



**TIER II CERTIFIED**

# 1650K XLT/LGP Crawler Dozer

## **ENGINE**

Model..... Cummins 6BTAA-5.9,  
Tier II certified

Cylinders..... 6

Bore/Stroke ..... 4.02" x 4.69"  
(102 x 119 mm)

Displacement ..... 360 in<sup>3</sup> (5.9 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..... 2350

Rated - full load..... 2100

Low idle ..... 800/950

Horsepower per SAE J1349

Net .....140 (104 kW) @ 2200 rpm

Gross..... 150 (110 kW) @ 2200 rpm

Peak torque @ 1300 rpm

Net..... 479 lb-ft (650 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 –

Rows of tubes ..... 6

Fan –

Diameter..... 28 in. (711 mm)

Ratio ..... 0.87:1

## **ELECTRICAL SYSTEM**

System voltage ..... 24

Alternator..... 70 amp

Batteries (2)..... 12-volt,  
low-maintenance,  
650 cold-cranking amps  
@ 0° F (-18° C)

## **POWERTRAIN**

Torque converter..... Single-stage

Diameter ..... 13" (381 mm)

Stall ratio..... 2.33

Drawbar pull\* –

1st..... 49,500 lb (220.2 kN)

2nd..... 27,900 lb (124.1 kN)

3rd..... 15,700 lb (69.8 kN)

Tranmission ..... Countershaft  
modulated full powershift

Steering..... Hydrostatic  
differential steering

Oil filter..... 25 micron absolute,  
spin-on replaceable

Travel speeds\* –

Forward                      mph (km/h)

1st..... 2.7 (4.3)

2nd ..... 4.3 (7.0)

3rd ..... 6.8 (11.0)

Reverse

1st..... 3.4 (5.4)

2nd ..... 5.4 (8.7)

3rd ..... 8.1 (13.0)

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 pump .....variable  
piston pump – load sensing

Max. pump flow ..... 31.7 gpm  
(120 L/min) @ 2000 rpm

## **CYLINDERS**

Lift cylinders (2)

Bore diameter..... 3.54" (90 mm)

Rod diameter ..... 1.97" (50 mm)

Stroke ..... 32.5" (826 mm)

Tilt cylinder (1)

Bore diameter..... 4.92" (125 mm)

Rod diameter ..... 2.48" (63 mm)

Stroke ..... 5.31" (135 mm)

Angle cylinder

Bore diameter..... 3.94" (100 mm)

Rod diameter ..... 1.97" (50 mm)

Stroke ..... 20.04" (509 mm)

## **UNDERCARRIAGE**

Track adjustment ..... Hydraulic

Frame..... Oscillating suspension

Length of track on ground

XLT & LGP.....118" (2990 mm)

Track link pitch..... 6.93" (176 mm)

Track shoe height ..... 2.17" (55 mm)

Track shoes per side –

XLT & LGP ..... 48

Track rollers per side –

XLT & LGP ..... 8

Carrier rollers per side..... 2

## **TRACK**

### **EXTRA LONG TRACK**

22" (559 mm) closed grousers and CLT

**LGP**

31.5" (800 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 – PAT**

Blade cutting edge ..... 55°  
Lift speed  
(per second)..... 8.3" (212 mm)  
Cutting edge..... Reversible and replaceable  
Width..... 8.0" (203 mm)  
Thickness ..... 0.79" (20 mm)

## **RIPPER**

Max. penetration..... 19" (495 mm)  
Width ..... 80" (2040 mm)  
Cut width ..... 71" (1800 mm)  
Ground clearance (at carry).....18" (460 mm)  
Points ..... Replaceable  
Number of shanks ..... 3  
Tooth spacing..... 35.5" (902 mm)  
Hydraulic cylinder (2-double-acting)  
Diameter ..... 4.92" (125 mm)  
Stroke ..... 14.96" (380 mm)  
Rod ..... 2.76" (70 mm)  
Weight ..... 3,414 lbs (1552 kg)

