

Montana Department of Transportation Bridge Bureau Approved Construction Equipment List

Make:	<i>Wirtgen</i>
Model:	<i>W 210 Fi</i>
Equipment Type:	<i>Milling Machine</i>
Contractor Modifications:	<i>None</i>

Interstate Approval Conditions

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

Non-Interstate Approval Conditions

<i>Approval Type</i>	<i>DENIED</i>
<i>Speed:</i>	<i>DENIED</i>
<i>Weight:</i>	<i>DENIED</i>
<i>Traffic:</i>	<i>DENIED</i>
<i>Location Restrictions:</i>	<i>DENIED</i>

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)

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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
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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))
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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)
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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)

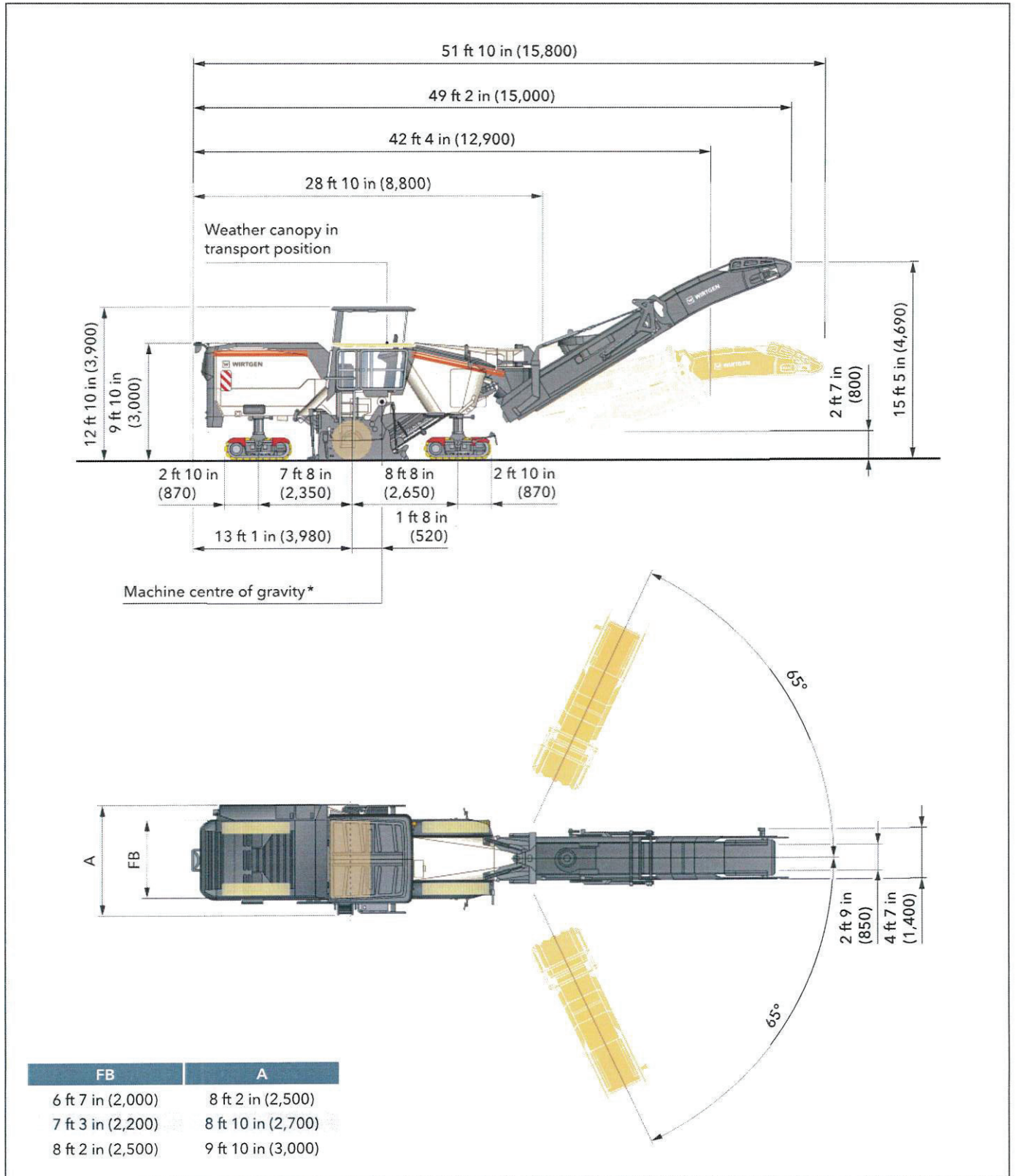
*¹ = The maximum milling depth may deviate from the value indicated due to tolerances and wear.

