

Montana Department of Transportation Bridge Bureau Approved Construction Equipment List

Make:	Superior Broom
Model:	DT80CT
Equipment Type:	Broom
Contractor Modifications:	none

Interstate Approval Conditions

<i>Approval Type</i>	crossing and operating
<i>Speed:</i>	no restriction
<i>Weight:</i>	5,300 lb or less
<i>Traffic:</i>	approved with regular traffic
<i>Location Restrictions:</i>	no restriction

Non-Interstate Approval Conditions

<i>Approval Type</i>	crossing and operating
<i>Speed:</i>	no restriction
<i>Weight:</i>	5,300 lb or less
<i>Traffic:</i>	approved with regular traffic
<i>Location Restrictions:</i>	no restriction

Comments:

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

Specifications:

MODELS

DT80J

POWERED BY



DT80CT



DT80K



ENGINE:

John Deere diesel - Model 4045 TF
276 cubic inches (4.5 liter) 74 HP, Tier 4
at 2500 RPM w/95 amp alternator

Cummins diesel - Model B3.3T
199 cubic inch (3.3 liter) 74 HP, tier 4
at 2500 RPM w/120 amp alternator

Kubota diesel - Model V3600T
220 cubic inch (3.62 liter) 84.5 HP,
tier 3 at 2500 RPM w/ 90 amp alternator

DIMENSIONS:

Weight: 5,300 lbs. standard unit (w/canopy)
Height - 103 inches (w/canopy)
Length - 172 inches
Width - 96 inches (transport)
Wheelbase - 133 inches
Turning Radius - 13 feet (inside)

CHASSIS:

Welded 6" channel w/gussets at all stress
points. Certified roll over protection (ROPS)
structure meets and exceeds all Federal
Standards

STEERING:

Orbital; hydraulic power steering

HYDRAULIC TANK:

30 gallon capacity

FUEL TANK:

38 gallon capacity

COOLING SYSTEM:

Heavy duty vertically mounted radiator
and oil cooler w/8,000 cfm suction fan

FRONT AXLE:

Heavy-duty truck type (full oscillating)

REAR AXLE:

3/4 Ton-heavy duty semi-float differential
w/spring suspension system.

WHEELS:

Four - 6 bolt (15" x 6") steel spoke

TIRES:

Four radial ST225/75 R15 load range D

BRAKES:

Four wheel hydraulic w/dual master
cylinder and mechanical parking brake.

TRANSMISSION:

Infinitely variable hydrostatic pump and
motor driving a differential rear axle
through a 2-speed gearbox.
Low range: 0 - 12 mph
High range: 0 - 34 mph

HYDRAULIC SYSTEM:

Load compensated piston pump
28 GPM w/2,500 PSI operating pressure
10 micron high pressure suction filter

BRUSH CORE:

8 foot all welded tubular construction
Direct drive motor enclosed in core (200 RPM)
Sweeping width: 96 inches
10" x 32" Prostran wafer type brush filler

SWEEPING ANGEL:

45 degrees (left and/or right)
Circle swing frame mounted on 10 heavy-duty
sealed, tapered bearings with debris guards.

BRUSH COVER:

12 gauge steel, 140 degree full brush length with
end plate covers and full length rock deflector

BROOM CONTROLS:

Electronic joystick control for brush on-off with
trigger for float, push buttons for broom on-off
and speed control. Broom lift, adjustable down
pressure and swing right to left through joystick
movement.

CONTROLS & ACCESSORIES:

Padded seat with arm rests and seat belts,
dual element air cleaner & precleaner, 12 volt
ignition system. 950 CCA battery and back-up
alarm. Gauges include tachometer, hour meter,
water temp, oil pressure, fuel and volt meter.

