 Fi, W 120 Fi, W 130 Fi	
Manufacturer	CUMMINS	CUMMINS	
Type	QSC 8.3	QSL 9	
Cooling	Water	Water	
Number of cylinders	6	6	
Rated power at 2,100 min ⁻¹	209 kW/280 HP/285 PS	224 kW/300 HP/305 PS	
Maximum power at 1,900 min ⁻¹	227 kW/304 HP/308 PS	239 kW/320 HP/325 PS	
Displacement	2.2 gal 8.3 l	2.4 gal 8.9 l	
Fuel consumption at rated power	16.4 gal/h 62 l/h	16.9 gal/h 64 l/h	
Fuel consumption in field mix	6.6 gal/h 25 l/h	6.9 gal/h 26 l/h	
Emission standards	EU Stage 3a/US Tier 3	EU Stage 3b/US Tier 4i	
Electrical system	24 V	24 V	
Filling capacities			
Fuel tank	163.8 gal 620 l	161.1 gal 610 l	
Hydraulic fluid tank	34.3 gal 130 l	34.3 gal 130 l	
Water tank	369.8 gal 1,400 l	354 gal 1,340 l	
Driving properties			
Travel speed in milling gear, max.	0–105 ft/min (1.2 mph) 0–32 m/min (1,9 km/h)		
Travel speed in travel gear, max.	0–410 ft/min (4.7 mph) 0–125 m/min (7,5 km/h)		
Drive unit			
Tire tracks front and rear (Ø x W)	26" x 11" 660 x 280 mm		
Crawler tracks front and rear (L x W x H)	52" x 10" x 22" 1,330 x 260 x 550 mm		
Loading the milled material			
Belt width of primary conveyor	26" 650 mm		
Belt width of discharge conveyor	24" 600 mm		
Theoretical capacity of discharge conveyor	230 yd ³ /h 176 m ³ /h		
Shipping dimensions	W 100 F, W 120 F, W 130 F	W 100 Fi, W 120 Fi, W 130 Fi	
Machine, track folded out			
Milling width FB 1,000 (L x W x H)	19' 4" x 8' 6" x 10' 2" 5,900 x 2,600 x 3,100 mm	19' 10" x 8' 9" x 10' 2" 6,050 x 2,665 x 3,100 mm	
Milling width FB 1,200 (L x W x H)	19' 4" x 9' x 10' 2" 5,900 x 2,750 x 3,100 mm	19' 10" x 9' x 10' 2" 6,050 x 2,750 x 3,100 mm	
Milling width FB 1,300 (L x W x H)	19' 4" x 9' 4" x 10' 2" 5,900 x 2,850 x 3,100 mm	19' 10" x 9' 4" x 10' 2" 6,050 x 2,850 x 3,100 mm	
Machine, track folded in			
Milling width FB 1,000 (L x W x H)	19' 4" x 7' 2" x 10' 2" 5,900 x 2,190 x 3,100 mm	19' 10" x 7' 5" x 10' 2" 6,050 x 2,255 x 3,100 mm	
Milling width FB 1,200 (L x W x H)	19' 4" x 7' 8" x 10' 2" 5,900 x 2,340 x 3,100 mm	19' 10" x 7' 8" x 10' 2" 6,050 x 2,340 x 3,100 mm	
Milling width FB 1,300 (L x W x H)	19' 4" x 8' x 10' 2" 5,900 x 2,440 x 3,100 mm	19' 10" x 8' x 10' 2" 6,050 x 2,440 x 3,100 mm	
Conveyor (L x W x H)	26' 11" x 47" x 59" 8,200 x 1,200 x 1,500 mm		

