

## ENGINE

Model	FPT F5HFL413J Tier 4 Interim Certified
Cylinders	4
Displacement	207.5 in <sup>3</sup> (3.4 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	92 hp (69 kW)
Gross	96 hp (72 kW)

### Engine lubrication:

Pump	Deep sump plate cooler w/ pressurized under-piston nozzles
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### Pump operating angle ratings:

Side-to-side	35°
Fore and aft	45°
Oil filtration	Replaceable, spin-on full flow cartridge

Radiator:	
Fins per inch	10.16

Fan:	
Diameter	26.6 in (676 mm)
Ratio	1.1:1

## POWERTRAIN

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
Oil filter	4-micron, spin-on, replaceable
Travel speeds*:	
Forward	5.8 mph (9.3 kph)
Reverse	5.8 mph (9.3 kph)
Parking brakes	Heavy-duty, spring-applied, hydraulic release disc
Steering brakes	Hydrostatic
Final drive	2 helical gear reduction to planetary output
Ratio	61.4:1
Transmission cooling:	
Type	Oil to air
Core size	417 in <sup>2</sup> (0.269 m <sup>2</sup> )

NOTE: \*Measured using standard track chain. Increase travel speeds by 4% and reduce drawbar pull by 4% w/ 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.

### 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	20,040 lb (9090 kg)
Wide track	20,679 lb (9380 kg)
Low ground pressure	21,180 lb (9607 kg)

### Add-on weights:

Drawbar	29 lb (38 kg)
Ripper	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 (207 bar):  
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	5.39 in (137.0 mm)

Tilt cylinder	One (1)
Bore diameter	3.50 in (88.9 mm)
Rod diameter	1.75 in (44.4 mm)
Stroke	14.56 in (369.9 mm)

## SERVICE CAPACITY

Fuel tank	50.0 gal (189.0 L)
Engine oil w/ filter	8.45 qt (8.0 L)
Engine oil w/o filter	7.65 qt (7.3 L)
Engine cooling system	5.75 gal (21.8 L)
Hydraulic reservoir	23.75 gal (89.9 L)
Final drive – per side	15.0 qt (14.2 L)
Track rollers – each	0.19 qt (0.18 L)
Front idlers – each	0.42 qt (0.4 L)
Carrier rollers – each	0.25 qt (0.24 L)

## OTHER SPECIFICATIONS

### Undercarriage:

Track adjustment	Hydraulic
Frame	Rigid suspension
Length of track on ground	89.2 in (2266 mm)
Track link pitch	6.73 in (171 mm)
Track shoe height	2.06 in (52.3 mm)
Pin diameter	1.32 in (33 mm)
Bushing diameter:	
CLT track	2.24 in (57 mm)
CELT track	3.0 in (76.2 mm)
Track shoes per side	39
Track rollers per side	6
Carrier rollers per side	1
Track roller rail diameter	7.48 in (190 mm)

### Track on ground:

Shoe area:	
18 in (457 mm)	3,212 in <sup>2</sup> (20 720 cm <sup>2</sup> )
20 in (508 mm)	3,603 in <sup>2</sup> (23 246 cm <sup>2</sup> )
24 in (610 mm)	4,285 in <sup>2</sup> (27 645 cm <sup>2</sup> )
28 in (711 mm)	5,043 in <sup>2</sup> (35 535 cm <sup>2</sup> )

## OTHER SPECIFICATIONS (cont.)

### 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:

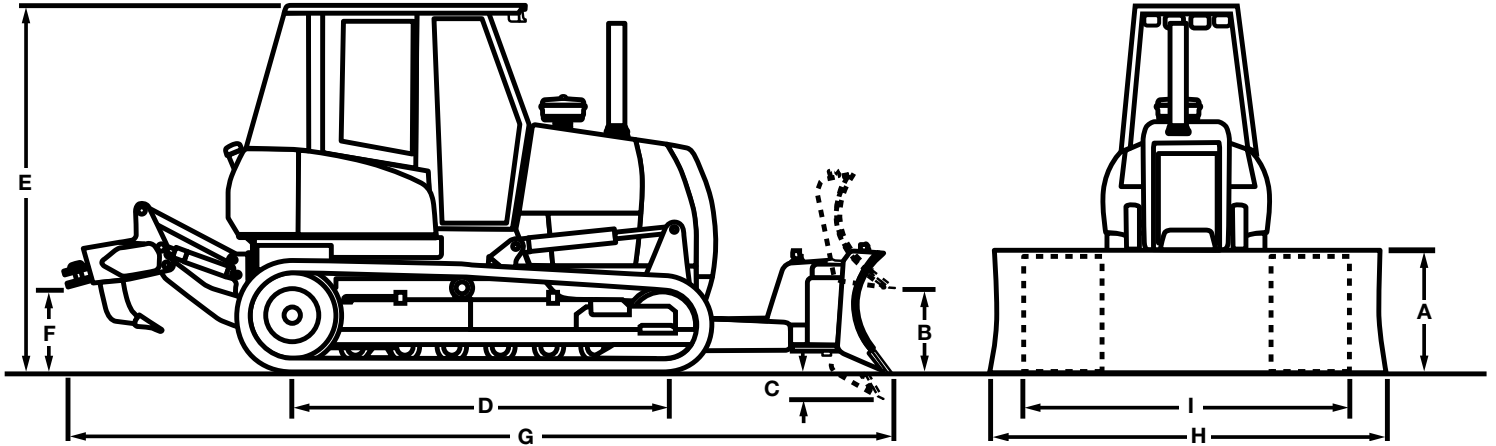
Variable blade pitch 56° +/- 4°  
 Lift speed – per second 19.7 in (500 mm)  
 Cutting edge Reversible, replaceable  
 Width 8.0 in (203 mm)  
 Thickness 0.75 in (19 mm)

