MONTANA Department of Transportation

MDT-BRG-015 04/23

Montana Department of Transportation
Bridge Bureau
Approved Construction Equipment List

mdtacel@mt.gov

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

Interstate Approval Conditions

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

Non-Interstate Approval Conditions

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

Superior Broom

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 tachomoter, hour meter, water temp, oil pressure, fuel and volt meter.







SB Manufacturing Inc.