



ENGINE

Model..... Case Family III 445/M2 diesel, Tier II certified
Type..... 4-stroke, naturally aspirated
Cylinders 4
Bore/Stroke..... 4.1" x 5.2"
(104 x 132 mm)
Displacement 274 in³ (4.5 L)
Fuel injection..... Direct
Fuel..... #2 Diesel
Fuel filter In-line strainer
Air intake Cross-flow
Cooling..... Liquid
Engine speeds (rpm)
High idle - no load..... 2480 ±50
Rated - full load 2300
Low idle..... 1050 ±50
Horsepower per SAE J1349
Gross..... 80.5 (60 kW) @ 2300 rpm
Net 74 (55.2 kW) @ 2300 rpm
Maximum torque @ 1400 rpm
Gross 236 lb·ft (320 N·m)

ENGINE COOLING

Radiator
Core type Serpentine
Core size area..... 449 in² (.29 m²)
Rows of tubes 3
Cap pressure 13 psi (89.6 kPa)
Fan
Diameter 18.9" (480 mm)
Ratio 1.1:1
Water pump
Style..... Integral
Flow..... 48 gpm (182 L/min)
Engine lubrication
Pump Deep sump with plate cooler and pressurized under-piston nozzles
Pump operating angle ratings
Side-to-side Rated 35°
Fore and aft..... Rated 35°
Oil filtration..... Replaceable, full-flow cartridge

POWERTRAIN

Drive pump Tandem, axial piston hydrostatic transmission w/integral charge pump driven directly off engine flywheel
Pump to engine ratio 1:1
Displacement... 0 to 2.81 in³ (46 cc)
Pump flow @ high idle rpm 29.6 gpm (112 L/min)
Flow Bidirectional
Charge pressure.... 361 psi (24 bar)
System relief..... 5,000 psi (345 bar)
Controls Servo
Drive motors Fixed displacement radial piston
Maximum displacement.... 28.7 in³ (470 cc)
Speed @ high idle rpm & max. displacement 238 rpm
Torque @ max. displacement..... & relief pressure..... 5,920 lb·ft (8027 N·m)
Travel speeds – mph (km/h)
Low range..... 7.0 (11.3)
High range (optional)11.7 (18.8)
Final drive..... Single-reduction chain drive
Drive chain
Size ASA #100HV
Tensile strength 30,000 lb (133 452 N)
Axles..... One-piece, forged induction-hardened high carbon steel
Torque @ rated rpm 5,920 lb·ft (8027 N·m)
Diameter 2.5" (63.5 mm)
Length 14.61" (371 mm)
Parking brakes Spring-applied, hydraulic release disc
Engagement Depress on/off brake button, raise seat bar, get off seat, or stop engine

HYDRAULIC SYSTEM

Standard equipment
pump.....Gear pump
Displacement ... 2.2 in³/rev (36 cc)
Pump flow @ rated engine rpm
Total..... 21 gpm (80 L/min)
Optional high flow @
rated engine rpm 33.7 gpm (128 L/min)
Loader control valve 3-spool open center series with power beyond port
Relief pressure 3,050 psi (210 bar)
Port relief pressures
#1B Raise.....3,350 psi (230 bar)
Hydraulic lines
Tubing 37° JIC flare
Loop hoses SAE 100 R12
Hydraulic oil cooler
Core type Two row in-line
Hydraulic filter 6 micron spin-on replaceable element on the return line w/warning indicator

INSTRUMENTATION

Battery Voltage
 LCD hourmeter
 Fuel level LCD bar graph
 Warning lights
 Engine preheat
 Engine coolant temperature
 Hydraulic oil temperature
 Air cleaner restriction
 Hydraulic filter restriction
 Engine oil pressure
 Hydraulic charge pressure
 Parking brake
 Seat belt reminder
 Warning alarms
 Engine coolant temperature
 Hydraulic charge pressure
 Engine oil pressure
 Hydraulic oil temperature
 Seat belt reminder

ELECTRICAL SYSTEM

Alternator 95 amp
 Starter 2.7 kW
 Battery 12-volt low-maintenance
 850 cold-cranking amps
 @ 0° F (-18° C)

