MONTANA
Department of Transportation

MDT-BRG-015 04/23

Montana Department of Transportation
Bridge Bureau
Approved Construction Equipment List

Make:	*Wirtgen*
Model:	*W 210 Fi*
Equipment Type:	*Milling Machine*
Contractor Modifications:	*None*

Interstate Approval Conditions

Approval Type	*Crossing Only*
Speed:	*No Restriction*
Weight:	*80,300 lb or less*
Traffic:	*Approved with regular traffic*
Location Restrictions:	*No Restriction*

Non-Interstate Approval Conditions

Approval Type	*DENIED*
Speed:	*DENIED*
Weight:	*DENIED*
Traffic:	*DENIED*
Location Restrictions:	*DENIED*

Comments:

Equipment configuration, weights, and specifications on following pages. Approval does not apply to posted bridges. Other construction equipment is not allowed to operate on or cross bridge at the same time this equipment is on the bridge.

Technical specification

W 210 Fi (US standard)

Milling drum	
Milling width, standard	7 ft 3 in (2,200 mm)
Milling width, optional 1	6 ft 7 in (2,000 mm)
Milling width, optional 2	8 ft 2 in (2,500 mm)
Milling depth *1	0 to 1ft 1 in (0 to 330 mm)
Cutting diameter	3 ft 4 in (1,020 mm)
Engine	
Manufacturer	Caterpillar
Type	C18 ATAAC
Cooling	Water
Number of cylinders	6
Rated power at 1,950 min^{-1}	563 kW/755 HP/766 PS
Maximum power at 1,700 min^{-1}	563 kW/755 HP/766 PS
Displacement	4.8 gal (18.1 l)
Fuel consumption at rated power | Fuel consumption, field mix	38.8 gal/h (147 l/h) | 15.5 gal/h (59 l/h)
Exhaust emission standards	US EPA Tier 4f
Sound power level in accordance with DIN EN 500-2 Engine | operator's stand	≤ 112 dB(A) | ≥ 80 dB(A)
Electrical system	
Voltage supply	24 V
Filling capacities	
Fuel	317 gal (1,200 l)
Hydraulic oil	26.5 gal (100 l)
Water	865 gal (3,270 l)
Driving performance	
Max. travel and milling speed	0 to 330 ft/min (3.7 mph) (0 to 100 m/min (6 km/h))
Track units	
Track units, front and rear (L x W x H)	5 ft 8 in x 11.8 in x 2 ft (1,730 x 300 x 610 mm)
Loading of the milled material	
Belt width of primary conveyor	2 ft 9 in (850 mm)
Belt width of discharge conveyor	2 ft 9 in (850 mm)
Theoretical capacity of discharge conveyor	490 yd^3/h (375 m^3/h)