### Ripper:

Max. penetration 14.2 in (361 mm)  
 Width 71.1 in (1806 mm)  
 Cut width 69.5 in (1765 mm)

### Ripper (continued):

Max. ground clearance 16.4 in (417 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 mm)  
 Stroke 8.4 in (213 mm)  
 Rod 1.75 in (44 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)
Blade width	96 in (2438 mm)	112 in (2845 mm)	120 in (3048 mm)
SAE blade capacity	1.69 yd <sup>3</sup> (1.29 m <sup>3</sup> )	2.00 yd <sup>3</sup> (1.53 m <sup>3</sup> )	2.15 yd <sup>3</sup> (1.64 m <sup>3</sup> )
<b>A.</b> Blade height	33.1 in (841 mm)	33.1 in (841 mm)	33.1 in (841 mm)
<b>B.</b> Blade lift above ground	33.58 in (853 mm)	33.58 in (853 mm)	33.58 in (853 mm)
<b>C.</b> Blade depth below ground	20.91 in (531 mm)	20.91 in (531 mm)	20.91 in (531 mm)
Blade angle both directions	25°	25°	25°
Blade tilt, each end (up to 8.3°)	7.60 in (193 mm)	8.90 in (226 mm)	9.49 in (241 mm)
Track gauge	62 in (1.57 m)	70 in (1.78 m)	70 in (1.78 m)
Maximum Shoe width	20 in (508 mm)	24 in (610 mm)	28 in (711 mm)
<b>D.</b> Length of track on ground:			
CLT	89.2 in (2.26 m)	89.2 in (2.26 m)	89.2 in (2.26 m)
CELT	90.1 in (2.28 m)	90.1 in (2.28 m)	90.1 in (2.28 m)
Area of track on ground	3,603 in <sup>2</sup> (2.32 m <sup>2</sup> )	4,285 in <sup>2</sup> (2.32 m <sup>2</sup> )	5,043 in <sup>2</sup> (3.25 m <sup>2</sup> )
Ground pressure	5.36 psi (0.37 bar)	4.61 psi (0.32 bar)	4.04 psi (0.28 bar)
<b>E.</b> Height to top of cab with air conditioning	9 ft 3 in (2819 mm) 9 ft 3 in (2819 mm)	9 ft 3 in (2819 mm) 9 ft 3 in (2819 mm)	9 ft 1 in (2769 mm) 9 ft 1 in (2769 mm)
<b>F.</b> Ground clearance	14.0 in (355 mm)	14.0 in (355 mm)	14.0 in (355 mm)
Length:			
Blade straight with drawbar	14 ft 1 in (4284 mm)	14 ft 1 in (4284 mm)	14 ft 1 in (4284 mm)
<b>G.</b> Blade straight with ripper	16 ft 7 in (5086 mm)	16 ft 7 in (5086 mm)	16 ft 7 in (5086 mm)
Width:			
<b>H.</b> Blade straight	8 ft 0 in (2438 mm)	9 ft 4 in (2845 mm)	10 ft 0 in (3048 mm)
Blade angled	7 ft 8 in (2337 mm)	8 ft 8 in (2642 mm)	9 ft 3 in (2819 mm)
<b>I.</b> Over track	6 ft 10 in (2083 mm)	7 ft 8 in (2337 mm)	8 ft 2 in (2489 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

F5HFL413J

Tier 4 Interim Certified

Cold start aid – glow plugs  
with standard dual 12-volt batteries

Automatic fan belt tensioner

Integral engine oil cooling

Fuel filter

Dual element air cleaner

120 amp alternator

950 CCA 12-volt battery

Anti-sandblast radiator

Engine side panels

### POWERTRAIN

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

## 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 (2438 mm)

104 in (2642 mm)

112 in (2855 mm)

120 in (3058 mm)

124 in (3160 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



NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

NOTE: All engines meet current EPA emissions requirements.

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