



**600**<sup>®</sup>  
AIR SWEEPER

**GENERAL SPECIFICATIONS**



**MODEL 600<sup>®</sup> REGENERATIVE AIR SWEEPER<sup>®</sup>**  
**FINAL TIER 4 AUXILIARY ENGINE/CONVENTIONAL CAB CHASSIS**

**SWEEPER AUXILIARY ENGINE**

Engine ..... John Deere 4045 turbo, 4 cyl.  
(Final Tier 4)  
Displacement ..... 275 in<sup>3</sup> (4.5 L)  
Power ..... 99 HP @ 2200 RPM (74 kW)  
Net torque ..... 315 lb-ft @ 1600 RPM (427 Nm)  
Air cleaner ..... Heavy duty, w/pre-cleaner and  
scavenge vacuum hose  
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)  
Capacity (useable) ..... 3.8 gal (14.4 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  
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 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) ..... 7.3 yd<sup>3</sup> (5.6 m<sup>3</sup>)  
Capacity (useable) ..... 6 yd<sup>3</sup> (4.6 m<sup>3</sup>)  
Construction ..... Welded steel plate  
with integral stiffeners  
Floor angle ..... 22°  
Dump door opening ..... 84 x 44 in  
(2134 x 1118 mm)  
Dumping method ..... Hydraulic with raker bar  
Dumping height ..... 36 in (914 mm)

**PICK-UP HEAD**

Type ..... Dual chamber  
Function ..... Delivers air blast and suction  
Width (inside dimension) ..... 87 in (2210 mm)  
Std. pick-up head area ..... 2610 in<sup>2</sup> (1.68 m<sup>2</sup>)  
BAH<sup>®</sup> option area ..... 3567 in<sup>2</sup> (2.3 m<sup>2</sup>)  
Suspension ..... 4 springs, 2 drag links  
Skids ..... DUO SKID<sup>®</sup>, long-life carbide  
Suction hose diameter ..... 14 in (356 mm)  
Pressure hose diameter ..... 14 in (356 mm)  
Pressure bleeder ..... Integral for  
leaf/light material pickup  
Reverse pick-up head system

**GUTTER BROOM, TWIN, Patented**

Standard equipment includes floodlights 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 in dia. (1092 mm)  
steel wire, vertical digger

**HYDRAULIC SYSTEM**

Operates gutter broom(s), dump and pick-up  
head  
Drive ..... Gear driven from auxiliary engine  
Capacity ..... 8 GPM (30.3 LPM)  
Reservoir ... 25 gal (94.6 L) w/80 mesh suction  
strainer, sight/temperature gauge, cooler  
Filter ..... 3 micron in-line  
Temperature shutdown system

**DUST CONTROL SYSTEM**

Water spray nozzles for dust suppression  
Pump ..... Electric diaphragm  
Reservoirs ..... Polyethylene 220 gal (1249 L),  
total minimum  
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  
Hydrant fill hose w/storage area ..... 20 ft (6 m)

**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,  
auxiliary fuse panel

**BlueLogic<sup>®</sup> Display**

High resolution, color LCD multi-function  
touchscreen display that provides the operator  
feedback on the status of the sweeper  
and auxiliary engine. The display provides  
information for all safety equipment, as well as  
lifetime and trip hours for sweeper equipment  
such as the gutter brooms, pick-up head,  
pick-up head broom, and blower. The display  
also provides service hours for the auxiliary  
engine and hydraulic system fluids and filters.  
Additionally, the sweeper odometer records  
lifetime and trip curb miles swept.

**BlueLogic<sup>®</sup> Control System**

Multiplexed electrical control system which  
provides intelligent safety features and assists  
in sweeper troubleshooting with on board  
diagnostics (OBD).

**Outside cab** ..... Dump

**SAFETY/WARNING DEVICES**

Alternating LED rear flashers (2)  
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  
Auto sweep interrupt w/overspeed interrupt  
Auxiliary hand hose 8 in 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>)  
Camera/monitor 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 pressure washdown system  
High output water system  
Hopper deluge system  
Hopper drain system  
Hose reel, 50 ft (15.24 m) retractable  
Linear actuator - pressure bleeder w/gauge  
Liquid recovery system  
Low emissions package (required for South  
Coast AQMD Rule 1186)  
Magnet, light, standard, or heavy duty  
Pick-up head curtain lifter  
Pick-up head deluge  
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  
TYMCO.*