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

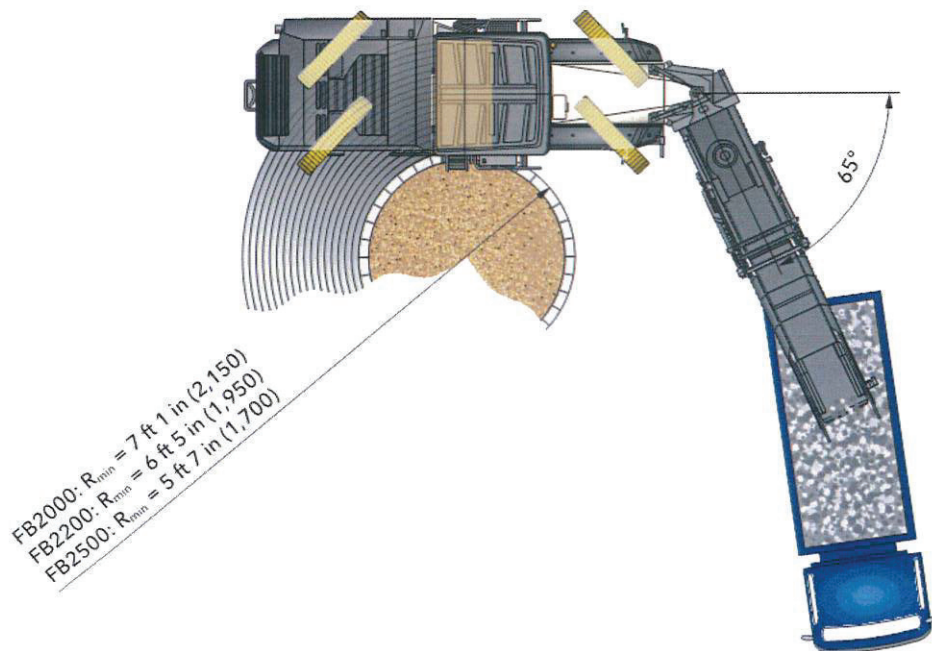
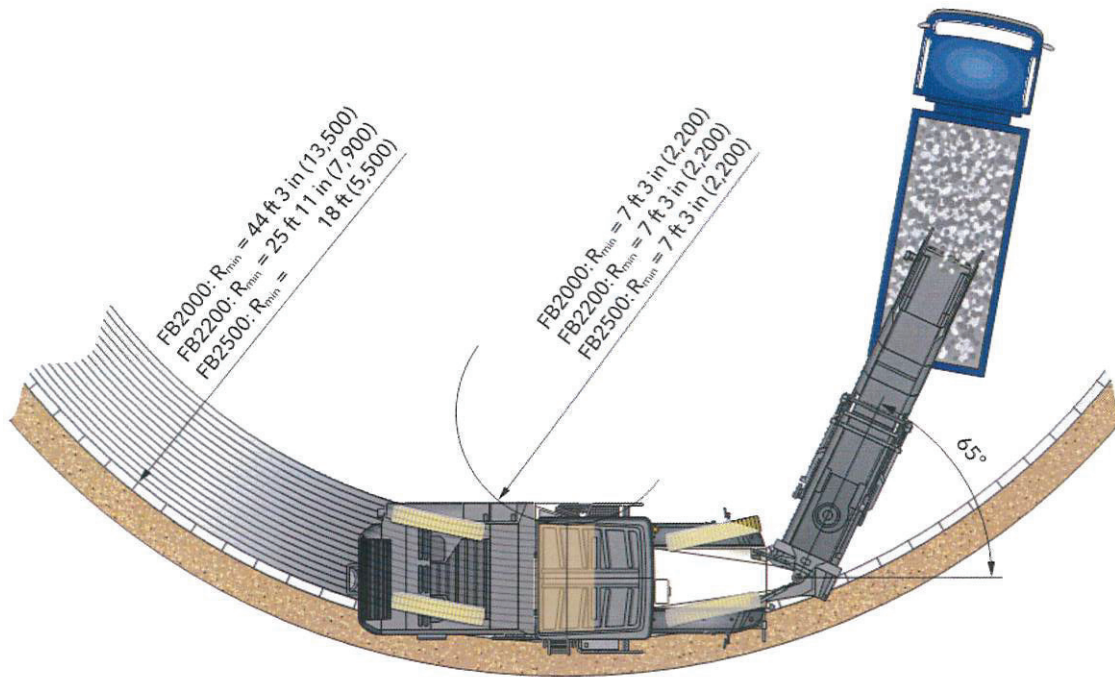
Dimensions

W 210 Fi (US standard)



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