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

Cold milling machine on wheels
Dimensions in American standard and mm



Cold milling machine on crawler tracks
Dimensions in American standard and mm

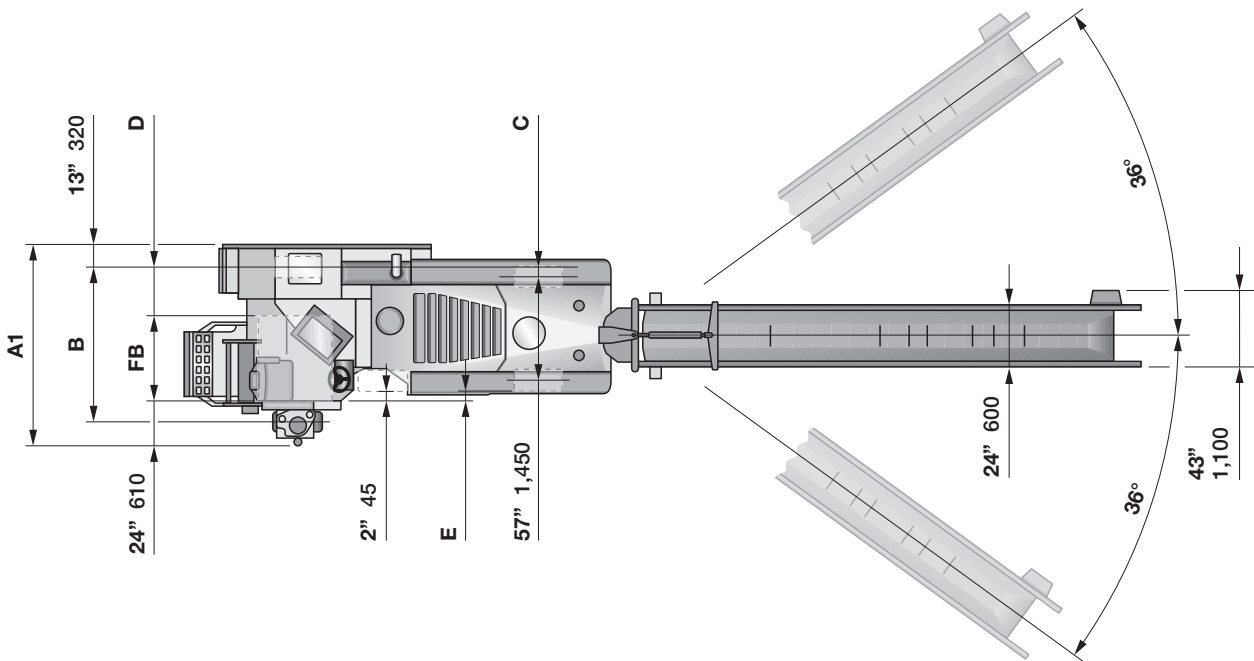


	A	B*	C	D*	E	F	G
W 100 F, W 120 F, W 130 F	44' 2" 13,450	41' 2" 12,550	41' 6" 12,650	38' 7" 11,750	18' 8" 5,700	10' 7" 3,215	9' 11" 3,035
W 100 Fi, W 120 Fi, W 130 Fi	44' 7" 13,600	41' 8" 12,700	42' 12,800	39' 1" 11,900	19' 2" 5,850	11' 3,365	10' 5" 3,185

