



ENGINE

| | |
|------------------------------------|---|
| Model | FPT F4HFE413P*A008 |
| Emissions Certification | Tier 4 Final Certified |
| Cylinders | 4 |
| Displacement | 275 in3 (4.5 L) |
| Fuel injection | Common rail |
| Fuel | Diesel |
| Fuel filter | Spin-on w/ in-line strainer |
| Air intake | Cross-flow |
| Cooling | Liquid |
| Engine speeds | RPM |
| High idle - no load | 2000 |
| Rated - full load | 2000 +/- 50 |
| 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* | 41,010 lb (182.4 kN) |
| Transmission | Single lever control – electronic straight tracking |
| Transmission oil filter | 4 micron, spin-on replaceable w/ 100 mesh suction screen |
| Travel speeds*: | |
| Forward | 5.4 mph (8.7 kph) |
| Reverse | 5.4 mph (8.7 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 air |
| Core size | 417 in2 (0.27 m2) |

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

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 | 21,980 lb (9 970 kg) |
| Wide track | 22,750 lb (10 320 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) |
| Max-Life chain: | |
| 18 in (457 mm) | 39 lb (17.7 kg) |
| 20 in (508 mm) | 39 lb (17.7 kg) |
| 24 in (610 mm) | 87 lb (39 kg) |
| 28 in (711 mm) | 87 lb (39 kg) |
| Center rockguard | 326 lb (148 kg) |
| Sweeps | 139 lb (63 kg) |

HYDRAULICS

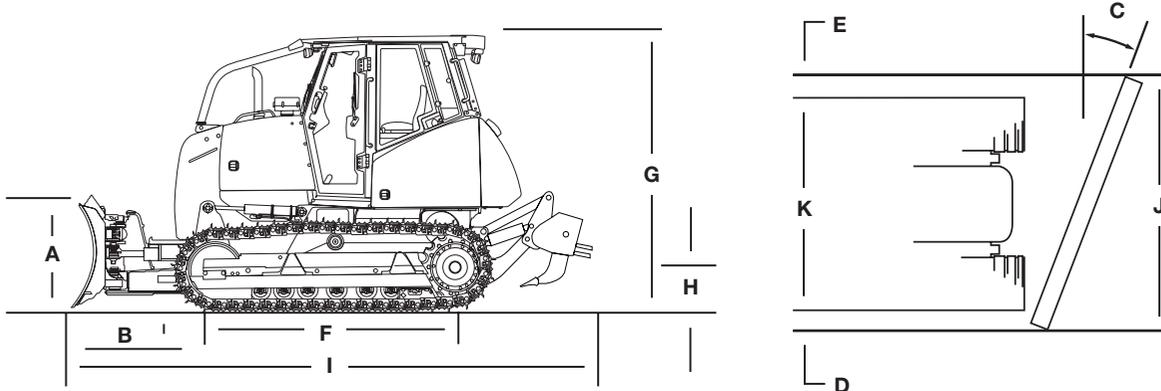
| | |
|--|-----------------------|
| Pump flow @ 2000 RPM @ 3,000 psi (20 684 kPA) | 20.3 gpm (78.8 L/min) |
| Lift cylinder | Two (2) |
| Bore diameter | 3.50 in (88.9 mm) |
| Rod diameter | 1.75 in (44.4 mm) |
| Stroke | 14.26 in (362.1 mm) |
| Angle cylinder | Two (2) |
| Bore diameter | 3.50 in (88.9 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 | 26 gal (98.4 L) |
| Track rollers – each | 0.27 qt (0.26 L) |
| Front idlers | 0.35 qt (0.33 L) |
| Carrier rollers – each | 0.20 qt (0.19 L) |
| SALT HD & Max-life – each pin | 12.0 gal (45.4 L) |

