

ENGINE

| | |
|------------------------------------|---|
| Model | FPT F4HFE413P 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 | 2220 +/- 50 |
| Rated – full load | 2000 |
| Low idle | 1100 +/- 25 |
| Horsepower @ 2220 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 |
| 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 | 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% w/ the optional CELT track chain.

ELECTRICAL

| | |
|-------------------|---|
| Alternator | 120 amp |
| Batteries | (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

| | |
|---------------------|-----------------------|
| 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 | 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) |

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

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 | 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) |

OTHER SPECIFICATIONS (CONTINUED)

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

Track (continued):

Low ground pressure:

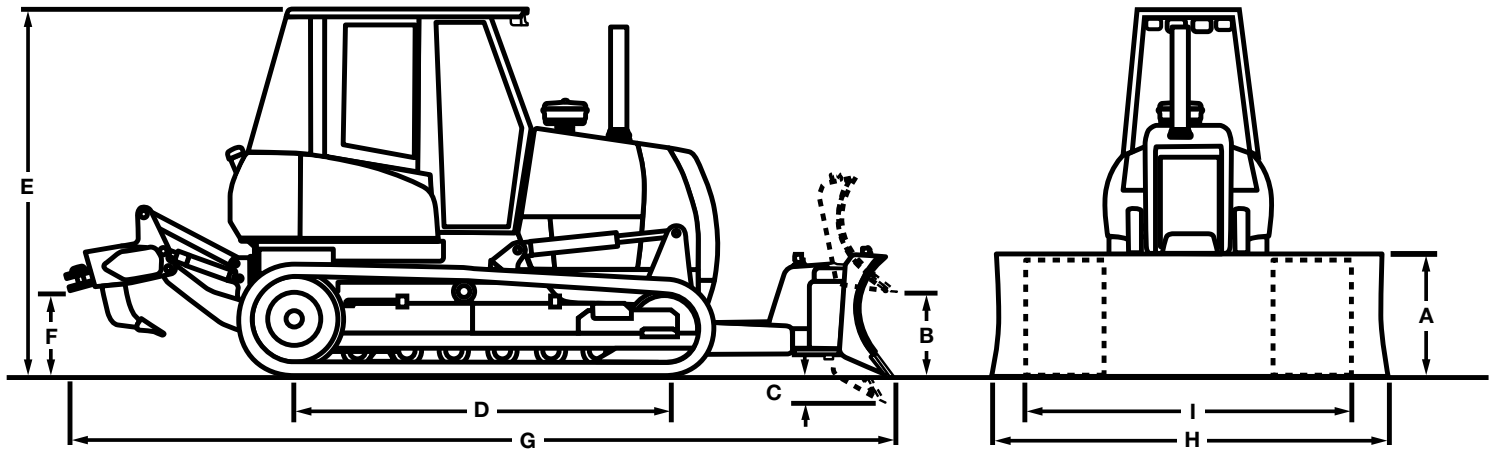
28 in (711 mm) closed grousers and CLT
28 in (711 mm) open grousers and CELT

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 (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:
with 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) |
|---|--|--|--|--|--|
| 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° |
| 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) |
| D. 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) |
| E. Height to top of cab with air conditioning | 9 ft 1 in (2 769 mm) 9 ft 2 in (2 794 mm) | 9 ft 1 in (2 769 mm) 9 ft 2 in (2 794 mm) | 9 ft 1 in (2 769 mm) 9 ft 2 in (2 794 mm) | 9 ft 1 in (2 769 mm) 9 ft 2 in (2 794 mm) | 9 ft 1 in (2 769 mm) 9 ft 2 in (2 794 mm) |
| F. 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) |
| G. 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: | | | | | |
| H. 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) |
| I. 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 (2 630 mm)

112 in (2 855 mm)

120 in (3 050 mm)

124 in (3 150 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



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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