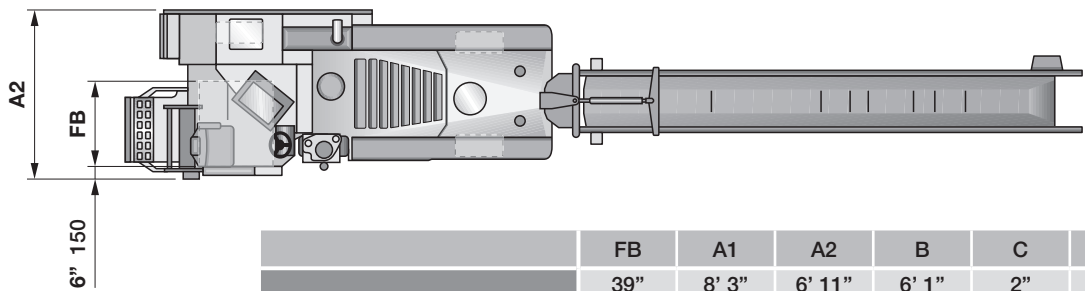
* = Folding conveyor, short

Cold milling machine on wheels
Dimensions in American standard and mm

Wheel folded out



Wheel folded in

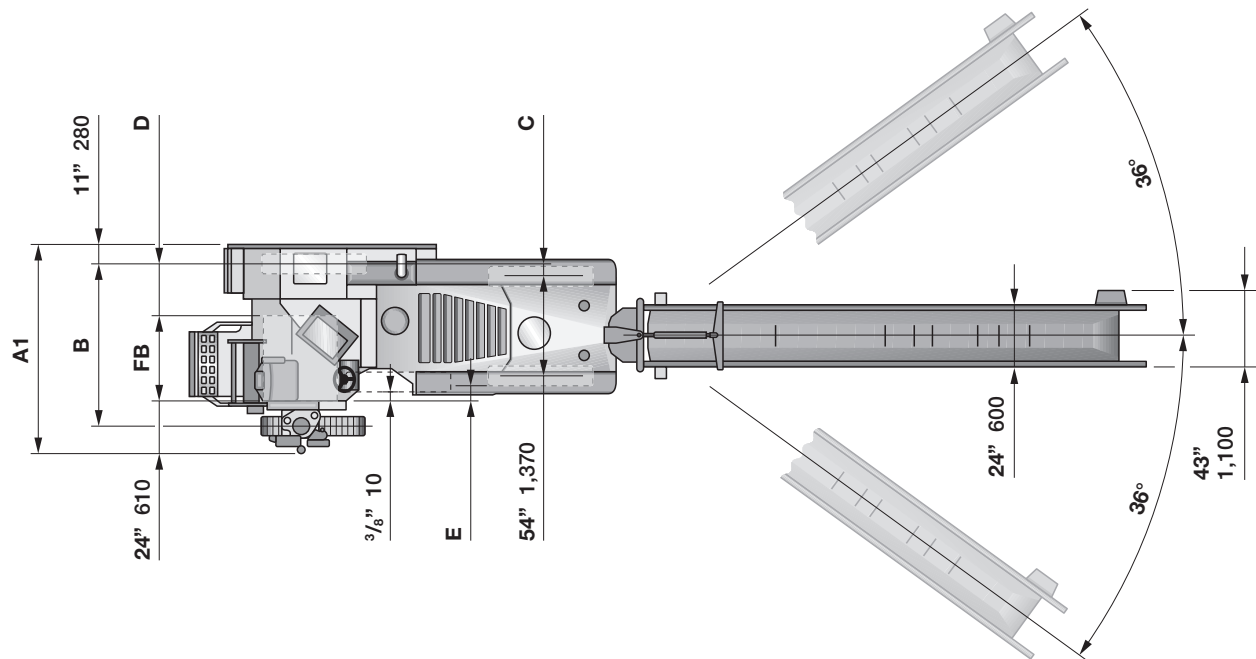


	FB	A1	A2	B	C	D	E
W 100 F, W 120 F, W 130 F	39" 1,000	8' 3" 2,510	6' 11" 2,100	6' 1" 1,850	2" 45	23" 580	1.25" 35
	47" 1,200	8' 9" 2,660	7' 5" 2,250	6' 7" 2,000	4" 105	21" 530	1.25" 35
	51" 1,300	9' 1" 2,760	7' 9" 2,350	6' 11" 2,100	4" 105	21" 530	5" 135
W 100 Fi, W 120 Fi, W 130 Fi	39" 1,000	8' 5" 2,575	7' 1" 2,165	6' 1" 1,850	2" 45	23" 580	1.25" 35
	47" 1,200	8' 9" 2,660	7' 5" 2,250	6' 7" 2,000	4" 105	21" 530	1.25" 35
	51" 1,300	9' 1" 2,760	7' 9" 2,350	6' 11" 2,100	4" 105	21" 530	5" 135

