MONTANA
Department of Transportation

MDT-BRG-015 04/23

Montana Department of Transportation
Bridge Bureau
Approved Construction Equipment List

Make:	*Superior*
Model:	*DT74J*
Equipment Type:	*Sweeper*
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:	*Remain in painted lane*

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:	*Remain in painted lane*

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. Equipment must be empty while crossing.

Superior Broom

SB Manufacturing Inc.



Model
DT74J
DT74C
DT74P

"Superior Quality & Performance!"



ENGINE: John Deere Diesel - Model 4045 TF 276 cubic inches (4.5 litres) 74 HP Tier 4 Final at 2500 RPM w/95 amp alternator

WEIGHT: 2404kg (5300 lbs) standard unit (w/canopy)

HEIGHT: 2616mm (103") (w/canopy)

LENGTH: 4369mm (172")

WIDTH: 2438mm (96") (transport)

WHEELBASE: 3378mm (133")

TURNING RADIUS: 3962mm (13') (inside)

CHASSIS: Welded 152mm (6") channel w/gussets at all stress points. Certified roll over protection (ROPS) structure.

STEERING: Orbital; hydraulic power steering.

HYDRAULIC TANK: 102 litres (27 gallon) capacity

FUEL TANK: 140 litres (37 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 Tonne-heavy duty semi-float differential w/spring suspension system

WHEELS: Four - 6 bolt (15"x6") steel spoke

HYDRAULIC SYSTEM: Load compensated pump, 28 GPM w/2,500 PSI operating pressure, 10 micron high pressure suction filter.

BRUSH CORE: 2438mm (8') all welded tubular construction. Direct drive motor enclosed in core (200 RPM). Sweeping width: 2438mm (96"). 254mm x 812mm (10"x32")Prostran wafer type brush filler.

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

BRUSH COVER: 12 gauge steel, 140° 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.

STANDARD EQUIPMENT: As above.

TYRES: 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.

OPTIONAL EQUIPMENT: As above.

SUPERIOR BROOM AUSTRALASIA

11 Durham Road
Burnie Tasmania 7320 AU

Phone: +61 3 6432 1311
Fax: + 61 3 6432 1322
Email: sewellsales@jayben.com.au

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