

1850K LT/XLT/LGP

Crawler Dozer



ENGINE

Model..... Cummins 6CT8.3
Cylinders..... 6
Bore/Stroke 4.49" x 5.31"
(114 x 135 mm)
Displacement 506 in³ (8.3 L)
Fuel injection..... Direct
Fuel..... Diesel
Fuel filter spin-on with
in-line strainer
Air intake Cross-flow
Cooling Liquid
Engine speeds (rpm)
High idle - no load 2150±70
Rated - full load..... 2000
Low idle 830/970
Horsepower per SAE J1349
LT, XLT
Net180 (134 kW) @ 2000 rpm
Gross..... 190 (142 kW) @ 2000 rpm
Peak torque @ 1300 rpm
Net 627 lb·ft (830 N·m)
LGP
Net185 (138 kW) @ 2000 rpm
Gross..... 205 (153 kW) @ 2000 rpm
Peak torque @ 1300 rpm
Net 671 lb·ft (909 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..... 732 in² (0.47 m²)
Rows of tubes 6
Fan –
Diameter..... 30 in. (762 mm)
Ratio 0.87:1

ELECTRICAL SYSTEM

System voltage 24
Alternator 70 amp
Batteries (2) 12-volt,
low-maintenance,
700 cold-cranking amps
@ 0° F (-18° C)

POWERTRAIN

Torque converter..... Single-stage
Diameter 13" (381 mm)
Stall ratio..... 2.28
Drawbar pull* –
1st64,080 lb (285.0 kN)
2nd 36,358 lb (161.2 kN)
3rd 20,580 lb (86.5 kN)
Transmission Countershaft
modulated full powershift
Steering..... Hydrostatic
differential steering
Oil filter..... 25 micron absolute,
spin-on replaceable
Travel speeds* –
Forward mph (km/h)
1st 2.5 (4.1)
2nd 4.2 (6.8)
3rd 6.6 (10.6)
Reverse
1st 3.1 (5.0)
2nd 5.2 (6.8)
3rd 7.9 (12.7)
Parking brakes..... Heavy-duty,
spring-applied,
hydraulic pressure release
Brakes.... Multi-disc, spring-applied,
hydraulic pressure release, oil
cooled; applied by depressing
center floor brake pedal
Final drive.....Double reduction

HYDRAULIC SYSTEM

Equipment and
steering pumpvariable
piston pump – load sensing
Max. pump flow 65.8 gpm
(249 L/min) @ 2000 rpm

CYLINDERS

Lift cylinders (2)
Bore diameter 3.74" (95 mm)
Rod diameter 2.36" (60 mm)
Stroke 49.2" (1250 mm)
Tilt cylinder (1)
Bore diameter 5.51" (140 mm)
Rod diameter 2.76" (70 mm)
Stroke 4.96" (126 mm)

UNDERCARRIAGE

Track adjustment Hydraulic
Frame..... Oscillating suspension
Length of track on ground
XLT, LGP126" (3200 mm)
LT 106.3" (2700 mm)
Track link pitch.....7.99" (203 mm)
Track shoe height 2.8" (71.5 mm)
Track shoes per side –
LT 40
XLT & LGP 45
Track rollers per side –
LT 7
XLT & LGP 8
Carrier rollers per side 2

TRACK

LONG TRACK

22" (559 mm) closed grousers and CLT
24" (610 mm) closed grousers and CLT

EXTRA LONG TRACK

22" (559 mm) closed grousers and CLT
24" (610 mm) closed grousers and CLT

LGP

36" (915 mm) closed grousers and CLT
46" (1170 mm) closed grousers and CLT

OPERATOR ENVIRONMENT

ROPS canopy
Joystick lever with forward/reverse
detents and up/down shift button
Adjustable armrest
Foot rests
Retractable seat belt, 3" (76 mm)
Vinyl suspension seat w/ fore/aft
and height adjustment
Center brake pedal
Lunch box storage area with straps
Beverage holders (2)

INSTRUMENTATION

Warning lights:
Engine coolant
Air filter
Battery
Brakes
Engine oil pressure
Low fuel level
Hydraulic filter
Transmission pressure
Transmission temperature
Indicator lights (green):
Front work lights on
Rear work lights on
Display lights on
Gauges:
Fuel level
Tachometer
Water temperature
Audible warnings:
Engine oil pressure
Transmission pressure
Engine coolant
Transmission temperature
Brakes
Digital display (5 digits):
Displays engine hours upon start
up and then gear selected