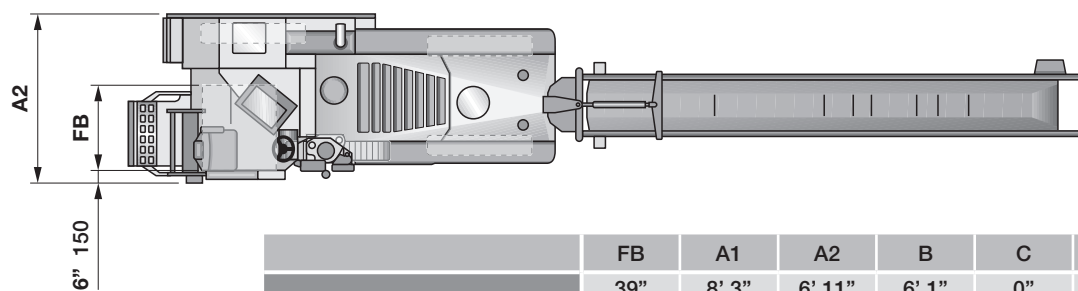
Cold milling machine on crawler tracks

Dimensions in American standard and mm

Track folded out



Track folded in

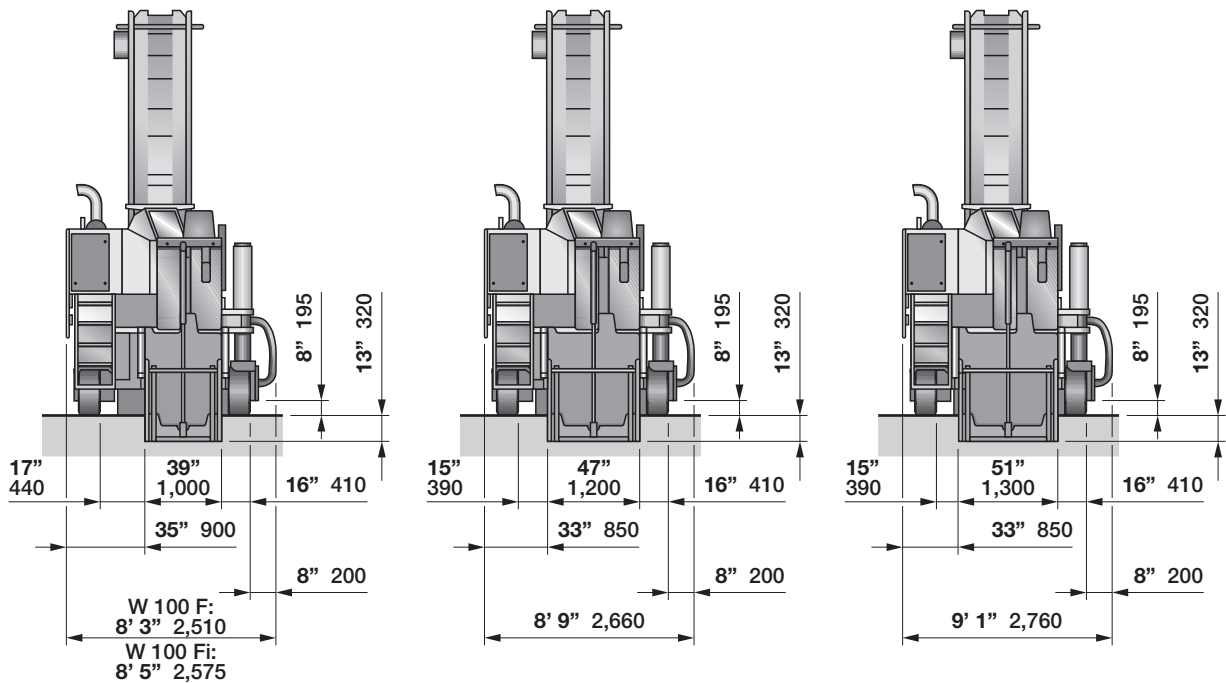


	FB	A1	A2	B	C	D	E
W 100 F, W 120 F, W 130 F	39" 1,000	8' 3" 2,510	6' 11" 2,100	6' 1" 1,850	0" 0	24" 625	5" 125
	47" 1,200	8' 9" 2,660	7' 5" 2,250	6' 7" 2,000	6" 150	22" 575	5" 125
	51" 1,300	9' 1" 2,760	7' 9" 2,350	6' 11" 2,100	6" 150	22" 575	9" 225
W 100 Fi, W 120 Fi, W 130 Fi	39" 1,000	8' 5" 2,575	7' 1" 2,165	6' 1" 1,850	0" 0	24" 625	5" 125
	47" 1,200	8' 9" 2,660	7' 5" 2,250	6' 7" 2,000	6" 150	22" 575	5" 125
	51" 1,300	9' 1" 2,760	7' 9" 2,350	6' 11" 2,100	6" 150	22" 575	9" 225

