



## ENGINE

FPT F5HFL413J*A002
Tier 4 Final Certified
4
207.5 in3 (3.4 L)
Common rail
Diesel
Spin-on w/ in-line strainer
Cross-flow
Liquid
RPM
2200 +/- 50
2200
1100 +/- 25
1349:
92 hp (69 kW)
96 hp (72 kW)
Deep sump plate cooler
pressurized under-piston nozzles
35°
45°
Replaceable, spin-on
full-flow cartridge
10.16
26.0 in (662 mm)
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	5.2 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	61.4:1
Transmission cooling:	
Туре	Oil to air
Core size	199.5 in2 (1 287 cm2)

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.

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 (9 090 kg)
Wide track	20,679 lb (9 380 kg)
Low ground pressure	20,666 lb (9 374 kg)
Add-on weights:	
Drawbar	84 lb (38 kg)
Ripper – 3 shank	1,400 lb (635 kg)
Winch	1,960 lb (889 kg))
Front counterweight	827 lb (375 kg)
Cab	560 lb (254 kg)
Max-Life chain:	
18 in (457 mm)	92 lb (42 kg)
20 in (508 mm)	97 lb (44 kg)
24 in (610 mm)	93 lb (42 kg)
28 in (711 mm)	92 lb (42 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 (394.5 mm)
Angle cylinder	Two (2)
Bore diameter	3.50 in (88.9 mm)
Rod diameter	1.75 in (44.4 mm)
Stroke	13.46 in (342.0 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	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	26 gal (98.4 L)
Final drive – per side	15.0 qt (14.2 L)
Track rollers – each	0.27 qt (0.26 L)
Front idlers – each	0.35 qt (0.33 L)
Carrier rollers – each	0.2 qt (0.19 L)
SALT HD & Max-life – each pin	0.68 oz (20 ml)



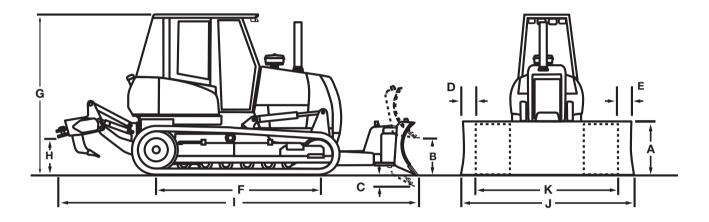
# **750M** CRAWLER DOZER LT/WT

TIER 4 FINAL CERTIFIED

# OTHER SPECIFICATIONS

<b>OTHER SPECIFIC</b>	CATIONS	Track shoes per side	39	Lift speed – per second
Undercarriage: Track adjustment Frame Length of track on ground: SALT-HD Max-Life Track link pitch Track shoe height	Hydraulic Rigid suspension 89.2 in (2 266 mm) 90.1 in (2 288 mm) 6.75 in (171.45 mm) 1.85 in (47 mm)	Track rollers per side Carrier rollers per sid Track roller rail diam Track on ground: Shoe area: 18 in (457 mm) 20 in (508 mm) 24 in (610 mm) 28 in (711 mm)	le 1	Cutting edge Width Thickness Ripper: Max. penetration: Width Cut width Max. ground clearance
Pin diameter Track link pitch Track shoe height Pin diameter Bushing diameter: SALT track Max-Life track	k link pitch 6.73 in (171 mm) k shoe height 2.06 in (52.3 mm) liameter 1.32 in (33 mm) ing diameter: track 2.24 in (57 mm)	Track: Long Track: Wide track: Blade: Variable blade pitch	4,993 III2 (32 223 CIII2) 18 in (457 mm) open grousers and Max-Life 24 in (610 mm) open grousers and Max-Life 52° – 60°	Max. number of shanks Tooth spacing: w/ 3 teeth Hydraulic cylinder Diameter Stroke Rod

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:	14.4 in (365 mm)
Width	71.1 in (1 806 mm)
Cut width	69.5 in (1 765 mm)
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)
Blade width	96 in (2 438 mm)	112 in (2845 mm)
SAE blade capacity	1.69 yd3 (1.29 m3)	1.94 yd3 (1.48 m3)
A. Blade height	33.1 in (841 mm)	33.1 in (841 mm)
B. Blade lift above ground	33.85 in (860 mm)	33.85 in (860 mm)
C. Blade depth below ground	22.84 in (580 mm)	22.84 in (580 mm)
Blade angle both directions	22.7°	22.7°
D. Cast reach	9.11 in (231.3 mm)	9.31 in (236.6 mm)
E. Cut reach	-2.63 in (-66.8 mm)	-2.42 in (-61.5 mm)
Blade tilt, each end – up to 9.7°	8.15 in (207 mm)	9.29 in (236 mm)
Track gauge	62 in (1.57 m)	70 in (1.78 m)
Maximum shoe width	20 in (508 mm)	24 in (610 mm)
F. Length of track on ground: Max-Life	90.1 in (2.28 m)	90.1 in (2.28 m)
Area of track on ground	3,569 in2 (2.3 m2)	4,285 in2 (2.76 m2)
Ground pressure	5.36 psi (0.37 bar)	4.61 psi (0.32 bar)
G. Height to top of ROPS canopy with air conditioning	9 ft 1 in (2 755 mm)	9 ft 1 in (2 755 mm)
H. Ground clearance	14.0 in (355 mm)	14.0 in (355 mm)
Length:		
Blade straight with drawbar	14 ft 1 in (4 284 mm)	14 ft 1 in (4 284 mm)
I. Blade straight with ripper	16 ft 8 in (5 110 mm)	16 ft 8 in (5 110 mm)
Width:		
J. Blade straight	8 ft 0 in (2 438 mm)	9 ft 1 in (2 796 mm)
Blade angled	7 ft 7 in (2 316 mm)	8 ft 7 in (2 625 mm)
K. Over track	6 ft 5 in (1 984 mm)	7 ft 6 in (2 290 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

#### FPT F5HFL413J\*A002 Tier 4 Final 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 Engine side panels

#### DRIVETRAIN

Dual path infinitely variable, single-lever controlled hydrostatic drive, with electronic straight tracking, power turns and counterrotation

# Final drive:

Triple reduction; helical gear/planetary decelerator with hydrostatic drive retardation

Spring-applied hydraulic release parking brake

#### BLADE

 $52^{\circ} - 60^{\circ}$  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

Backup alarm Horn Work lights: 2 front 1 rear Master disconnect switch Mirror Pre-cleaner Front pull hook

## **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)

#### **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