



ENGINE

Model..... Case Family III
445T/M2 diesel, Tier II certified
Type 4-stroke, turbocharged
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..... 88 (65.7 kW) @ 2300 rpm
Net 82 (61.2 kW) @ 2300 rpm
Peak torque
@ 1400 rpm 263 lb-ft (356 N·m)

ENGINE COOLING

Radiator
Core type Square wave
serpentine
Core size area 449 in² (0.29 m²)
Rows of tubes 5
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
with integral charge pump
driven directly off
engine flywheel
Pump to engine ratio 1.2:1
Displacement .. 0 to 2.81 in³ (46 cc)
Pump flow @ rated rpm... 33.6 gpm
(127 L/min)
Flow Bi-directional
Charge pressure.... 360 psi (24 bar)
System relief..... 5000 psi (345 bar)
Controls Servo
Drive motors Fixed displacement
radial piston
Maximum displacement.... 45.8 in³
(750 cc)
Speed @ rated engine rpm
@ max displacement..... 180 rpm
Torque @ max displacement
and relief pressure..... 2,733 lb-ft
(3,705 N·m)
Travel High/low
trigger-button control
Low speed 0 - 6.7 mph
(10.7 km/h)
High speed (optional) .. 0 - 12.3 mph
(19.8 km/h)
Final drive..... Single-reduction
chain drive
Drive chain
Size ASA #120HS
Tensile strength 41,000 lb
(182,384 N)
Axles..... One-piece, forged
induction-hardened
high carbon steel
Max torque @ rated rpm... 6681 lb-ft
(9058 N·m)
Diameter 2.5" (63.5 mm)
Length 14.76" (375 mm)
Parking brakes Spring-applied,
hydraulic release
Capacity 3,967 lb-ft (5378 N·m)
(at the axle shaft)
Engagement Depress on/off
brake button,
raise seat bar, get off seat,
or stop engine

HYDRAULIC SYSTEM

Standard equipment
pump.....Gear pump
Displacement .. 1.94 in³/rev (32 cc)
Pump flow @ rated engine rpm
Total 22.1 gpm (83.9 L/min)
Optional high flow @ rated
engine rpm
Total 37.2 gpm (140.6 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..... 3800 psi (262 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
 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..... 49" (1.25 m)
 Closed length..... 60.7" (1.54 m)
 Bucket cylinder
 Bore diameter..... 2.75" (70 mm)
 Rod diameter 1.375" (34.9 mm)
 Stroke 20.67" (525 mm)
 Closed length..... 31.5" (800 mm)

OPERATING WEIGHTS

Unit equipped with 12.0 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 8,848 lb (4022 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)
 High flow auxiliary
 hydraulics 269 lb (122 kg)
 Hydraulic attachment
 coupler +38 lb (17 kg)
 Counterweight +925 lb (420 kg)

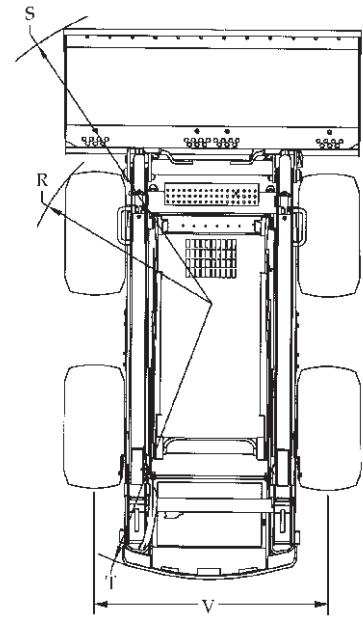
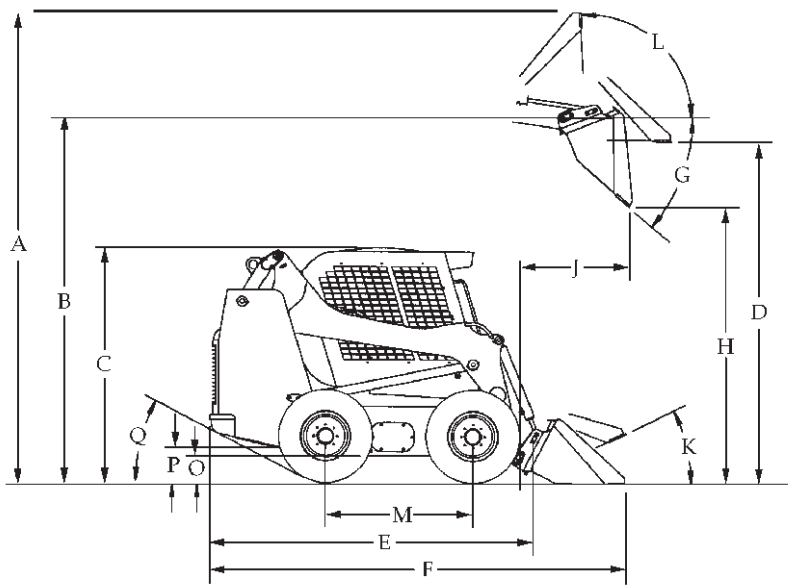
SERVICE CAPACITIES