## **SERVICE CAPACITIES**

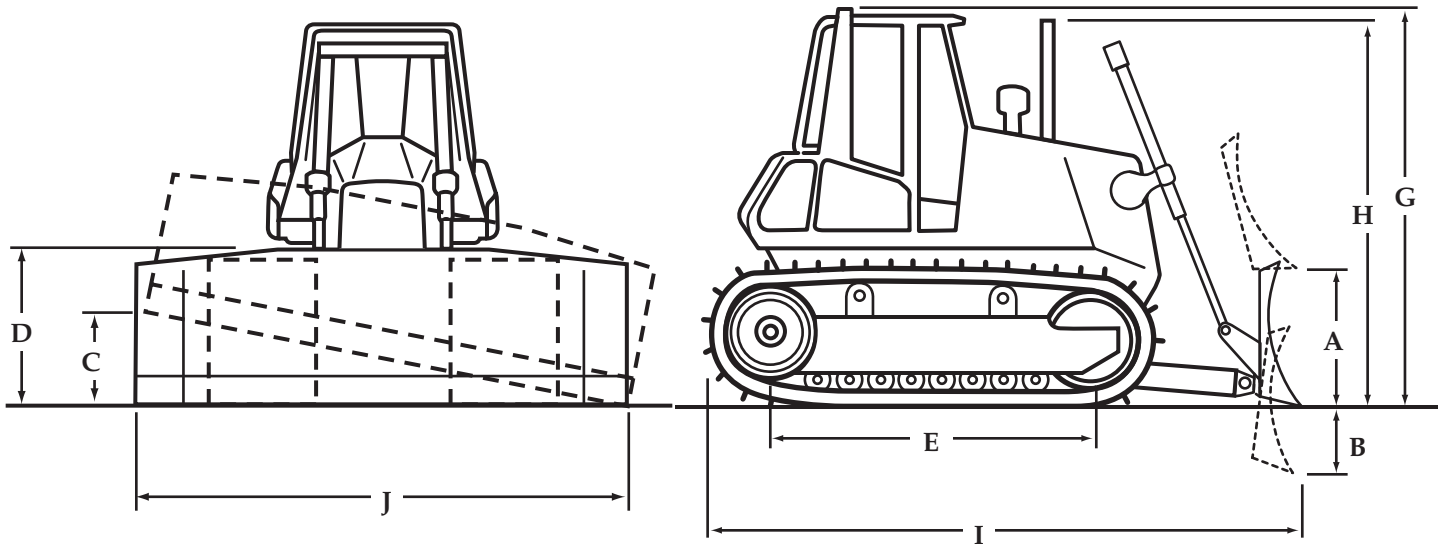
Fuel tank..... 71.3 gal (270 L)  
Engine oil w/filter ..... 16 qt (15.1 L)  
Engine oil w/o filter..... 15 qt (14.3 L)  
Engine cooling system.. 26 qt (34.6 L)  
Hydraulic reservoir ..... 65 qt (62 L)  
Final drive (per side)... 19 qt (17.9 L)

## **OPERATING WEIGHTS**

Unit equipped with ROPS, full fuel tank, 175 lb (79 kg) operator, PAT blade and 22" (550 mm) grousers for XLT and 31.5" (800 mm) grousers for LGP

Extra Long Track..... 33,780 lbs (15 355 kg)  
LGP..... 35,700 lbs (16 230 kg)

Add-on weights —  
Cab..... 661 lbs (300 kg)  
Full Rock Guard ..... 440 lbs (200kg)



## DIMENSIONS

	Extra Long Track (XLT)	Low Ground Pressure (LGP)
<b>BLADE</b>		
	PAT	PAT
A. Blade lift above ground.....	37.4 in. (950 mm)	37.4 in. (950 mm)
B. Blade depth below ground .....	19.3 in. (480 mm)	19.3 in. (480 mm)
C. Blade tilt, each end.....	17.7 in. (450 mm)	17.7 in. (450 mm)
D. Blade height.....	46.8 in. (1180 mm)	41.7 in. (1059 mm)
Blade capacity .....	4.12 yd <sup>3</sup> (3.15 m <sup>3</sup> )	4.3 yd <sup>3</sup> (3.3 m <sup>3</sup> )
<b>TRACKS</b>		
Track gauge .....	75 in. (1900 mm)	84.3 in. (2140 mm)
Max. shoe width.....	22 in. (559 mm)	31.5 in. (800 mm)
E. Length of track on ground .....	118 in. (2990 mm)	118 in. (2990 mm)
Ground pressure .....	6.8 psi (47.2 kpa)	5.0 psi (34.5 kpa)
<b>DIMENSIONS</b>		
G. Height to top of ROPS.....	121 in. (3073 mm)	121 in. (3073 mm)
H. Height to top of exhaust .....	122 in. (3099 mm)	122 in. (3099 mm)
Ground clearance w/drawbar .....	14.6 in. (370 mm)	14.6 in. (370 mm)
I. Length – blade straight		
with drawbar.....	209 in. (5318 mm)	209 in. (5318 mm)
J. Width –		
with blade straight.....	126 in. (3200 mm)	157 in. (3980 mm)
blade angled .....	115 in. (2910 mm)	145.7 in. (3700 mm)
over track .....	96.5 in. (2450 mm)	115.7 in. (2937 mm)

## STANDARD EQUIPMENT

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### 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 6BTAA-5.9 diesel  
Tier II certified  
Decelerator  
Automatic fan belt tensioner  
Integral engine oil cooling  
Fuel filter  
Dual element radial seal air cleaner  
70 amp alternator  
12-volt battery (2)

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 equipment hydraulics

### 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  
12-volt power outlet

## OPTIONAL EQUIPMENT

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### OPERATOR'S COMPARTMENT

Cab (w/heater, defroster, front windshield washer, lights and cloth suspension seat)  
Air conditioner (cab units only)  
3" (76 mm) seatbelt

### HYDRAULICS

Rear hydraulic function for field-installed ripper

### REAR MOUNTED EQUIPMENT

Ripper (3 shanks)  
Drawbar

### BLADES

126" (3200 mm) PAT  
157" (3987 mm) PAT

### GUARDS

Sweeps  
Center rockguard

### SCREENS

Rear ROPS and cab

### OTHER

Cold start aid  
Radio (cab only)  
Batteries , 700 amp

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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