



# MODEL HSP® REGENERATIVE AIR SWEEPER® / GENERAL SPECIFICATIONS

## Cabover 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 m³)  
 Capacity (useable) .....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 - Patented High Speed

Function ..... Air blast and suction chamber  
 Width ..... 87" I.D. (2210mm)  
 Head area ..... 2,784 sq. inches (1.79m²)  
 Suspension ..... 4 springs, 2 drag links  
 Skids ..... DUO-SKIDS®  
 Pressure hose ..... 14" diameter (356 mm)  
 Suction hose ..... 10" diameter (254 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)  
 poly filled digger type

### 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

### Cabover mounting includes:

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

### OPTIONAL EQUIPMENT

Air purge  
 Auto Sweep Interrupt  
 Auxiliary fuse panel  
 Auxiliary hand hose 8" dia. (203 mm)  
 Auxiliary hand hose hydraulic boom assist  
 Auxiliary hydraulic system  
 Compressed Natural Gas (CNG) powered  
 Extra water capacity - COMDEX® or Cabover  
 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  
 Lateral air flow nozzle  
 Liquid recovery system  
 Magnet  
 Alternative Fuel powered  
 Rear camera / monitor system  
 Reverse pick-up head system  
 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 ..... UD3300  
 GVW ..... 32,900 lbs. (14,937 kg)  
 Frame ..... 51,200 PSI  
 Engine ..... MD-230 diesel engine,  
 230 HP @ 2500 RPM, 506 lb-ft @ 1500 RPM  
 Transmission ..... Allison 2500 RDS-P automatic w/  
 Overdrive, Less PTO  
 Alternator ..... 105 amp  
 Batteries ..... 12V dual 1300 CCA  
 Wheelbase ..... 150" (3810 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/ 20.8 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 ..... 270" (6858 mm)  
 Width ..... 96" (2438 mm)  
 Height @ truck\* ..... 118" (2997 mm)  
 Height beacon 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.

**1-800-258-9626**  
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