

445CT

**COMPACT TRACK LOADER
TIER II CERTIFIED**

ENGINE

Model	
Case Family III 445/M2 diesel, Tier II certified	
Type	4-stroke, naturally aspirated
Cylinders	4
Bore/Stroke	4.1 in x 5.2 in (104 x 132 mm)
Displacement	274 in ³ (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 in ² (.29 m ²)
Rows of tubes	3
Cap pressure	13 psi (89.6 kPa)
Fan	
Diameter	18.9 in (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 in ³ (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	18.0 in ³ (310 cc)
Speed @ high idle rpm & max. displacement	342 rpm
Torque @ max. displacement & relief pressure	1,256 lb.ft (927 N·m)
Travel speeds – mph (km/h)	
Low range	5.1 (8.2)
High range	8.0 (12.8)
Final drive	Single-reduction planetary
Undercarriage	
Torque @ rated rpm	4,595 lb-ft (3390 N·m)
Track adjustment	Hydraulic
Frame	Rigid
Length of track on ground	64.7 in (1645 mm)
Track rollers per side	4
Front idler diameter	13.7 in (350 mm)
Rear Idler diameter	11.4 in (290 mm)
Bottom Rollers	
Outer flange diameter	7.8 in (200 mm)
Center flange diameter	8.4 in (214 mm)
Sprocket Teeth	
Number	17
Width	1.8 in (46 mm)
Track rollers and idlers sealed with dual cone face seals and permanently lubricated bushings	
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 in ³ /rev (36 cc)
Pump flow @ rated engine rpm	
Total	21 gpm (80 L/min)
Optional high flow @ rated engine rpm	
Total	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 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 in (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 in (63.5 mm)	
Rod diameter	1.75 in (44.4 mm)	
Stroke	41.3 in (1.05 m)	
Closed length	53.5 in (1.36 m)	
Bucket cylinder		
Bore diameter	2.5 in (63.5 mm)	
Rod diameter	1.25 in (32 mm)	
Stroke	20.67 in (525 mm)	
Closed length	32.4 in (823 mm)	

OPERATING WEIGHTS

Unit equipped with 17.7 in (450 mm) track, 84 in (2.13 m) long lip bucket, mechanical attachment coupler, 165 lb (75 kg) operator and full fuel tank 9,815 lb (4452 kg)

Add-on weights

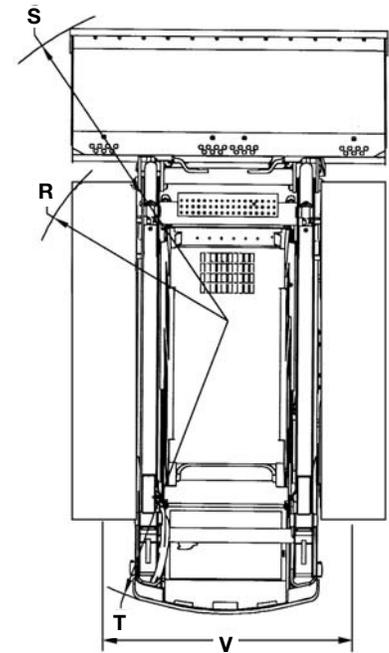
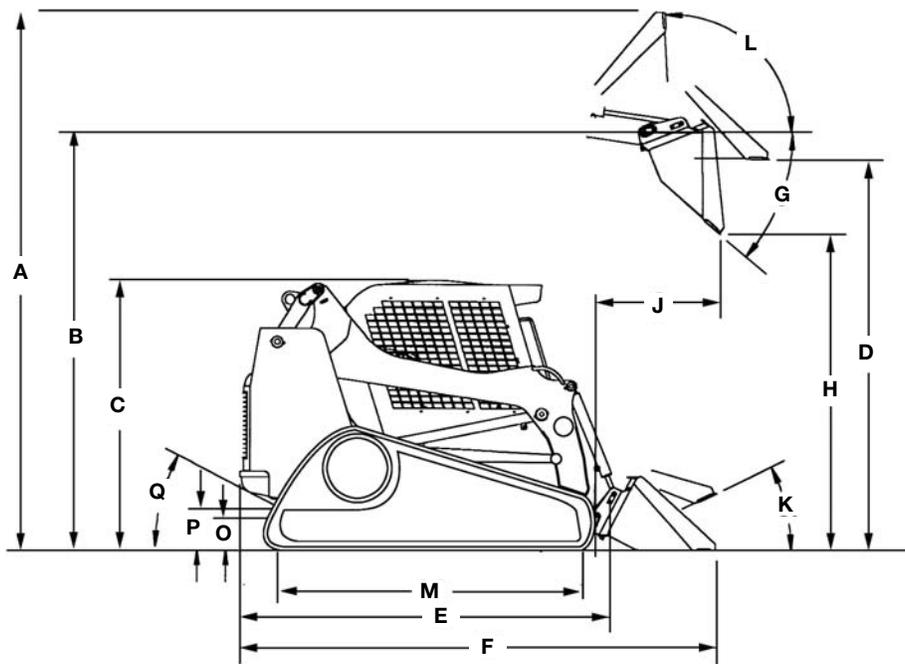
Side cab glass	+70 lb (32 kg)
Glass door w/wiper	+77 lb (35 kg)
Heater	+60 lb (27 kg)
Suspension seat	+10 lb (4.5 kg)
Hydraulic attachment coupler	+38 lb (17 kg)

