



ENGINE

Model	FPT F5B FL413 E*B002
Emissions Certification	Tier 4 Final
Type Diese	el, Turbo – Direct Injection
Cylinders	4
Bore/Stroke	3.9 x 4.3 in (99 x 110 mm)
Displacement	207 in ³ (3.4 L)
Fuel injection	Direct
Fuel	#2 Diesel
Fuel filter: Pre-filter Main filter	Beta (30) = 200/spin-on Beta (4) = 20/spin-on
Air intake gate	Turbocharged w/ waste and external cooled EGR
Exhaust aftertreatment	Selective Catalytic Reduction (SCR)
Cooling	Liquid
Engine speeds High idle – no load Rated – full load Low idle	RPM 2500 +/- 25 2500 1150 +/- 25
Horsepower @ 2500 R Gross Net	PM – SAE J1349: 90 hp (67 kW) 84 hp (63 kW)
Peak torque @ 1400 R	PM 282 lb·ft (383 N·m)
Radiator: Core type Core size area Rows of tubes x colu Cap pressure	Aluminum Bar and Plate 319 in² (0.206 m²) mns 21 16 +/- 2 psi (1.10 +/- 0.14 bar)
Fan: Diameter Ratio 0.96:1	22 in (560 mm) standard, 1.1:1 high-flow
Water pump: Style Flow	Centrifugal 47.8 gpm (181 L/min)
Engine lubrication pum Rotor pump w/ deep and pressurized under	sump pan, plate cooler
Pump operating angle Side to side Bucket up	ratings: 45° 35°

45°

Bucket Down

DRIVETRAIN

Drive pump controls Pump to engine ratio Displacement Flow @ rated engine F @ 97% efficiency Charge pressure System relief pressure	29.4 gpm (111 L/min) 360 psi (24.5 bar)		
Drive pump controls Pump to engine ratio Displacement Flow @ rated engine F @ 97% efficiency Charge pressure System relief pressure	28.8 gpm (109 L/min) 362 psi (25.0 bar)		
Drive motors: Max. displacement 3.10 in ³ (50.9 cm ³) Displacement – optional: High speed 2.02 in ³ (33.1 cm ³) Motor RPM @ high idle and 97% efficiency: Standard 1-speed 103 Optional 2-speed 156 Motor torque @ max. displacement and relief pressure, calculated @ 5,220 psi (360 bar): 4,654 lb·ft (6 310 N·m)			
Travel speed: 5.1 mph (8.2 kph) Low range 5.1 mph (8.2 kph) High range – optional 7.6 mph (12.2 kph)			
Planetary gearbox w/ 2-speed motor Tractive effort 7,414 lb (3 370 kg)			
	(9, 0, 0, 0, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		
Engagement De	Spring-applied, hydraulic release multiple disc. press on/off brake button andle or instrument panel,		
raise seat bar, get off seat or stop engine.			

ELECTRICAL		
Alternator	160 amp	
Starter	4.29 hp (3.2 kW)	
Battery	12-volt low-maintenance	
1,000 cold-cranking amps @ 0° F (-18° C°)		

OPERATOR ENVIRONMENT

Enclosed Cab w/ Heater and AC; Fully sealed and pressurized – FSP; Glass door w/ wiper and washer; Sliding side windows – removable; Heater and air conditioner; AM/FM radio w/ 2 speakers; Keyless start ignition; Tilt ROPS/FOPS; Rear window w/ emergency escape; Deluxe cloth, air suspension seat, w/ 2 in (51 mm) retractable 3 point lap seat belt w/ heater and lumbar support; Hand and Foot throttle; Alarm package – back-up and horn; Headliner; Dome Light; Top window; Cup holder; 12V Power plug socket; Foot rest; Seat Pocket; Padded seat bar w/ integral armrests; Loader control lockout system; Electric parking brake control; Operator's compartment floor cleanout; Proportional auxiliary



