CRAWLER DOZER



SINCE 1842.

2050M

ENGINE	
Brand	FPT
Model	F4HFA613N*E006
cycle diesel engine. E	water cooled. 4-stroke Electronic fuel injection shield, Tier 2 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 Spir	n-on w/ in-line strainer
Cooling System	Liquid
Engine rotations - rpm High - neutral without load Nominal - full load Low idle Power @ 2,000 rpm - ISO 1 Gross (SAE J1349)	2,200 800 +/- 25 4396 232 hp (173 kW)
Net (SAE J1349) Torque @ 1,500 rpm - ISO	214 hp (160 kW)
Gross Net	798 lbf.ft (1,082 Nm) 740 lbf.ft (1,004 Nm)
Engine lubrication Pump Deep sump plate	cooler w/ pressurized under-piston nozzles
Operating angle Sideways Longitudinal	35° 45°
Oil filter Replaceable, spir	n-on full-flow cartridge
Radiator Fins per inch	10
Fan propeller Diar	neter 27.6 in (700 mm)

POWER TRAIN Dual path hydrostatic:

Pump	Variable axial piston			
Motor	Variable bent axis piston			
Maximum traction for	orce* 81,000 lbf (360 kN)			
Transmission Si	ngle lever control – electronic straight tracking			
•	e cartridge with filtering up to the a 100 mesh suction screen			
Displacement speed	ls			
Forward	6.1 mph (9.8 km/h)			
Reverse	6.1 mph (9.8 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	g			
Type	Tube and fin			
Core area	512 in² (0.33 m²)			

ELECTRICAL SYSTEM

Alternator	120 A
Batteries	2x 12V in series, maintenance free
	1,200 CCA @ 80°F
Voltage	24 V
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HYDRAULIC SYSTEM

Pump flow @ 2,200 rpm in 3,626 psi (25 MPa) 47.4 g	gpm (179.5 l/min)		
Lifting cylinders - PAT	2		
Diameter of the cylinder	4.5 in (114.3 mm)		
Diameter of the cylinder roo	d 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 (114.3 mm)		
Diameter of the cylinder roo	` ,		
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 roo	,		
Stroke	5.8 in (148.3 mm)		
Lift cylinder – Bulldozer	, , ,		
With Rephasing valve	2		
Bore diameter	3.8 in (95.3 mm)		
Rod diameter	2.3 in (57.2 mm)		
	2 ft 11.7 in (906 mm)		
	1		
Tilt cylinder – Bulldozer Bore diameter	4.5 in (114.3 mm)		
Rod diameter	2.5 in (63.5 mm)		
Stroke	3.9 in (98.9 mm)		
SHOKE	3.9 111 (96.9 11111)		

OPERATOR COMPARTMENT

Cab

Fully enclosed ROPS cab

Single lever control for speed, steering

and direction

Cloth air suspension seat w/ back adjustment

Retractable 3 in (76,2 mm) seat belt

Adjustable armrest

Two foot rest

Rearview mirror

Two door windshield wipers

Dome light

12-volt accessory outlet

Headliner

Floor mat

Warning lights

Air filter

Alternator

Diagnostic fault indicator

Engine coolant temperature

Engine oil pressure

Hydraulic filter

Low fuel level

Park brake engaged

Service soon indicator

Transmission filter

Transmission charge pressure

Indicators

Battery voltage

Fuel level

Digital hour meter

Tachometer

Diagnostic

Service reminder

Transmission oil temperature

Transmission speed indicator Cooling fluid temperature

Audible warnings

Engine coolant temperature

Engine oil pressure

Low fuel level

Transmission charge pressure

Temperature/hydraulic temperature

SERVICE CAPACITIES

Fuel Tank	107.0 gal (405.0 L)
Engine oil with filter	17.3 qt (16.4 L)
Engine oil without filter	16.5 qt (15.6 L)
Cooling system	10.0 gal (38.0 L)
Hydraulic tank	60.0 gal (227.0 L)
Final drive on each side	26.4 qt (25.0 L)
Each lower roller	0.38 qt (0.356 L)
Each idler	0.35 qt (0.330 L)
Each upper roller	0.33 qt (0.310 L)

OPERATING WEIGHT

Unit equipped w/ cab, full fuel and hydraulic tanks, 170 lb (77 kg) operator, SALT chain, front pull hook, rear retrieval hitch, track guides, backup alarm, horn, lights, track shoe and blade.