SERVICE CAPACITIES

Fuel tank	17.3 gal (65.5 L)
Engine oil with 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)

TRACK SELECTION

	Area in ² (cm ²)	Ground Pressure psi (kPa)	Width to Outside of Track in (mm)
17.7 in (450 mm)	2,293 (13 776)	4.3 (27.6)	82.6 (2098)
15.7 in (400 mm)	2,038 (13 120)	4.8 (31.1)	80.6 (2047)



DIMENSIONS

A.	Overall operating height	
	Dirt bucket	158 in (4.01 m)
	Light material bucket	165.5 in (4.20 m)
	Height to*	
B.	Bucket hinge pin	120.6 in (3.06 m)
C.	Top of rollover protection structure	80 in (2.03 m)
D.	Bottom of level bucket, loader arm fully raised	111.5 in (2.83 m)
	Overall length	
E.	w/o attachment w/coupler	103.1 in (2.62 m)
F.	w/dirt bucket on ground	135.5 in (3.44 m)
F.	w/light material bucket on ground	143.2 in (3.64 m)
G.	Dump angle @ full height	40°
H.	Dump clearance at maximum height	
	Dirt bucket	92.3 in (2.34 m)
	Light material bucket	90.5 in (2.30 m)
J.	Dump reach - loader arm fully raised	
	Dirt bucket	33.7 in (.86 m)
	Light material bucket	47.9 in (1.22 m)
	Maximum attachment rollback	
K.	Bucket on ground	27°
L.	Bucket at full height	95°
M.	Length of track on ground	64.7 in (1645 mm)
	Ground clearance	
O.	Bottom of outer frame	9.0 in (229 mm)
P.	Bottom of belly pan	11 in (279 mm)
Q.	Angle of departure	31°
	Clearance circle front	
R.	less bucket	53.9 in (1.37 m)
S.	w/82 in (2.08 m) dirt bucket in carry position	84 in (2.13 m)
S.	w/82 in (2.08 m) light material bucket on ground	84 in (2.13 m)
T.	Clearance circle rear	61.1 in (1.55 m)
V.	Track gauge, centerline to centerline	65.4 in (1661 mm)

NOTE: *Equipped with 17.7 in (450 mm) track.

PERFORMANCE SPECS

Operating load	
35%	2,500 lb (1134 kg)
50%	3,500 lb (1588 kg)
Tipping load	7,000 lb (3175 kg)
Breakout force	
Lift	4,738 lbf (19 748 N)
Bucket -	
Long lip	5,167 lbf (21 536 N)
Dig depth w/bucket flat	0.24 in (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)	Heaped Capacity ft ³ (m ³)
Dirt	84 (2.13)	593 (269)	19 (.54)
HD Dirt	84 (2.13)	676 (307)	19 (.54)
Utility	84 (2.13)	674 (306)	25.3 (.72)
HD Utility	84 (2.13)	758 (344)	25.3 (.72)
Light Material	84 (2.1)	584 (265)	32.5 (.92)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

ROPS/FOPS canopy w/side screens
No-tools tilt ROPS/FOPS
Instrument panel
Vinyl seat
2 in (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
Servo controls
SAHR disc parking brakes
2 speed

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 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)
Accessory power outlet
Floor mat 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

Backup alarm and horn package
Rotating beacon
Lift hooks
Drawbar
Heavy-duty rear door
Language decals
Special paint
Buckets – see page 3
42 in (1.07 m)/48 in (1.22 m) pallet forks
Bolt-on bucket edges
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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