

ENGINE

Model	Case Family III 445T/M2 diesel, Tier II certified
Type	4-stroke, turbocharged
Cylinders	4
Bore/Stroke	4.1 x 5.2 in (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
Horsepower per SAE J1349	
Gross	89 (66 kW) @ 2300 rpm
Net	82 (61.1 kW) @ 2300 rpm
Peak torque	
@ 1400 rpm	263 lb-ft (357 N-m)

ENGINE COOLING

Radiator	
Core type	Square wave serpentine
Core size area	450 in² (.290 m²)
Rows of tubes	3
Cap pressure	13.0 psi (89.6 kPa)
Fan	
Diameter	17.7 in (450 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 @ rated rpm	29.8 gpm (113 L/min)
Flow	Bi-directional
Charge pressure	360 psi (24.8 bar)
System relief	4350 psi (300 bar)
Controls	Servo
Drive motors	Fixed displacement radial piston
Maximum displacement	28.7 in³ (470 cc)
Speed @ rated engine rpm	
@ max displacement	238 rpm
Optional high speed	397 rpm
Torque @ max displacement and relief pressure	5,920 lb-ft (8027 N-m)
Travel speed mph (km/h)	
Low range	7.3 (11.8)
High range (optional)	11.9 (19.2)
Final drive	Single-reduction chain drive
Drive chain	
Size	ASA #100HV
Tensile strength	30,000 lb (133 447 N)
Axles	
One-piece, forged induction-hardened high carbon steel	
Torque @ rated rpm	4,633 lb-ft (6014 N-m)
Diameter	2.0 in (51 mm)
Length	14.61 in (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	21.0 gpm (79.4 L/min)
Optional high flow @ rated engine rpm	
Total	31 gpm (117 L/min)
Loader control valve	
3-spool open-center series with power beyond port	
Relief pressure	3000 psi (207 bar)
Port relief pressures	
#1B Raise	3350 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 with warning indicator	

INSTRUMENTATION

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

Tilt ROPS/FOPS canopy w/side screens
Water-shedding vinyl seat
Seat presence switch
2 in (51 mm) retractable seat belt
Seat bar w/integral armrests
Two servo-assist, adjustable, hands-only control levers
Hand throttle
Loader control lockout system
Front and rear halogen floodlights
Floor cleanout access

CYLINDERS

Lift cylinder		
Bore diameter	2.5 in (63.5 mm)	
Rod diameter	1.5 in (38.1 mm)	
Stroke	35.8 in (910 mm)	
Closed length	46.8 in (1190 mm)	
Bucket cylinder		
Bore diameter	3.0 in (76.2 mm)	
Rod diameter	1.5 in (38.1 mm)	
Stroke	14.6 in (370 mm)	
Closed length	26.9 in (683 mm)	

OPERATING WEIGHTS

Unit equipped with 12.00 x 16.5 Solideal Hauler SKS tires, 66 in (1.6 m) short lip bucket, mechanical attachment coupler, full fuel and 165 lb (75 kg) operator		6,980 lb (3167 kg)
Shipping weight	6,312 lb (2864 kg)	
Add-on weights		
Side cab glass	+70 lb (32 kg)	
Lexan® door	+50 lb (22.6 kg)	
Glass door w/wiper	+77 lb (35 kg)	
Floor heater	+20 lb (9.1 kg)	
Suspension seat	+10 lb (4.5 kg)	

