

750H LT/WT/LGP Crawler Dozer



ENGINE

Model Case 4T-390 diesel
 Cylinders 4
 Bore/Stroke 4.02" x 4.72"
 (102 x 120 mm)
 Displacement 239 in³ (3.9 L)
 Fuel injection Direct
 Fuel #2 Diesel
 Fuel filter Spin-on with
 in-line strainer
 Air intake Cross-flow
 Cooling Liquid
 Engine speeds (rpm)
 High idle - no load 2420±50
 Rated - full load 2200
 Low idle 800-1050
 Horsepower per SAE J1349
 Net 81 (60 kW) @ 2200 rpm
 Gross 90 (67.1 kW) @ 2200 rpm
 Peak torque @ 1400 rpm
 Net 224 lb-ft (304 N·m)
 Gross 229 lb-ft (310 N·m)
 Engine lubrication -
 Pump Deep sump plate cooler
 with pressurized
 under-piston nozzles
 Pump operating angle ratings
 Side-to-side 45°
 Fore and aft 45°
 Oil filtration ... Replaceable, spin-on
 full-flow cartridge

ENGINE COOLING

Radiator -
 Core size area 486 in² (0.31 m²)
 Rows of tubes 6
 Fan -
 Diameter 21.6" (550 mm)
 Ratio 1.1:1

ELECTRICAL SYSTEM

Alternator 65 amp
 95 amp w/ A/C
 Battery 12-volt low-maintenance
 700 cold-cranking amps
 @ 0° F (-18 C)

POWERTRAIN

Torque converter Single-stage
 Diameter 12.2" (310 mm)
 Stall ratio 2.34
 Drawbar pull* -
 1st 30,305 lb (134.8 kN)
 2nd 20,068 lb (89.3 kN)
 3rd 17,333 lb (77.1 kN)
 4th 11,381 lb (50.6 kN)
 Transmission ... Case constant-mesh
 modulated transmission
 Oil filter 10 micron, spin-on
 replaceable
 Gear ratios (fwd/rev) -
 1st 76.3/69.5
 2nd 51.1/46.5
 3rd 44.4/40.4
 4th 29.7/27.1
 Travel speeds* -
 Forward mph (km/h)
 1st 2.22 (3.6)
 2nd 3.32 (5.3)
 3rd 3.82 (6.1)
 4th 5.71 (9.2)
 Reverse mph (km/h)
 1st 2.42 (3.9)
 2nd 3.65 (5.9)
 3rd 4.20 (6.8)
 4th 6.28 (10.0)
 * Measured using standard track chain. Increase
 travel speeds by 4% and reduce drawbar pull
 by 4% with the optional CELT track chain.
 Parking brakes Heavy-duty,
 spring-applied,
 hydraulic pressure release
 Brakes Foot-operated,
 low-effort power
 Final drive Spur and bull gear
 single reduction

HYDRAULIC SYSTEM

Standard equipment pump
 Pump flow @ 2200 rpm
 @ 2200 psi (152 kPa) 23.9 gpm
 (90.5 L/min)

CYLINDERS

Lift cylinder (2)
 Bore diameter 3.50" (89 mm)
 Rod diameter 1.75" (44.5 mm)
 Stroke 17.40" (442 mm)
 Angle cylinder (2)
 Bore diameter 3.50" (89 mm)
 Rod diameter 1.75" (44.5 mm)
 Stroke 15.60" (396 mm)
 Tilt cylinder (1)
 Bore diameter 3.50" (89 mm)
 Rod diameter 1.75" (44.5 mm)
 Stroke 5.80" (147 mm)

UNDERCARRIAGE

Track adjustment Hydraulic
 Frame Rigid suspension
 Length of track on ground ... 88" (2.23 m)
 Track link pitch 6.73" (171 mm)
 Track shoe height 2.06" (52 mm)
 Pin diameter 1.32" (33 mm)
 Bushing diameter -
 CLT track 2.24" (57 mm)
 CELT track 3.0" (76 mm)
 Bolt diameter 0.625" (16 mm)
 Track shoes per side 38
 Track rollers per side 6
 Carrier rollers per side 1
 Track roller rail dia. 7.48" (190 mm)

OPERATOR ENVIRONMENT

ROPS canopy
"U" pattern forward/reverse lever
Adjustable armrests
Foot rests
Retractable seat belt, 2" (51 mm)
Vinyl suspension seat
w/back adjustment
Tool storage area

BLADE

Blade pitch 55° forward
60° rearward
Lift speed (per second) 18" (457 mm)
Cutting edge Reversible and
replaceable
Width..... 8.0" (203 mm)
Thickness 0.75" (19 mm)

SERVICE CAPACITIES

Fuel tank..... 47 gal (177.9 L)
Engine oil w/filter 11 qt (10.4 L)
Engine oil w/o filter 10 qt (9.5 L)
Engine cooling system 20 qt (18.9 L)
Hydraulic reservoir .. 55.5 qt (52.5 L)
Final drive (per side)... 7.5 qt (7.1 L)
Track rollers (ea.)..... 0.26 qt (0.25 L)
Front idlers (ea.)..... 0.52 qt (0.49 L)
Carrier rollers (ea.).... 0.25 qt (0.24 L)

