

CRAWLER DOZER XLT

CASE

CONSTRUCTION

SINCE 1842.

1650L

ENGINE

Brand	FPT
Model	F4HE968K*J106
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	409 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	2,350 +/- 50
Nominal - full load	2,200
Low idle	1,000 +/- 100
Power @ 2,000 rpm - ISO 14396	
Gross (SAE J1349)	156 hp (116 kW)
Net (SAE J1349)	144 hp (107 kW)
Torque @ 1,400 rpm	
Gross	508.9 lb/ft (690 Nm)
Net	493 lb/ft (668.5 Nm)
Engine lubrication	"Forced lubrication" with oil jet piston refrigeration system
Operating angle	
Sideways	45°
Longitudinal	45°
Oil filter	Replaceable, screw-on, total flow cartridge
Radiator	
Fins per inch	6
Fan propeller	Belt mechanical drive Diameter 2' 2" (662 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*	61,846 lbf (275,1 kN)
Transmission	Commanded by a single electronically controlled lever
Oil filter	Replaceable cartridge with filtering up to 4 micron with a 100 mesh suction screen
Displacement speeds	
Forward	6.0 mph (9,7 km/h)
Reverse	6.0 mph (9,7 km/h)
Parking brake	SAHR (Applied through spring actuation, released hydraulically)
Steering Brakes	Hydrostatic
Final command	2 helical gear reductions and a planetary reduction
Reduction ratio	61.4:1
Transmission cooling	
Type	Heat exchanger (Air/oil)
Core frontal area	648.6 in ² (4,185 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	65 A
Batteries	2x 12V in series, maintenance free 750 CCA @ -0.4°F
Voltage	24 V

HYDRAULIC SYSTEM

Pump flow @ 2,200 rpm with 2,830 psi (195 bar)	34.9 gpm (132 l/min)
PAT lifting cylinders	2
Diameter of the cylinder	3.5 in (88.9 mm)
Diameter of the cylinder rod	2 in (50,8 mm)
Stroke	2 ft 8.5 in (826 mm)
PAT blade angling cylinders	2
Diameter of the cylinder	4 in (101.6 mm)
Diameter of the cylinder rod	2 in (50.8 mm)
Stroke	1 ft 8 in (509 mm)
PAT inclination cylinder	1
Diameter of the cylinder	5 in (127 mm)
Diameter of the cylinder rod	2.5 in (63,5 mm)
Stroke	5.3 in (135 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	79 gal 1 qt (300 l)
Engine oil with filter	4 gal 1 qt (16.4 l)
Engine oil without filter	4 gal (15.6 l)
Engine cooling system	8 gal 2.3 qt (32.5 l)
Hydraulic tank	25 gal 4 qt (98.4 l)
Final command for each side	3 gal 3 qt (14.2 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, PAT blade.
35,510 lb (16,107 kg)

VERSION XLT

Extra-long tracks	38,338 lb (17,390 kg)
Weights	
Drawbar	146 lb (66 kg)
Ripper	3,527 lb (1,600 kg)
Roller protection	533 lb (242 kg)

OTHER SPECIFICATIONS

UNDERCARRIAGE

Adjustment of tracks	Hydraulic
Chassi	Suspension structure with oscillating balancing bar and joint axle
Length of the tracks on the ground	
XLT (Extra-long)	10 ft (3,05 mm)
Track pitch	
Distance between the shoes	7.5 in (190 mm)
Grouser height	2.2 in (55.5 mm)
Pin diameter	1.5 in (38 mm)
Bushing diameter	
CLT track (Case Lubricated Track)	2.55 in (65 mm)
Number of shoes	45
Rollers	
Lower (each side)	8
Upper (each side)	2
Lower diameter of the rollers	8 in (203 mm)
Upper diameter of the rollers	6.75 in (171.5 mm)

TRACK AREA

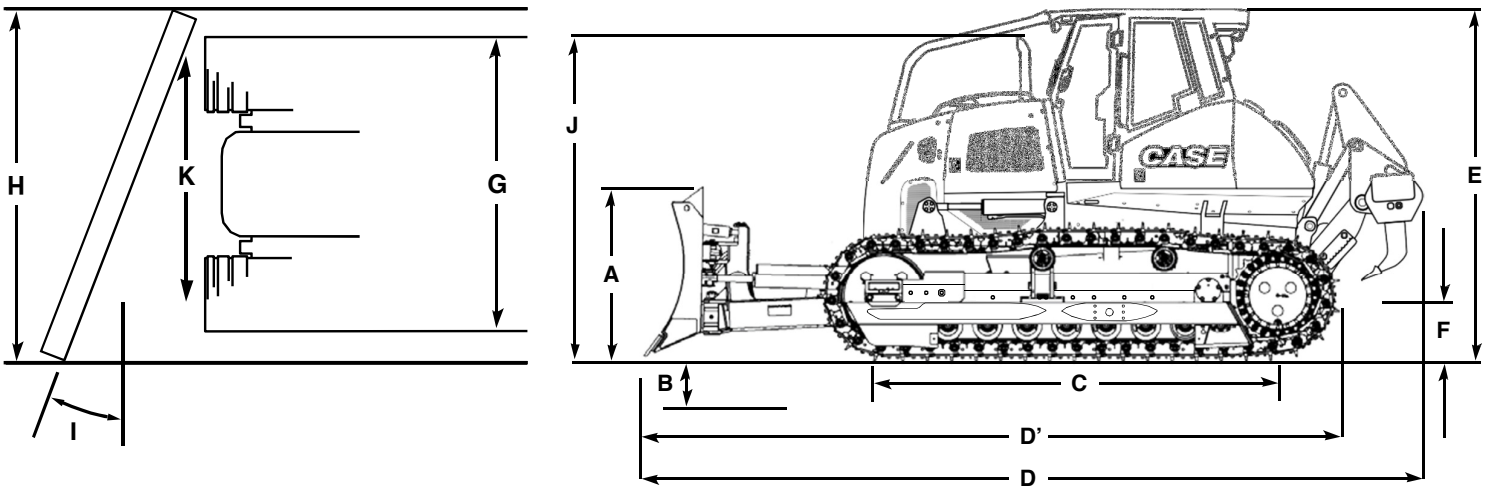
Shoe width	1 ft 10 in (558.8 mm)
Track area on the ground	36.70 ft ² (3.41 m ²)