	Machine weights W 100 F	Machine weights W 100 Fi
Empty weight of machine without filling media	38,360 lbs 17,400 kg	39,132 lbs 17,750 kg
Operating weight, CE*	40,704 lbs 18,463 kg	41,299 lbs 18,733 kg
Operating weight, max. (full tanks, full range of equipment)	49,813 lbs 22,595 kg	50,343 lbs 22,835 kg
	Machine weights W 120 F	Machine weights W 120 Fi
Empty weight of machine without filling media	40,345 lbs 18,300 kg	41,006 lbs 18,600 kg
Operating weight, CE*	42,688 lbs 19,363 kg	43,283 lbs 19,633 kg
Operating weight, max. (full tanks, full range of equipment)	52,216 lbs 23,685 kg	52,746 lbs 23,925 kg
	Machine weights W 130 F	Machine weights W 130 Fi
Empty weight of machine without filling media	41,226 lbs 18,700 kg	41,888 lbs 19,000 kg
Operating weight, CE*	43,570 lbs 19,763 kg	44,165 lbs 20,033 kg
Operating weight, max. (full tanks, full range of equipment)	53,209 lbs 24,135 kg	53,738 lbs 24,375 kg
	Weights of filling media W 100 F, W 120 F, W 130 F	Weights of filling media W 100 Fi, W 120 Fi, W 130 Fi
Water tank filling	3,087 lbs 1,400 kg	2,954 lbs 1,340 kg
Diesel tank filling (6.93 lbs/gal 0.83 kg/l)	1,135 lbs 515 kg	1,116 lbs 506 kg
	Optional equipment features increasing / reducing empty weight	
Driver and tools		
Driver	165 lbs 75 kg	
Weight of 5 cutting tool containers	276 lbs 125 kg	
On-board tools	66 lbs 30 kg	
Optional milling drum assemblies in lieu of standard		
Milling drum housing, milling width 39" (1,000 mm), FCS-L	617 lbs 280 kg	
Milling drum housing, milling width 47" (1,200 mm), FCS-L	728 lbs 330 kg	
Milling drum housing, milling width 51" (1,300 mm), FCS-L	816 lbs 370 kg	
Tandem scraper	397 lbs 180 kg	
Optional milling drums in lieu of standard		
Milling drum, milling 39" (1,000 mm), tool spacing 15, HT11, FCS-L	132 lbs 60 kg	
Milling drum, milling width 47" (1,200 mm), tool spacing 15, HT11, FCS-L	132 lbs 60 kg	
Milling drum, milling width 51" (1,300 mm), tool spacing 15, HT11, FCS-L	132 lbs 60 kg	
Milling drum, milling 39" (1,000 mm), tool spacing 8, HT11, FCS-L	882 lbs 400 kg	
Milling drum, milling width 47" (1,200 mm), tool spacing 8, HT11, FCS-L	970 lbs 440 kg	
Milling drum, milling width 51" (1,300 mm), tool spacing 8, HT11, FCS-L	1,014 lbs 460 kg	
Milling drum, milling 39" (1,000 mm), tool spacing 6x2, FCS-L	705 lbs 320 kg	
Milling drum, milling width 47" (1,200 mm), tool spacing 6x2, FCS-L	772 lbs 350 kg	
Milling drum, milling width 51" (1,300 mm), tool spacing 6x2, FCS-L	794 lbs 360 kg	
Optional additional equipment		
Crawler tracks in lieu of wheels	3,087 lbs 1,400 kg	
Canopy in lieu of standard	441 lbs 200 kg	
Short folding conveyor in lieu of standard	88 lbs 40 kg	
Long folding conveyor in lieu of standard	198 lbs 90 kg	
VCS – Vacuum Cutting System	331 lbs 150 kg	
Supplementary weight for flexible use, milling 39" (1,000 mm)	948 lbs 430 kg	
Supplementary weight for flexible use, milling width 47" (1,200 mm) or 51" (1,300 mm)	1,191 lbs 540 kg	

* = weight of machine with half-full water tank, half-full fuel tank, driver (165 lbs (75 kg)) and on-board tools

Rear view of machine with different milling width options, wheeled model
 Dimensions in American standard and mm

