



GENERAL SPECIFICATIONS/ MODEL 500X[®] - CABOVER HIGH SIDE DUMP REGENERATIVE AIR SWEEPER[®]

SWEEPER AUXILIARY ENGINE, Electronic Control, Turbo Diesel

Make John Deere, 4045T, 4 cyl. (Tier 3)
Displacement 276 cubic inches (4.5 L)
Horsepower 115 @ 2,200 rpm (86 kW)
Net torque 355 ft/lbs. @ 1500 rpm (481 Nm)
Air cleaner Two stage, radial seal with safety element
Oil Filter, spin on Full flow

BLOWER, Rubber Lined

Aluminum alloy high volume open face turbine
Purpose creates blast and suction
Bearings (2) sealed for life, self aligning
Housing Isolation mounted with abrasion resistant, replaceable liner
Housing seal Heavy rubber section, non-wiping, spring actuated Tilt-N-Seal™ design
Drive Fixed displacement heavy duty hydraulic motor

DUST SEPARATOR

Type Cylindrical, cyclonic, multipass, centrifugal separation
Size 28" x 48"
Location Inside hopper
Particulate removal Through skimmer slot into hopper
Housing Abrasion resistant, replaceable liner
Inspection Self opening, self emptying when hopper tilts

HOPPER, Stainless Steel

Volumetric Capacity 5.7 cubic yards (4.3m³)
Useable Capacity 4.0 cubic yards (3.06m³)
Construction Welded non-magnetic stainless steel plate with integral stiffeners
Floor dump angle 50°
Dump door opening 68" x 57" (158 cm x 129 cm)
Dump door Self locking
Chute 72" x 48" stainless steel lined
Chute reach 22" without side shift
Dumping direction Right side
Lifting method Two stage scissor lift, dual hydraulic cylinders with integral holding valves
Lift capacity 10,000 lbs.
Dump height Variable
Minimum 2' from bottom of chute to ground
Maximum 11' from bottom of chute to ground
Hopper screen 2 piece stainless steel screen with access for cleaning top side
Hopper drain system

BROOM ASSIST PICK-UP HEAD (BAH[®])

Function Air blast and suction chamber with broom assist
Width 87" (2210 mm)
Head area 3567.0 square inches (2.3m²)
Broom 12" x 79"
Location: Enclosed in rear of pick-up head
Suspension 4 springs 2 drag links
Suction hose 12" diameter (305 mm)
Pressure hose 14" diameter (356 mm)
Skids (DUO SKID[®]) Double wide, long-life carbide
Pressure bleeder Integral for leaf/light material pick-up.

GUTTER BROOMS, 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" dia. (1.1 m) steel wire, vertical diggers
Hydraulic tilt Left & Right gutter brooms adjust for curb depth

HYDRAULIC SYSTEM

Dual hydraulic pumps Sweeper pump operates gutter brooms, pick-up head (BAH[®]), stabilizers, hopper lift, hopper dump, and hopper door. Blower pump hydrostatically drives blower
Drive Direct drive from auxiliary engine
Blower pump Heavy duty variable displacement piston pump
Sweeper pump Pressure compensated piston pump
Blower pump flow 45 GPM (170 LPM)
Sweeper pump flow 16 GPM (61 LPM)
Reservoir 30 Gal (110 L) dual mesh strainers
Safety features Low oil shut down
Filters(2) (1) 10 micron spin-on, in-line return, (1) cartridge, charge loop
Vent Filter (1) 10 micron spin-on
Cooler Air to Oil with thermostatically controlled electric fan

DUST CONTROL SYSTEM

System of water spray nozzles for airborne dust suppression
Pump Electric diaphragm
Reservoir(s) Polyethylene 350 gallon (1,323 L) with hydrant fill hose
Filter 80 mesh stainless steel, in-line
Low water shut-off Safety shut-off with low water warning light in cab
Spray nozzles:
Pick-up head 4
Gutter brooms (each) 2
Hopper inlet 1

CONTROLS

Inside cab: (lighted) pick-up head, left and right hand gutter broom tilt, gutter broom, ignition, blower speed control, low water warning system (dust control), all safety lights, dump controls, pressure bleeder, LCD multi-function display, which includes re-settable and non-resettable hour meters for auxiliary engine; left hand, right hand and BAH brooms; pick-up head and blower.

Steering: Dual

STANDARD EQUIPMENT

Auxiliary engine-diesel, fuel/water separator, automatic shutdown system, auxiliary hydraulic system, broom assist pick-up head (BAH[®]), dual steering, DUO-SKID[®], dust control system, gutter brooms, right and left, includes floodlights and parabolic mirrors, gutter broom tilt adjuster-left and right, pressure bleeder, stainless steel hopper, severe weather wiring package, TYMCO decals/stripes, water fill hose and storage area, storage compartment, hopper drain system

STANDARD SAFETY EQUIPMENT

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 amber strobe light, back-up alarm, hopper load indicator's, scissor lift safety props.

OPTIONAL EQUIPMENT

Abrasion Protection Package
Air Purge
Auto Sweep Interrupt (ASI)
Auxiliary Hand Hose
DCVA
Engine block heater
Gutter Broom-Drop Down
High output water system
Hi/low pressure washdown system with CAT water pump
Hopper load indicator alarms
Hydrant wrench
Hydraulic Tank Heater
Linear actuator (Pressure bleeder)
Low Emissions Package
Pick-up head front curtain lifter
Reverse Pick-Up Head System
Sweeper Deluge System
Sweeper odometer
Screen vibrator

Color (other than TYMCO standard white)

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

CAB/CHASSIS

MODEL Isuzu
GVW 33,000 lbs. (14,982 kg)
Axle capacity, rear suspension-air 23,000 lbs. (10,442 kg)
Axle capacity, front 10,000 lbs. (4,540 kg)
Frame 80,000 psi
Engine Isuzu (7.8L) diesel engine, 215 HP @ 2200 RPM, 560 lb-ft torque @ 1450 RPM
Transmission Allison 2500 RDS-P
Alternator 100 amp
Batteries 12 v dual 1500 CCA
Wheelbase 152" (3861 mm)
Fuel tank 50 gallons, (189 L) shared with sweeper
Tires (2-front, 4-rear) Tubeless radial 11 R x 22.5, 14 ply
Steering - Dual with guages Full power
Brakes Full air with 12.9 CFM air compressor
Rear suspension Hendrickson™ air suspension
Instruments & lights Full package as required

GENERAL SWEEPING WIDTH

Pick-up head only 87" (2210 mm)
With 1 gutter broom 110" (2794 mm)
With 2 gutter brooms up to 142" (3607 mm)

OVERALL DIMENSIONS (Approximate)

Height 112" (2845 mm)
Width 96" (2438 mm)
Empty weight* 21,000 lbs. (9,534 kg)
Length 280" (7112 mm)
Dump clearance height 132" (11') (3353 mm)
Overall height dumping 262" (21'.8") (6655 mm)

*Weight will vary with equipment

AQMD PM₁₀ Certified

1-800-258-9626
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Specifications subject to change without notice.