





MODEL HSP® REGENERATIVE® AIR AIRPORT RUNWAY SWEEPER DIESEL AUXILIARY ENGINE / DIESEL CONVENTIONAL CAB CHASSIS

SWEEPER AUXILIARY ENGINE

EngineJohn Deere 4045 turbo FT4, 4 cyl. Power 99 HP @ 2200 RPM (74 kW) 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

- DEF tank......Dedicated
- Capacity (volumetric) 5.4 gal (20.6 L)

Auxiliary engine protection system

Fuel/water separator with WIF sensor

Fuel filters......10 µm primary, 2 µm secondary Open crankcase ventilation (OCV) filter

BLOWER, RUBBER COATED

- 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, RUBBER LINED, HIGH CAPACITY

- TypeCyclonic, multipass, centrifugal separation
- Size20 x 61 in cylindrical area (51 x 155 cm)
- Located adjacent to blower within hopper
- Particulate removal achieved through 61 in
- (155 cm) skimmer slot into skimmer hood
- Separator door opened from hopper exterior Abrasion resistant housing w/replaceable wear resistant liner

HOPPER

Capacity (volumetric)7.3 yd ³ (5.6 m ³)
Capacity (useable)
Construction
with integral stiffeners
Floor angle
Dump door opening84 x 44 in
(213 x 112 cm)
Dump method
Dump directionRear
Dump height
Inspection doors (1) Fach side of hopper

PICK-UP HEAD, HSP, Patented

Туре	Dual chamber
Width (inside dimension)	
Pick-up head area	
Suspension(4) s	prings, (2) drag links
SkidsDUO SKI	
Suction hose diameter	10 in (25 cm)
Pressure hose diameter	14 in (35.5 cm)
Pressure bleeder	Cable operated

GUTTER BROOMS, TWIN, Patented

- DriveConstant speed non-reversible hydraulic motor
- Adjustment.....Adjustable for down pressure, pattern and wear
- Down pressureAutomatic Flexibility.....Integral
- anti-damage "swing away" relief valve
- steel wire, vertical digger
- Parabolic mirrors(2) 10.5 in (26.67 cm) dia.

HYDRAULIC SYSTEM

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

- DriveGear driven from auxiliary engine Flow rate......8 GPM (30.3 LPM) Reservoir25 gal (94.6 L) w/80 mesh suction strainer, sight/temperature gauge
- Cooler Air to oil integral with auxiliary engine heat exchanger Vent filter..... 10 µm spin-on
- Hydraulic oil........Extended life 10W ISO 46 Hydraulic temperature shutdown system w/ temperature gauge in cab

DUST CONTROL SYSTEM

Water spray nozzles for dust suppression Pump Electric diaphragm Reservoirs Polyethylene 220 gal (833 L), total minimum Filter80 mesh in-line Low water shut-offSafety shut-off with audible and visual indicator in cab Spray nozzles: Around pick-up head4 Gutter brooms (each)2 Hopper (inside)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 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

Pressure bleeder control, BlueLogic display, auxiliary fuse panel, illuminated control switches: pick-up head, gutter brooms, auxiliary engine RPM, 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 día. (20 cm) Auxiliary hand hose hydraulic boom assist Auxiliary hand hose catch basin cleaning package Auxiliary hydraulic system COMDEX (extra water and tool box) 330 gal (1249 L) total capacity Gutter broom tilt adjuster(s) (left, right, or twin) Gutter broom variable speed Gutter broom drop-down Hi/Low washdown system High output water system Hopper deluge system Hopper drain system Lateral Airflow Nozzle (LAN) Linear actuator - pressure bleeder w/gauge Liquid Recovery System (LRS) Magnet: Light, standard, or heavy duty Shop air purge, dust control system Spark resistant skids Stainless steel (non-magnetic) options: Hopper: Hopper weldment Dump door Inspection doors Raker plate High capacity dust separator Hopper screen Blower housing Hopper drain

Paint color (other than TYMCO standard white)

Special options are available. Contact your local dealer or TYMCO.

CONVENTIONAL CAB CHASSIS AVAILABLE

International MV607 Freightliner M2-106