

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) |
| 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. 49.586 lb (22.492 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 ft ² (3.99 m ²) |

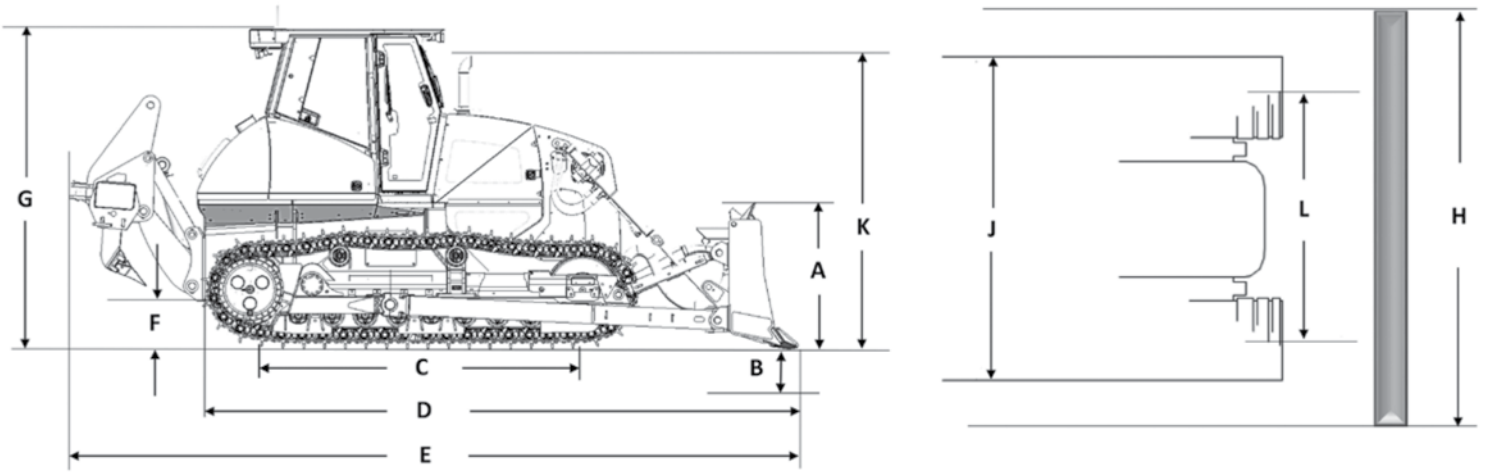
Blade

| | |
|--|------------------------|
| Variable inclination of the blade | 55° a 60° |
| Lifting speed | 19 in/sec (483 mm/seg) |
| 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) |

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 blade (up, down, 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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