



DST-6[®]

Dustless Sweeping Technology

GENERAL SPECIFICATIONS



MODEL DST-6[®] REGENERATIVE AIR SWEEPER[®]

FINAL TIER 4 AUXILIARY ENGINE/CABOVER CHASSIS



SWEEPER AUXILIARY ENGINE

Engine John Deere 4045 turbo, 4 cyl.
(Final Tier 4)
Displacement 275 in³ (4.5 L)
Power 99 HP @ 2200 RPM (74 kW)
Net torque 315 lb-ft @ 1600 RPM (427 Nm)
Air cleaner Heavy duty, w/pre-cleaner and
scavenge vacuum hose
Remote oil filter Spin on, full flow
Auxiliary engine fuel tank shared with chassis
engine
DEF tank Dedicated
Capacity (volumetric) 5.4 gal (20.6 L)
Capacity (useable) 3.8 gal (14.4 L)
Auxiliary engine protection system
Fuel/water separator and separate fuel filter
Open crankcase ventilation (OCV) filter

BLOWER, RUBBER LINED

Aluminum alloy, high volume, open face turbine
Purpose Creates blast and suction
Bearings (2) sealed lifetime lube, anti-friction
Bolt-on housing Abrasion resistant,
stainless steel, replaceable liner
Drive Heavy duty power band

DUST SEPARATOR, HIGH CAPACITY

Type Cyclonic, multipass,
centrifugal separation
Size 20 x 61 in
cylindrical area (508 x 1549 mm)
Located adjacent to blower within hopper
Particulate removal achieved through 61 in
(1549 mm) skimmer slot into skimmer hood
Hinged inspection door opened from hopper
exterior
Abrasion resistant housing w/replaceable wear
resistant liner

HOPPER

Capacity (volumetric) 7.3 yd³ (5.6 m³)
Capacity (useable) 6 yd³ (4.6 m³)
Construction Welded steel plate
with integral stiffeners
Floor angle 22°
Dump door opening 84 x 44 in
(2134 x 1118 mm)
Dumping method Hydraulic with raker bar
Dumping height 36 in (914 mm)
Abrasion protection package
Hopper deluge system

BROOM ASSIST PICK-UP HEAD (BAH[®])

Type Dual chamber with broom assist
Function Delivers air blast and suction
Width 87 in (2210 mm)
Pick-up head area 3567 in² (2.3 m²)
Broom 12 x 79 in (305 x 2007 mm)
enclosed in rear of pick-up head
Suspension 4 springs 2 drag links
Suction hose diameter 14 in (356 mm)
Pressure hose diameter 14 in (356 mm)
Skids DUO SKID[®], long-life carbide
Pick-up head deluge
Reverse pick-up head system

GUTTER BROOM, DUAL, Patented

Standard equipment, includes floodlights and
parabolic mirrors
Drive Variable speed
non-reversible hydraulic motor
Adjustment Adjustable for down
pressure, pattern and wear
Down pressure Automatically
adjusts to requirement
Flexibility All directions, integral
anti-damage "swing away" relief valve
Brooms 43 in dia. (1.1 m) steel wire,
vertical diggers
Hydraulic tilt Dual gutter brooms
adjust for curb depth

HYDRAULIC SYSTEM

Operates gutter broom(s), dump and pick-up
head
Drive Gear driven from auxiliary engine
Capacity 8 GPM (30.3 LPM)
Reservoir 25 gal (94.6 L)
with 80 mesh suction strainer, sight/
temperature gauge, cooler
Filter 3 micron in-line
Auxiliary hydraulic system
Temperature shutdown system

DUST CONTROL SYSTEM

Water spray nozzles for dust suppression
Pump Belt driven (standard),
electric diaphragm, or air diaphragm
Reservoirs Polyethylene 220 gal (1249 L),
total
Filter 80 mesh in-line
Low water shut-off Safety shut-off
with low water warning light in cab coupled
with liquid level sensor
Spray nozzles:
Gutter brooms (each) 3
Hopper (inside) 1
High output water
Air purge system
Hi/Low pressure washdown system
Hydrant fill hose w/storage area 20 ft (6 m)

DUSTLESS FILTRATION SYSTEM

An external mounted modular filtration system
with automatic BlueLogic[®] control adjustment
Capacity (volumetric) 14 ft³ (0.40 m³)
Filters (4) 0.5 µm
Particulate removal efficiency 99.999%
Long life filters, not affected by wet sweeping
conditions.
Filters cleaned by intermittent air pulse
Air compressor Belt driven, liquid cooled,
engine lubricated
Compression rate 13.2 CFM
(0.37 m³/minute) @ 1200 RPM
Shop air connection
Dust box deluge washout system

CONTROLS

Inside cab (lighted)
Pick-up head, gutter brooms (tilt and variable
speed), ignition and tachometer (auxiliary
engine), voltmeter, low water warning system

(for dust control system), all safety lights, hour
meter, auxiliary fuse panel

BlueLogic[®] Display

High resolution, color LCD multi-function
touchscreen display that provides the operator
feedback on the status of the sweeper
and auxiliary engine. The display provides
information for all safety equipment, as well as
lifetime and trip hours for sweeper equipment
such as the gutter brooms, pick-up head,
pick-up head broom, and blower. The display
also provides service hours for the auxiliary
engine and hydraulic system fluids and filters.
Additionally, the sweeper odometer records
lifetime and trip curb miles swept.

BlueLogic[®] Control System

Multiplexed electrical control system which
provides intelligent safety features and assists
in sweeper troubleshooting with on board
diagnostics (OBD).

Outside cab Dump

SAFETY WARNING DEVICES

Alternating LED rear flashers (2)
Back-up alarm
SAE Class 1/California Title 13 amber beacon
light with limb guard - LED

OPTIONAL EQUIPMENT

AOD water pump w/washdown hose/spray gun
Auto sweep interrupt w/overspeed interrupt
Auxiliary hand hose 8 in dia. (203 mm)
Auxiliary hand hose hydraulic boom assist
Auxiliary hand hose catch basin cleaning
package
Camera/monitor system
Gutter broom drop-down
High output water system
Hopper drain system
Hose reel, 50 ft (15.24 m) retractable
Magnet (various options available)
Pick-up head curtain lifter
Pick-up head deluge (BAH[®])
Stainless steel options:

Hopper & dust box:
Hopper weldment
Dump door
Inspection doors
Raker plate
High capacity dust separator
Hopper screen
Dust box
High capacity dust separator
Hopper drain
Dust box
Paint color (other than TYMCO standard white)

*Special options are available for your individual
requirements. Contact your local dealer or
TYMCO.*

CABOVER CHASSIS AVAILABLE

Peterbilt 220