



ENGINE

Model	FPT F4HFE413P
Emissions Certification	Tier 4 Interim Certified
Cylinders	4
Displacement	275 in ³ (4.5 L)
Fuel injection	Common rail
Fuel	#2 Diesel
Fuel filter	Spin-on w/ in-line strainer
Air intake	Cross-flow
Cooling	Liquid
Engine speeds	RPM
High idle - no load	2200 +/- 50
Rated - full load	2000
Low idle	1100 +/- 25
Horsepower @ 2000 RPM – SAE J1349:	
Net	112 hp (84 kW)
Gross	120 hp (90 kW)
Engine lubrication:	
Pump	Deep sump plate cooler w/ pressurized under-piston nozzles
Pump operating angle ratings:	
Side-to-side	35°
Fore and aft	45°
Oil filtration	Replaceable, spin-on full-flow cartridge
Radiator:	
Fins per inch	8.5
Fan:	
Diameter	21.6 in (550 mm)
Ratio	1.1:1

DRIVETRAIN

Dual path hydrostatic:	
Pump	Variable axial piston
Motor	Variable bent axis piston
Max drawbar pull*	42,813 lb (190.4 kN)
Transmission	Single lever control – electronic straight tracking
Transmission oil filter	4 micron, spin-on replaceable w/ 100 mesh suction screen
Travel speeds*:	
Forward	5.2 mph (8.4 kph)
Reverse	5.2 mph (8.4 kph)
Parking brakes	Heavy-duty, spring-applied, hydraulic release disc
Steering brakes	Hydrostatic
Final drive	2 helical gear reduction to planetary output
Ratio	62.4:1
Transmission cooling:	
Type	Oil to water
Core size	417 in ² (0.27 m ²)

NOTE: *Measured using standard track chain.
Increase travel speeds by 4% and reduce
drawbar pull by 4% with the optional CELT
track chain.

ELECTRICAL

Alternator	120 amp
Battery	(2) 12-volt, low-maintenance 925 cold-cranking amps @ -4° F (-20° C)
Electrical System	24 Volts

OPERATOR ENVIRONMENT

Optional ROPS cab; Single lever control
for speed, steering and direction; Cloth air
suspension seat w/ back adjustment; Retractable
2 in (51 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; Transmission temperature.

Gauges:

Battery voltage; Fuel level; Digital hour meter/
tachometer/diagnostic/service reminder;
Transmission oil temperature; Transmission
speed indicator; Water temperature; Diesel
Exhaust Fluid (DEF) level.

Audible warnings:

Engine coolant temperature; Engine oil
pressure; Low fuel level; Transmission charge
pressure; Temperature/hydraulic temperature.

OPERATING WEIGHT

Unit equipped w/ ROPS, full fuel tank,
170 lb (77 kg) operator, drawbar, side shield,
track guides, backup alarm, horn and lights.

Long track	21,560 lb (9 779 kg)
Wide track	22,330 lb (10 129 kg)
Low ground pressure	22,830 lb (10 355 kg)

Add-on weights:

Drawbar	84 lb (38 kg)
Ripper – 3 shank	1,400 lb (635 kg)
Winch	1,001 lb (454 kg)
Front counterweight	827 lb (375 kg)
Cab	560 lb (254 kg)
CELT chain:	
18 in (457 mm)	141 lb (64 kg)
20 in (508 mm)	128 lb (58 kg)
24 in (610 mm)	141 lb (64 kg)
28 in (711 mm)	141 lb (64 kg)
Center rock guard	340 lb (154 kg)
Sweeps	139 lb (63 kg)

HYDRAULICS

Pump flow @ 2000 RPM @ 3,000 psi
(20 684 kPa) 20.3 gpm (78.8 L/min)

Lift cylinder	Two (2)
Bore diameter	3.50 in (88.9 mm)
Rod diameter	1.75 in (44.4 mm)
Stroke	14.26 in (362.1 mm)