INSTRUMENTATION

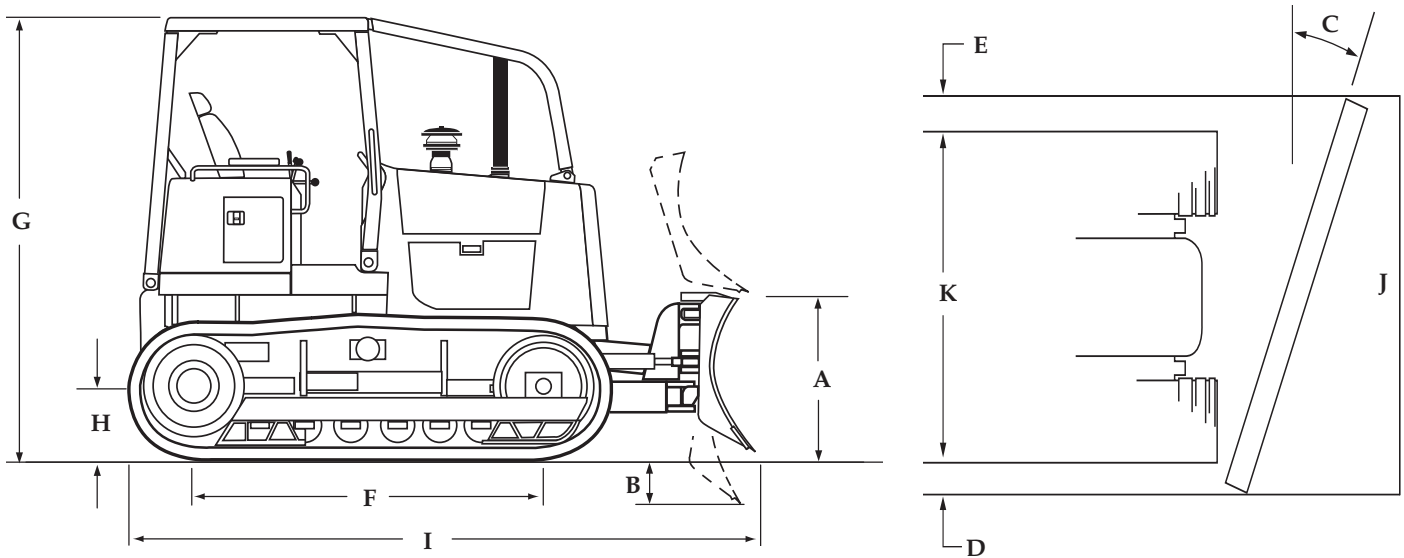
Warning lights:
Air filter
Alternator
Engine oil pressure
Hi range
Hydraulic filter
Transmission filter
Transmission pressure
Gauges:
Battery voltage
Fuel level
Hourmeter
Tachometer
Transmission oil temperature
Water temperature
Audible warnings:
Engine oil pressure
Transmission pressure

RIPPER

Max. penetration..... 14" (356 mm)
Width 72.4" (1839 mm)
Cut width 70.1" (1780 mm)
Ground clearance (at carry) 12.3"
(312 mm)
Points..... Replaceable
Max. number of shanks 5
Tooth spacing –
with 5 teeth..... 17.8" (452 mm)
with 3 teeth..... 34" (864 mm)
Hydraulic cylinder (double-acting)
Diameter 3.25" (82.6 mm)
Stroke 8.4" (213 mm)
Rod 1.75" (44.5 mm)

OPERATING WEIGHTS

Unit equipped with ROPS, full fuel tank, 170 lb (77 kg) operator, drawbar, side shield, track guides, backup alarm, horn and lights.
Long Track 17,284 lb (7839 kg)
Wide Track 18,478 lb (8380 kg)
LGP..... 18,975 lb (8605 kg)
Add-on weights –
Drawbar..... 95 lb (43 kg)
Ripper (3 shank)..... 1,400 lb (635 kg)
Winch 1,111 lb (504 kg)
Front counterweight ... 877 lb (398 kg)
Rear counterweight .. 900 lb (408 kg)
Cab 785 lb (356 kg)
Air conditioning 160 lb (73 kg)
ROPS heater 154 lb (70 kg)
CELT chain 119 lb (54 kg)



