

XLT CRAWLER DOZER

CASE

CONSTRUCTION

SINCE 1842.

2050M

ENGINE

Brand	CASE/FPT
Model	F4HE96848*J101
Type	Electronic, diesel, 4-stroke, direct injection, turbocharged, Tier 3 certified
Cylinders	6
Bore and stroke	4.09 x 5.2 in (104 x 132 mm)
Displacement	408.85 in ³ (6,7 l)
Direct injection	Common Rail
Fuel	Diesel
Fuel filter	Screw-on, with screen filter
Cooling System	Liquid
Engine rotations - rpm	
High - neutral without load	2,375 +/- 50
Nominal - full load	2,200
Low idle	800 +/- 25
Power @ 2,000 rpm - ISO 14396	
Gross (SAE J1349)	232 hp (173 kW)
Net (SAE J1349)	214 hp (160 kW)
Torque @ 1,500 rpm - ISO 14396	
Gross	798 lbf.ft (1,082 Nm)
Net	740 lbf.ft (1,004 Nm)
Engine lubrication	"Forced lubrication" with oil jet piston refrigeration system
Operating angle	
Sideways	35°
Longitudinal	45°
Oil filter	Replaceable, screw-on, total flow cartridge
Radiator	
Fins per inch	8
Fan propeller	
	Belt mechanical drive
	Diameter 2 ft 3.6 in (700 mm)

POWER TRAIN

Hydrostatic system with closed circuit two stage	
Pump	Axial piston and variable flow
Engine	Axial piston and variable displacement
Maximum traction force*	80,931 lbf (360 kN)
Transmission	Dual Path Hydrostatic
Oil filter	Replaceable cartridge with filtering up to 4 micron with a 100 mesh suction screen
Displacement speeds	
Forward	5.8 mph (9.3 km/h)
Reverse	5.8 mph (9.3 km/h)
Parking brake	SAHR (Applied through spring actuation, released hydraulically)
Directional brakes	Hydrostatic
Final command	2 helical gear reductions and a planetary reduction
Reduction ratio	48.75:1
Transmission cooling	
Type	Heat exchanger (Air/oil)
Core area	483.6 in ² (3,120 cm ²)
NOTE: Measured using standard track chain. Increases travel speeds by 4% and reduces drawbar pull by 4% with the optional CELT track chain.	

ELECTRICAL SYSTEM

Alternator	120 A
Batteries	2x 12V in series, maintenance free 1,200 A CCA @ -0.4°F
Voltage	24 V

HYDRAULIC SYSTEM

Pump flow @ 2,200 rpm in 3,626 psi (25 MPa) 40.40 gpm (153 l/min)	
Lifting cylinders - PAT	2
Diameter of the cylinder	4.5 in (114 mm)
Diameter of the cylinder rod	2.5 in (63.5 mm)
Stroke	1 ft 5 in (428.8 mm)
Blade angling cylinders - PAT	2
Diameter of the cylinder	4.5 in (114 mm)
Diameter of the cylinder rod	2.5 in (63.5 mm)
Stroke	1 ft 7.8 in (502.7 mm)
Inclination cylinder - PAT	1
Diameter of the cylinder	5 in (127 mm)
Diameter of the cylinder rod	2.5 in (63.5 mm)
Stroke	5.8 in (148.3 mm)
Lift cylinder - Bulldozer	
With Rephasing valve	2
Bore diameter	3.3 in (82.6 mm)
Rod diameter	2.0 in (50.8 mm)
Stroke	3 ft 3.4 in (1,000 mm)
Tilt cylinder - Bulldozer	1
Bore diameter	4.5 in (114 mm)
Rod diameter	1.5 in (36.5 mm)
Stroke	5 in (126 mm)

OPERATOR COMPARTMENT

Cab

Closed ROPS/FOPS compartment with air-conditioning
Single joystick for speed and direction
Adjustable seat upholstered with cloth and air suspension
Retractable seatbelt 2 in (50,8 mm)
Adjustable arm rests
Two foot rests
Rear view mirror
Three windshield wipers
A dome light
Connector for accessories 12 V
Padded roof
Floor mats

Warning lights

Air filter
Alternator
Failure diagnosis indicator
Engine cooling fluid temperature
Engine oil pressure
Hydraulic filter
Low fuel
Emergency brake on
Maintenance service indicator
Transmission filter
Transmission load pressure

