



# Montana Department of Transportation Bridge Bureau Approved Construction Equipment List

This form is used for analyses for Bridge Approval Only.

**Make**  **Model**

**Combination Type**  **If Other (Specify)**

<b>Select Axle Type</b>	<input type="text" value="Steering"/>	<input type="text" value="Drive"/>
<b>Select # of Axles</b>	<input type="text" value="X"/>	<input type="text" value="X"/>
<b>Insert Weight (lbs)</b>	<input type="text"/>	<input type="text"/>

	Axle Groups	Feet	Inches
	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Comments**

Vehicle configuration, weights and specifications on following pages. Vehicle may drive without speed or lane restrictions with adjacent traffic statewide on non-load-posted Bridges. For vehicle movement on Bridges with structural reduced capacity see, Br201.38, here: <https://www.mdt.mt.gov/business/contracting/bridge/bridge-specials.aspx>

# Technical specification

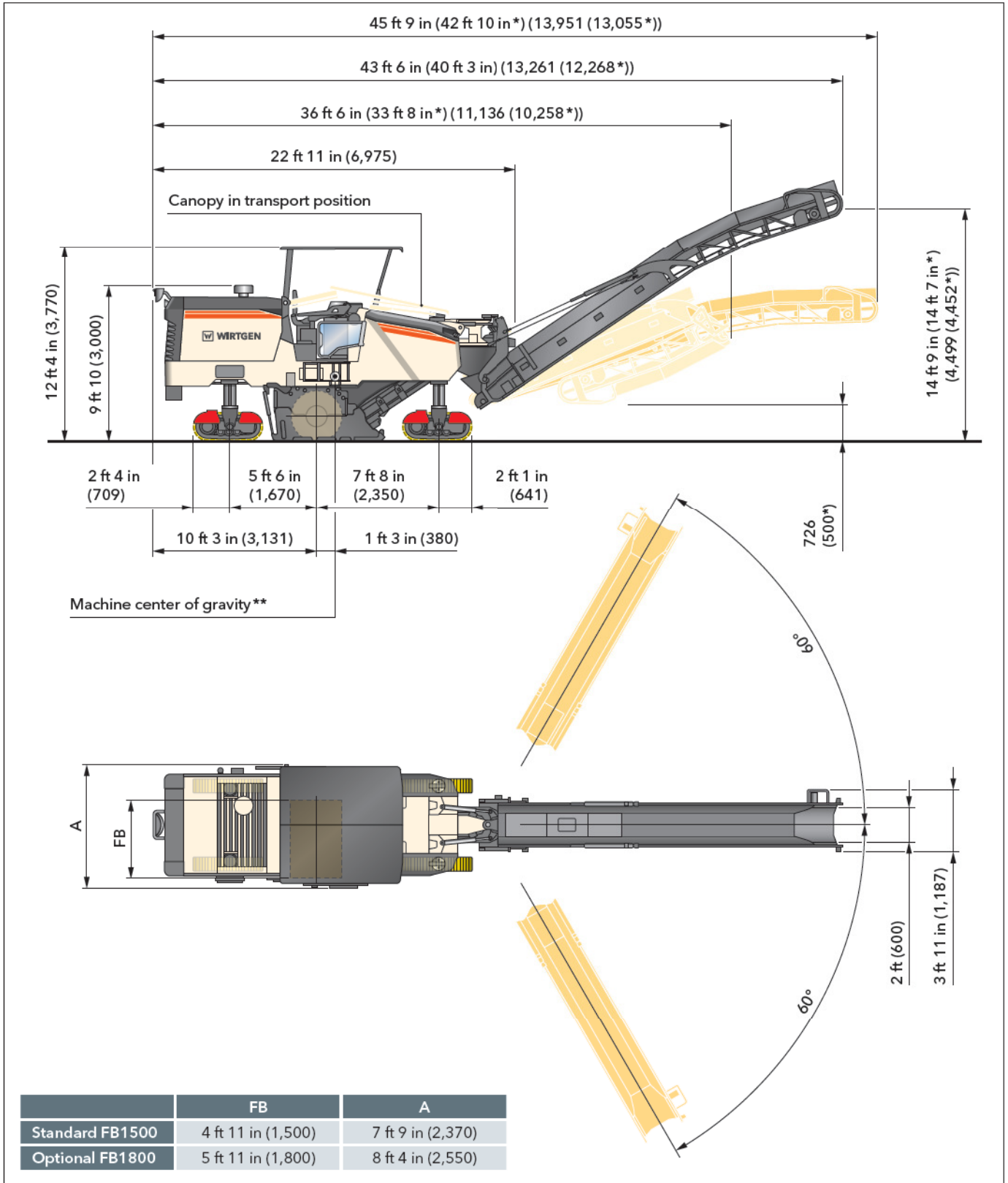
	W 150 CF	W 150 CFi
<b>Milling drum</b>		
Milling width standard	4 ft 11 in (1,500 mm)	
Milling width optional	5 ft 11 in (1,800 mm)	
Milling depth*1	0 to 1 ft 1 in (0 to 330 mm)	
Drum diameter with tools	3 ft 3 in (980 mm)	
<b>Engine</b>		
Manufacturer	CUMMINS	CUMMINS
Type	QSL 9	QSL 9
Cooling	Water	Water
Number of cylinders	6	6
Rated power at 2,100 rpm	261 kW/350 HP/355 PS	283 kW/380 HP/385 PS
Maximum power at 1,900 rpm	276 kW/370 HP/375 PS	298 kW/400 HP/405 PS
Operating power at 1,600 rpm	250 kW/335 HP/340 PS	270 kW/362 HP/367 PS
Displacement	2.4 gal (8.9 l)	2.4 gal (8.9 l)
Fuel consumption at rated power	19 gph (72 l/h)	19.8 gph (75 l/h)
Fuel consumption in field mix	7.7 gph (29 l/h)	7.9 gph (30 l/h)
Exhaust emission standards	EU Stage IIIa/US Tier 3	EU Stage IV/US Tier 4f
<b>Electrical system</b>		
Voltage supply	24 V	
<b>Tank capacities</b>		
Fuel tank	214 gal (810 l)	
Adblue®/DEF tank	-	13.2 gal (50 l)
Hydraulic fluid tank	31.7 gal (120 l)	
Water tank	5,944 gal (2,250 l)	
<b>Driving performance</b>		
Max. milling speed	0 to 131 ft/min (0 to 1.5 mph) (0 to 40 m/min (0 to 2.4 km/h))	0 to 131 ft/min (0 to 1.5 mph) (0 to 40 m/min (0 to 2.4 km/h))
Max. travel speed	0 to 410 ft/min (0 to 4.7 mph) (0 to 125 m/min (0 to 7.5 km/h))	0 to 410 ft/min (0 to 4.7 mph) (0 to 125 m/min (0 to 7.5 km/h))
<b>Track units</b>		
Track units, front and rear (L x W x H)	4 ft 4 in x 10 in x 1 ft 10 in (1,330 x 260 x 550 mm)	
<b>Loading of the milled material</b>		
Belt width of primary conveyor	2 ft 2 in (650 mm)	
Belt width of discharge conveyor	2 ft (600 mm)	
Theoretical capacity of discharge conveyor	305 yd <sup>3</sup> /h (233 m <sup>3</sup> /h)	