BLADE

Variable blade inclination	50° a 60°
Lifting speed	19 in/sec (483 mm/seg)
Reversible and replaceable cutting edges	
Width PAT	7.8 in (200 mm)
Thickness PAT	0,78 in (20 mm)
Length	3 ft 10 in (1.176 mm)
Quantity	2

RIPPER

Maximum penetration	1 ft 7 in (478 mm)
Width	5 ft 7 in (1.712 mm)
Cutting width	5 ft 4 in (1.636 mm)
Maximum free space over the ground	10,3 in (262 mm)
Maximum number of teeth	3
Clearance between the teeth with 3 shanks	2 ft 7 in (785 mm)
Double action hydraulic piston	2
Diameter	4 in (101.6 mm)
Stroke	10 in (254 mm)
Diameter of the rod	2 in (50,8 mm)



DIMENSIONS – PAT BLADE

XLT TRACKS

A. Blade height	3 ft 10.5 in (1,183 mm)
B. Depth of the blade in the ground	1 ft 7.3 in (490 mm)
C. Length of the track on the ground:	10 ft (3,050 mm)
D. Length of the blade in the straight position and ripper	21 ft 9.3 in (6,637 mm)
D'. With the blade in the straight position, no rear equipment With blade in the straight position and drawbar pull	17 ft 9 in (5,410 mm) 18 ft 7.3 in (5,672 mm)
E. Height of the top of the cab	9 ft 10.2 in (3,002 mm)
F. Height above ground	1 ft 1.6 in (347 mm)
G. Width up to the tracks end	8 ft 2 in (2,489 mm)
H. Width of the blade at a maximum angle Width of the blade fully placed on the ground	9 ft 2.6 in (2,809 mm) 10 ft 5 in (3,175 mm)
I. Blade angle of attack	28°
J. Height of the exhaust	9 ft 5.5 in (2,884 mm)
K. Track Gauge	6 ft 2 in (1,880 mm)
Width of the shoe	1 ft 10 in (559 mm)
Area of the track on the ground	36.70 ft ² (3.41 m ²)
Pressure on the ground	6.66 psi (0.46 bar)
SAE blade capacity	4.6 yd ³ (3,5 m ³)
Elevation of the blade over the ground	3 ft 1.4 in (950 mm)
Blade oscillation (up to 8.3°)	1 ft 5.7 in (450 mm)

Figures are merely illustrative and may not be an exact representation of the unit.

STANDARD EQUIPMENT

Operator Compartment

See page 2

Engine

FPT F4HE968K*J106
Tier 3 certified
Fan belt automatic tensioner
Engine oil cooler
Fuel filter
Air filter with double element radial sealing
Turbine type pre-filter
65 A alternator
Battery (2) 12V 750 A CCA
Cooling system with radiators protected against possible sand projection.
Excellent access for maintenance by panels on the sides of the engine.

Power Train

2-way closed circuit with automatic speed variation with hydrostatic drive and electric control that adjusts the power and speed independently for each tread while turning or counter-rotating.

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 50° to 60°.
Blade control with a single lever (electric-hydraulic) on the right side of the operator, with infinitely variable positions to control the six blade functions (up, down, angled to the left and right, tilt to the left and right).

Roller Track Frame

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
Master key
Rear view mirror
Predisposition for the SiteWatch monitoring system
Frontal tow hook
Safety belt 2 in (50.8 mm)

OPTIONAL EQUIPMENT

Operator Compartment

Rear windshield wiper in the compartment

Equipment mounted on the rear

Rear drawbar pull

Blade

PAT - 13 ft (3.974 mm)

Others

Drains that protect the environment while changing fluids
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.

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CaseCE.com



Commercial Offices

ARGENTINA
Ávalos 2829 Edif. 1 Piso 4°,
Complejo Urbana
Vicente López (1605) Bs. As.,
Argentina.
Tel: +54 (11) 2034 1400

Manufacturing plants

Contagem – Minas Gerais – Brasil
Av. General David Sarnoff, 2.237
Inconfidentes – C.P. 32210-900
Tel.: +55 31 2104-3392

Sorocaba – São Paulo – Brasil
Av. Jerome Case, 1.801
Éden – C.P. 18087-220
Tel.: +55 15 3334-1700