Fuel tank..... 20.2 gal (76.4 L)
 Engine oil w/filter 3.2 gal (12 L)
 Engine cooling system 18 qt (17 L)
 Flywheel/splitter gearbox... 2.1 qt (2 L)
 Hydraulic system
 Reservoir 7.0 gal (26.5 L)
 Total 17.5 gal (66.2 L)
 Chain tanks (per side)..... 8 qt (7.6 L)

TIRE SELECTION

	Size	Ply Rating	Tread Depth	Tire Width	Width Over Tires	Tire Weight*	Max. Travel Speed Single/Two 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.....	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 Hulk	12.00 x 16.5.....	12.....	0.81"..... (21 mm)	12.3"..... (312 mm)	72"..... (1.83 m)	100 lb..... (45.3 kg)	11.1 mph (17.9 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 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..... (435.0 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.....	163.0" (4.14 m)
	Light material bucket.....	170.4" (4.33 m)
	Height to	
B.	Bucket hinge pin.....	125.5" (3.19 m)
C.	Top of rollover protective structure.....	80" (2.03 m)
D.	Bottom of level bucket, loader arm fully raised	117.5" (2.98 m)
	Overall length	
E.	w/o attachment w/coupler	110.6" (2.81 m)
F.	w/dirt bucket on ground	142.9" (3.63 m)
F.	w/light material bucket on ground	150.7" (3.83 m)
G.	Dump angle at maximum height	
	Dirt bucket.....	40°
	Light material bucket.....	35°
H.	Dump height – loader arm fully raised	
	Dirt bucket.....	95.0" (2.41 m)
	Light material bucket.....	93.1" (2.36 m)
J.	Reach – loader arm fully raised	
	Dirt bucket	36.8" (935 mm)
	Light material bucket.....	45.2" (1.15 m)
	Maximum attachment rollback	
K.	Bucket on ground.....	27°
L.	Bucket at full height.....	94°
M.	Wheelbase.....	50.59" (1.28 m)
	Ground clearance	
O.	Bottom of chain case.....	9.1" (231 mm)
P.	Bottom of belly pan	11" (279 mm)
P.	Bottom of optional counterweight	9.1" (231 mm)
Q.	Angle of departure	28°
	Clearance circle front	
R.	less bucket	54.9" (1.39 m)
S.	w/73" (1.85 m) dirt bucket on ground	86.3" (2.19 m)
S.	w/84" (2.08 m) dirt bucket on ground	88.4" (2.24 m)
S.	w/82" (2.08 m) light material bucket on ground.....	93.7" (2.38 m)
T.	Clearance circle rear	65.1" (1.65 m)
V.	Tread width, centerline to centerline.....	64.5" (1.64 m)

PERFORMANCE SPECS

Operating load	3,000 lb (1364 kg)
w/counterweight	3,500 lb (1591 kg)
Tipping load.....	6,000 lb (2727 kg)
w/counterweight	7,000 lb (3182 kg)
Breakout force	
Lift.....	5,800 lbf
	(25 800 N)
Bucket.....	6,175 lbf
	(27 468 N)
Dig depth	
w/bucket flat	0.24" (6 mm)
Cycle time	
Raise	4.1 seconds
Lower	3.5 seconds
Dump	2.3 seconds
Rollback	1.7 seconds

NOTE: SAE rated lift capacities. Cycle time measured with rated load in bucket.

OPTIONAL BUCKETS

Type	Width inch (m)	Weight lb (kg)	Heaped Capacity ft ³ (m ³)
Dirt.....	73	553	16.8
	(1.9)	(251)	(.48)
HD Dirt	73	621	16.8
	(1.9)	(282)	(.48)
Utility.....	73	628	22.4
	(1.9)	(285)	(.63)
HD Utility	73	696	22.4
	(1.9)	(316)	(.63)
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 panels
Vinyl seat
2" (51 mm) retractable seat belt
Hand & foot throttles
Ergonomic hand controls
Seat bar w/integral armrests
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 445T/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 #120HS drive chain
SAHR disc parking brakes

HYDRAULICS

Auxiliary hydraulics 3000 psi
(207 bar) - 22.1 gpm (83.9 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 one-way self-leveling

ENGINE

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

HYDRAULICS

Auxiliary high-flow 3000 psi
(207 bar) - 37.2 gpm (140.6 L/min)
Attachment case drain plumbing

OTHER

2-speed ground drive
Backup alarm and horn package
Rotating beacon
925 lb (420 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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