BLADE

Blade cutting edge 55°
Lift speed
(per second)..... 8.3" (212 mm)
Cutting edge..... Reversible
and replaceable
Width..... 8.0" (203 mm)
Thickness 0.75" (19 mm)

RIPPER

Max. penetration 20" (508 mm)
Width 83.9" (2130 mm)
Cut width 74.8" (1900 mm)
Ground clearance (at carry).....19.8"
(503 mm)
Points Replaceable
Number of shanks 3
Tooth spacing..... 36.3" (922 mm)
Hydraulic cylinder (2-double-acting)
Diameter 3.94" (100 mm)
Stroke 18.9" (480 mm)
Rod 2.20" (56 mm)
Weight 4,431 lbs (2010 kg)

SERVICE CAPACITIES

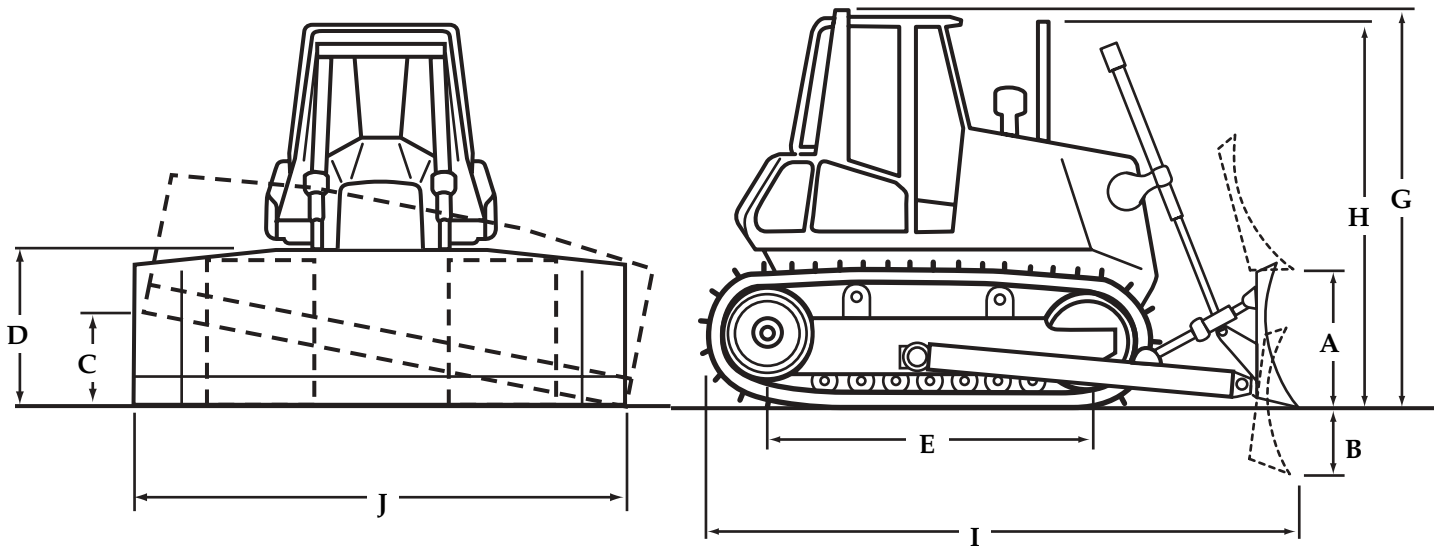
Fuel tank..... 106 gal (401.2 L)
Engine oil w/filter 20 qt (19 L)
Engine oil w/o filter... 16.9 qt (15.6 L)
Engine cooling system.. 32 qt (30.3 L)
Hydraulic reservoir... 116 qt (107.4 L)
Final drive (per side)... 19 qt (17.9 L)

OPERATING WEIGHTS

Unit equipped with ROPS, full fuel
tank, 175 lb (79 kg) operator, semi U
blade and 22" (560 mm) grousers

