



REGENERATIVE AIR SWEEPERS

MODEL 600® REGENERATIVE AIR SWEEPER® / GENERAL SPECIFICATIONS



Cabover Chassis

SWEEPER AUXILIARY ENGINE

EngineJOHN DEERE 4045T, 4 cyl. (Tier 3)
 Displacement 275 cubic inches (4.5L)
 Horsepower99 @ 2,400 RPM (74 kW)
 Net torque261 ft-lb @ 1600 RPM (354 Nm)
 Air cleaner, heavy duty Dry type
 Oil filter, spin on Full flow
 Auxiliary engine shutdown system

BLOWER, Rubber Lined

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

DUST SEPARATOR

TypeCyclonic, multipass, centrifugal separation
 Size 20" x 61" cylindrical area (508mm x 1549mm)
 Location Axial to blower within hopper super structure
 Particulate removal Through 61" (1549mm) skimmer slot into hopper
 Inspection Hinged door, opened from hopper exterior
 Housing Abrasion resistant, w/replaceable wear resistant liner

HOPPER

Capacity (volumetric)7.3 cubic yards (5.6 m³)
 Capacity (volumetric)6 cubic yards (4.6 m³)
 Construction Welded steel plate with integral stiffeners
 Floor angle 22°
 Dump door opening 84" x 44" I.D. (2134mm x 1118mm)
 Dumping method Hydraulic with raker bar
 Dumping height 36" (914mm)

PICK-UP HEAD

Function Air blast and suction chamber
 Width 87" I.D. (2210mm)
 Head area 2,610 sq. inches (1.68m²)
 BAH® area 3,567 sq. inches (2.3m²)
 Suspension 4 springs, 2 drag links
 Skids DUO-SKIDS®
 Suction & pressure hose 14" diameter (356 mm)
 Pressure bleeder Integral for leaf/light material pickup

GUTTER BROOM, DUAL Patented

Standard equipment includes floodlight and parabolic mirrors
 Drive Constant 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
 Broom 43" dia. (1.1 m) steel wire, vertical digger

HYDRAULIC SYSTEM

Operates gutter broom(s), dump and pick-up head
 Drive (diesel) Gear driven from auxiliary engine
 Drive (CNG) Belt driven from auxiliary engine
 Capacity 8 GPM (30.3 LPM)
 Reservoir 25 gal. (94.6 L) with 80 mesh suction strainer, sight/temperature gauge
 Filter 10 micron in-line
 Cooler

DUST CONTROL SYSTEM

System of water spray nozzles for airborne dust suppression
 Pump Electric diaphragm
 Reservoir(s) Polyethylene 330 gal. (1249 L) with hydrant fill hose
 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:
 Around pick-up head 4
 Gutter brooms (each) 2
 Hopper (inside) 1

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, pressure bleeder
Outside cab Dump
Steering Dual

SAFETY WARNING DEVICES

Amber rear mounted alternating flashing warning lights
 Amber high powered strobe light with limb guard
 Back up alarm

Cabover mounting includes:

Storage/toolbox 46" x 16" x 34"
 Access platform

OPTIONAL EQUIPMENT

Abrasion protection package
 Auto Sweep Interrupt
 Auxiliary hand hose 8" dia. (203 mm)
 Auxiliary hand hose hydraulic boom assist
 Auxiliary hydraulic system
 Broom Assist Pick-up Head (BAH®)
 Dustless - (Model DST-6®)
 Extra water capacity
 Gutter broom tilt adjuster(s)(right, left or both)
 Gutter broom variable speed
 Gutter broom Drop-Down

Hi/Low pressure washdown system
 High output water system
 Hopper deluge
 Hopper drain system
 Hose reel, 50' retractable
 Liquid recovery system
 Low emissions package
 Magnet
 Reverse pick-up head system
 Runway Sweeper - Model HSP®
 Stainless Steel Hopper
 Color (other than TYMCO standard white)

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

CAB/CHASSIS - Cabover

Minimum Requirements

Model Isuzu FVR (T-Series)
 GVW 33,000 lbs. (14,982 kg)
 Frame 80,000 PSI
 Engine Isuzu (7.8 L) diesel engine, 215 HP @ 2200 RPM, 560 lb-ft @ 1450 RPM
 Transmission Allison 2500 RDS series 6 speed automatic w/transmission oil cooler in radiator
 Alternator 100 amp
 Batteries 12V dual 1500 CCA
 Wheelbase 165" (4191 mm)
 Fuel tank 50 gal. (189 L) shared with sweeper
 Tires (2-front, 4-rear) Tubeless radial 11 R x 22.5, 14 ply
 Steering - Dual with gauges Full power
 Brakes Full air w/ 12.9 CFM air compressor
 Instruments & lights Full package as required, back-up alarm
 Mirrors Western remote controlled and heated
 Air conditioned cab
 AM/FM CD stereo radio
 Consult factory for sweeper specifications and other available truck chassis.

GENERAL SWEEPING WIDTH

Pick-up head only 87" (2210 mm)
 With 1 gutter broom 110" (2794 mm)
 With 2 gutter brooms 142" (3606 mm)

OVERALL DIMENSIONS (Approximate)

Length 291" (7391 mm)
 Width 96" (2438 mm)
 Height @ truck* 118" (2997 mm)
 Height less strobe light 103" (2616 mm)
 Empty weight* 18,140 lbs (8236 kg)
 Weight (sweeper)* 7,980 lbs (3622 kg)

*Dimensions and weight may vary with equipment.

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