

### ENGINE

|                                    |                                           |
|------------------------------------|-------------------------------------------|
| Model                              | FPT F4HFE413P<br>Tier 4 Interim Certified |
| Cylinders                          | 4                                         |
| Displacement                       | 275 in <sup>3</sup> (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<br>w/ pressurized under-piston nozzles |
| Pump operating angle ratings: |                                                               |
| Side-to-side                  | 35°                                                           |
| Fore and aft                  | 45°                                                           |
| Oil filtration                | Replaceable, spin-on<br>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<br>electronic straight tracking  |
| Oil filter             | 4-micron, spin-on, replaceable                        |
| Travel speeds*:        |                                                       |
| Forward                | 5.2 mph (8.4 kph)                                     |
| Reverse                | 5.2 mph (8.4 kph)                                     |
| Parking brakes         | Heavy-duty, spring-applied,<br>hydraulic release disc |
| Steering brakes        | Hydrostatic                                           |
| Final drive            | 2 helical gear<br>reduction to planetary output       |
| Ratio                  | 62.4:1                                                |
| Transmission cooling:  |                                                       |
| Type                   | Oil to water                                          |
| Core size              | 417 in <sup>2</sup> (0.27 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                                                                 |
| Batteries         | (2) 12-volt, low-maintenance<br>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:

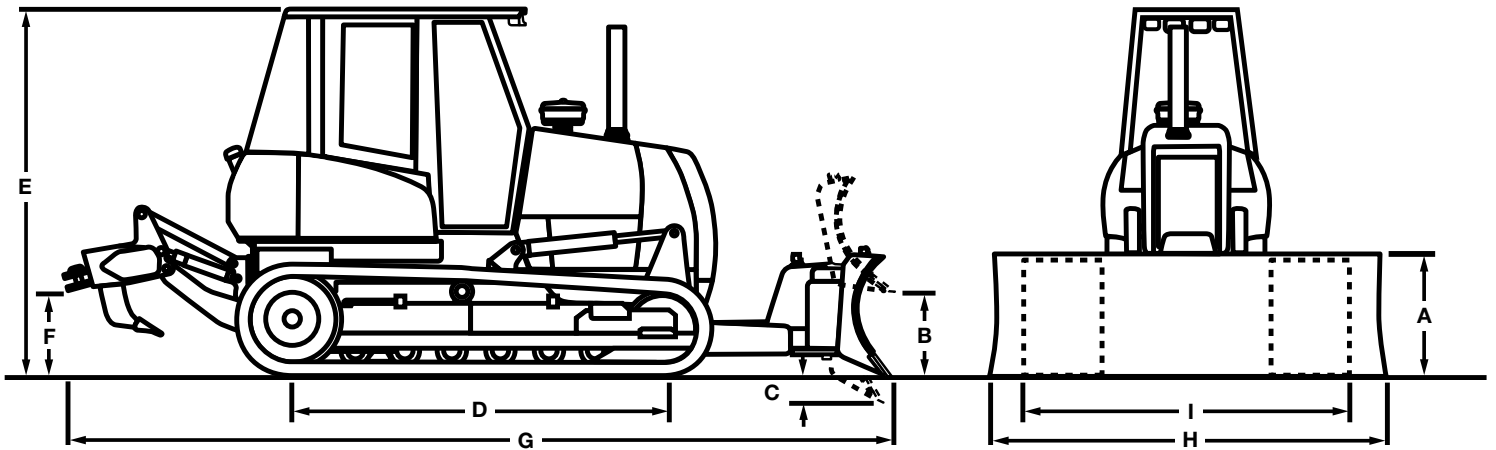
|                |                                                 |
|----------------|-------------------------------------------------|
| Shoe area:     |                                                 |
| 18 in (457 mm) | 3,334 in <sup>2</sup> (21 507 cm <sup>2</sup> ) |
| 20 in (508 mm) | 3,704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

## OTHER SPECIFICATIONS (CONTINUED)

|                                        |  |
|----------------------------------------|--|
| <b>Track:</b>                          |  |
| 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  |  |

|                                        |                         |
|----------------------------------------|-------------------------|
| <b>Track (continued):</b>              |                         |
| Low ground pressure:                   |                         |
| 28 in (711 mm) closed grousers and CLT |                         |
| 28 in (711 mm) open grousers and CELT  |                         |
| <b>Blade:</b>                          |                         |
| 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)         |

|                       |                    |
|-----------------------|--------------------|
| <b>Ripper:</b>        |                    |
| 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 <sup>3</sup> (1.65 m <sup>3</sup> )  | 2.35 yd <sup>3</sup> (1.80 m <sup>3</sup> )  | 2.35 yd <sup>3</sup> (1.80 m <sup>3</sup> )  | 2.53 yd <sup>3</sup> (1.93 m <sup>3</sup> )  | 2.62 yd <sup>3</sup> (2.00 m <sup>3</sup> )  |
| <b>A.</b> 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>B.</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)                             |
| <b>C.</b> 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)                             |
| <b>D.</b> 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 <sup>2</sup> (2.38 m <sup>2</sup> ) | 3,704 in <sup>2</sup> (2.38 m <sup>2</sup> ) | 4,448 in <sup>2</sup> (2.87 m <sup>2</sup> ) | 4,448 in <sup>2</sup> (2.87 m <sup>2</sup> ) | 5,186 in <sup>2</sup> (3.34 m <sup>2</sup> ) |
| 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)                           |
| <b>E.</b> 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)                         |
| <b>F.</b> 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)                        |
| <b>G.</b> 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:                               |                                              |                                              |                                              |                                              |                                              |
| <b>H.</b> 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)                         |
| <b>I.</b> 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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