OPERATOR ENVIRONMENT

No-tool tilt ROPS/FOPS canopy
 w/side screens
 Vinyl seat
 Seat presence switch
 2" (51 mm) retractable seat belt
 Restraint bar w/integral armrests
 Two adjustable, hands-only
 control levers
 Hand and foot throttles
 Loader control lockout system
 In-cab loader lock
 Rear window w/escape provision
 Front and rear halogen floodlights
 Floor cleanout panel

CYLINDERS

Lift cylinder
 Bore diameter 2.5" (63.5 mm)
 Rod diameter 1.75" (44.4 mm)
 Stroke 41.3" (1.05 m)
 Closed length 53.5" (1.36 m)
 Bucket cylinder
 Bore diameter 2.5" (63.5 mm)
 Rod diameter 1.25" (32 mm)
 Stroke 20.67" (525 mm)
 Closed length 32.4" (823 mm)

OPERATING WEIGHTS

Unit equipped with 12.00 x 16.5
 Solideal Hauler SKS tires, 73" (1.85 m)
 long lip bucket, mechanical attachment
 coupler, 165 lb (75 kg) operator and
 full fuel tank 7,677 lb (3482 kg)

Add-on weights

Side cab glass +70 lb (32 kg)
 Glass door w/wiper +77 lb (35 kg)
 Heater +60 lb (27 kg)
 Suspension seat +10 lb (4.5 kg)
 Hydraulic attachment
 coupler +38 lb (17 kg)
 Counterweight +875 lb (387 kg)

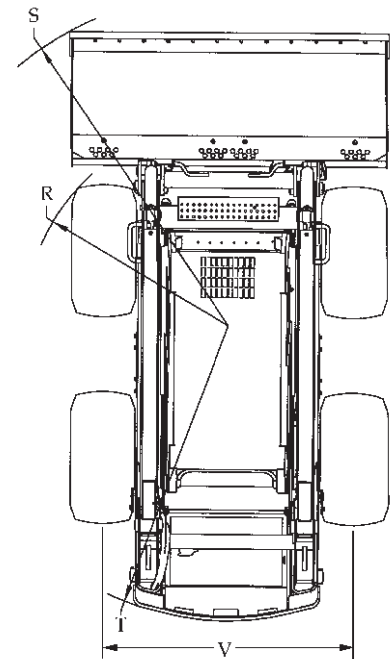
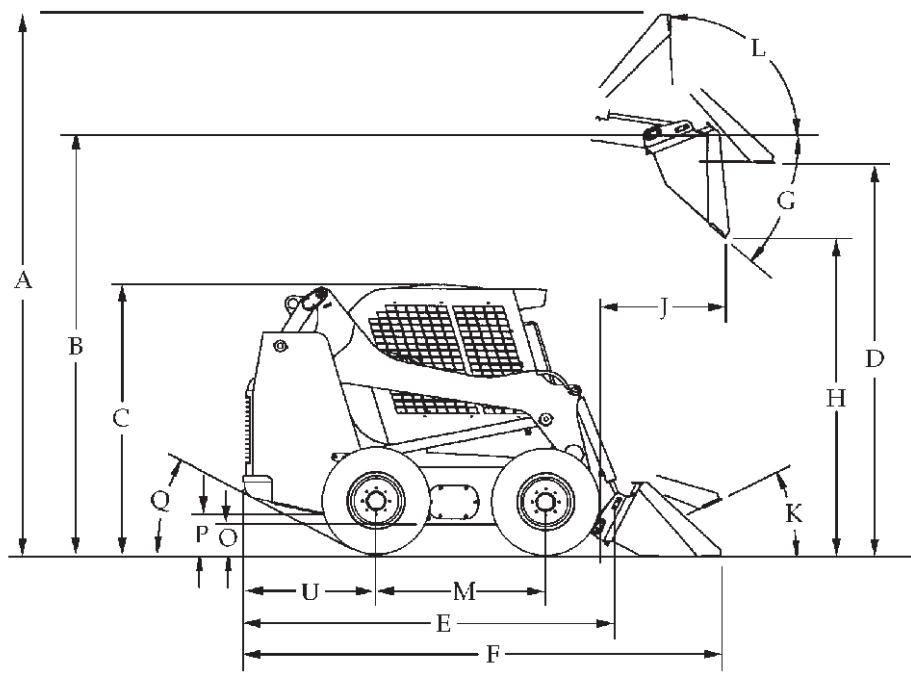
SERVICE CAPACITIES

