



REGENERATIVE AIR SWEEPERS

# MODEL 600<sup>®</sup> REGENERATIVE AIR SWEEPER<sup>®</sup> / GENERAL SPECIFICATIONS



Conventional Cab Chassis

## SWEeper AUXILIARY ENGINE

Engine .....JOHN DEERE 4045T, 4 cyl. (Tier 3)  
 Displacement ..... 275 cubic inches (4.5L)  
 Horsepower .....99 @ 2,400 RPM (74 kW)  
 Net torque..... 261 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 housing ..... Abrasion resistant, replaceable liner  
 Drive ..... Heavy duty power band

## DUST SEPARATOR

Type .....Cyclonic, 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 m<sup>3</sup>)  
 Capacity (useable) .....6 cubic yards (4.6 m<sup>3</sup>)  
 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 (1.68m<sup>2</sup>)  
 BAH<sup>®</sup> area ..... 3,567 sq. inches (2.3m<sup>2</sup>)  
 Suspension ..... 4 springs, 2 drag links  
 Skids..... DUO-SKIDS<sup>®</sup>  
 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, cooler  
 Filter..... 10 micron in-line

## DUST CONTROL SYSTEM

System of water spray nozzles for airborne dust suppression  
 Pump ..... Electric diaphragm  
 Reservoir(s) Polyethylene ..... 220 gal. (832.7 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 beacon light with limb guard  
 Back up alarm

## OPTIONAL EQUIPMENT

Abrasion protection package  
 Auxiliary fuse panel  
 Auto Sweep Interrupt  
 Auxiliary hand hose 8" dia. (203 mm)  
 Auxiliary hand hose hydraulic boom assist  
 Auxiliary hand hose catch basin cleaning package  
 Auxiliary hydraulic system  
 Broom Assist Pick-up Head (BAH<sup>®</sup>)  
 Compressed Natural Gas (CNG) powered  
 Extra water capacity - COMDEX<sup>®</sup> or Cabover  
 Dustless - (Model DST-6<sup>®</sup>)  
 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 system  
 Hopper drain system

Hose reel, 50' retractable  
 Liquid recovery system  
 Low emissions package  
 Magnet  
 Pick-up head curtain lifter  
 Pick-up head deluge - (BAH<sup>®</sup>)  
 Propane LPG powered  
 Rear camera / monitor system  
 Reverse pick-up head system  
 Runway Sweeper - Model HSP<sup>®</sup>  
 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

### Minimum Requirements

Model ..... International 4300 M-7  
 GVW ..... 30,000 lbs. (13,620 kg)  
 Frame ..... 50,000 PSI  
 Engine ..... MaxxForce 7 389 CID (6.4 L) V8 Diesel - 220 HP  
 Transmission..... Allison 2500 RDS series 5 speed automatic w/external oil filter  
 Alternator ..... 120 amp  
 Batteries ..... (2) 12V 1300 CCA  
 Wheelbase..... 152" (3861 mm)  
 Fuel tank ..... 50 gal. (189 L) shared with sweeper  
 Tires (2-front, 4-rear)..... Tubeless 11R x 22.5  
 Steering (Dual) ..... Integral power assisted with tilt  
 Brakes ..... Dual Air w/ 13.2 CFM air compressor  
 Instruments & lights ..... Full package as required, back-up alarm  
 Dual gauge package  
 Mirrors ..... Electric 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..... 248" (6299 mm)  
 Width ..... 96" (2438 mm)  
 Height @ truck\* ..... 118" (2997 mm)  
 Height less beacon light ..... 103" (2616 mm)  
 Empty weight\* ..... 17,195 lbs (7806 kg)  
 Weight (sweeper)\* ..... 7,980 lbs (3622 kg)

\*Dimensions and weight may vary with equipment.

**1-800-258-9626**  
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