

450CT

**COMPACT TRACK LOADER
TIER II CERTIFIED**

ENGINE

Model	
Case Family III 445T/M2 diesel, Tier II certified	
Type	4-stroke, turbocharged
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	89 (66 kW) @ 2300 rpm
Net	82 (61 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 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 with 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 @ rated rpm	28 gpm (106 L/min)
Flow	Bi-directional
Charge pressure	360 psi (24 bar)
System relief	5,220 psi (360 bar)
Controls	Servo
Drive motors	
Fixed displacement radial piston	
Maximum displacement	18.9 in ³ (310 cc)
Speed @ rated engine rpm	
@ max displacement	342 rpm
Torque @ max displacement and relief pressure	1,310 lb-ft (1776 N-m)
Travel speeds – mph (km/h)	
Low range	0 - 5.1 (8.2)
High range	0 - 8.0 (12.8)
Final drive	Single-reduction planetary
Undercarriage	
Max torque @ max displacement and relief pressure	4,794 lb-ft (6450 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	
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	41.8 gpm (158 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	3800 psi (260 bar)
#2A Rollback	3800 psi (260 bar)
#2B Dump	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

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
Water-shedding 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
Rear window w/escape provision
Front and rear halogen floodlights
Floor cleanout panel

CYLINDERS

Lift cylinder	
Bore diameter	2.25 in (57.2 mm)
Rod diameter	1.75 in (44.4 mm)
Stroke	38.2 in (970 mm)
Closed length	52.0 in (1320 mm)
Bucket cylinder	
Bore diameter	2.5 in (63.5 mm)
Rod diameter	1.5 in (38.1 mm)
Stroke	23.2 in (590 mm)
Closed length	47.4 in (1204 mm)

OPERATING WEIGHTS

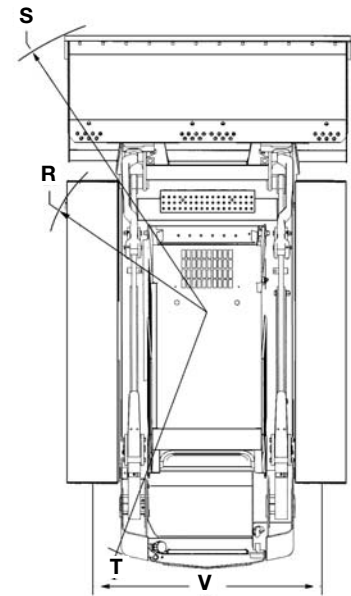
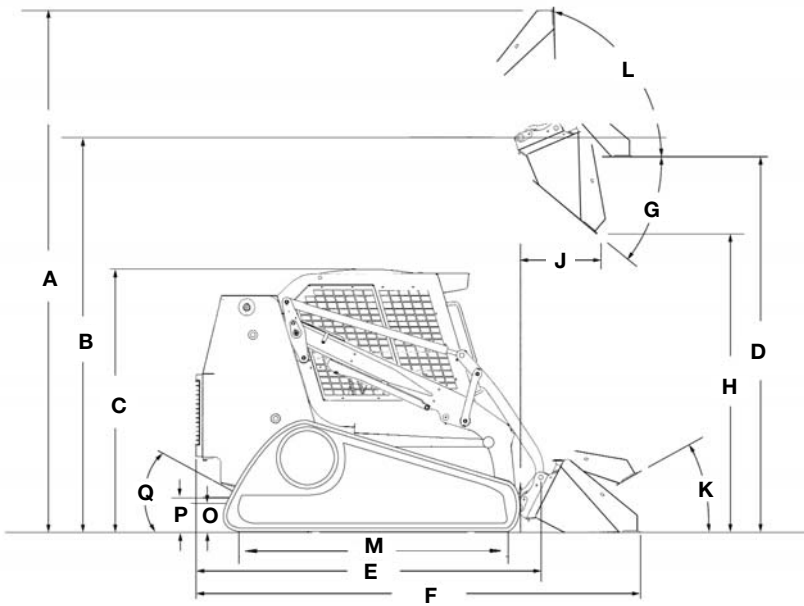
Unit equipped with 17.7 in (450 mm) track, 84 in (2.08 m) dirt bucket, mechanical attachment coupler, full fuel tank and 165 lb (75 kg) operator	
	10,915 lb (4951 kg)
Shipping weight	10,102 lb (4582 kg)
Add-on weights	
Side cab glass	+70 lb (32 kg)
Lexan® door	+70 lb (32 kg)
Glass door w/wiper	+77 lb (935 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)