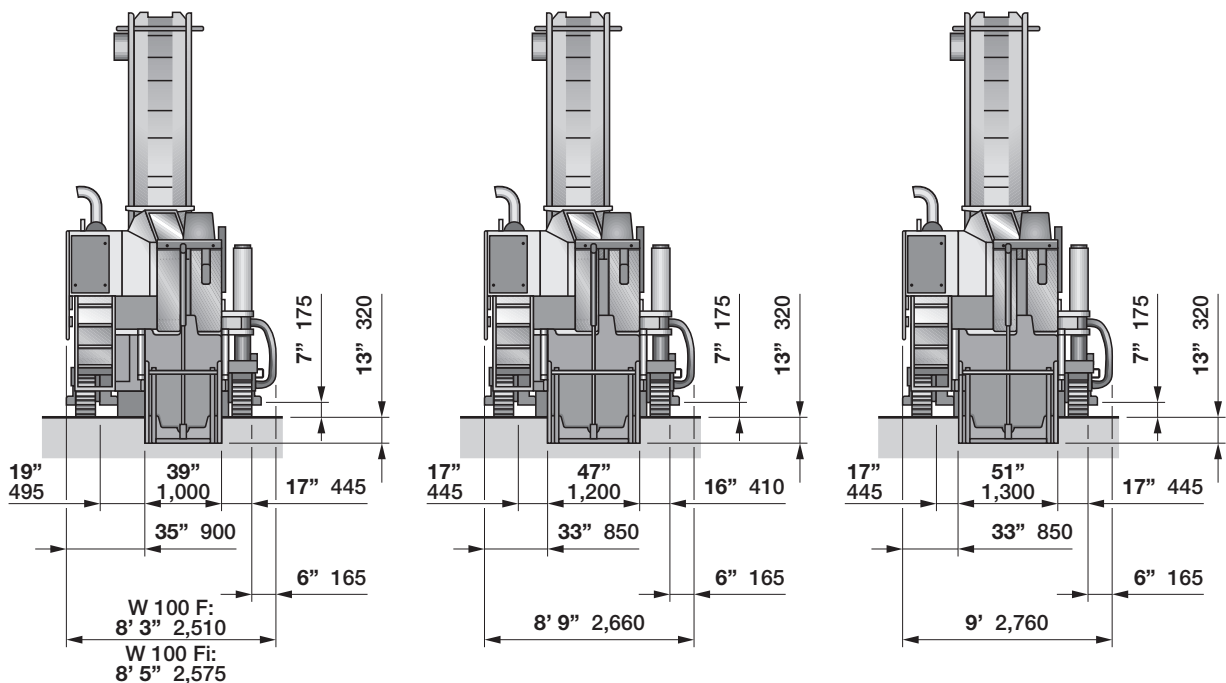


Cold milling machine W 100 F/W 100 Fi

Cold milling machine W 120 F/W 120 Fi

Cold milling machine W 130 F/W 130 Fi

Rear view of machine with different milling width options, tracked model
 Dimensions in American standard and mm

