

# 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<br>(104 x 132 mm)                |
| Displacement              | 274 in <sup>3</sup> (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 <sup>2</sup> (.290 m <sup>2</sup> )                       |
| 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 <sup>3</sup> (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 <sup>3</sup> (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 <sup>3</sup> /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

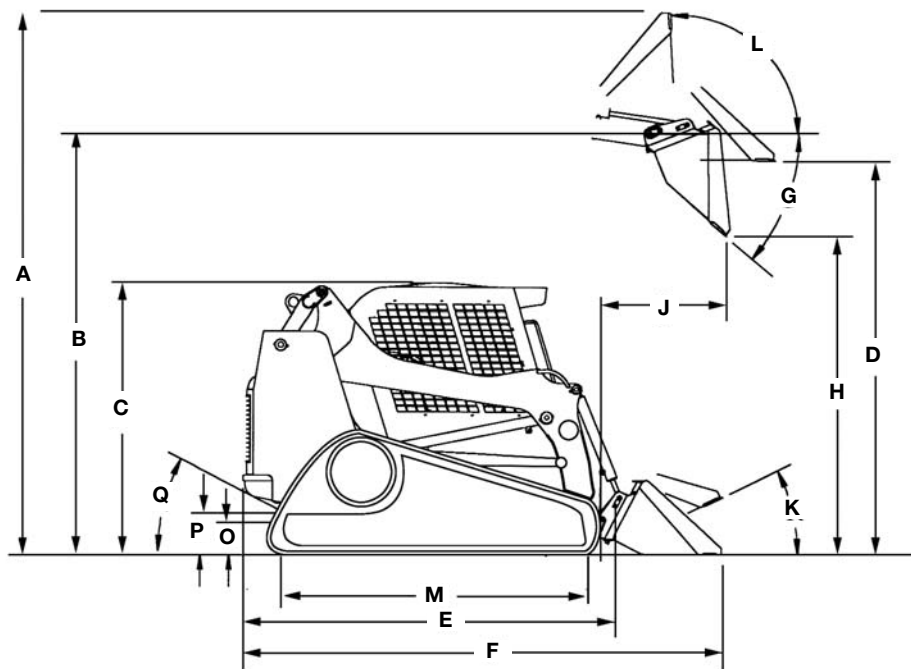
|                                                                                                                                                      |                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 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

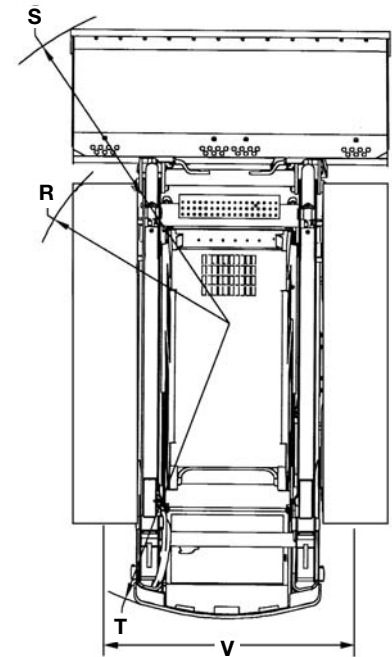
|                  | Area<br>in <sup>2</sup> (cm <sup>2</sup> ) | Ground Pressure<br>psi (kPa) | Width to<br>Outside of Track<br>in (mm) |
|------------------|--------------------------------------------|------------------------------|-----------------------------------------|
| 17.7 in (450 mm) | 2,293 (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\*

|           |                                                          |                   |
|-----------|----------------------------------------------------------|-------------------|
| <b>A.</b> | Overall operating height                                 |                   |
|           | Dirt bucket                                              | 158 in (4.01 m)   |
|           | Light material bucket                                    | 165.5 in (4.20 m) |
|           | Height to                                                |                   |
| <b>B.</b> | Bucket hinge pin                                         | 120.5 in (3.06 m) |
| <b>C.</b> | Top of rollover protection structure                     | 80.5 in (2.05 m)  |
| <b>D.</b> | Bottom of level bucket, loader arm fully raised          | 111.5 in (2.83 m) |
|           | Overall length                                           |                   |
| <b>E.</b> | w/o attachment w/coupler                                 | 103.1 in (2.62 m) |
| <b>F.</b> | w/dirt bucket on ground                                  | 135.5 in (3.44 m) |
| <b>F.</b> | w/light material bucket on ground                        | 143.2 in (3.64 m) |
| <b>G.</b> | Dump angle @ full height                                 | 40°               |
| <b>H.</b> | Dump height-header arm fully raised                      |                   |
|           | Dirt bucket                                              | 92.3 in (2.34 m)  |
|           | Light material bucket                                    | 87.1 in (2.21 m)  |
| <b>J.</b> | 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                              |                   |
| <b>K.</b> | Bucket on ground                                         | 27°               |
| <b>L.</b> | Bucket at full height                                    | 94°               |
| <b>M.</b> | Length of track on ground                                | 64.7 in (1645 mm) |
|           | Ground clearance                                         |                   |
| <b>O.</b> | Bottom of outer frame                                    | 9.1 in (230 mm)   |
| <b>P.</b> | Bottom of belly pan                                      | 11 in (280 mm)    |
| <b>Q.</b> | Angle of departure                                       | 47°               |
|           | Clearance circle front                                   |                   |
| <b>R.</b> | less bucket                                              | 52.8 in (1.34 m)  |
| <b>S.</b> | w/84 in (2.13 m) bucket in carry position                | 91.0 in (2.31 m)  |
| <b>S.</b> | w/84 in (2.13 m) light material bucket in carry position | 95.9 in (2.43 m)  |
| <b>T.</b> | Clearance circle rear                                    | 55.3 in (1.40 m)  |
| <b>V.</b> | 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<br>in (m) | Weight<br>lb (kg) | Heaped<br>Capacity<br>ft³ (m³) |
|-------------------|-----------------|-------------------|--------------------------------|
| Dirt              | 84<br>(2.1)     | 620<br>(281)      | 19.4<br>(.55)                  |
| HD Dirt           | 84<br>(2.1)     | 676<br>(307)      | 19.4<br>(.55)                  |
| Utility           | 84<br>(2.1)     | 674<br>(306)      | 25.7<br>(.73)                  |
| HD Utility        | 84<br>(2.1)     | 755<br>(343)      | 25.7<br>(.73)                  |
| Light<br>Material | 84<br>(2.1)     | 584<br>(265)      | 33.2<br>(.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  
Floormat 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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