Angle cylinder	Two (2)
Bore diameter	3.50 in (88.9 mm)
Rod diameter	1.75 in (44.4 mm)
Stroke	14.56 in (369.9 mm)

Tilt cylinder	One (1)
Bore diameter	3.50 in (88.9 mm)
Rod diameter	1.75 in (44.4 mm)
Stroke	5.39 in (137.0 mm)

SERVICE CAPACITIES

Fuel tank	50.0 gal (189.0 L)
Engine oil w/ filter	13.0 qt (12.3 L)
Engine oil w/o filter	12.2 qt (11.5 L)
Engine cooling system	5.75 gal (21.8 L)
Hydraulic reservoir	23.75 gal (90.0 L)
Final drive – per side	15.0 qt (14.2 L)
Track rollers – each	0.26 qt (0.25 L)
Front idlers – each	0.52 qt (0.49 L)
Carrier rollers – each	0.25 qt (0.24 L)
DEF tank	12.0 gal (45.4 L)

OTHER SPECIFICATIONS

Undercarriage:

Track adjustment	Hydraulic
Frame	Rigid suspension
Length of track on ground	93 in (2 352 mm)
Track link pitch	6.73 in (171 mm)
Track shoe height	2.06 in (52 mm)
Pin diameter	1.32 in (33 mm)
Bushing diameter:	
CLT track	2.24 in (57 mm)
CELT track	3.0 in (76 mm)
Track shoes per side	40
Track rollers per side	7
Carrier rollers per side	1
Track roller rail diameter	7.48 in (190 mm)

Track on ground:

Shoe area:	
18 in (457 mm)	3,334 in ² (21 507 cm ²)
20 in (508 mm)	3,704 in ² (23 896 cm ²)
24 in (610 mm)	4,448 in ² (28 694 cm ²)
28 in (711 mm)	5,184 in ² (33 445 cm ²)

Track:

Long track:

18 in (457 mm) closed grousers and CLT
18 in (457 mm) open grousers and CELT
20 in (508 mm) closed grousers and CLT
20 in (508 mm) open grousers and CELT

Wide track:

20 in (508 mm) closed grousers and CLT
20 in (508 mm) open grousers and CELT
24 in (610 mm) closed grousers and CLT
24 in (610 mm) open grousers and CELT

Low ground pressure:

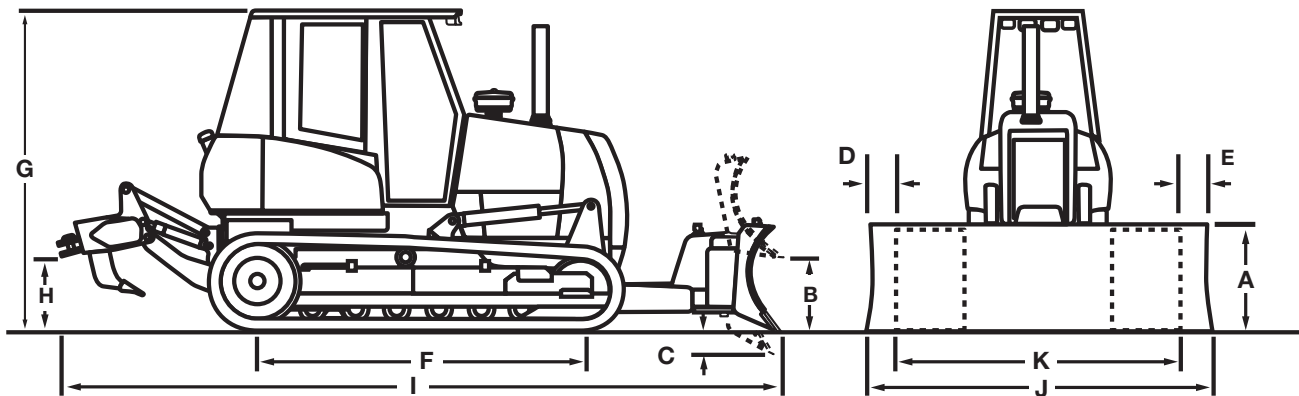
28 in (711 mm) closed grousers and CLT
28 in (711 mm) open grousers and CELT