SERVICE CAPACITIES

Fuel tank	20.7 gal (78.3 L)
Engine oil w/filter	12.7 qt (12 L)
Engine cooling system	18 qt (17 L)
Hydraulic system	
Reservoir	6.5 gal (24.5 L)
Total	17.0 gal (64.3 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)	4.8 (33.1)	83.1 (2112)
15.7 in (400 mm)	2,038 (13 120)	5.4 (37.2)	81.3 (2065)



DIMENSIONS*

A.	Overall operating height	
	Dirt bucket	150.3 in (3.82 m)
	Light material bucket	158.9 in (4.04 m)
	Height to	
B.	Bucket hinge pin	124.5 in (3.16 m)
C.	Top of rollover protective structure	80 in (2.03 m)
D.	Bottom of level bucket, loader arm fully raised	116.5 in (2.96 m)
	Overall length	
E.	w/o attachment w/coupler	108.7 in (2.77 m)
F.	w/dirt bucket on ground	140.8 in (3.59 m)
F.	w/light material bucket on ground	148.5 in (3.79 m)
G.	Dump angle at maximum height	
	Dirt bucket	40°
	Light material bucket	35°
H.	Dump height – loader arm fully raised	
	Dirt bucket	94.5 in (2.40 m)
	Light material bucket	93.0 in (2.36 m)
J.	Dump reach – loader arm fully raised	
	Dirt bucket	30.7 in (.78 m)
	Light material bucket	39.9 in (1.01 m)
	Maximum attachment rollback	
K.	Bucket on ground	30°
L.	Bucket at full height	55°
M.	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 (279 mm)
Q.	Angle of departure	39°
	Clearance circle front	
R.	less bucket	58.5 in (1.48 m)
S.	w/84 in (2.13 m) dirt bucket in carry position	90.9 in (2.31 m)
S.	w/84 in (2.13 m) light material bucket in carry position	95.4 in (2.42 m)
T.	Clearance circle rear	59.9 in (1.52 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%	2,700 lb (1225 kg)
@50%	3,858 lb (1750 kg)
Tipping load	7,714 lb (3499 kg)
Breakout force	
Lift	5,290 lbf (23 531 N)
Bucket	6,200 lbf (27 578 N)
Dig depth	
w/bucket flat	0.24 in (6 mm)
Cycle time	
Raise	3.5 seconds
Lower	2.2 seconds
Dump	2.2 seconds
Rollback	1.6 seconds

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

OPTIONAL BUCKETS

Type	Width in (m)	Weight lb (kg)	Heaped Capacity ft ³ (m ³)
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)	758 (344)	25.7 (.73)
Light Material	84 (2.1)	584 (265)	33.2 (.93)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

ROPS/FOPS canopy w/side screens
No-tools tilt ROPS/FOPS
Instrument panels
Water-shedding 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/emergency escape feature
Floor cleanout panel

LOADER

Radial lift linkage
Mechanical two-way self-leveling linkage
Power Cycle bucket 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
Servo controls
SAHR disc parking brakes
2 speed

HYDRAULICS

Auxiliary hydraulics 3,050 psi
(210 bar) - 21.9 gpm (83 L/min),
Auxiliary interlock system
Loader arm mounted ISO flat face hydraulic
quick connectors
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)
Accessory power outlet
Floor mat w/footrests
Headliner

LOADER

Auxiliary front electric control
Ride Control
Hydraulic attachment coupler

HYDRAULICS

Auxiliary high-flow 3,050 psi
(210 bar) - 41.8 gpm (158 L/min)
Attachment case drain plumbing
Electronically controlled auxiliary hydraulics
Second auxiliary hydraulics

ENGINE

Coolant block heater
Grid heater

OTHER

Backup alarm and horn package
Rotating beacon
Lift hooks
Drawbar
Heavy-duty rear door
Special paint
Language decals
Factory installed tires - see page 2
Buckets - see page 3
Bolt-on spill guards
Bolt-on cutting edges
42 in (1.07 m)/48 in (1.22 m) pallet forks
Jump start terminals/battery disconnect switch

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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