Fuel tank 17.3 gal (65.5 L)
 Engine oil w/filter 3.2 gal (12 L)
 Engine cooling system 18 qt (17 L)
 Hydraulic system
 Reservoir 5.7 gal (21.7 L)
 Total 11 gal (41.5 L)
 Chain tanks (per side) ... 2 gal (7.6 L)

TIRE SELECTION

	Size	Ply Rating	Tread Depth	Tire Width	Width Over Tires	Tire Weight*	Max. Travel Speed
Solideal Hauler SKS	12.00 x 16.5	10	0.75" (19 mm)	13.1" (333 mm)	72" (1.83 m)	51 lb (23.1 kg)	7.1/11.6 mph (11.4/18.8 km/h)
Galaxy Beefy Baby II	12.00 x 16.5	10	0.75" (19 mm)	12.3" (312 mm)	72" (1.83 m)	81 lb (36.7 kg)	7.1/11.6 mph (11.4/18.8 km/h)
Galaxy King Kong	12.00 x 16.5	10	1.25" (32 mm)	10.2" (259 mm)	72" (1.83 m)	96 lb (43.5 kg)	7.2/11.8 mph (11.7/18.9 km/h)
Galaxy Hulk	12.00 x 16.5	12	0.81" (21 mm)	12.3" (312 mm)	72" (1.83 m)	100 lb (45.3 kg)	7.1/11.6 mph (11.4/18.8 km/h)
Galaxy Bulky Hulk	33/15.50 x 16.5	14	0.81" (21 mm)	16.7" (424 mm)	80" (2.03 m)	124 lb (56.2 kg)	7.1/11.6 mph (11.4/18.8 km/h)
Case Steel Tracks	12.00 x 16.5	NA	1.4" [†] (36 mm)	14.7" [‡] (373 mm)	78" (1.98 m)	959 lb (435 kg)	7.4/12/1 mph (11.9/19.7 km/h)

NOTE: * Tire weight does not include wheel weight. [†]Equals grouser depth. [‡]Equals track width.



DIMENSIONS

A. Overall operating height	
Dirt bucket.....	158" (4.01 m)
Light material bucket	165.5" (4.20 m)
Height to*	
B. Bucket hinge pin	120.6" (3.06 m)
C. Top of rollover protection structure	80" (2.03 m)
D. Bottom of level bucket, loader arm fully raised	111.5" (2.83 m)
Overall length	
E. w/o attachment w/coupler	103.1" (2.62 m)
F. w/dirt bucket on ground.....	135.5" (3.44 m)
F. w/light material bucket on ground	143.2" (3.64 m)
G. Dump angle @ full height	40°
H. Dump clearance at maximum height	
Dirt bucket.....	92.3" (2.34 m)
Light material bucket	90.5" (2.30 m)
J. Dump reach – loader arm fully raised	
Dirt bucket.....	33.7" (.86 m)
Light material bucket	47.9" (1.22 m)
Maximum attachment rollback	
K. Bucket on ground.....	27°
L. Bucket at full height	95°
M. Wheel base	44.9" (1.14 m)
Ground clearance	
O. Bottom of chain case	9.0" (229 mm)
P. Bottom of belly pan	11" (279 mm)
P. Bottom of optional counterweight.....	9.1" (231 mm)
Q. Angle of departure	31°
Clearance circle front	
R. less bucket	53.9" (1.37 m)
S. w/73" (1.85 m) dirt bucket in carry position.....	82.6" (2.09 m)
S. w/82" (2.08 m) dirt bucket in carry position.....	85.8" (2.18 m)
S. w/82" (2.08 m) light material bucket on ground.....	92.7" (2.35 m)
T. Clearance circle rear	61.1" (1.55 m)
U. Rear axle centerline to back bumper	8.3" (.97 m)
V. Tread width, centerline to centerline	60.0" (1.52 m)

NOTE: *Equipped with 12.00 x 16.5 Solideal Hauler SKS tires.