Blade:

Variable blade pitch	52° – 60°
Lift speed – per second	19.7 in (500 mm)
Cutting edge	Reversible, replaceable
Width	8.0 in (203 mm)
Thickness	0.75 in (19 mm)

Ripper:

Max. penetration	14.2 in (361 mm)
Width	71.1 in (1 806 mm)
Cut width	69.5 in (1 765 mm)
Max. ground clearance	17.7 in (450 mm)
Max. number of shanks	3
Tooth spacing:	
w/ 3 teeth	30.9 in (785 mm)
Hydraulic cylinder	Double-acting
Diameter	3.9 in (99.1 mm)
Stroke	8.4 in (213 mm)
Rod	1.75 in (44.5 mm)



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

DIMENSIONS

Long Track (LT)

Wide Track (WT)

Low Ground Pressure (LGP)

	Long Track (LT)	Long Track (LT)	Wide Track (WT)	Wide Track (WT)	Low Ground Pressure (LGP)
Blade width	104 in (2 640 mm)	112 in (2 845 mm)	112 in (2 845 mm)	120 in (3 048 mm)	124 in (3 150 mm)
SAE blade capacity	2.16 yd ³ (1.65 m ³)	2.35 yd ³ (1.80 m ³)	2.35 yd ³ (1.80 m ³)	2.53 yd ³ (1.93 m ³)	2.62 yd ³ (2.00 m ³)
A. Blade height	36.0 in (910 mm)	36.0 in (910 mm)	36.0 in (910 mm)	36.0 in (910 mm)	36.0 in (910 mm)
B. Blade lift above ground	34.4 in (874 mm)	34.4 in (874 mm)	34.4 in (874 mm)	34.4 in (874 mm)	34.4 in (874 mm)
C. Blade depth below ground	19.0 in (483 mm)	19.0 in (483 mm)	19.0 in (483 mm)	19.0 in (483 mm)	19.0 in (483 mm)
Blade angle both directions	25°	25°	25°	25°	25°
D. Cast reach	-0.4 in (-10.3 mm)	3.7 in (93.4 mm)	-2.7 in (-69.2 mm)	0.7 in (17.5 mm)	0.5 in (12.0 mm)
E. Cut reach	12.8 in (325.6 mm)	16.8 in (425.8 mm)	10.4 in (263.2 mm)	13.9 in (353.4 mm)	13.7 in (348.4 mm)
Blade tilt, each end – up to 8.3°	8.9 in (226 mm)	8.9 in (226 mm)	8.9 in (226 mm)	9.49 in (241 mm)	9.49 in (241 mm)
Track gauge	62.0 in (1.57 m)	62.0 in (1.57 m)	70.0 in (1.78 m)	70.0 in (1.78 m)	70.0 in (1.78 m)
Maximum shoe width	20.0 in (508 mm)	20.0 in (508 mm)	24.0 in (610 mm)	24.0 in (610 mm)	28.0 in (711 mm)
F. Length of track on ground:					
CLT	93.0 in (2.35 m)	93.0 in (2.35 m)	93.0 in (2.35 m)	93.0 in (2.35 m)	93.0 in (2.35 m)
Area of track on ground	3,704 in ² (2.38 m ²)	3,704 in ² (2.38 m ²)	4,448 in ² (2.87 m ²)	4,448 in ² (2.87 m ²)	5,186 in ² (3.34 m ²)
Ground pressure	5.3 psi (0.37 bar)	5.3 psi (0.37 bar)	4.5 psi (0.31 bar)	4.5 psi (0.31 bar)	4.0 psi (0.28 bar)
G. Height to top of cab	9 ft 1 in (2 769 mm)	9 ft 1 in (2 769 mm)	9 ft 1 in (2 769 mm)	9 ft 1 in (2 769 mm)	9 ft 1 in (2 769 mm)
with air conditioning	9 ft 2 in (2 794 mm)	9 ft 2 in (2 794 mm)	9 ft 2 in (2 794 mm)	9 ft 2 in (2 794 mm)	9 ft 2 in (2 794 mm)
H. Ground clearance	14.2 in (361 mm)	14.2 in (361 mm)	14.2 in (361 mm)	14.2 in (361 mm)	14.2 in (361 mm)
Length:					
Blade straight with drawbar	14 ft 5 in (4 394 mm)	14 ft 5 in (4 394 mm)	14 ft 5 in (4 394 mm)	14 ft 5 in (4 394 mm)	14 ft 5 in (4 394 mm)
I. Blade straight with ripper	17 ft 2 in (5 232 mm)	17 ft 2 in (5 232 mm)	17 ft 2 in (5 232 mm)	17 ft 2 in (5 232 mm)	17 ft 2 in (5 232 mm)
Width:					
J. Blade straight	8 ft 8 in (2 642 mm)	9 ft 4 in (2 845 mm)	9 ft 4 in (2 845 mm)	10 ft 0 in (3 048 mm)	10 ft 4 in (3 150 mm)
Blade angled	7 ft 8 in (2 337 mm)	8 ft 6 in (2 590 mm)	8 ft 6 in (2 590 mm)	9 ft 3 in (2 820 mm)	9 ft 4 in (2 845 mm)
K. Over track	6 ft 8 in (2 030 mm)	6 ft 8 in (2 030 mm)	7 ft 10 in (2 390 mm)	7 ft 10 in (2 390 mm)	8 ft 2 in (2 490 mm)

