

## Montana Department of Transportation Bridge Bureau Approved Construction Equipment List

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Make:	[	Caterpillar				
Model:		PM 822				
Equipment Type:		Milling Machine				
Contractor Modification	ons: [	none				
	Inter	rstate Approval Conditions		Non-Inte	erstate Approval Conditions	
Approval Ty	/pe	crossing only		Approval Type	denied	
Speed:		10 mph		Speed:	denied	
Weight:		80,910 lb or less		Weight:	denied	
Traffic:		no traffic on bridge		Traffic:	denied	
Location Restrictions	s:	centerline		Location Restrictions:	denied	
Comments:						
Equipment configuration, was the Cat PM 822.	eights a	ind specifications on following pages. Approval does not	t apply to load poste	d bridges. No other co	nstruction equipment is allowed on the bridge at the sar	ne time

## **TECHNICAL SPECIFICATIONS**

ENGINE	
Engine Model	Cat® C18 twin-turbo
Cylinders	6
Emissions	
U.S. EPA Tier 4 Final, EU Stage V	
Gross Power – SAE J1995:2014 Engine Power – ISO 14396:2002	601 kW 806 hp 595 kW 798 hp
U.S. EPA Tier 2, EU Stage II equivalent	
Gross Power – SAE J1995:2014 Engine Power – ISO 14396:2002	576 kW 772.4 hp 569 kW 763 hp
Build Number	02B
Maximum Milling Speed	100 m/min 328 ft/min
Maximum Travel Speed	5.9 km/h 3.7 mph

CUTTING SYSTEM		
PM820 Milling Width	2010 mm	79.1 in
PM820 Number of Bits (15 mm spacing)		170
PM822 Milling Width	2235 mm	88.0 in
PM822 Number of Bits (15 mm spacing)		185
PM825 Milling Width	2505 mm	98.6 in
PM825 Number of Bits (15 mm spacing)		203
Maximum Cutting Depth	330 mm	13.0 in
Rotor Speeds	100 / 109 / 1	18 rpm
Minimum Left Cutting Radius	2.00 m	6.56 ft
PM820 Minimum Right Cutting Radius	2.00 m	6.56 ft
PM822 Minimum Right Cutting Radius	1.80 m	5.91 ft
PM825 Minimum Right Cutting Radius	1.50 m	4.92 ft

MACHINE WEIGH	łT
PM820 Operating Weight	36 130 kg 79,653 lb
PM820 Transport Weight	32 230 kg 71,055 lb
PM822 Operating Weight	36 700 kg <mark>80,910 lb</mark>
PM822 Transport Weight	32 800 kg 72,312 lb
PM825 Operating Weight	37 500 kg 82,673 lb
PM825 Transport Weight	33 600 kg 74,075 lb

- Weights shown are approximate and include:

  Operating weight includes coolants, lubricants, full fuel tank, full water tank and 75 kg (165 lb) operator.

  Transport weight includes coolants, lubricants, 50% full fuel tank and empty water tank.

	SERVICE REFILL CAPACITIES	
Fuel Tank		1108 L 292.7 gal
Cooling System		104 L 27.5 gal
Engine Oil		65 L 17.2 gal
Hydraulic Oil		113 L 29.9 gal
Water Tank		3400 L 898.2 gal

DIMENSIONS	
A Overall Length (conveyor raised)	14.52 m 47.64 ft
B PM820 Maximum Machine Width	3.11 m 10.20 ft
PM822 Maximum Machine Width	3.11 m 10.20 ft
PM825 Maximum Machine Width	3.36 m 11.02 ft
B¹ PM820 Minimum Machine Width	2.52 m 8.27 ft
PM822 Minimum Machine Width	2.74 m 8.99 ft
PM825 Minimum Machine Width	3.01 m 9.88 ft
C Maximum Height (conveyor raised)	5.23 m 17.16 ft
D Height to Optional Canopy	4.05 m 13.29 ft
E Height (canopy lowered/no canopy)	3.00 m 9.84 ft
F Maximum Truck Clearance	4.86 m 15.94 ft
G Conveyor Length	8.38 m 27.49 ft
H Conveyor Swing	±60° from center

SHIPPING DIMENSIONS	
I Transport Length	12.43 m 40.78 ft
B¹ PM820 Transport Width	2.52 m 8.27 ft
PM822 Transport Width	2.74 m 8.99 ft
PM825 Transport Width	3.01 m 9.88 ft
E Transport Height (canopy lowered)	3.00 m 9.84 ft
J Length (track to track)	6.69 m 21.95 ft
K Length of Machine (front track to rear)	7.32 m 24.02 ft
L Length of Base Machine	8.33 m 27.33 ft