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

	W 150 CF	W 150 CFi
<b>Weight of basic machine</b>		
Empty weight of machine excluding tank contents	41,888 lbs (19,000 kg)	42,549 lbs (19,300 kg)
Operating weight, CE* <sup>2</sup>	45,305 lbs (20,550 kg)	45,966 lbs (20,850 kg)
Maximum operating weight (full tanks, full range of equipment)	54,785 lbs (24,850 kg)	55,556 lbs (25,200 kg)
<b>Weights of tank contents</b>		
Filling of water tank	4,960 lbs (2,250 kg)	4,960 lbs (2,250 kg)
Filling of fuel tank (6.9 lbs/gal (0,83 kg/l))	1,477 lbs (670 kg)	1,477 lbs (670 kg)
Filling of AdBlue®/DEF tank (9.2 lbs/gal (1,1 kg/l))	-	121 lbs (55 kg)
<b>Additional add-on weights</b>		
<b>Operator and tools</b>		
Operator		165 lbs (75 kg)
5 pick containers		276 lbs (125 kg)
On-board tools		66 lbs (30 kg)
<b>Optional milling drum units in lieu of standard</b>		
Milling drum housing FB1500 (4 ft 11 in) FCS-L		595 lbs (270 kg)
Milling drum housing FB1500 (4 ft 11 in) FCS		838 lbs (380 kg)
Milling drum housing FB1800 (5 ft 11 in) FCS-L		1,764 lbs (800 kg)
<b>Optional milling drums in lieu of standard</b>		
FCS milling drum FB1500 (4 ft 11 in) HT22 LA15 with 136 picks		44 lbs (20 kg)
FCS milling drum FB1500 (4 ft 11 in) HT22 LA18 with 120 picks		-154 lbs (-70 kg)
FCS milling drum FB1500 (4 ft 11 in) HT22 LA8 with 210 picks		838 lbs (380 kg)
FCS milling drum FB1500 (4 ft 11 in) HT5 LA6X2 with 512 picks		992 lbs (450 kg)
FCS milling drum FB1500 (4 ft 11 in) HT22 LA25 with 102 picks		-882 lbs (-400 kg)
FCS milling drum FB1800 (5 ft 11 in) HT22 LA18 with 135 picks		419 lbs (190 kg)
<b>Optional additional equipment</b>		
Canopy in lieu of standard		992 lbs (450 kg)
Short conveyor in hydraulic folding design in lieu of standard		-99 lbs (-45 kg)
VCS extraction system		276 lbs (125 kg)
Leveling arm		551 lbs (250 kg)
Supplementary weight at the rear		1,984 lbs (900 kg)

\*<sup>2</sup> = Weight of machine, half-full water tank, half-full fuel tank, operator, on-board tools, excluding optional equipment features

# Dimensions



Dimensions in American standard and mm  
 \* = Short discharge conveyor in folding design  
 \*\* = Based on operating weight, CE with conveyor folded out