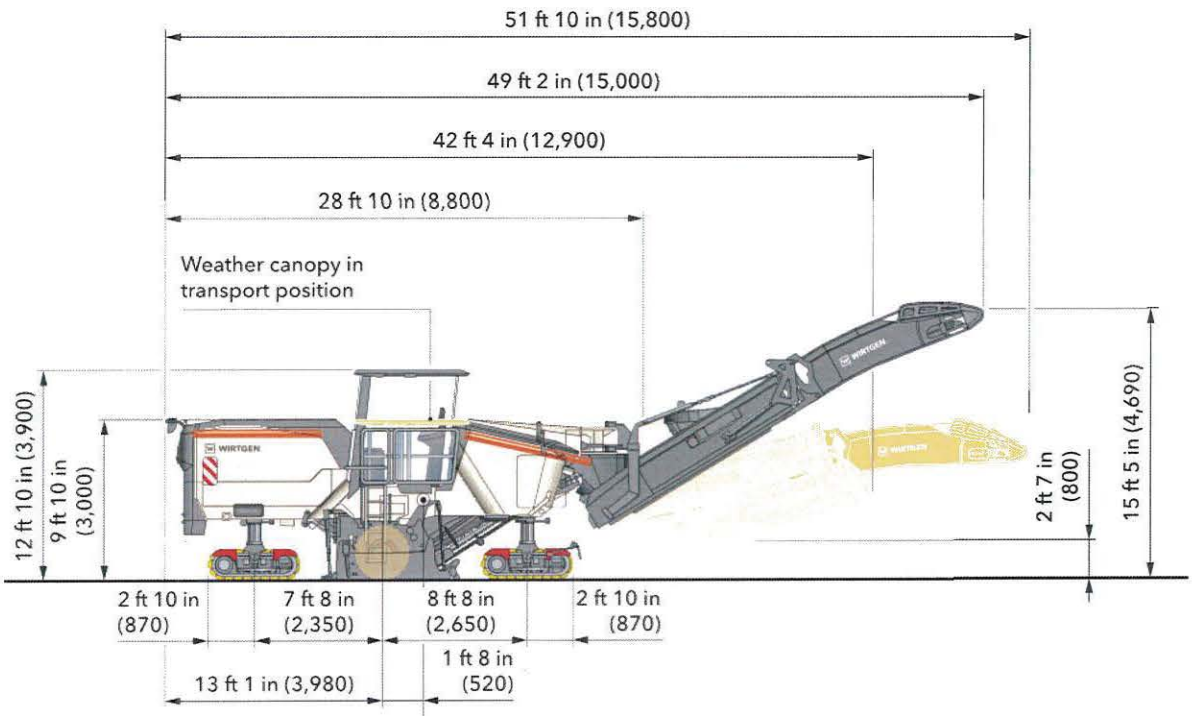
*1 = The maximum milling depth may deviate from the value indicated due to tolerances and wear.