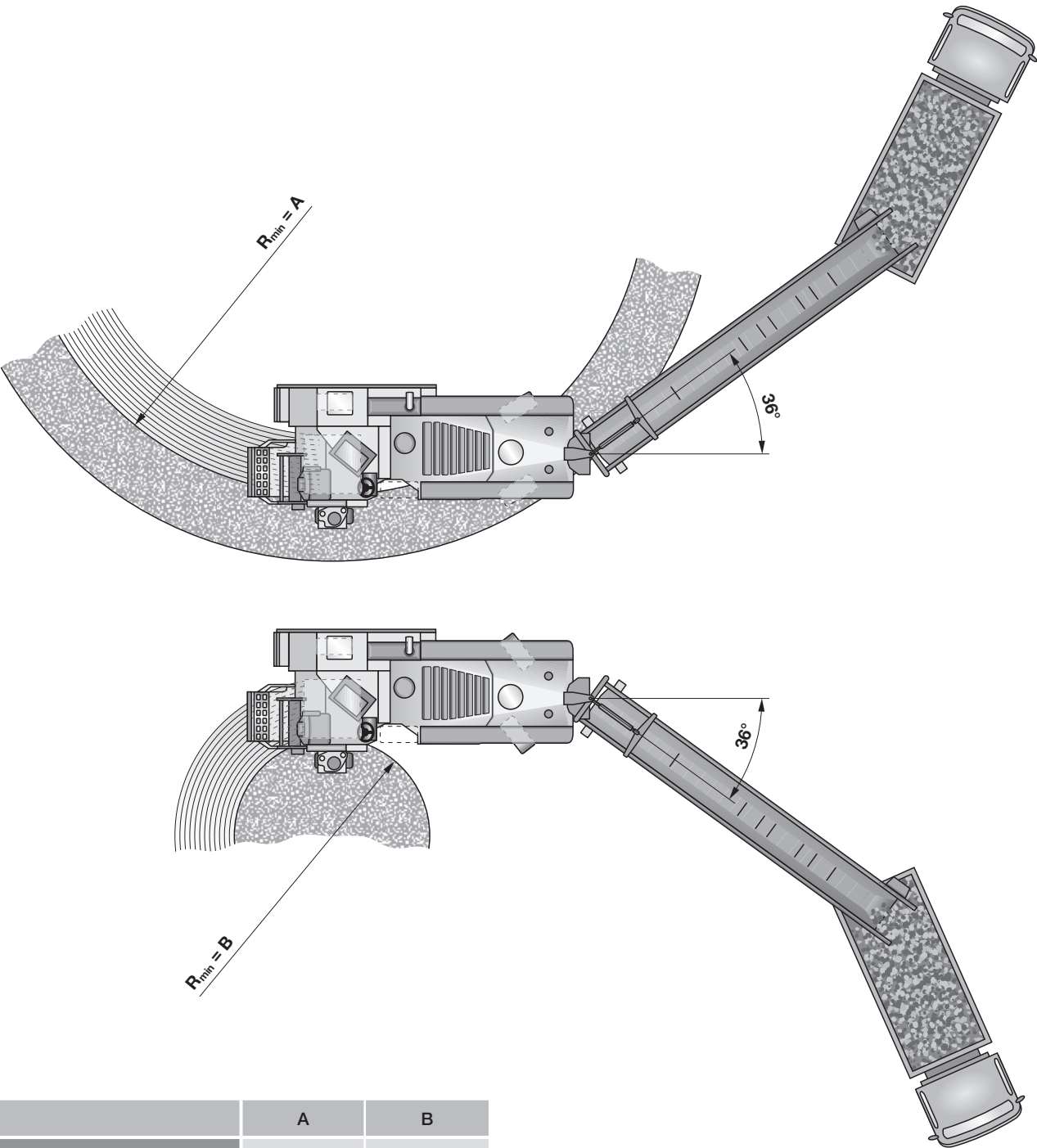


Cold milling machine W 100 F/W 100 Fi

Cold milling machine W 120 F/W 120 Fi

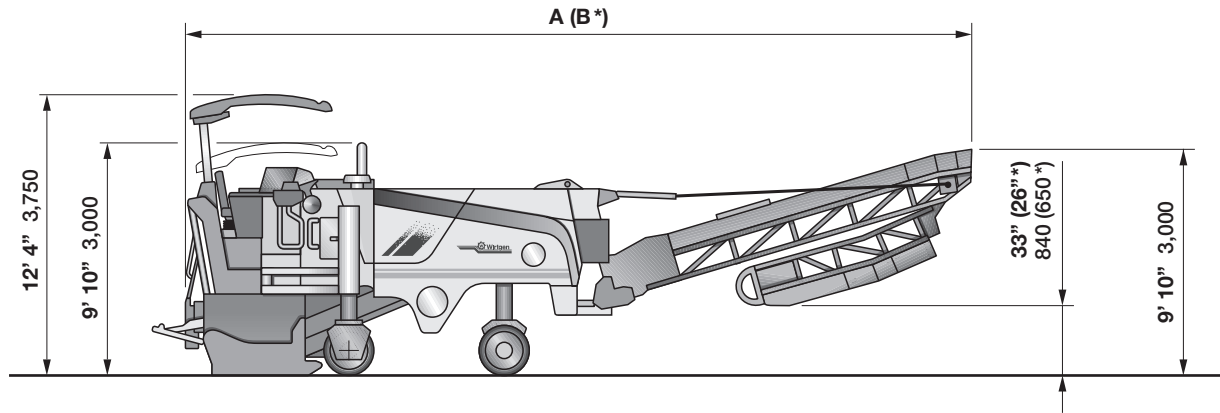
Cold milling machine W 130 F/W 130 Fi

Milling radius, milling depth 6" (150 mm)
Dimensions in American standard and mm



	A	B
W 100 F, W 120 F, W 130 F	14' 5" 4,400	6' 3" 1,900
W 100 Fi, W 120 Fi, W 130 Fi	14' 9" 4,500	6' 7" 2,000

Machine transport with optional canopy and folding conveyor
Dimensions in American standard and mm



	A	B*
W 100 F, W 120 F, W 130 F	34' 7" 10,535	31' 5" 9,585
W 100 Fi, W 120 Fi, W 130 Fi	35' 1" 10,685	31' 11" 9,735

* = Folding conveyor, short

Equipment features of cold milling machine W 100 F, W 120 F, W 130 F / W 100 Fi, W 120 Fi, W 130 Fi