OTHER SPECIFICATIONS

| | | | | | |
|----------------------------|--------------------|----------------------------|---|-----------------------|---------------------|
| Undercarriage: | | Track roller rail diameter | 7.48 in (190 mm) | Thickness | |
| Track adjustment | Hydraulic | Track on ground: | | 104 in | 0.75 in (19.05 mm) |
| Frame | Rigid suspension | Shoe area: | | 112 in | 0.62 in (15.875 mm) |
| Length of track on ground: | | 18 in (457 mm) | 3,334 in ² (21 507 cm ²) | Ripper: | |
| SALT-HD | 92.6 in (2 352 mm) | 20 in (508 mm) | 3,704 in ² (23 896 cm ²) | Max. penetration: | 14.0 in (355 mm) |
| MAX LIFE | 93.4 in (2 373 mm) | 24 in (610 mm) | 4,448 in ² (28 694 cm ²) | Width | 73.1 in (1 856 mm) |
| Track link pitch | 6.73 in (171 mm) | 28 in (711 mm) | 5,184 in ² (33 445 cm ²) | Cut width | 70.1 in (1 781 mm) |
| Track shoe height | 2.09 in (53 mm) | Track: | | Max. ground clearance | 16.8 in (426 mm) |
| Pin diameter | 1.42 in (36 mm) | Long Track: | 20 in (508 mm) open grousers and MAX LIFE | Max. number of shanks | 3 |
| Bushing diameter: | | Wide track: | 24 in (610 mm) open grousers and MAX LIFE | Tooth spacing: | |
| SALT HD | 2.39 in (60.7 mm) | Blade: | | w/ 3 teeth | 30.9 in (785 mm) |
| MAX LIFE | 3.15 in (80 mm) | Variable blade pitch | 52° – 60° | Hydraulic cylinder | Double-acting |
| Track shoes per side | 40 | Lift speed – per second | 19.7 in (500 mm) | Diameter | 3.9 in (99.1 mm) |
| Track rollers per side | 7 | Cutting edge | Reversible, replaceable | Stroke | 8.4 in (213 mm) |
| Carrier rollers per side | 1 | Width | 8.0 in (203 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) |
|--|--|--|
| Blade width | 104 in (2 640 mm) | 112 in (2 845 mm) |
| SAE blade capacity | 2.16 yd ³ (1.65 m ³) | 2.35 yd ³ (1.80 m ³) |
| A. Blade height | 36.0 in (910 mm) | 36.0 in (910 mm) |
| B. Blade lift above ground | 34.0 in (864 mm) | 34.0 in (864 mm) |
| C. Blade depth below ground | 19.2 in (488 mm) | 19.2 in (488 mm) |
| Blade angle both directions | 25° | 25° |
| D. Cast reach | -0.7 in (-17.3 mm) | -2.6 in (-66.5 mm) |
| E. Cut reach | 12.5 in (318.1 mm) | 10.5 in (265.7 mm) |
| Blade tilt, each end – up to 8.3° | 8.9 in (226 mm) | 8.9 in (226 mm) |
| Track gauge | 62.0 in (1.57 m) | 70.0 in (1.78 m) |
| Maximum shoe width | 20.0 in (508 mm) | 24.0 in (610 mm) |
| F. Length of track on ground: | | |
| SALT HD | 92.6 in (2 352 mm) | 92.6 in (2 352 mm) |
| MAX LIFE | 93.4 in (2 373 mm) | 93.4 in (2 373 mm) |
| Area of track on ground | 3,704 in ² (2.38 m ²) | 4,448 in ² (2.87 m ²) |
| Ground pressure | 5.3 psi (0.37 bar) | 4.5 psi (0.31 bar) |
| G. 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) |
| H. Ground clearance | 14.4 in (366 mm) | 14.4 in (366 mm) |
| Length: | | |
| Blade straight with drawbar | 14 ft 9 in (4 567 mm) | 14 ft 9 in (4 567 mm) |
| I. Blade straight with ripper | 17 ft 8 in (5 277 mm) | 17 ft 8 in (5 277 mm) |
| Width: | | |
| J. Blade straight | 8 ft 8 in (2 642 mm) | 9 ft 4 in (2 845 mm) |
| Blade angled | 8 ft 1 in (2 440 mm) | 9 ft 0 in (2 587 mm) |
| K. Over track | 6 ft 9 in (2 066 mm) | 7 ft 4 in (2 322 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*A008
Tier 4 Final 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

104 in (2 642 mm)
112 in (2 855 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