Long Track..... 43,762 lbs (19 850 kg)
Extra Long Track..... 45,415 lbs
(20 600 kg)
LGP..... 48,590 lbs (22 040 kg)

Add-on weights —
Ripper..... 4,431 lbs (2010 kg)
Cab..... 661 lbs (300 kg)
24" grousers on LT ... 351 lbs (150 kg)
24" grousers on XLT... 375 lbs (170 kg)



DIMENSIONS

	Long Track (LT)	Extra Long Track (XLT)	Low Ground Pressure (LGP)
BLADE	Semi U	Semi U	Straight PT
A. Blade lift above ground	43 in. (1100 mm)	46 in. (1160 mm)	46 in. (1160 mm)
B. Blade depth below ground	18.5 in. (472 mm)	21 in. (534 mm)	21 in. (534 mm)
C. Blade tilt, each end	33 in. (850 mm)	33 in. (836 mm)	33 in. (836 mm)
D. Blade height	56 in. (1425 mm)	54 in. (1425 mm)	48 in. (1210 mm)
Blade capacity	7.3 yd ³ (5.6 m ³)	7.3 yd ³ (5.6 m ³)	4.8 yd ³ (3.7 m ³)
TRACKS			
Track gauge	75 in. (1900 mm)	75 in. (1900 mm)	92 in. (2337 mm)
Max. shoe width	24 in. (610 mm)	24 in. (610 mm)	36 in. (915 mm)
E. Length of track on ground	106.3 in. (2700 mm)	126 in. (3200 mm)	126 in. (3200 mm)
Ground pressure	8.6 psi (60.3 kpa)	7.5 psi (52.8 kpa)	5.4 psi (37.6 kpa)
DIMENSIONS			
G. Height to top of ROPS	127 in. (3235 mm)	127 in. (3235 mm)	127 in. (3235 mm)
H. Height to top of exhaust	125 in. (3170 mm)	125 in. (3170 mm)	125 in. (3170 mm)
Ground clearance w/drawbar	15 in. (390 mm)	15 in. (390 mm)	15 in. (390 mm)
I. Length – blade straight			
with drawbar	216 in. (5487 mm)	223 in. (5675 mm)	223 in. (5675 mm)
with ripper	253 in. (6420 mm)	262 in. (6655 mm)	262 in. (6655 mm)
J. Width –			
with blade straight	134.6 in. (3420 mm)	134.6 in. (3420 mm)	154 in. (3900 mm)
over track	98.8 in. (2510 mm)	98.8 in. (2510 mm)	118 in. (2997 mm)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

ROPS/FOPS canopy
ROPS headliner
Vinyl suspension seat w/ fore/aft and height adjustment
Retractable seatbelt, 3" (76 mm)
Adjustable armrests
Foot rests
Lunch box storage area

ENGINE

Cummins 6CT8.3 diesel
Decelerator
Automatic fan belt tensioner
Integral engine oil cooling
Fuel filter
Dual element radial seal air cleaner
70 amp alternator
12-volt battery

Anti-sandblast screens (2)
for radiator
Side-by-side radiator/
transmission coolers
Engine side panels

POWERTRAIN

3F/3R modulated
Powershift transmission
"Power steer" steering
Joystick control with F/R detents and up/down shift button
"AS" auto shift feature allows auto shift from 1F gear to 2R gear
"AL" auto load shifts down under load

BLADE

Single lever control for blade functions
Pilot-operated control

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, turbo
Lights – 2 front, 2 rear
Bottom transmission guard
Bottom engine guard
Winch drive

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Cab (w/heater, air conditioner, defroster, front & rear windshield washer/wiper, lights, cloth suspension seat, cigarette lighter and ashtray
Air suspension seat

HYDRAULICS

Rear hydraulic function for field-installed ripper

REAR MOUNTED EQUIPMENT

Ripper (3 shanks)
Retrieval hitch
Drawbar

BLADES

142.5" (3620 mm) Semi-U
133.2" (3384 mm) Straight PT
154" (3900 mm) Straight PT

GUARDS

Sweeps
Center rockguard

SCREENS

Rear ROPS and cab
Forestry package (includes sweeps, rear screen, side screens, door screens, front screen and radiator screen)

OTHER

Cold start aid
Radio (cab only)

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

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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.

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