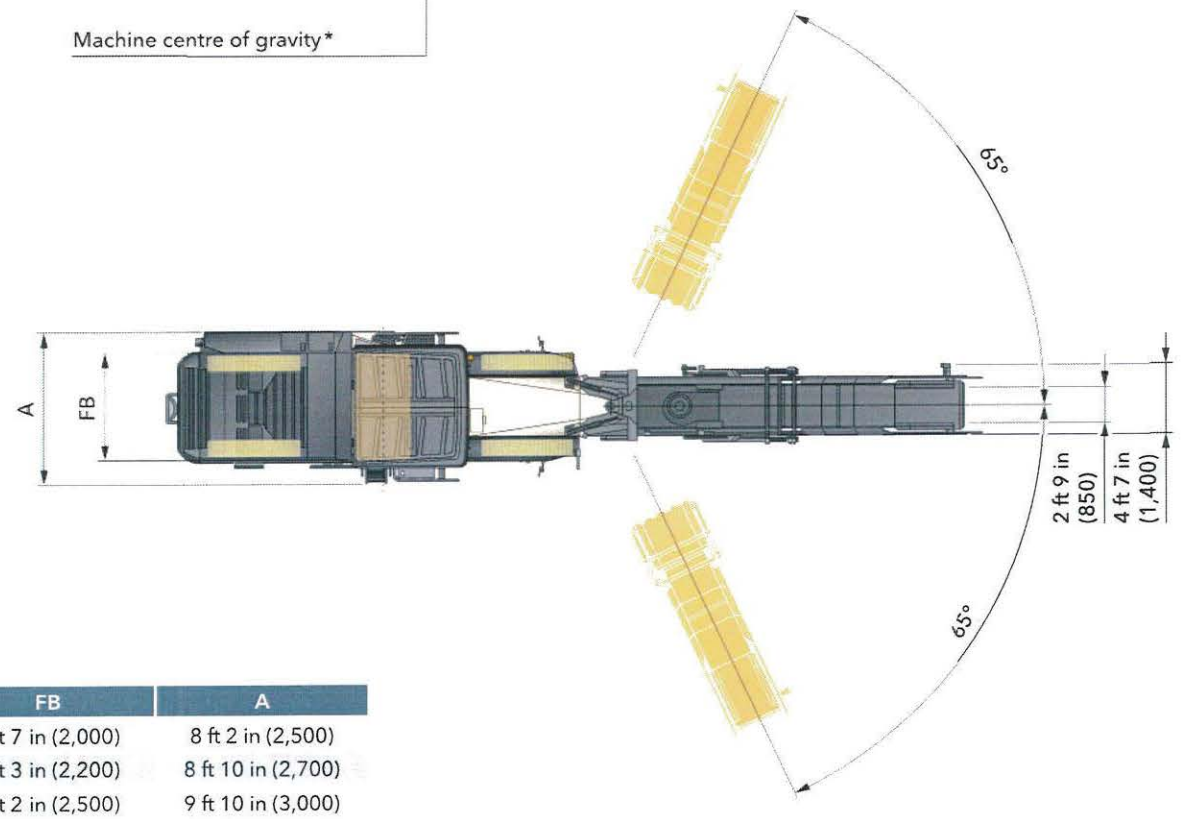
Weight of machine - Basic	
Empty weight of machine excluding operating fluids	59,400 lbs (27,000 kg)
Operating weight, CE*[2]	64,500 lbs (29,300 kg)
Maximum operating weight (full tanks, full range of equipment), in FB2500	80,300 lbs (36,500 kg)
Weight of machine - US standard	
Empty weight of machine excluding operating fluids	67,100 lbs (30,500 kg) US standard
Shipping weight, US standard (full fuel tanks, without water)	69,700 lbs (31,700 kg)
Weights of operating fluids	
Water	7,200 lbs (3,270 kg)
Fuel (6.9 lbs/gal (0.83 kg/l))	2,200 lbs (1,000 kg)
Additional add-on weights	
Operator and tools	
Operator	165 lbs (75 kg)
5 pick containers	275 lbs (125 kg)
On-board tools	65 lbs (30 kg)
Optional milling drum units in lieu of standard	
Quick-change milling drum unit FB2000 **MCS *BASIC***	1,500 lbs (670 kg)
Quick-change milling drum unit FB2200 **MCS *BASIC***	2,000 lbs (920 kg) US standard
Quick-change milling drum unit FB2500 **MCS *BASIC***	2,750 lbs (1,240 kg)
Optional MCS milling drums in lieu of standard	
Milling drum **MCS *BASIC*** FB2000 **HT22** LA15 with 162 picks	550 lbs (250 kg)
Milling drum **MCS *BASIC*** FB2000 **HT22** LA18 with 146 picks	500 lbs (225 kg)
Milling drum **MCS *BASIC*** FB2200 **HT22** LA15 with 175 picks	1,050 lbs (470 kg) US standard
Milling drum **MCS *BASIC*** FB2200 **HT22** LA18 with 155 picks	750 lbs (340 kg)
Milling drum **MCS *BASIC*** FB2500 **HT22** LA18 with 171 picks	1,250 lbs (570 kg)
Optional additional equipment	
Operator's platform with functional stand-up seat and large storage compartment	200 lbs (80 kg) US standard
Operator's platform with functional stand-up seat, a large storage compartment and weather canopy	1,300 lbs (600 kg)
Operator's platform including a high-quality comfort cabin	1,900 lbs (850 kg)
Two-piece additional weight with a total weight of 3,500 lbs (1,600 kg)	3,500 lbs (1,600 kg) US standard
Large storage compartment on rear of machine for 69 pick containers	350 lbs (150 kg)
Extension of **MCS *BASIC*** with a hydraulically opening side door	300 lbs (140 kg) US standard
VCS extraction system	300 lbs (140 kg) US standard
Extension of **LEVEL PRO *ACTIVE*** with two levelling booms mounted on the right and left	100 lbs (75 kg)
Extension of **LEVEL PRO *ACTIVE*** with a hydraulic sensor mounted on the right	140 lbs (65 kg)
Extension of **LEVEL PRO *ACTIVE*** with two hydraulic sensors mounted on the right and left	250 lbs (110 kg) US standard

*[2] = Weight of machine, half weight of all operating materials, machine operator, on-board tools, no optional equipment features

Dimensions

W 210 Fi (US standard)