DIMENSIONS

	Long Track (LT)	Wide Track (WT)	Low Ground Pressure (LGP)
BLADES			
Blade width	104" (2.64 m)	120" (3.05 m)	124" (3.15 m)
SAE blade capacity	2.2 yd ³ (1.68 m ³)	2.5 yd ³ (1.91 m ³)	2.6 yd ³ (1.99 m ³)
A. Blade lift above ground	36" (914 mm)	36" (914 mm)	36" (914 mm)
B. Blade depth below ground	18" (457 mm)	18" (457 mm)	18" (457 mm)
C. Blade angle both directions	25°	25°	25°
Blade tilt, each end (up to 8.3°)	15" (381 mm)	17.3" (440 mm)	17.9" (455 mm)
Blade height	36" (914 mm)	36" (914 mm)	36" (914 mm)
D. Cast reach	14.7" (373 mm)	13.9" (353 mm)	13.7" (348 mm)
E. Cut reach	1.6" (41 mm)	0.9" (23 mm)	0.7" (18 mm)
TRACKS			
Track gauge	60" (1.52 m)	70" (1.78 m)	70" (1.78 m)
Shoe width	18" (457 mm)	24" (610 mm)	28" (711 mm)
F. Track on ground	88" (2.24 m)	88" (2.24 m)	88" (2.24 m)
Area of track on ground	3157 in ² (2.04 m ²)	4224 in ² (2.73 m ²)	4928 in ² (3.18 m ²)
Ground pressure	5.4 psi (37.5 kPa)	4.4 psi (30.4 kPa)	3.8 psi (26.6 kPa)
DIMENSIONS			
G. Height to top of ROPS	8'11" (2.72 m)	8'11" (2.72 m)	8'11" (2.72 m)
Height to top of cab	9'6" (2.89 m)	9'6" (2.89 m)	9'6" (2.89 m)
with air conditioning	10'0" (3.05 m)	10'0" (3.05 m)	10'0" (3.05 m)
H. Ground clearance w/drawbar	15.9" (404 mm)	15.9" (404 mm)	15.9" (404 mm)
Turning clearance circle, pivot turn	21'0" (6.4 m)	22'8" (6.91 m)	23'0" (7.0 m)
Length –			
I. Blade straight with drawbar	14'1" (4.29 m)	14'1" (4.29 m)	14'1" (4.29 m)
Blade straight with ripper	16'3" (4.95 m)	16'3" (4.95 m)	16'3" (4.95 m)
Width –			
Blade straight	7'4" (2.23 m)	8'6" (2.59 m)	8'6" (2.59 m)
J. Blade angled	8'0" (2.44 m)	9'3" (2.82 m)	9'6" (2.90 m)
K. Over track	78" (1.98 m)	94" (2.39 m)	98" (2.49 m)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

ROPS/FOPS canopy
Vinyl suspension seat w/back adjustment
Retractable seat belt, 2" (51 mm)
Adjustable armrests
Foot rests
Tool storage area

ENGINE

Case 4T-390 diesel
Automatic fan belt tensioner
Integral engine oil cooling
Fuel filter
Dual element air cleaner
65 amp alternator
700 CCA 12-volt battery
Anti-sandblast radiator
Engine side panels

POWERTRAIN

4F/4R modulated Powershift transmission
Automatic spring-applied parking brake
Oil-cooled power disc brakes

BLADE

2 position mechanical pitch adjustment
Single lever control for blade lift, angle and tilt

UNDERCARRIAGE

Hydraulic track adjusters
Case Lubricated Track Chain
Permanently lubricated track and carrier rollers
Track adjuster guard
Track guides (front and rear)

OTHER

Backup alarm
Horn
Anti-vandalism package
Mirror
Pre-cleaner
Lights - 2 front, 2 rear

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Cab (w/heater, defroster, front windshield washer and lights)
Air conditioner (cab units only)
ROPS heater
3" (76 mm) seat belt
Deluxe air suspension seat
Decelerator
In-line shift pattern
ROPS headliner

HYDRAULICS

4 spool hydraulic valve for field-installed ripper

REAR MOUNTED EQUIPMENT

Ripper, 5 slot with 3 shanks

BLADES

98" (2.5 m) LT
104" (2.6 m) WT w/18" (457 mm) shoes
114" (2.9 m) WT w/24" (610 mm) shoes
124" (3.15 m) LGP w/28" (711 mm) shoes

GUARDS

Sweeps
Center rockguard
Final drive bottom
Final drive seal
Rear transmission
Heavy-duty bottom transmission

SCREENS

Rear ROPS and cab
Side ROPS
Radiator brush

OTHER

Counterweight, front
Counterweight, rear
Drawbar
Sprocket, relieved (LT w/ CLT only)
Special paint
Dual 12V battery
Front pull hook
Fan, reversible
Case Extended Life Track
Leg cushion pads
Cold start aid

TRACK

LONG TRACK

18" (457 mm) closed grousers and CLT
18" (457 mm) open grousers and CELT

WIDE TRACK

18" (457 mm) closed grousers and CLT
18" (457 mm) open grousers and CELT
24" (610 mm) closed grousers and CLT
24" (610 mm) open grousers and CELT

LGP

28" (711 mm) closed grousers and CLT
28" (711 mm) open grousers and CELT

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

Form No. CE 240-12-99
Replaces Form No. - None

IMPORTANT: Case Corporation reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Case Corporation does not warrant the safety or reliability of attachments from other manufacturers.

© 1999 CASE CORPORATION
All Rights Reserved. Case is a registered trademark of Case Corporation.

CASE CORPORATION
700 STATE STREET
RACINE, WI 53404 U.S.A.

CASE CANADA CORPORATION
3350 SOUTH SERVICE ROAD
BURLINGTON, ON L7N 3M6 CANADA



Visit Case Corporation on the Web at:
<http://www.casecorp.com>
Printed in U.S.A.