



Environmental Technology Verified and Licensed

Model DST-4[®] Dustless Sweeping Technology / General Specifications

AUXILIARY ENGINE: Kubota V2403MT (Tier 4i) turbocharged diesel, 4 cyl.; 56 HP @ 2600 RPM; Net torque 121 ft. lb. @ 1,800 RPM.

ABRASION PROTECTION PACKAGE: Standard hopper screen; suction nozzle liner; pressure wear pads; heavy duty pressure and suction hoses.

AUTOMATIC SHUTDOWN SYSTEM: Automatic engine shutdown when engine coolant temperature is too high, coolant level too low, or oil pressure is too low.

AUXILIARY HYDRAULIC SYSTEM: Electrically operates hydraulic system without auxiliary engine.

BLOWER, Rubber Lined: Aluminum alloy high volume open face turbine. Creates blast and suction; Anti-friction bearings; Housing is abrasion resistant and has a replaceable liner; Heavy duty power band.

CAB/CHASSIS Minimum

Requirements: Suggested make and model - Isuzu NQR; GVW - 17,950 lbs; 5.19L turbocharged diesel engine with cold weather starting device and oil cooler; Automatic Transmission with oil filter; 110 amp Alternator; Dual (2) 750 CCA Batteries; 150" wheelbase; 30 gallon fuel tank; DEF tank; 225/70R-19.5F Tires (2 front, 4 rear); Power steering; Dual circuit power assisted hydraulic brakes, disc front; self adjust drum rear; Instruments and lights, full package as required; backup alarm; Air conditioned cab; AM/FM CD stereo radio, power windows and door locks.

CONTROLS: Inside cab (lighted) - pick-up head, gutter broom(s), ignition and tachometer (auxiliary engine), voltmeter, low water warning system (for dust control system), all safety lights, hour meter, outside cab dump switch.

DUMP SWITCH IN CAB: Additional dump switch on control panel to activate dump operation from inside cab.

DUST CONTROL SYSTEM: System of water spray nozzles for airborne dust suppression; Electric diaphragm pump; 76 gallon capacity polyethylene reservoirs ; 80 mesh in-line filter; Low water shut-off, safety shut-off with low water warning light in cab coupled with liquid level sensor; spray nozzles at gutter broom(s) and inside hopper, air purge.

DUSTLESS FILTRATION SYSTEM: An external mounted modular filtration system constructed of 10 and 12 gauge steel shall be provided to clean all exhausted air. The filter module shall have a minimum 14ft³ dust retention hopper and four (4) filters with a filtration efficiency rating of 99.999%

on 0.5-micron particles. Filters shall have a long service life and shall provide excellent performance in moist, hygroscopic and agglomerative applications and may be cleaned with a low-pressure water rinse. In the dry sweeping mode the filtration system shall not be affected when encountering intermittent wet conditions such as rain puddles, lawn sprinkler standing water or moisture from melting snow and ice. All controls for efficient sweeping applications shall be automatic and require no operator adjustments.

Filter cleaning shall be accomplished with intermittent air pulse provided by a belt driven, liquid cooled, engine lubricated air compressor having a minimum 13.2 CFM @ 1200 RPM. A shop air connection shall be provided for filter cleaning without use of sweeper power unit. A dust box deluge washout system shall be furnished using same valve for water fill and dust box deluge.

DUST SEPARATOR: Cyclonic, multi-pass, centrifugal separation; 20" x 22.5" cylindrical area; Dust separator adjacent to hopper; Particulate removal through 22.5"x.5" skimmer slot into hopper; Inspection access port for cleaning.

FLOODLIGHTS, PARABOLIC MIRRORS : Adjustable floodlight for each gutter broom; 8" convex mirrors.

GENERAL SWEEPING WIDTH: Pick-up head only - 82"; With 1 gutter broom - 104"; With 2 gutter brooms - 130".

GUTTER BROOM (DUAL): (Patented) Standard equipment includes floodlights and parabolic mirrors; Constant speed non-reversible hydraulic motor; adjustable for down pressure, pattern and wear; down pressure automatically adjusts to requirement; flexible in all directions integral anti-damage "swing away" relief valve; Gutter Broom Variable Speed; broom has steel wire vertical digger .

HOPPER: 4.0 cubic yards of volumetric capacity; Welded steel plate construction; Dump door 74"x81.25"; Hydraulic dumping method with tilt up; 72" dumping height; Dump door hydraulically opened/closed; Screen lifts with door.

HOPPER LOAD INDICATORS: Sensor with audible and visual indicators in cab that signals full load.

**HOPPER DELUGE SYSTEM
HOPPER INSPECTION DOOR**

HYDRAULIC SYSTEM: Operates gutter broom(s), dump and pick-up head; belt driven from auxiliary engine; 5 GPM capacity; 13.5 gallon reservoir with 80 mesh suction strainer, 10 micron in-line filter.

**HYDRAULIC TANK SIGHT/
TEMPERATURE GAUGE:** External; mounted on tank.

INSTRUMENTS IN CAB: Oil pressure/ coolant temperature gauges; keyed ignition; tachometer; auxiliary engine hour meter; voltmeter; throttle. Paddle switches have illuminated legend windows for easier night operation.

PICK-UP HEAD: Functions as air blasting and suction chamber; 78" I.D. width; 2,028 sq. inches of head area (82" outside dimension); suspension has 4 springs and 2 drag links; DUO-SKIDS[®] double wide with long life carbide; heavy duty suction and 12" diameter pressure hose; 4" dia. pressure cleanout port;

**REVERSE PICK-UP HEAD SYSTEM.
TWIN GUTTER BROOMS,
FLOODLIGHTS, PARABOLIC
MIRRORS**

Left and right side mounted 36"diameter wire filled digger type* with adjustable floodlight for each gutter broom, 8" convex mirrors.

* *The AQMD Rule 1186 certified DST-4 will utilize 32" diggers in lieu of 36"*

**REAR MOUNTED (2) LED FLASHERS
WARNING LIGHTS; REAR
MOUNTED WORKLIGHT (1)**

**SEVERE WEATHER WIRING
SWING AWAY SIDE PANELS**

OPTIONAL EQUIPMENT: Auxiliary fuse panel; Cabover dual steering; Gutter Broom Drop Down; Gutter Broom tilt adjuster(s); Hi/Low pressure washdown system; Hopper up alarm; Light Bar, cab mounted; Removable Suction Tube; Stainless Steel Blower Housing; Stainless Steel Hopper; Color (*other than TYMCO standard white*). *Special options are available for your individual requirements. Contact your local dealer or TYMCO.*

OVERALL DIMENSIONS Approximate: 246" in length; 85" in width (add 10" for each broom); 91.1" in height at truck*; 96.6" in height with optional cab mounted light bar*; 12,400 lbs. empty weight*; 6,350 lb sweeper weight*.

* *May vary with equipment.*

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