

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 (60 kW) @ 2300 rpm	
Net	74 (55 kW) @ 2300 rpm	
Maximum torque @ 1400 rpm		
Gross	236 lb-ft (320 N·m)	

ENGINE COOLING

Radiator		
Core type	Serpentine	
Core size area	450 in ² (.290 m ²)	
Rows of tubes	3	
Cap pressure	13 psi (89.6 kPa)	
Fan		
Diameter	20.4 in (518 mm)	
Ratio	1.1:1	
Water pump		
Style	Integral	
Flow	52.8 gpm (200 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	28 gpm (106 L/min)	
Flow	Bidirectional	
Charge pressure	360 psi (24 bar)	
System relief	5,000 psi (345 bar)	
Controls	Servo	
Drive motors	Fixed displacement radial piston	
Maximum displacement	18.9 in ³ (310 cc)	
Speed @ high idle rpm & max. displacement	342 rpm	
Torque @ max. displacement & relief pressure	1,256 lb.ft (1703 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 @ max displacement and relief pressure	4,595 lb·ft (6230 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 duo 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		
Type	Gear pump	
Displacement	2.2 in ³ /rev (36 cc)	
Pump flow @ rated engine rpm		
Total	21.9 gpm (83 L/min)	
Optional high flow @ rated engine rpm		
Total	32.6 gpm (123 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

Indicators	
Digital Hourmeter	
Fuel level LCD bar graph with alarm	
Warning lights with alarms	
Engine coolant temperature	
Engine oil pressure	
Air cleaner restriction	
Hydraulic charge pressure	
Hydraulic filter restriction	
Hydraulic oil temperature	
Warning alarms	
Battery voltage (plus display)	
Indicator light	
Engine preheat	
Parking brake	
Seat bar reminder	

ELECTRICAL SYSTEM

Alternator	95 amp
Starter	3.3 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 (1049 mm)
Closed length	53.5 in (1361 mm)
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

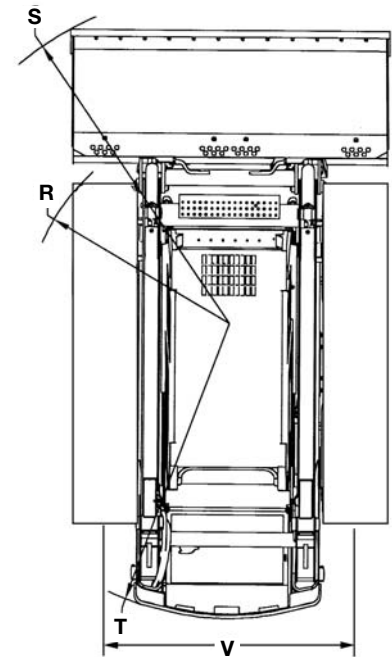
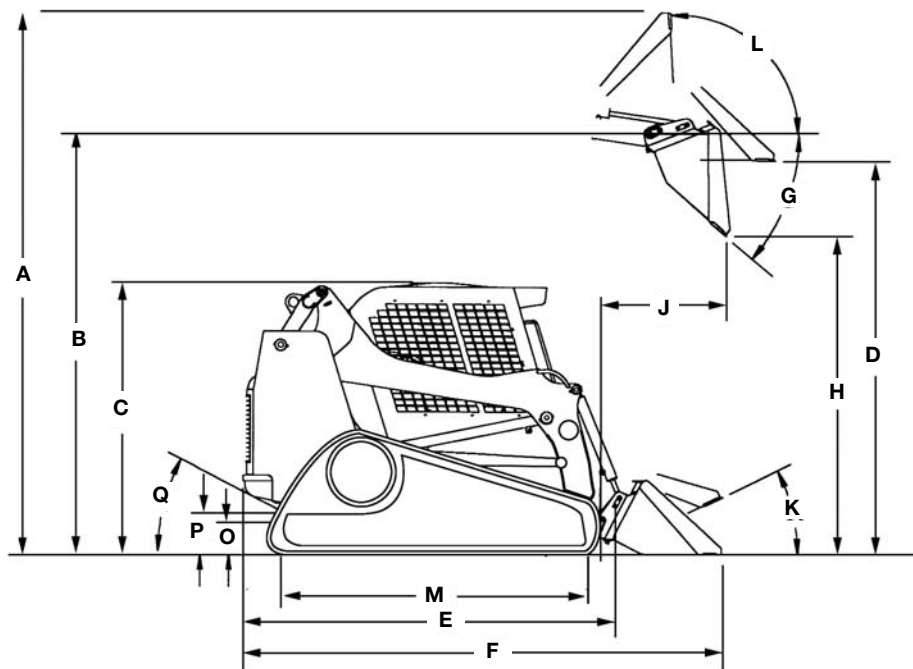
Unit equipped with 17.7 in (450 mm) track, 84 in (2.13 m) long lip bucket, mechanical attachment coupler, 165 lb (75 kg) operator and full fuel tank	
	9,815 lb (4452 kg)
Shipping weight	9,002 lb (4083 kg)
Add-on weights	
Side cab glass	+70 lb (32 kg)
Glass door w/wiper	+77 lb (35 kg)
Heater	+60 lb (27 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	12.7 qt (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)	83.1 (2112)
15.7 in (400 mm)	2,038 (13 120)	4.8 (31.1)	81.3 (2065)



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	120.5 in (3.06 m)
C.	Top of rollover protection structure	80.5 in (2.05 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 height-header arm fully raised	
	Dirt bucket	92.3 in (2.34 m)
	Light material bucket	87.1 in (2.21 m)
J.	Dump reach – loader arm fully raised	
	Dirt bucket	41.6 in (1.06 m)
	Light material bucket	51 in (1.29 m)
	Maximum attachment rollback	
K.	Bucket on ground	27°
L.	Bucket at full height	94°
M.	Length of track on ground	64.7 in (1645 mm)
	Ground clearance	
O.	Bottom of outer frame	9.1 in (230 mm)
P.	Bottom of belly pan	11 in (280 mm)
Q.	Angle of departure	47°
	Clearance circle front	
R.	less bucket	52.8 in (1.34 m)
S.	w/84 in (2.13 m) bucket in carry position	91.0 in (2.31 m)
S.	w/84 in (2.13 m) light material bucket in carry position	95.9 in (2.43 m)
T.	Clearance circle rear	55.3 in (1.40 m)
V.	Track gauge, centerline to centerline	65.4 in (1.66 m)

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 cylinder	5,583 lbf (24 834 N)
Bucket cylinder	5,616 lbf (24 981 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 ft³ (m³)
Dirt	84 (2.1)	620 (281)	19.4 (.55)
HD Dirt	84 (2.1)	676 (307)	19.4 (.55)
Utility	84 (2.1)	674 (306)	25.7 (.73)
HD Utility	84 (2.1)	755 (343)	25.7 (.73)
Light			
Material	84 (2.1)	584 (265)	33.2 (.94)

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 3,050 psi
(207 bar) – 21.9 gpm (83 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 3,050 psi
(210 bar) – 32.6 gpm (123 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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