diagnostic features and Warning lights with alar Engine coolant tempe	igital hour meter, LCD bar graph w/ alarm, I security lockout. ms: rature; Engine oil pressure; ydraulic charge pressure; ion; Hydraulic oil
system, Hydraulic sys diagnostic system.	
Warning alarms: Battery voltage – plus	display; Oil service.
Indicator light: Engine preheat; Parkin Seat bar reminder.	ng brake;
OPERATING WEIGHT	
Operating Weight	10,550 lb (4 785 kg)
Shipping weight	10,207 lb (4 630 kg)
Add-on weights: Side cab glass Polycarbonate cab do Glass cab door w/ wip Suspension seat Additional counterweig	ber 75 lb (34.0 kg) 22 lb (10.0 kg)
HYDRAULICS	
Implement pump type	Gear
Displacement: Standard aux. High-flow aux.	2.23 in ³ (36.6 cm ³) 1.24 in ³ (20.4 cm ³)
Standard flow @ rated @ 100% efficiency	engine RPM: 24.2 gpm (91.5 L/min)
Optional high-flow @ ra @ 100% efficiency	37.6 gpm (142.5 L/min)
Enhanced high-flow @ @ 100% efficiency	rated engine RPM: 35.0 gpm (132.5 L/min)
	pen center/series - series 3,046 psi (210 bar)
Port relief pressures: Loader raise Bucket curl Bucket dump	3,263 psi (225 bar) 3,770 psi (260 bar) 1,160 psi (80 bar)
Hydraulic lines: Tubing Loop hoses	37° JIC Flare SAE 100 R19
Hydraulic oil cooler: Number of fins Number of tube rows Area	10 per inch (3.94 per cm) x columns 9 bar/plate 130.7 in² (843.2 cm²)
Hydraulic filter	Beta (4) = 75/spin-on
Lift cylinders: Bore diameter Rod diameter Stroke Closed length	2.75 in (69.85 mm) 2.00 in (50.8 mm) 34.90 in (886.5 mm) 47.40 in (1 205.0 mm)
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Bucket cylinders:	
Bore diameter	
Rod diameter	
Stroke	
Closed length	

3.0 in (76.2 mm)
1.5 in (38.1 mm)
()
16.4 in (410.0 mm)
24.0 in (610.0 mm)
24.0 11 (010.0 1111)

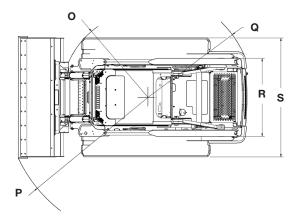
SERVICE CAPACITIES	
	-

Fuel Tank	25.5 gal (96.5 L)		
Engine oil w/ filter	8.9 qt (8.5 L)		
Hydraulic system:			
Reservoir	6.0 gal (22.7 L)		
Total	11.9 gal (45.4 L)		

Diesel Exhaust Fluid (DEF) Tank 2.8 gal (10.7 L)

PERFORMANCE SPECS			
Rated operating capacity – F 35% of tipping load 50% of tipping load w/ additional counterweigh	2,660 lb (1 209 kg) 3,800 lb (1 723 kg)		
Tipping load*	7,600 lb (3 447 kg)		
Breakout forces @ 3,150 psi (217 bar)*: Bucket cylinders 8,776 lb (39.0 kN) Lift cylinders – hydraulic limit 6,300 lb (28.0 kN)			
Cycle times: Raise Lower Dump Roll back	4.7 sec 2.7 sec 2.6 sec 2.0 sec		

NOTE: *Measured using 78 in (1.98 m) foundry/ excavating bucket.



Line drawings are for illustrative purpose only and may not be exact representation of unit.

DIMENSIONS	
A. Overall operating height: with foundry/excavating bucket with heavy-duty dirt bucket	161.9 in (4.11 m) 166.0 in (4.22 m)
with low profile extended bucket	171.0 in (4.34 m)
Height to: B. Bucket hinge pin C. Top of ROPS D. Bottom of level bucket, fully raised	131.6 in (3.34 m) 80.4 in (2.04 m) 124.8 in (3.17 m)
Overall length: E. without attachment with coupler F. with foundry/excavating bucket on ground with heavy-duty bucket with low profile extended bucket	119.1 in (2.99 m) 143.2 in (3.60 m) 147.3 in (3.71 m) 152.4 in (3.84 m)
G. Maximum dump angle	53.5°
 H. Dump height: with foundry/excavating bucket with low profile bucket 	105.1 in (2.67 m) @ 45° 102.2 in (2.60 m) @ 45°
I. Dump reach at maximum height with heavy-duty dirt bucket	31.4 in (0.80 m) @ 45°
Maximum attachment rollback: J. Bucket on ground K. Bucket at full height	34.2° 86.0°
L. Track on ground	64.5 in (1.64 m)
M. Ground clearance – bottom of belly pan	9.5 in (0.24 m)
N. Angle of departure	32.0°
Clearance circle: 0. without bucket P. with 72 in (1.83 m) foundry/excavating bucket in carry position with 72 in (1.83 m) heavy-duty bucket on ground with 72 in (1.83 m) extended low profile on ground	56.2 in (1.43 m) 87.7 in (2.16 m) 91.5 in (2.25 m) 96.0 in (2.35 m)
Q. Clearance circle rear	71.2 in (1.79 m)
R. Track gauge	58.3 in (1.48 m)
S. Over the track width	76.0 in (1.93 m)