Indicators

Battery voltage
Fuel level
Digital hour meter
Tachometer
Diagnosis
Service reminder
Transmission oil temperature
Transmission speed indicator
Cooling fluid temperature

Audible alarms

Engine cooling fluid temperature
Engine oil pressure
Low fuel
Hydraulic/hydrostatic system oil temperature

SERVICE CAPABILITIES

Fuel Tank	107 gal (405 l)
Engine oil with filter	4 gal 1.3 qt (16.4 l)
Engine oil without filter	4 gal (15.6 l)
Engine cooling system	8 gal (30.28 l)
Hydraulic tank	55 gal 2 qt (210 l)
End reduced on each side	6 gal 2.5 qt (25 l)
Each lower roller	0,29 qt (275 ml)
Each idler	0,24 qt (225 ml)
Each upper roller	0,35 qt (334 ml)

OPERATING WEIGHT

Unit equipped with a cab, full fuel tank, 170 lb (77 kg) operator, frontal pull hook, track guides, blade. 45,413 lb (20,599 kg)

Version XLT

Weights	
Drawbar	146 lb (66 kg)
Ripper	4,188 lb (1,900 kg)
Roller protection	675 lb (306 kg)

OTHER SPECIFICATIONS

Undercarriage

Adjustment of tracks	Grease injection
Chassi	In single piece
Length of the tracks on the ground	
XLT (Extra-long)	10 ft 9 in (3,277 mm)
Track pitch	
Distance between the shoes	9 in (230.2 mm)
Grouser height	2.8 in (71.5 mm)
Pin diameter	1.75 in (44.5 mm)
Bushing diameter	
CLT track (Case Lubricated Track)	2.86 in (72.7 mm)
Number of shoes	45
Rollers	
Lower (each side)	8
Upper (each side)	2
Lower diameter of the rollers	8.3 in (210 mm)
Upper diameter of the rollers	7.4 in (187.5 mm)

Track area

Shoe width	2 ft (610 mm)
Track area on the ground	42.95 ft² (3.99 m²)

Blade

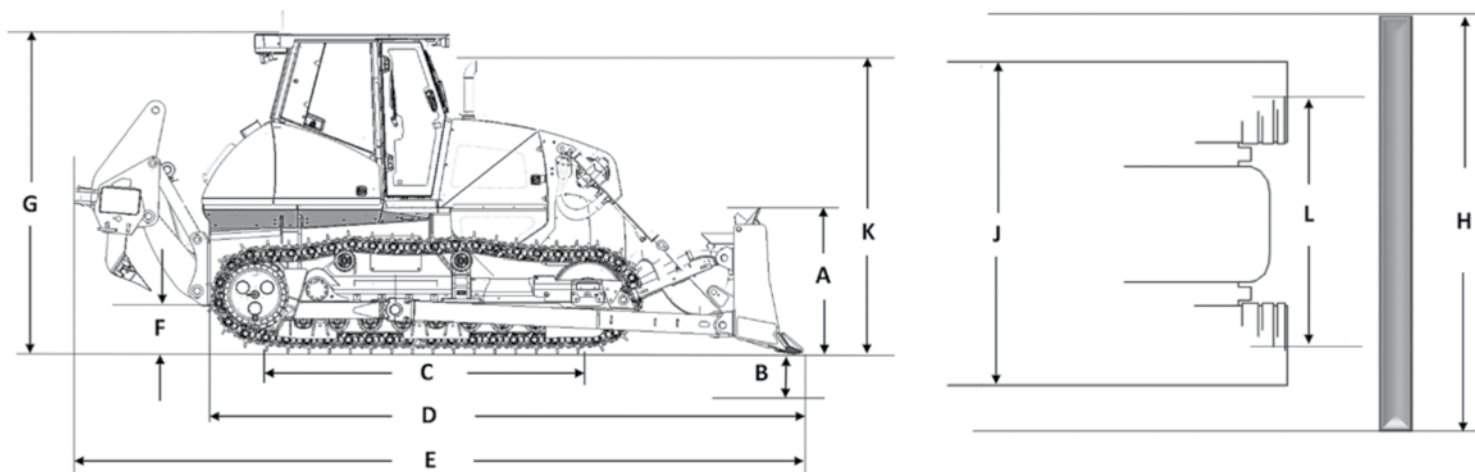
Variable inclination of the blade	55° a 60°
Lifting speed	19 in/sec (483 mm/seg)
Reversible and replaceable blade - PAT	
Width	10 in (254 mm)
Thickness	0.78 in (20 mm)
*Length	3 ft 4.5 in (1.029,4 mm)
Quantity	2
*Length	2 ft 5.7 in (755,2 mm)
Quantity	1

