

1650K

**XLT/LGP CRAWLER DOZER
TIER II CERTIFIED**

ENGINE

Model	Cummins 6BTAA-5.9, Tier II certified
Cylinders	6
Bore/Stroke	4.02 in x 4.69 in (102 x 119 mm)
Displacement	360 in ³ (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 in (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)
Transmission	Countershaft modulated full powershift
Steering	Hydrostatic differential steering
Oil filter	25 micron absolute, spin-on replaceable
Travel speeds* –	
Forward	mph (km/h)
1st	2.7 (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 pres- sure 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 in (90 mm)
Rod diameter	1.97 in (50 mm)
Stroke	32.5 in (826 mm)
Tilt cylinder (1)	
Bore diameter	4.92 in (125 mm)
Rod diameter	2.48 in (63 mm)
Stroke	5.31 in (135 mm)
Angle cylinder	
Bore diameter	3.94 in (100 mm)
Rod diameter	1.97 in (50 mm)
Stroke	20.04 in (509 mm)

UNDERCARRIAGE

Track adjustment	Hydraulic
Frame	Oscillating suspension
Length of track on ground	
XLT & LGP	118 in (2990 mm)
Track link pitch	6.93 in (176 mm)
Track shoe height	2.17 in (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 in (559 mm) closed grousers and CLT

LGP

31.5 in (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 in (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 in (212 mm)
Cutting edge	Reversible and replaceable
Width	8.0 in (203 mm)
Thickness	0.79 in (20 mm)

RIPPER

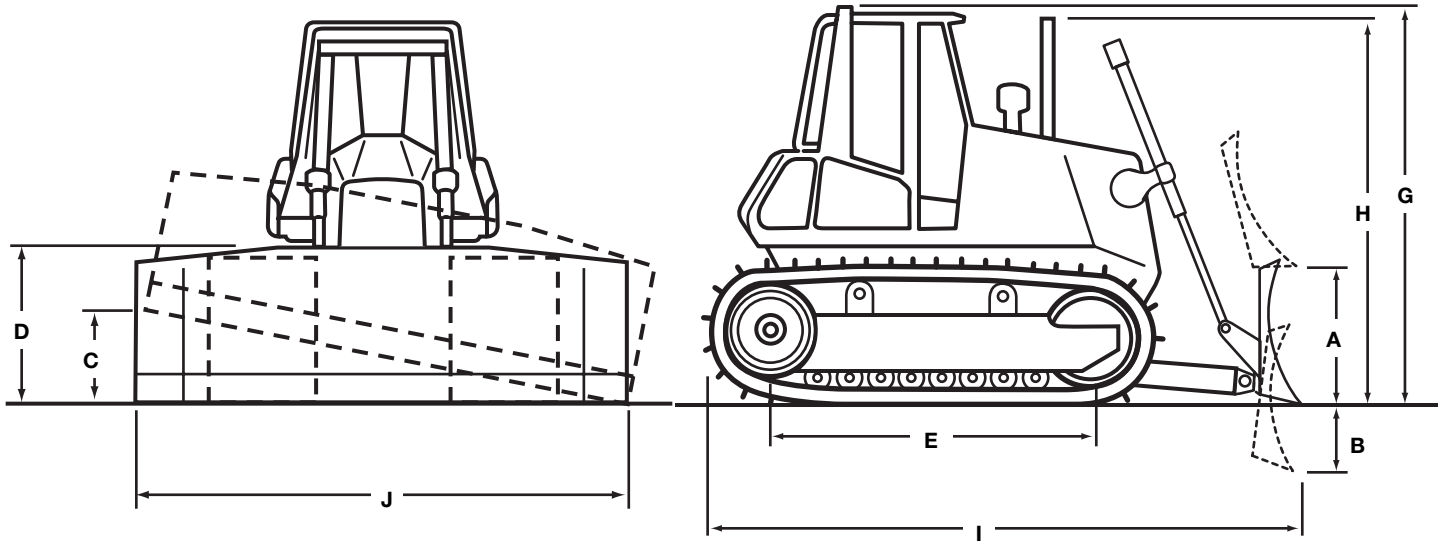
Max. penetration	19 in (495 mm)
Width	80 in (2040 mm)
Cut width	71 in (1800 mm)
Ground clearance (at carry)	18 in (460 mm)
Points	Replaceable
Number of shanks	3
Tooth spacing	35.5 in (902 mm)
Hydraulic cylinder (2-double-acting)	
Diameter	4.92 in (125 mm)
Stroke	14.96 in (380 mm)
Rod	2.76 in (70 mm)
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 in (550 mm) grousers for XLT and 31.5 in (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) PAT	Low Ground Pressure (LGP) PAT
BLADE		
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 ³ (3.15 m ³)	4.3 yd ³ (3.3 m ³)
TRACKS		
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)
DIMENSIONS		
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 blade angled over track	126 in. (3200 mm) 115 in. (2910 mm) 96.5 in. (2450 mm)	157 in. (3980 mm) 145.7 in. (3700 mm) 115.7 in. (2937 mm)

STANDARD EQUIPMENT

OPERATOR'S COMPARTMENT

ROPS/FOPS canopy
ROPS headliner
Vinyl suspension seat w/ fore/aft and height adjustment
Retractable seatbelt, 3 in (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

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

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

HYDRAULICS

Rear hydraulic function for field-installed ripper

POWERTRAIN

3F/3R modulated Powershift transmission
"Power steer" steering
Joystick control with F/R detents and up/down shift button
"AS" in 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

REAR MOUNTED EQUIPMENT

Ripper (3 shanks)
Drawbar

BLADES

126 in (3200 mm) PAT
157 in (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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