PERFORMANCE SPECS

Operating load.....	2,500 lb (1134 kg)
Tipping load.....	5,000 lb (2268 kg)
Breakout force	
Lift	5,066 lbf (22 534 N)
Bucket —	
Long lip	5,100 lbf (22 685 N)
Short lip.....	6,350 lbf (28 245 N)
Dig depth w/bucket flat	0.24"
	(6 mm)
Cycle time – seconds	
Raise.....	4.9
Lower.....	3.8
Dump (stop-to-stop).....	2.3
Rollback.....	1.7

NOTE: SAE rated lift capacities.

OPTIONAL BUCKETS

Type	Width in (m)	Weight lb (kg)	Capacity ft ³ (m ³)
Dirt.....	73	553	16.8
	(1.9)	(251)	(.48)
	84	593	19
HD Dirt	73	621	16.8
	(1.9)	(282)	(.48)
	84	676	19
Utility	73	696	22.4
	(1.9)	(285)	(.63)
	84	674	25.3
HD Utility	73	696	22.4
	(1.9)	(316)	(.63)
	84	758	25.3
Light Material.....	82	584	32.5
	(2.1)	(265)	(.92)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

ROPS/FOPS canopy w/side screens
No-tools tilt ROPS/FOPS
Instrument panel
Vinyl seat
2" (51 mm) retractable seat belt
Hand & foot throttles
Ergonomic hand controls
Seat bar w/integral arm rests
Loader control lockout system
Electric brake control
Rear window w/escape provision
Floor cleanout panel

LOADER

Heavy lift-and-reach linkage
Mechanical attachment coupler

ENGINE

Case Family III 445/M2 diesel
Tier II certified
Integral engine oil cooling
Fuel filter w/water trap
Dual element air cleaner
95 amp alternator
850 CCA 12-volt battery
Heavy-duty radiator

POWERTRAIN

Hydrostatic four wheel drive
Servo controls
ASA #100HV drive chain
SAHR disc parking brakes

HYDRAULICS

Auxiliary hydraulics 3,000 psi (207 bar) – 21 gpm (80 L/min)
Auxiliary interlock system
Loader arm mounted ISO flat face hydraulic quick connectors
Auxiliary function lockout override
Loader lift lockout override
3-spool loader control valve
Heavy-duty oil cooler
Loader arm float position

OTHER

Integral bumper counterweight
Lockable service access hood
Single-point daily servicing
Halogen lights, 2-front, 1-rear
Rear tail lights
Options harness

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Vinyl suspension seat w/
2" (51 mm) retractable seat belt
Vinyl suspension seat w/
3" (76 mm) retractable seat belt
Electric auxiliary hydraulic control
Glass front door w/wiper & washer
Sliding side windows
Air conditioning
Heater (deluxe)
Accessory power outlet
Floormat w/footrests
Headliner

LOADER

Auxiliary front electric control
Ride Control
Hydraulic attachment coupler
Hydraulic self-leveling

ENGINE

Coolant block heater (120V factory or dealer installed, 240V dealer installed only)
Grid heater

HYDRAULICS

Auxiliary high flow 3,000 psi (207 bar) – 33.7 gpm (128 L/min)
Attachment case drain plumbing

OTHER

2-speed ground drive
Backup alarm and horn package
Rotating beacon
875 lb (397 kg) counterweight
Lift hooks
Drawbar
Heavy-duty rear door
Language decals
Special paint
Buckets – see page 3
42" (1.07 m)/48" (1.22 m) pallet forks
Bolt-on bucket edges
Steel tracks
Factory installed tires – see page 2
Jump start terminals/Battery disconnect switch
Bolt-on spill guard

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

NOTE: All engines meet current EPA emissions requirements.

IMPORTANT: CNH America LLC reserves the right to change these specifications without notice and without incurring any obligation relating to such change. CNH America LLC does not warrant the safety or reliability of attachments from other manufacturers.

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