Reversible and replaceable blade - Bulldozer	
Width	8 in (200mm)
Thickness	0.78 in (20 mm)
*Length	2 ft 6.6 in (777.8 mm)
Quantity	2
*Length	3 ft 6 in (1.062,8 mm)
Quantity	1

NOTE: Each blade uses 3 cutting edges, according to the indicated dimensions.

RIPPER

Maximum penetration	1 ft 5.2 in (438 mm)
Width	7 ft 1 in (2,159 mm)
Cut width	6 ft 4,3 in (1,938 mm)
Maximum ground clearance	1 ft 9.6 in (550 mm)
Maximum number of teeth	3
Tooth spacing with 3 teeth	3 ft 1.2 in (944.9 mm)
Double-acting hydraulic cylinder	
Diameter	6.14 in (155.96 mm)
Stroke	1 ft 11.5 in (597 mm)
Rod diameter	2.75 in (70 mm)

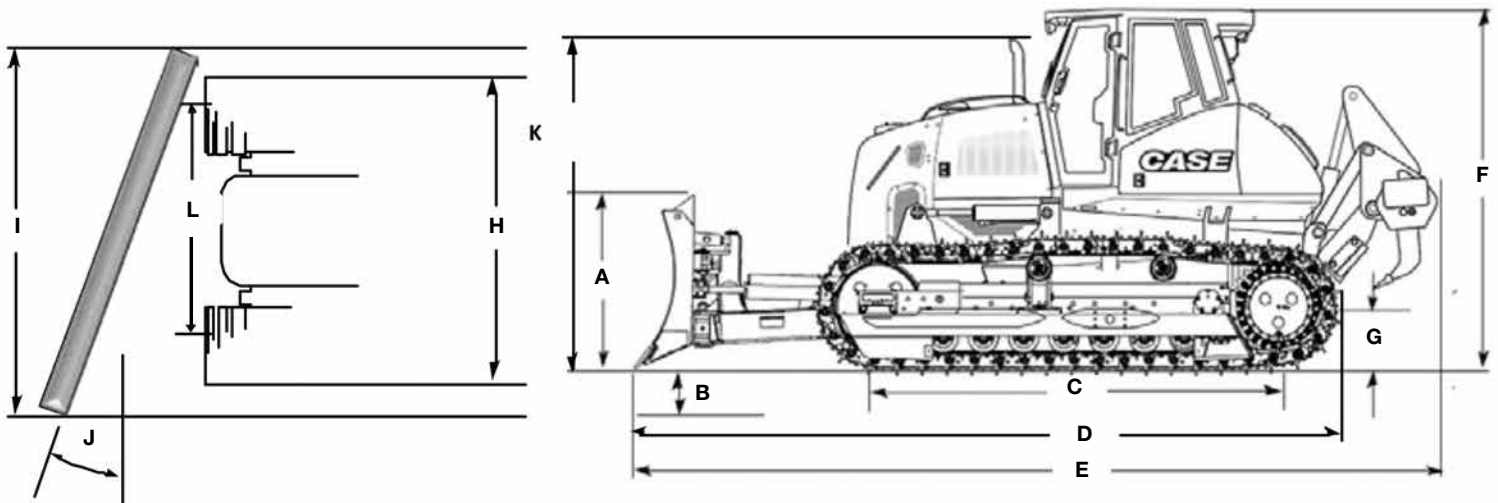


Line drawings are for illustrative purpose only and may not be exact representation of unit.

