





GENERAL SPECIFICATIONS

MODEL HSP® REGENERATIVE® AIR AIRPORT RUNWAY SWEEPER **DIESEL AUXILIARY ENGINE / DIESEL CABOVER CHASSIS**

SWEEPER AUXILIARY ENGINE

EngineJohn Deere 4045 turbo FT4, 4 cyl. Net torque......315 lb-ft @ 1600 RPM (427 Nm) Air cleaner Heavy

duty, w/pre-cleaner, scavenge vacuum hose, and in-cab air restriction indicator w/gauge. Remote oil filter..... Spin on, full flow Auxiliary engine fuel tank shared with chassis Diesel fuel tank capacity......51 gal (193 L) DEF tank.....Dedicated

Capacity (volumetric) 5.4 gal (20.6 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 Bearings ...(2) sealed lifetime lube, anti-friction Bolt-on housingSteel w/abrasion resistant, replaceable liner

DriveHeavy duty power band

DUST SEPARATOR, HIGH CAPACITY

TypeCyclonic, multipass, centrifugal separation

Size20 x 61 in cylindrical area (508 x 1549 mm)

Located adjacent to blower within hopper

- Particulate removal achieved through 61 in
- (1549 mm) skimmer slot into skimmer hood Hinged inspection door opened from hopper

exterior Abrasion resistant housing w/replaceable wear resistant liner

HOPPER

Capacity (volumetric)	
Capacity (useable)	
Construction	Welded steel plate
with integral stiffeners	
Floor angle	22°
Dump door opening	84 x 44 in
(2134 x 1118 mm)	
	1 12 24 1 1

Dump methodHvdraulic with raker bar

PICK-UP HEAD, HSP, Patented

Type Dual chamber Width (inside dimension) 87 in (2210 mm) Suspension 4 springs, 2 drag links Skids......DUO SKID®, long-life carbide Suction hose diameter..... 10 in (254 mm)

Integral for leaf/light material pickup

GUTTER BROOM, TWIN, Patented

Includes LED floodlights and parabolic mirrors DriveConstant speed non-reversible hydraulic motor

Adjustment..... Adjustable for down pressure, pattern and wear

Down pressure Automatic FlexibilityAll directions integral anti-damage "swing away" relief valve

steel wire, vertical digger

HYDRAULIC SYSTEM

Operates gutter broom(s), dump and pick-up head

Drive Gear driven from auxiliary engine Reservoir ... 25 gal (94.6 L) w/80 mesh suction strainer, sight/temperature gauge, cooler

Temperature shutdown system

DUST CONTROL SYSTEM

Water spray nozzles for due	st suppression
Pump	. Electric diaphragm
Reservoirs	Polyethylene
330 gal (1249 L) total	
Filter	80 mesh in-line
Low water shut-off	Safety shut-off
with audible and visual inc	dicator in cab
Spray nozzles:	
Around pick-up head	
Gutter brooms (each)	2
Hopper (inside) Hydrant fill hose w/storage	1
Hydrant fill hose w/storage	area 20 ft (6 m)

CONTROL SYSTEM BlueLogic[®] Control System

Multiplexed electrical system includes hardware and TYMCO designed software that integrates the in-cab controls to the auxiliary engine and all sweeper functions; as well as provides intelligent safety features and on-board diagnostics (OBD) for the auxiliary engine and sweeper through the BlueLogic display.

BlueLogic Display

Pedestal mounted touchscreen display provides sweeper and auxiliary engine data to the operator and includes hour meters (trip and total) for the auxiliary engine, gutter brooms, pick-up head, blower, and water pump; sweeper odometer (records curb miles swept and sweeping hours), service reminders, custom reminders, overspeed warning, low water audible alarm, dust control system winterization guide, and OBD.

Interior Components

BlueLogic display, auxiliary fuse panel, illuminated control switches: pick-up head, gutter brooms, auxiliary engine RPM, leaf pressure bleeder, dust control water system nozzles, safety lights.

Exterior Components

Dump switch, BlueLogic Control Module (BCM)

SAFETY/WARNING DEVICES

Alternating LED rear flashers (2) Rear view camera system Back-up alarm

SAE Class 1/California Title 13 amber beacon light with limb guard - LED

OPTIONAL EQUIPMENT

AOD water pump w/washdown hose/spray gun Abrasion protection package Additional camera views - pick-up head, left gutter broom, right gutter broom Auto Sweep Interrupt (ASI) Auxiliary hand hose 8 in dia. (203 mm) Auxiliary hand hose hydraulic boom assist

Auxiliary hand hose catch basin cleaning package

Auxiliary hydraulic system

- Gutter broom tilt adjuster(s) (left, right, or twin)
- Gutter broom variable speed
- Gutter broom drop-down
- Hi/Low pressure washdown system
- High output water system
- Hopper deluge system
- Hopper drain system
- Lateral Airflow Nozzle (LAN)
- Liquid Recovery System (LRS)
- Low emissions package (required for South Coast AQMD Rule 1186)
- Magnet, light, standard, or heavy duty
- Shop air purge, dust control system
- Spark resistant skids
- Stainless steel options:
- Hopper:
- Hopper weldment
- Dump door
- Inspection doors
- Raker plate
- High capacity dust separator
- Hopper screen
- Blower housing
- High capacity dust separator
- Hopper drain

Paint color (other than TYMCO standard white)

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

CABOVER CHASSIS AVAILABLE Peterbilt 220

Autocar Xpert