NOTE: Ground clearance and overall height dimensions are with the grousers fully penetrated. Add 2.07 in (52.5 mm) if unit is on solid surface.

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

F4HFE413P
Tier 4 Interim Certified
Automatic fan belt tensioner
Integral engine oil cooling
Fuel filter
Dual element air cleaner
120 amp alternator
925 CCA 24-volt battery
Engine side panels
Anti-freeze to -34° F
Pusher fan

DRIVETRAIN

Dual path infinitely variable, single-lever controlled hydrostatic drive, with electronic straight tracking, power turns and counter-rotation
Final drive:
Triple reduction; helical gear/planetary decelerator with hydrostatic drive retardation
Spring-applied hydraulic release parking brake

BLADE

52° – 60° variable pitch, with integral adjustment tool
Single lever control for blade lift, angle and tilt

UNDERCARRIAGE

Hydraulic track adjusters
Easy clean track covers
Case Lubricated Track Chain
Permanently lubricated track and carrier rollers
Track adjuster guard
Track guides – front and rear
Shock resistance idler mounting

OTHER

Anti-vandalism package
Backup alarm
Horn
Work lights:
2 front
1 rear
Master disconnect switch
Mirror
Pre-cleaner
Front pull hook
Rear transmission guard

TELEMATICS

CASE SiteWatch™ Telematics – includes hardware and a 3-yr Advanced data subscription

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Cab with heat, A/C, defroster, lights
Seat belt – 3 in (76 mm)
Rear wiper for cab
Radio

HYDRAULICS

4-spool hydraulic valve for field-installed ripper

REAR MOUNTED EQUIPMENT

Ripper – 5 position with 3 shanks
Hydraulic pump with PTO
Rear tow hook
Drawbar

BLADES

96 in (2 438 mm)
104 in (2 642 mm)
112 in (2 855 mm)
120 in (3 058 mm)
124 in (3 160 mm)

GUARDS

Sweeps
Center rock guard

SCREENS

Radiator brush screen
Sandblast screen

OTHER

Environmental drains
Case Extended Life Track
Additional work lights
Front counterweight
Blade guidance ready – Trimble
Blade guidance ready – Leica
Blade guidance ready – Topcon
Rearview mirror
Cold start aid – grid heater:
with dual 12-volt battery

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Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.

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