DIMENSIONS - BULLDOZER

XLT (Extra-long Tracks) - SEMI U

A. Blade height	4 ft 6 in (1,369 mm)
B. Blade depth below ground	1 ft 11 in (584 mm)
C. Length of track on ground	10 ft 9 in (3,277 mm)
D. Length with blade and trailer	17 ft 1 in (5,200 mm)
E. With blade and ripper	22 ft 6.5 in (6,870 mm)
With blade and drawbar	17 ft 8 in (5,387 mm)
F. Ground clearance	1 ft 2.3 in (362 mm)
G. Height to top of cab	10 ft 2 in (3,103 mm)
H. Blade width on ground	11 ft 3 in (3,427 mm)
J. Width to track ends	8 ft 4.5 in (2,550 mm)
K. Height to top of exhaust	9 ft 5.3 in (2,877 mm)
L. Track gauge	6 ft 4.4 in (1,940 mm)
Shoe width	2 ft (610 mm)
Track on ground area	42.95 ft ² (3.99 m ²)
Ground pressure	7.39 psi (0,050 MPa)
SAE blade capacity	7.3 yd ³ (5,6 m ³)
Blade lift above ground	4 ft 1 in (1,244 mm)
Blade tilt (up to 8.3°)	1 ft 5 in (433 mm)



DIMENSIONS – PAT BLADE

XLT (Extra-long Tracks)

A. Blade height	4 ft 5.9 in (1,369 mm)
B. Blade depth below ground	1 ft 9 in (539 mm)
C. Length of track on ground	10 ft 9 in (3,277 mm)
D. Length with blade in straight position and trailer	18 ft 9.9 in (5,738 mm)
E. With blade in straight position and ripper	24 ft 2.7 in (7,384 mm)
With blade in straight position and drawbar	19 ft 4.4 in (5,902 mm)
F. Height to top of cab	10 ft 2 in (3,103 mm)
G. Ground clearance	1 ft 2.3 in (362 mm)
H. Width to track ends	8 ft 4.4 in (2,550 mm)
I. Blade width with maximum angle	10 ft 9.4 in (3,287 mm)
Blade width on ground	11 ft 10 in (3,607 mm)
J. Blade angle of attack	28°
K. Height to top of exhaust	9 ft 5.3 in (2,877 mm)
L. Track gauge	6 ft 4.4 in (1,940 mm)
Shoe width	2 ft (610 mm)
Track on ground area	42.95 ft² (3.99 m²)
Ground pressure	7.39 psi (0.050 MPa)
SAE blade capacity	6.32 yd³ (4.83 m³)
Blade lift above ground	3 ft 8.5 in (1,130 mm)
Blade tilt (up to 8.3°)	1 ft 5.7 in (450 mm)

STANDARD EQUIPMENT

Operator environment

See page 2

Engine

CASE/FPT F4HE96848*J101
Tier 3 certified
Cooling system Fan Drive Engine oil heater
Fuel filter
Fuel filter with dual element radial seal
Pre-filter turbine type
120 A Alternator
(2) 1,200 CCA 12 V batteries
Cooling system with radiators protected against a possible sand blast. Excellent access for maintenance through the engine side panels

Power Train

Closed circuit with two infinitely variable ways with hydrostatic drive and electronic control that adjusts power and speed independently for each track while turning or counter-rotation.

Final commands

Triple reduction of final commands.
SAHR type parking brake (applied by spring and released by hydraulic pressure).

Blade

With manual inclination adjustment from 55° to 60°.
Single lever electro-hydraulic control for blade on the right side of the operator, with infinitely variable positions to control the functions of the HS or PAT blade (up, down, angle to the left and right, left and right swing).
Predisposition for control installation laser or GPS

Tread train

Hydraulic adjustment of the tracks through grease injection.
CASE Lubricated Treads (CLT).
Sealed and lubricated pins, upper and lower rollers sealed and lubricated.
Front and rear track guides.

Ripper

3 teeth with 3 positions

Others

Anti-vandalism package
Audible reverse gear warning
Horn
Work lights
2 frontal
1 rear
General shutdown key
Rear view mirror
Predisposition in the joystick for SiteControl installation.
Predisposition for the SiteWatch monitoring system
Frontal tow hook
Front transmission protection
Safety belt 2 in (50.8 mm)
Radio

OPTIONAL EQUIPMENT

Equipment mounted on the rear

Rear drawbar pull

Guards

Lower rollers guard

Others

Protection of the lower rollers
Intake air heater for ignition in cold climates
Additional work lights totaling four in the front and two in the back
Extended Duration Track (C.E.L.T)



Fleet monitoring and management system by satellite or cel phone tracking.

CASE Corporation reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold. The specifications, descriptions, and illustrative materials contained here reflect correctly the data known up to the publication date, but are subject to changes with no previous notice. The illustrations may include optional equipment and accessories and may not include all standard equipment.

CASE Construction equipment and CASE / FPT engines are manufactured by the same company: CNH Industrial Ltda.

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