**CONVENTIONAL CAB  
CHASSIS AVAILABLE**

International 4300  
Freightliner M2-106

# MODEL 600® REGENERATIVE AIR SWEEPER®

## FINAL TIER 4 AUXILIARY ENGINE/CONVENTIONAL CAB CHASSIS



**INTERNATIONAL 4300-DT  
HORIZONTAL EXHAUST**



**INTERNATIONAL 4300-ISB  
VERTICAL EXHAUST**



**FREIGHTLINER M2-106  
HORIZONTAL EXHAUST**

<b>CAB/CHASSIS</b>			
GVW	31,000 lb (14,061 kg)	31,000 lb (14,061 kg)	31,000 lb (14,061 kg)
Front Axle	10,000 lb (4536 kg) w/10,000 lb (4536 kg) front suspension	10,000 lb (4536 kg) w/10,000 lb (4536 kg) front suspension	10,000 lb (4536 kg) w/10,000 lb (4536 kg) taper-leaf front suspension
Rear Axle	21,000 lb (9525 kg) w/31,000 lb (14,061 kg) Vari-rate rear suspension w/4,500 lb (2041 kg) auxiliary rubber springs	21,000 lb (9525 kg) w/31,000 lb (14,061 kg) Vari-rate rear suspension w/4,500 lb (2041 kg) auxiliary rubber springs	21,000 lb (9525 kg) w/ 23,000 lb (10,433 kg) variable rate multi-leaf spring w/leaf spring helper
Gear ratio	6.43 (single speed), 6.17/8.40 (two speed)	6.43 (single speed), 6.17/8.40 (two speed)	6.43 (single speed), 5.57/7.60 (two speed)
Frame	50,000 PSI (3447.38 bar)	50,000 PSI (3447.38 bar)	80,000 PSI (5515.81 bar)
Engine	MaxxForce DT	Cummins ISB	Cummins ISB
Displacement	466 in <sup>3</sup> (7.6 L)	409 in <sup>3</sup> (6.7 L)	409 in <sup>3</sup> (6.7 L)
Power	215 hp @ 2200 RPM	200 hp @ 2400 RPM	200 hp @ 2300 RPM
Torque	560 lb-ft (759 Nm) @ 1300 RPM	520 lb-ft (705 Nm) @ 1600 RPM	520 lb-ft (705 Nm) @ 1600 RPM
Transmission	Allison 2500 RDS 6-speed automatic transmission with PTO provision, synthetic fluid, and temperature gauge in cab	Allison 2500 RDS 6-speed automatic transmission with PTO provision, synthetic fluid, and temperature gauge in cab	Allison 2500 RDS 6-speed automatic transmission with PTO provision, synthetic fluid, and temperature gauge in cab
Alternator	160 amp	160 amp	160 amp
Batteries	(2) group 31, 12 volt, 1300 CCA total maintenance free	(2) group 31, 12 volt, 1900 CCA total maintenance free	(2) group 31, 12 volt, 1900 CCA total maintenance free
Wheelbase	165 in (4191 mm)	167 in (4241 mm)	165 in (41200 mm)
Turning diameter (wall to wall)	47.5 ft (14.48 m)	48.0 ft (14.63 m)	47.4 ft (14.45 m)
Turning diameter (curb to curb)	45.3 ft (13.81 m)	45.8 ft (13.96 m)	45.7 ft (13.93 m)
Fuel	Diesel	Diesel	Diesel
Fuel tank (shared with sweeper)	51 gal (193 L)	51 gal (193 L)	51 gal (193 L)
DEF tank	n/a	7 gal (26.5 L)	6 gal (22.7 L)
Tires (2-front, 4-rear)	Tubeless 11R x 22.5	Tubeless 11R x 22.5	Tubeless 11R x 22.5
Steering	Integral dual power assisted w/18 in (457 mm) diameter steering wheel w/tilt and dual gauges	Integral dual power assisted w/18 in (457 mm) diameter steering wheel w/tilt and dual gauges	Integral dual power assisted w/18 in (457 mm) diameter steering wheel w/tilt and dual gauges
Brakes	Dual anti-lock air brakes w/13.2 CFM (0.37 m <sup>3</sup> /minute) air compressor	Dual anti-lock air brakes w/18.7 CFM (0.53 m <sup>3</sup> /minute) air compressor	Anti-lock air brakes, cam type, Q-Plus w/18.7 CFM (0.53 m <sup>3</sup> /minute) air compressor
Instruments & lights	Full package as required	Full package as required	Full package as required
Seats	Adjustable, individual high back air seats w/ lumbar support and cloth inserts for operator comfort	Adjustable, individual high back air seats w/ lumbar support and cloth inserts for operator comfort	Adjustable, high back air seats – driver and passenger vinyl w/cloth inserts and mechanical lumbar
Air dryer	Yes w/heater	Yes w/heater	Yes w/heater
Cruise control	Yes	Yes	Yes
Mirrors	Electric remote controlled and heated	Electric remote controlled and heated	Electric remote controlled and heated
Air conditioned cab	Yes, w/fresh air filters (primary and secondary) for cab filtration	Yes, w/fresh air filters (primary and secondary) for cab filtration	Yes, w/fresh air filter for cab filtration
Exhaust system	Single, horizontal; after-treatment device, frame mounted right side, under cab w/horizontal tail pipe	Left hand outboard frame mounted vertical after-treatment device with topstack	Single, horizontal; after-treatment device, frame mounted right side, under cab w/horizontal tail pipe
Audio system	AM/FM auxiliary input stereo radio w/digital clock	AM/FM auxiliary input stereo radio w/digital clock	AM/FM/WB auxiliary input stereo radio w/digital clock
Daytime running lights	Yes	Yes	Yes
<b>SWEEPING WIDTH (Approximate)</b>			
Pick-up head only	87 in (2210 mm)	87 in (2210 mm)	87 in (2210 mm)
With 1 gutter broom	110 in (2794 mm)	110 in (2794 mm)	110 in (2794 mm)
With 2 gutter brooms	142 in (3606 mm)	142 in (3606 mm)	142 in (3606 mm)
<b>OVERALL DIMENSIONS (Approximate)</b>			
Length (sweeper body & chassis only)	276 in (7010 mm)	278 in (7061 mm)	273 in (6934 mm)
Width (w/2 gutter brooms)	97 in (2464 mm)	97 in (2464 mm)	97 in (2464 mm)
Height (w/o bar light)	118 in (2997 mm) @ auxiliary engine	118 in (2997 mm) @ auxiliary engine	118 in (2997 mm) @ auxiliary engine
Empty weight (sweeper body & chassis only)	19,455 lbs (8825 kg)	19,020 lbs (8627 kg)	20,215 lbs (9169 kg)
<i>Dimensions and weight may vary with equipment. Consult factory for additional specifications and other available truck chassis.</i>			