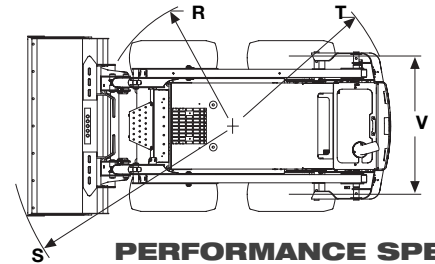
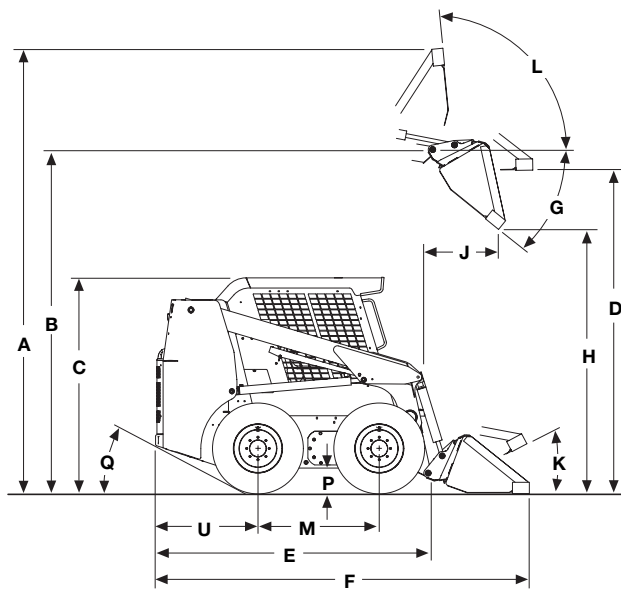
SERVICE CAPACITIES

Fuel tank	22.0 gal (83.3 L)
Engine oil w/filter	12.7 qt (12 L)
Engine cooling system	18 qt (17 L)
Hydraulic system	
Reservoir	7.1 gal (32.4 L)
Total	13.3 gal (50.2 L)
Chain tanks (per side)	6 qt (5.7 L)

TIRE SELECTION

	Size	Ply Rating	Tread Depth	Tire Width	Width Over Tires	Tire Weight*
Solideal Hauler SKS	12.00 x 16.5	10	0.75 in (19 mm)	13.1 in (333 mm)	64 in (1.63 m)	74 lb (33.6 kg)
Solideal Hauler SKS (offset wheel)	12.00 x 16.5	10	0.75 in (19 mm)	13.1 in (333 mm)	71 in (1.80 m)	74 lb (33.6 kg)
Galaxy Beefy Baby II	12.00 x 16.5	10	0.81 in (21 mm)	12.4 in (315 mm)	64 in (1.63 m)	81 lb (36.7 kg)
Galaxy Beefy Baby (offset wheel) II	12.00 x 16.5	10	0.81 in (21 mm)	12.4 in (315 mm)	71 in (1.80 m)	81 lb (36.7 kg)
Galaxy Hulk	12.00 x 16.5	12	1.37 in (35 mm)	12.0 in (304 mm)	64 in (1.63 m)	100 lb (45.4 kg)
Galaxy Bulky Hulk	33/15.50 x 16.5	14	1.37 in (35 mm)	15.1 in (384 mm)	70 in (1.78 m)	124 lb (56.2 kg)
Galaxy Hippo	33/15.50 x 16.5	12	81 in (21 mm)	15.2 in (386 mm)	70 in (1.78 m)	96 lb (43.6 kg)

NOTE: *Tire weight does not include wheel weight.



DIMENSIONS

A.	Overall operating height	
	w/foundry/excavating bucket – short lip	152.4 in (3.87 m)
	w/low profile bucket – standard lip	158.0 in (4.01 m)
	w/low profile extended bucket – long lip	163.0 in (4.14 m)
	Height to*	
B.	Bucket hinge pin	121.5 in (3.09 m)
C.	Top of rollover protective structure	76.7 in (1.95 m)
D.	Bottom of level bucket, loader arm fully raised	114.2 in (2.90 m)
	Overall length	
E.	w/o attachment w/coupler	103.9 in (2.64 m)
F.	w/foundry/excavating bucket on ground	127.2 in (3.23 m)
F.	w/low profile bucket on ground	132.9 in (3.38 m)
F.	w/low profile extended bucket on ground	137.9 in (3.50 m)
G.	Dump angle at maximum height	39°
H.	Dump height – loader arm fully raised	
	w/foundry/excavating bucket	96.6 in (2.45 m)
	w/low profile bucket	93.1 in (2.37 m)
	w/low profile extended bucket	90.0 in (2.29 m)
J.	Reach – loader arm fully raised	
	w/foundry/excavating bucket	21.3 in (0.54 m)
	w/low profile bucket	25.9 in (0.66 m)
	w/low profile extended bucket	29.7 in (0.75 m)
	Maximum attachment rollback	
K.	Bucket on ground	32°
L.	Bucket at full height	84°
M.	Wheelbase	43.1 in (1.10 m)
	Ground clearance	
P.	Bottom of belly pan	9 in (229 mm)
Q.	Angle of departure	28°
	Clearance circle front	
R.	less bucket	50.3 in (1.28 m)
S.	w/66 in (1.68 m) foundry/excavating bucket on ground	76.7 in (1.95 m)
S.	w/66 in (1.68 m) low profile bucket on ground	81.9 in (2.08 m)
S.	w/66 in (1.68 m) low profile extended bucket on ground	83.1 in (2.20 m)
T.	Clearance circle rear	59.1 in (1.50 m)
U.	Rear axle to bumper	36.6 in (0.93 m)
V.	Tread width, centerline to centerline	52.6 in (1.34 m)