Standard equipment:

Basic machine with engine

- Mechanically opening, soundproof engine cowl
- Water cooler with temperature-related fan speed
- Highly effective soundproofing of entire engine compartment
- Situation-dependent automatic engine speed control
- Elastically mounted engine station to reduce vibrations and noise
- Standard painting in Wirtgen white with orange stripes

Milling drum housing

- Right-hand side plate in hinged design
- Hydraulically opening scraper blade with mechanical locking mechanism

Milling drums

- Milling drum, milling width 39" (1,000 mm), tool spacing 15 mm, HT11 quick-change toolholder system
- Mechanical milling drum drive via multiple V-belts with automatic belt tensioner

Loading of milled material

- Heavy-duty discharge conveyor, 26' 11" (8,200 mm) long, with 24" (600 mm) wide belt system
- Discharge conveyor slewing angle 36 degrees left, 36 degrees right
- Conveyor system with adjustable conveying speed

Machine and leveling control

- Mechanical milling depth indication via dials
- Manually engageable hydraulic traction control (flow divider)
- Manually engageable maximum milling speed control
- Automatically engaging high-pressure water system
- Water spray bar in milling drum assembly
- Water spray system at primary conveyor

Operator's platform

- Individually adjustable driver's seat on the right side of the machine
- Adjustable steering wheel
- Convenient control panel with practical switches
- Right-hand armrest including major operating functions
- Digital multi-functional display for all important operation parameters
- Lockable control panel cover
- Access to operator's platform at the rear left of the machine
- Exterior rear view mirrors left and right, as well as at the left side of the operator's platform
- Reversing horn with clearly audible sound
- Illuminated control panel/night design

Chassis and height adjustment

- Infinitely variable, hydrostatic all-wheel drive
- Differential lock selectable in both forward and reverse gear
- Hydraulically folding wheel/crawler track unit at the rear right
- Hydraulic height adjustment at the front wheel/crawler track units
- Hydraulic height adjustment with two speed settings at the rear wheel/crawler track units
- Low-resistance wheel units for maximum maneuverability

Miscellaneous

- Lighting package with 6 halogen working lights
- Comprehensive tool kit
- Towing device
- Generously dimensioned water and fuel tanks
- Comprehensive safety package with several emergency stop switches
- European design type certification, GS mark (Geprüfte Sicherheit = Tested Safety) and CE conformity
- Standard warranty of 12 months or 1,000 engine operating hours
- Machine commissioning by qualified personnel

Optional equipment:

Basic machine with engine

- Air compressor system
- Special painting in one, two or several colors

Milling drum housing

- Milling drum housing in FCS Light design, milling width 39" (1,000 mm), 47" (1,200 mm), 51" (1,300 mm)
- Milling drum housing in full FCS design, milling width 39" (1,000 mm), 47" (1,200 mm), 51" (1,300 mm)
- Hydraulically lifting side plates
- Pneumatic cutting tool driver and extractor

Milling drums

- Milling drums with HT11, tool spacing 1" (25 mm), for FCS
- Milling drums with HT11, tool spacing $\frac{5}{16}$ " (8 mm), for FCS
- Milling drums with HT5, tool spacing $\frac{1}{4}$ "x2 (6x2 mm), for FCS
- Mounting carriage for milling drums

Loading of milled material

- Hydraulically folding discharge conveyor, 26' 11" (8,200 mm) long
- Hydraulically folding discharge conveyor, 23' 11" (7,300 mm) long
- VCS – vacuum cutting system

Machine and leveling control

- LEVEL PRO automatic leveling system with 2 wire-rope sensors
- Slope sensor

Operator's platform

- Hydraulically retracting, stable protective canopy

Machine and leveling control

- Crawler track units with highly wear-resistant, two-piece polyurethane track pads
- Steering option for rear right wheel/crawler track unit in folded-in position

Miscellaneous

- Lighting system with headlights, rear reflectors and four direction indicators
- Hydraulically operated water filling pump
- Hydraulically operated high-pressure water cleaner (max. 200 bar)
- Bolt-on supplementary weight, 948 lbs (430 kg); 1,191 lbs (540 kg) for milling widths 47" / 51" (1,200 mm / 1,300 mm)



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