Extra long track	45,406 lb (20 599 kg)
LGP	48,764 lb (22 115 kg)

Add-on weights:

Drawbar 146 lb (66 kg) Ripper 3 Shank 4,262 lb (1 933 kg)

OTHER SPECIFICATIONS

Undercarriage

Adjustment of tracks Hydraulic
Frame Pivot shaft and oscillating equalizer beam suspension

Length of the tracks on the	ground
	128 in (3.25 m)
Track link pitch	8 in (203.2 mm)
Shoe grouser height	3.1 in (78.5 mm)
Track pin diameter	1.75 in (44.5 mm)
Bushing diameter SALT HD track	2.87 in (72.9 mm)
Number of shoes	45
Rollers	

Lower (each side)

Upper (each side) 2
Lower diameter of the rollers 8.94 in (227 mm)
Upper diameter of the rollers 7.38 in (187.5 mm)

Track on ground

Variable blade pitch

Shoe area:	
24 in (610 mm)	5,093 in ² (32 856 cm ²)
24 in (610 mm)	6,038 in ² (38 952 cm ²)
28 in (710 mm)	7,144 in ² (46 093 cm ²)
30 in (750 mm)	7,547 in ² (48 690 cm ²)
36 in (905 mm)	9,107 in ² (58 753 cm ²)

Blade

Lifting speed	19 in/sec (483 mm/seg)
Reversible and repla	ceable blade - PAT
Width	10 in (254 mm)
Thickness	0.8 in (20 mm)
Reversible and repla	ceable blade - Bulldozer
Width	8 in (200mm)
Thickness	0.8 in (20 mm)

RIPPER

55° a 60°

Cut width	74.3 in (1 887 mm)
Width	85 in (2 159 mm)
Maximum penetration	19.3 in (491 mm)

Maximum ground clearance

22.7 in (577 mm)
Maximum number of teeth 3

Tooth spacing with 3 teeth

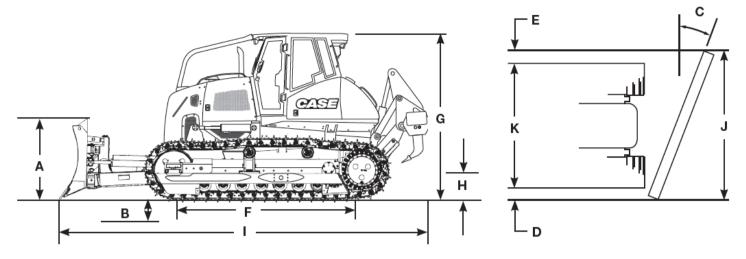
37.2 in (945 mm)

Double-acting hydraulic cylinder

 Diameter
 5.25 in (133 mm)

 Stroke
 23.5 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

	Extra Long Track (XLT) with Semi-U	Extra Long Track (XLT) with PAT	Low Ground Pressure (LGP) with Straight PT	Low Ground Pressure (LGP) with PAT	Low Ground Pressure (LGP) with Semi-U
Blade width	135 in (3 429 mm)	142 in (3 607 mm)	154 in (3 900 mm)	157.5 in (4 064 mm)	157 in (3 988 mm)
SAE blade capacity	7.29 yd³ (5.57 m³)	6.32 yd³ (4.83 m³)	4.94 yd³ (3.78 m³)	7.12 yd³ (5.54 m³)	7.98 yd³ (6.10 m³)
Blade height	56 in (1 425 mm)	53.9 in (1 369 mm)	44 in (1 108 mm)	53.9 in (1 369 mm)	53 in (1 349 mm)
A. Blade lift above ground	48.7 in (1 238 mm)	43.8 in (1 112 mm)	46 in (1 167 mm)	43.8 in (1 112 mm)	48.4 in (1 228 mm)
B. Blade depth below ground	21.5 in (547 mm)	19.2 in (487 mm)	20.0 in (508 mm)	19.2 in (487 mm)	21.6 in (548 mm)
C. Blade angle both directions	-	25°	-	25°	-
D. Cast reach	17.4 in (442 mm)	22.9 in (581 mm)	14.5 in (367 mm)	17.6 in (448 mm)	16.2 in (411 mm)
E. Cut reach	17.4 in (442 mm)	5.8 in (148 mm)	14.5 in (367 mm)	0.5 in (12 mm)	16.2 in (411 mm)
Blade tilt, each end	15.7 in (400 mm)	17.7 in (450 mm)	15.7 in (400 mm)	21.7 in (550 mm)	15.7 in (400 mm)
Track gauge	76.4 in (1.94 m)	76.4 in (1.94 m)	89 in (2.26 m)	89 in (2.26 m)	89 in (2.26 m)
Maximum shoe width	24 in (600 mm)	24 in (600 mm)	36 in (905 mm)	36 in (905 mm)	36 in (905 mm)
F. Length of track on ground	128 in (3.25 m)	128 in (3.25 m)	128 in (3.25 m)	128 in (3.25 m)	128 in (3.25 m)
Area of track on ground	7,038 in² (3.89 m²)	7,038 in² (3.89 m²)	9,107 in² (5.88 m²)	9,107 in² (5.88 m²)	9,107 in ² (5.88 m ²)
Ground pressure	7.52 psi (0.51 bar)	7.52 psi (0.51 bar)	5.35 psi (0.36 bar)	5.35 psi (0.36 bar)	5.35 psi (0.36 bar)
G. Height to top of ROPS cab	10 ft 3 in (3 150 mm)	10 ft 3 in (3 150 mm)	10 ft 3 in (3 150 mm)	10 ft 3 in (3 150 mm)	10 ft 3 in (3 150 mm)
Height to top of exhaust	9 ft 5 in (2 867 mm)	9 ft 5 in (2 867 mm)	9 ft 5 in (2 867 mm)	9 ft 5 in (2 867 mm)	9 ft 5 in (2 867 mm)
H. Ground clearance	16.1 in (408.2 mm)	16.1 in (408.2 mm)	16.1 in (408.2 mm)	16.1 in (408.2 mm)	16.1 in (408.2 mm)
Length: Blade straight with drawbar I. Blade straight with ripper	19 ft 6 in (5 980 mm) 24 ft 1 in (7 353 mm)	19 ft 7 in (5 964 mm) 24 ft 1 in (7 337 mm)	19 ft 6 in (5 980 mm) 24 ft 1 in (7 353 mm)	19 ft 7 in (5 964 mm) 24 ft 1 in (7 337 mm)	19 ft 6 in (5 980 mm) 24 ft 1 in (7 353 mm)
Width: Blade straight J. Blade angled K. Over track	11 ft 3 in (3 423 mm) 11 ft 3 in (3 423 mm) 8 ft 4 in (2 541 mm)	11 ft 10 in (3 607 mm) 10 ft 9 in (3 269 mm) 8 ft 4 in (2 541 mm)	12 ft 10 in (3 900 mm) 2 ft 10 in (3 900 mm) 10 ft 4 in (3 166 mm)	13 ft 1 in (4 001 mm) 11 ft 11 in (3 626 mm) 10 ft 4 in (3 166 mm)	13 ft 1 in (3 988 mm) 13 ft 1 in (3 988 mm) 10 ft 4 in (3 166 mm)