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

PERFORMANCE SPECS

Operating load	2,200 lb (998 kg)
Tipping load	4,400 lb (1996 kg)
Breakout force	
Lift cylinder	4,801 lbf (21 350 N)
Bucket cylinder	6,198 lbf (27 571 N)
Dig depth	
w/bucket flat	0 in (0 mm)
Cycle time	
Raise	4.1 seconds
Lower	3.2 seconds
Dump	2.4 seconds
Rollback	1.9 seconds

NOTE: SAE rated lift capacities. Breakout force and cycle time measured with rated load in F/E bucket.

OPTIONAL BUCKETS

Type	Width inch (m)	Weight lb (kg)	Heaped Capacity ft³ (m³)
Foundry/ Excavating	66 (1.6)	370 (168)	15.2 (0.43)
	72 (1.8)	390 (177)	16.7 (0.47)
	78 (2.0)	495 (225)	18.4 (0.52)
Low Profile	66 (1.6)	400 (181)	13.2 (0.37)
	72 (1.8)	425 (193)	14.5 (0.41)
Low Profile Extended	66 (1.6)	434 (197)	15.5 (0.44)
	72 (1.8)	477 (216)	17.1 (0.48)
	78 (2.0)	502 (228)	18.6 (0.53)
Utility/Light Material	72 (1.8)	434 (197)	23.7 (0.67)
	84 (2.1)	497 (225)	27.9 (0.79)
Manure/ Slurry	72 (1.8)	465 (211)	19.1 (0.54)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

ROPS/FOPS canopy w/side screens
Tilt ROPS/FOPS
Instrument panels
Water-shedding vinyl seat
2 in (51 mm) retractable seat belt
Hand throttle
Ergonomic hand controls
Seat bar w/integral armrests
Loader control lockout system
Electric brake control
Floor cleanout panel

LOADER

Radial loader arm design
Mechanical attachment coupler

ENGINE

Case Family III 445T/M2 diesel
Tier II certified
Automatic fan belt tensioner
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 #100HS drive chain
SAHR disc parking brakes

HYDRAULICS

Auxiliary hydraulics 3000 psi
(207 bar) – 21.0 gpm (79.4 L/min)
Hydraulic circuit pedal lock
Loader arm-mounted ISO flat face connectors
Auxiliary function lockout override
Loader function lockout system
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 in (51 mm)
retractable seat belt
Vinyl suspension seat w/3 in (76 mm)
retractable seat belt
Electric auxiliary hydraulic control
Glass front door w/wiper & washer
Sliding side windows
Air conditioning
Heater (deluxe)
Rear window w/emergency escape feature
Foot throttle
Accessory power outlet

LOADER

Auxiliary front electric control
Ride control
Hydraulic attachment coupler
Hydraulic one-way self-leveling

HYDRAULICS

High-flow auxiliary hydraulics
3000 psi (207 bar) – 31.0 gpm (117 L/min)
Second auxiliary hydraulics
Attachment case drain plumbing

ENGINE

Coolant block heater
Grid heater

OTHER

2 speed ground drive
Backup alarm/horn package
Rotating beacon
Lift hooks
Special paint
Language decals
Factory-installed tires – see page 2
Buckets – see page 3
Bolt-on bucket cutting edges
42 in (1.07 m) and 48 in (1.22 m) pallet forks
Battery disconnect switch/jump start terminals
Steel tracks

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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