

440 CT COMPACT TRACK LOADER TIER II CERTIFIED

ENGINE

Model Case Family III 445T/M2 diesel, Tier II certified Type 4-stroke, turbocharged Cylinders Bore/Stroke 4.1 x 5.2 in (104 x 132 mm) 274 in³ (4.5 L) Displacement 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

89 (66 kW) @ 2300 rpm Gross 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	13.0 psi (89.6 kPa)		
Fan			
Diameter	18.9 in (480 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 0 to 2.81 in³ (46 cc) Displacement Pump flow @ rated rpm 28.0 gpm

(106 L/min) Flow Bi-directional Charge pressure 360 psi (24.8 bar) System relief 5000 psi (345 bar)

Controls Servo Drive motors Fixed displacement radial piston

18.9 in³ Maximum displacement (309 cc)

Speed @ rated engine rpm

@ max displacement 342 rpm Optional high speed 530 rpm

Torque @ max displacementand

relief pressure 1,255 lb·ft (1701 N·m)

Travel speed mph (km/h)

Low range 5.1 (8.2) 7.6 (12.2) High range (optional)

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 56.5 in

(1436 mm) Track rollers per side 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

Gear pump Type Displacement 2.2 in³/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 3050 psi (210 bar)

Port relief pressures

#1B Raise 3350 psi (230 bar)

Hydraulic lines

Tubing 37° JIC Flare SAE 100 R12 Loop hoses

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

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

CYLINDERS

Floor cleanout access

Front and rear halogen floodlights

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 15.7 in (400 mm) track, 72 in (1.8 m) foundry/excavating bucket, mechanical attachment coupler, full fuel tank and 165 lb (75 kg) operator 8,915 lb (4043 kg)

Shipping weight 8,317 lb (3772 kg)

Add-on weights

Side cab glass +70 lb (32 kg)

Glass door with wiper +77 lb (35 kg)

Suspension seat +10 lb (4.5 kg)

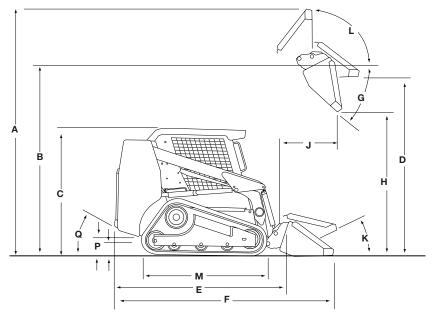
SERVICE CAPACITIES

Fuel tank	22.0 gal (83.3 L)	
Engine oil w/filter	12.7 qt (12 L)	
Engine cooling system	ng system 18 qt (17 L)	
Hydraulic system		
Reservoir	7.1 gal (26.8 L)	
Total	13.2 gal (50.0 L)	

Midth to

TRACK SELECTION

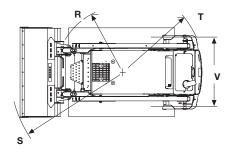
	Area	Ground Pressure	Outside of Track
	in² (cm²)	psi (kPa)	in (mm)
15.7 in (400 mm)	1,780 (11 488)	5.0 (34.5)	71 (1802)



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.	Dump reach - loader arm fully raised	
	w/foundry/excavating bucket	23.4 in (0.59 m)
	w/low profile bucket	27.9 in (0.71 m)
_	w/low profile extended bucket	31.7 in (0.81 m)
	Maximum attachment rollback	
K.	Bucket on ground	32°
<u>L.</u>	Bucket at full height	84°
М.	Length of track on ground	56.5 in (1.4 m)
	Ground clearance	
<u>P.</u>	Bottom of belly pan	9 in (229 mm)
Q.	Angle of departure	34°
	Clearance circle front	
R.	Less bucket	51.8 in (1.32 m)
S.	w/72 in (1.8 m) foundry/excavating bucket on ground	80.4 in (2.04 m)
S.	w/72 in (1.8 m) low profile bucket on ground	84.0 in (2.13 m)
S.	w/72 in (1.8 m) low profile extended bucket on ground	88.5 in (1.48 m)
Т.	Clearance circle rear	58.0 in (1.48 m)
V.	Track gauge, centerline to centerline	55.2 in (1.4 m)

NOTE:*Equipped with 15.7 in (400 mm) track



PERFORMANCE SPECS

Operating load @ 35% 2,100 lb (952 kg) Operating load @ 50% 3,000 lb (1361 kg			
Tipping load	6,000 lb (2721 kg)		
Breakout force			
Lift cylinder	4,576 lbf (20 355 N)		
Bucket cylinder	6,207 lbf (27 610 N)		
Dig depth			
w/bucket flat	0 in (0 mm)		
Cycle time			
Raise	4.1 seconds		
Lower	2.6 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

Туре	Width inch (m)	Weight lb (kg)	Heaped Capacity ft³ (m³)
Foundry/			
Excavating	72	390	16.7
	(1.8)	(177)	(0.47)
	78	495	18.4
	(2.0)	(225)	(0.52)
Low Profile	72	425	14.5
	(1.8)	(193)	(0.41)
Low Profile			
Extended	72	477	17.1
	(1.8)	(216)	(0.48)
	78	502	18.6
	(2.0)	(228)	(0.53)
Utility/Light			
Material	72	434	23.7
	(1.8)	(197)	(0.67)
	84	497	27.9
	(2.1)	(225)	(0.79)
Heavy Duty	70	504	440
Dirt	72	501	14.6
	(1.8)	(227)	(0.41)
	78 (2.0)	527	15.9
	(2.0)	(239)	(0.45)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

ROPS/FOPS canopy w/side screens

Tilt ROPS/FOPS

Instrument panel

Water-shedding vinyl seat

2 in (51 mm) retractable seat belt

Hand throttle

Ergonomic hand controls

Seat bar w/integral armrests

Rear window w/emergency escape feature

Loader control lockout system

Electric brake control

Floor cleanout panel

LOADER

Radial loader arm design

Lift cylinder plumbing guard

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

Servo controls

SAHR disc parking brakes

2 speed

HYDRAULICS

Auxiliary hydraulics 3050 psi (210 bar) – 21.9 gpm (83 L/min)

Hydraulic circuit pedal lock

Loader arm-mounted ISO flat face connectors

Auxiliary function lockout override

Loader control 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 or with shoulder restraint

Vinyl suspension seat w/3 in (76 mm)

retractable seat belt

Auxiliary front electric control

Electric auxiliary hydraulic control

Glass front door w/wiper & washer

Sliding side windows

Air conditioning (adds 3 inches to height to top of ROPS)

Heater (deluxe)

Foot throttle

Rubber floor mat with foot rests

Headliner and seal strips

Accessory power outlet

LOADER

Ride control

Hydraulic attachment coupler

Hydraulic self-leveling (raise only)

HYDRAULICS

High-flow auxiliary hydraulics

3050 psi (210 bar) - 32.6 gpm (123 L/min)

Second auxiliary hydraulics

Attachment case drain plumbing

ENGINE

Coolant block heater

Aspirator

OTHER

Backup alarm/horn package

Rotating beacon

Lift hooks

Special paint

Language decals

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

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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