





GENERAL SPECIFICATIONS

MODEL 500X[®] REGENERATIVE AIR SWEEPER[®] FINAL TIER 4 AUXILIARY ENGINE/CONVENTIONAL CAB CHASSIS

SWEEPER AUXILIARY ENGINE

MakeJohn Deere, 4045 turbo, 4 cyl. (Final Tier 4)

Air cleaner Heavy duty, w/pre-cleaner 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 PurposeCreates blast and suction Bearings(2) sealed lifetime lube, anti-friction Housing Isolation mounted

with abrasion resistant, replaceable liner Housing seal Heavy rubber section,

non-wiping, spring actuated Tilt-N-Seal® design

DUST SEPARATOR

Location Inside hopper Particulate removal achieved through dual skimmer slots into hopper

Abrasion resistant housing w/replaceable liner Self opening, self emptying when hopper tilts

HOPPER, STAINLESS STEEL

Volumetric capacity5.7 yd ³ (4.3 m ³) Useable capacity4.0 yd ³ (3.06 m ³)
Useable capacity
stainless steel plate w/integral stiffeners Floor dump angle
Floor dump angle
(1727 x 1448 mm) Dump door
Chute
stainless steel lined Chute reach
Dumping direction
Lifting methodTwo stage scissor lift, dual
hydraulic cylinders w/integral holding valves Lift capacity
Dump height Variablé Minimum
from bottom of chute to ground
from bottom of chute to ground Maximum132 in (11 ft) (3353 mm) from bottom of chute to ground
Overall
Dump tilt slope
Hopper screen2 piece stainless steel screen w/access for cleaning top side
Honner drain system

Hopper drain system

BROOM ASSIST PICK-UP HEAD (BAH®)

Type Dual chamber with broom assist Function Delivers air blast and suction

South Coast AQMD Rule 1186 $\rm PM_{10}$ Certified 1-800-258-9626 www.tymco.com

leaf/light material pick-up.

GUTTER BROOMS, DUAL, Patented

Standard equipment, includes floodlights and parabolic mirrors

- DriveVariable speed non-reversible hydraulic motor Adjustment......Adjustable for down pressure, pattern and wear
- Down pressure Automatically

Hydraulic tilt.......Dual gutter brooms adjust for curb depth

HYDRAULIC SYSTEM

- displacement piston pump, hydrostatically drives blower
- Variable displacement Sweeper pump piston pump, operates gutter brooms, pick-up head, stabilizers, hopper lift, hopper dump, and hopper door. Blower pump flow 26 GPM (100 LPM)
- Sweeper pump flow 11 GPM (42 LPM) BAH pump Gear pump,

Cooler...... Air to oil integral with auxiliary engine heat exchanger Hydraulic level/temperature shutdown system Hydraulic oil filter restriction indicator - in cab

Hýdraulic oil sight/temperature gauge Auxiliary hydraulic system

DUST CONTROL SYSTEM

- Water spray nozzles for dust suppression
- Spray nozzles:

Pićk-up head	1
Gutter brooms (each)	2
Hopper	1

Hydrant fill hose w/storage area 20 ft (6 m)

CONTROLS

Inside cab (lighted)

Pick-up head, left and right gutter brooms, left and right gutter broom tilt, ignition, blower on/off (variable), dust control system, all safety lights, hopper dump/tilt, pressure bleeder, auxiliary fuse panel

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). Specific to the Model 500x, BlueLogic pauses the dust control system when the blower is turned off, maintains blower at constant speed and monitors the hydraulic level/temperature shutdown system. BlueLogic also provides several safety interlocks on Model 500x, i.e. disabling the transmission if stabilizers are down and disabling blower when hopper is raised/hopper door is open.

STORAGE COMPARTMENT

LocationRear left, beneath auxiliary engine

SAFETY/WARNING DEVICES

Solid state proximity switches, right and left side stabilizers (automatically engage when lifting hopper), blower actuation interlock, minimum dump interlock, stabilizer down warning system, alternating LED rear flashers, front mounted SAE Class 1/California Title 13 amber beacon light with limb guard - LED, back-up alarm scissor lift safety props shop prop and alarm, scissor lift safety props, shop prop, and transmission interlock when stabilizers down.

OPTIONAL EQUIPMENT

AOD water pump w/washdown hose/spray gun Abrasion protection package

Air purge, water system Auto sweep interrupt w/overspeed interrupt

Auxiliary hand hose, 8 in (203 mm) diameter Camera/monitor system

- Engine block heater
- Gutter broom, drop down
- High output water system
- Hi/Low pressure washdown system
- Hopper load indicator alarms
- Hopper vibrator electric
- Linear actuator, pressure bleeder w/gauge Low emissions package (required for South Coast AQMD Rule 1186)
- Magnet, light, standard, or heavy duty
- Pick-up head front curtain lifter
- Reverse pick-up head system Sweeper deluge system, includes hopper and pick-up head deluge w/6 in (152 mm) cleanout port

- Screen vibrator pneumatic Paint color (other than TYMCO standard white)
- Special options are available for your individual requirements. Contact your local dealer or TÝMCO.

CHASSIS AVAILABLE

International 4300 - DT or Cummins ISB Freightliner M2-106