TRACK SELECTION			
Туре	Area	Ground Pressure	Width to Outside Track
17.7 in (450 mm)	2,286 in ² (14 750 cm ²)	4.4 psi (30 kPa)	76 in (1.93 m)

OPTIONAL BUCKETS			
Туре	Width	Weight	Heaped Capacity
Dirt & Foundry	78 in (1.98 m)	440 lb (200 kg)	17.7 ft³ (0.50 m³)
Low Profile Extended	78 in (1.98 m)	540 lb (245 kg)	19.1 ft³ (0.54 m³)
	84 in (2.13 m)	575 lb (262 kg)	20.5 ft ³ (0.58 m ³)
Light Material	84 in (2.13 m)	540 lb (245 kg)	27.5 ft ³ (0.78 m ³)
Manure & Slurry	84 in (2.13 m)	545 lb (248 kg)	22.6 ft ³ (0.64 m ³)
Heavy-Duty	78 in (1.98 m)	530 lb (240 kg)	15.5 ft³ (0.44 m³)
	84 in (2.13 m)	550 lb (250 kg)	17.0 ft ³ (0.48 m ³)
Heavy-Duty with spillguard	78 in (1.98 m)	605 lb (275 kg)	19.8 ft³ (0.56 m³)
	84 in (2.13 m)	640 lb (290 kg)	21.5 ft ³ (0.61 m ³)

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

FPT F5H FL463 A*F001 207 CID (3.4 L) Turbo Tier 4 Final Certified Diesel Oxidation Catalyst (DOC) with Selective Catalytic Reduction (SCR) muffler Charged Air Cooler (CAC) High Pressure Common Rail (HPCR) fuel injection Horsepower: Gross: 90 hp (67 kW) Net: 84 hp (63 kW) Peak torque 282 lb·ft (383 N·m) 120 amp alternator Dual element air cleaner Organic Acid Technology (OAT) Anti-freeze solution to -34° F Fuel tank - 25.5 gal (U.S.) Over and under radiator and oil cooler 3-stack after cooler/radiator/oil cooler configuration Glow plugs Integral engine oil cooler Fuel filter with water trap 1,000 CCA 12V battery Master electrical disconnect

DRIVETRAIN

2-speed hydrostatic four wheel drive SAHR disc parking brake

HYDRAULICS

Auxiliary hydraulics: @ 3,050 psi (210 bar) – 24.2 gpm (91.5 L/min) 6 micron oil filtration system 3-spool loader control valve Auxiliary hydraulic disconnects, ISO flat-face – connect-under-pressure

- with case drain Hydraulic circuit pedal lock Auxiliary function lockout override Loader lift lockout override Heavy-duty hydraulic oil cooler
- Loader arm float position
- Loader function lockout system
- Hydraulic one-way self-leveling Ride control

LOADER

Heavy Duty Hydraulic attachment coupler Vertical Lift Geometry Loader lift arm support strut SAE operating load: 3,800 lbs Tipping load: 7,600 lbs In-CAB loader lock

TRACKS

HiQual S-Wave Tracks

OTHER STANDARD FEATURES

Halogen lights - 2 front, 2 side, 2 rear flood Heavy duty front lights Pre-wired for rotating beacon Lockable service access hood Single-point daily servicing Rear tail lights Remote oil drain Remote oil and fuel filters Block heater Debris ingression sealing Machine protection auto shutdown Mounting points for add-on counterweights Heavy duty rear door

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

ROPS/FOPS Level 1 canopy with side screens Keyed start ignition Ventilation system with integrated heater Electro-hydraulic controls: For drive/steering, loader functions Switchable between H and ISO patterns Adjustable sensitivity of controls Mechanical hand controls Hand and foot controls: Hand controls the loader drive function and foot controls the bucket and boom Non suspension seat Suspension seat, vinyl Open cab interior trim package Demolition cab door with polycarbonate FOPS Level 2

HYDRAULICS

High-flow auxiliary hydraulics - combined: @ 3,050 psi (210 bar) - 37.6 gpm (142.5 L/min)

Enhanced High-flow auxiliary hydraulics - EHF: @ 4,000 psi (276 bar) - 35.0 gpm (132.5 L/min)

Second auxiliary hydraulics

LOADER

Auxiliary front electric control Manual attachment coupler

OTHER

Language decals Factory-installed tires - see page 3 Buckets - see page 3 Bolt-on bucket cutting edges Bolt-on heavy-duty bucket spill guard Special paint Offsite service arrangement Telematics

FACTORY SUPPLIED ATTACHMENTS

Interior mirror Add-on counterweights Road lights Rotating beacon Four-corner LED strobe Bolt-on heavy-duty bucket teeth 48 in (1.22 m) pallet forks

SERVICE PARTS

3 inch (76.2 mm) retractable seat belt

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