NOTE: Ground clearance and overall height dimensions are with the grousers fully penetrated. Add 2.19 in (56 mm) if unit is on solid surface.

STANDARD EQUIPMENT

Operator environment

See page 2

Engine

FPT F4HFA613N*E006

Tier 2 certified

V-Shape Cooling package with hydraulic-driven reversing fan

Integral engine oil cooling

Fuel filter

Dual element radial seal air cleaner

120 amp alternator

(2) 950 CCA 12-volt batteries

Engine side panels

Power Train

Dual path infinitely variable, single-lever controlled hydrostatic drive, with electronic straight tracking and counter-rotation

Final drive: Triple reduction; helical gear planetary decelerator with hydrostatic drive retardation

Automatic spring-applied parking brake

Blade

55° - 60° variable pitch

Single lever electro-hydraulic control for blade lift, angle and tilt

Undercarriage

Easy Clean-out.

Hydraulic track adjusters
SALT HD track chain
Permanently lubricated track and carrier rollers
Track adjuster guard
Track guides – front and rear
Robust Smooth One Piece Track Frames with

Others

Anti-vandalism package

Backup alarm

Horn

Work lights

2 frontal 1 rear

Ground Level Master disconnect switch

Mirror

Pre-cleaner

Front pull hook

OPTIONAL EQUIPMENT

Operator environment

Cab air quality system

Rear wiper for cab

installed ripper

Radio

Bluetooth, WeatherBand, Satellite Radio

Hydraulics

4-spool hydraulic valve for field-installed ripper 3-spool hydraulic valve without plugs for field-

3-spool hydraulic valve with plugs

Rear mounted equipment

Ripper - 2 position with 3 shanks

Rear tow hook

Drawbar

Drawbar with step

Blades

PAT – 142 in (3 607 mm) High Visibility Blade 48 in height

PAT – 142 in (3 607 mm) 54 in height

PAT – 157.5 in (4 000.5 mm) 54 in height

Folding PAT – 160 in (4 064 mm) HS Straight (WT/LGP) – 154 in (3 900 mm)

Semi-U - 135 in (3 422 mm)

Larger Bull Dozer LGP Semi-U Blade – 157 in (3 988 mm)

HS Straight (XLT) - 131 in (3 334 mm)

Guards

CAB canopy brush guard Full length rock guards Waste Handler Guarding Package

Screens

Cab rear screen

Precision

Universal Blade Guidance Ready Compatible with Leica, Trimble, and Topcon Systems from the Factory

Blade guidance ready - Trimble

Blade guidance ready - Leica

Blade guidance ready - Topcon

SiteControl CoPilot powered by Leica

Others

Environmental drains
Case Ultra Life Track
Cold start – grid heater
Additional work lights
Rearview implement mirror
HEPA Turbine pre-cleaner



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

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