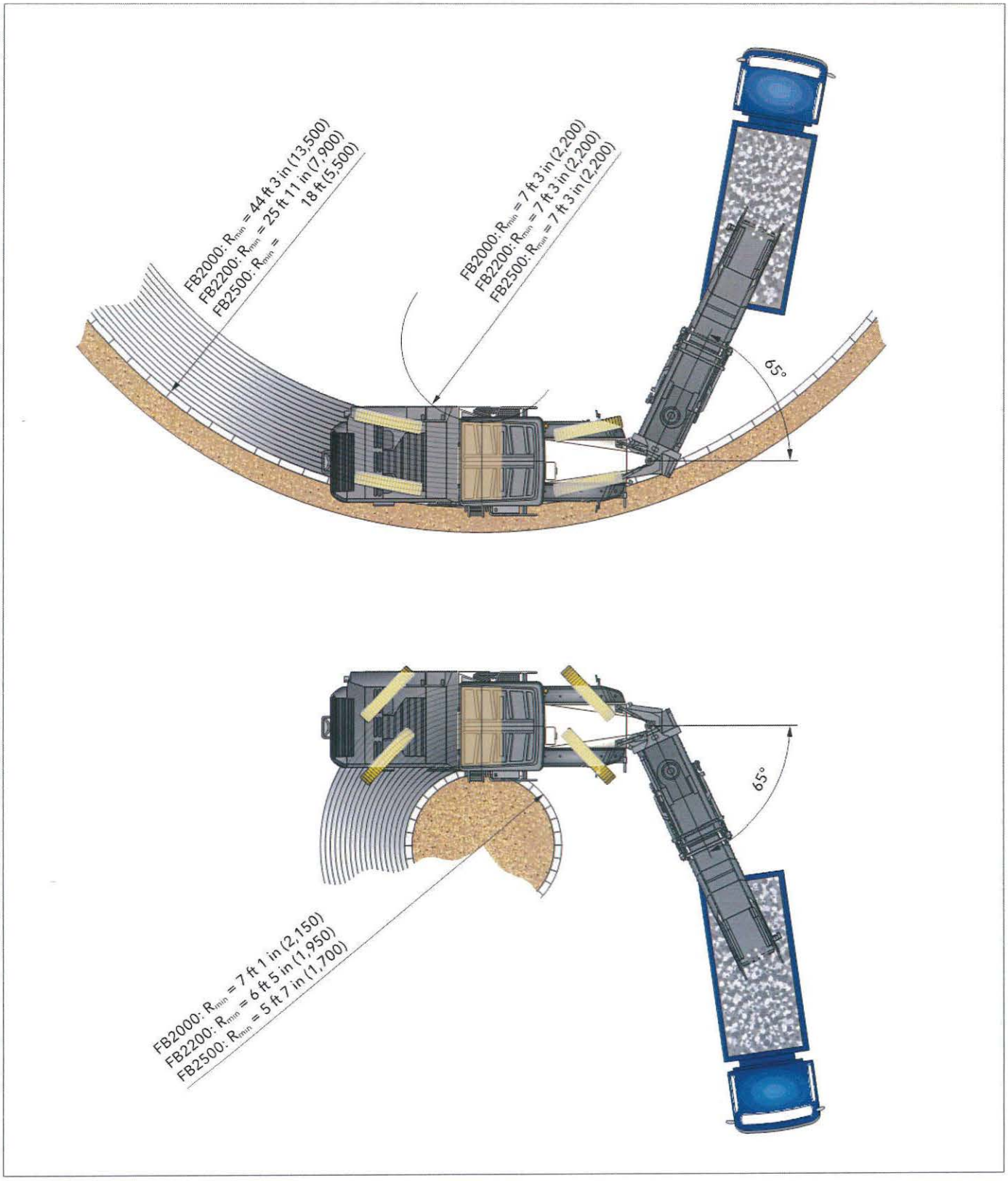




FB	A
6 ft 7 in (2,000)	8 ft 2 in (2,500)
7 ft 3 in (2,200)	8 ft 10 in (2,700)
8 ft 2 in (2,500)	9 ft 10 in (3,000)

Dimensions in American standard and mm

*Based on operating weight, CE with conveyor folded out



Milling radius, milling depth 5.9 in (150 mm), dimensions in American standard and mm