



TIER 4 FINAL CERTIFIED



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Model	Model FPT F5B FL413 E*B0	
Emissions Certific	cation	Tier 4 Final
Type	Diesel	, 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 a	Turbocharged w/ waste and external cooled EGR
Exhaust aftertrea	tment	Selective

	Catalytic Reduction (SCR)
Cooling	Liquid
Engine speeds	RPM
High idle - no load	2500 +/- 25
Rated - full load	2500
Low idle	1150 +/- 25

Horsepower @ 2500 RPM - SAE J1349: Gross 90 hp (67 kW) Net 84 hp (63 kW)

Peak torque @ 1400 RPM 282 lb·ft (383 N·m)

Radiator:

Core type Aluminum bar and plate Core size area 319 in² (0.206 m²) Rows of tubes x columns 21 Cap pressure 16 +/- 2 psi (1.10 +/- 0.14 bar)

Fan:

Diameter 22 in (560 mm) 0.96:1 standard, 1.1:1 high-flow Ratio

Water pump:

Style Centrifugal 47.8 gpm (181 L/min) Flow

Engine lubrication pump:

Rotor pump w/ deep sump pan, plate cooler and pressurized under-piston nozzles

45°
35°
45°
2

LIFT GEOMETRY

Radial Lift

DRIVETRAIN

Drive pump controls Servo-assist mechanical Pump to engine ratio 2.81 in³ (46 cm³) Displacement Flow @ rated engine RPM: @ 97% efficiency 29.4 gpm (111 L/min) Charge pressure 360 psi (24.5 bar) System relief pressure 5,220 psi (360 bar) Electro-hydraulic Drive pump controls Pump to engine ratio 1:1 2.75 in³ (45 cm³) Displacement Flow @ rated engine RPM: @ 97% efficiency 28.8 gpm (109 L/min) Charge pressure 362 psi (25.0 bar) System relief pressure 5,220 psi (360 bar) Drive motors: Max. displacement Displacement - optional:

3.10 in³ (50.9 cm³) 2.02 in³ (33.1 cm³)

High speed Motor RPM @ high idle and 97% efficiency: 2-speed

Motor torque @ max. displacement and relief pressure, calculated @ 5,220 psi (360 bar): 4,654 lb·ft (6 310 N·m)

Travel speed: Low range 5.1 mph (8.2 kph) High range 8.0 mph (12.9 kph)

Final drive:

Planetary gearbox w/ 2-speed motor

7,414 lb (3 370 kg) Tractive effort Parking brake: Type Spring-applied, hydraulic

release multiple disc. Engagement Depress on/off brake button on handle or instrument panel,

raise seat bar, get off seat or stop engine.

ELECTRICAL

160 amp
4.29 hp (3.2 kW)
12-volt low-maintenance ing 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 hydraulic control - on joystick; Advanced Instrument Cluster w/ digital hour meter, tachometer, Fuel level LCD bar graph w/ alarm, diagnostic features and security lockout.

Warning lights with alarms:

Engine coolant temperature; Engine oil pressure; Engine malfunction; Hydraulic charge pressure; Hydraulic filter restriction; Hydraulic oil temperature: Critical system stop, Engine system, Hydraulic system, Electrical and diagnostic system.

Warning alarms:

Battery voltage - plus display; Oil service.

Indicator light:

Engine preheat; Parking brake; Seat bar reminder.

OPERATING WEIGHT

Unit equipped w/ open cab; 165 lb operator; 78 in Dirt & Foundry bucket; full of fuel:

10,000 lb (4 536 kg) 9,656 lb (4 380 kg) Shipping weight Add-on weights: Side cab glass 47 lb (21.3 kg) Polycarbonate cab door 75 lb (34.0 kg) Glass cab door w/ wiper 75 lb (34.0 kg) Suspension seat 22 lb (10.0 kg) 600 lb (273.0 kg) Additional counterweight

HYDRAULICS	
Implement pump type	Gear
Displacement:	
Standard aux.	2.23 in ³ (36.6 cm ³)
High-flow aux.	1.24 in ³ (20.4 cm ³)
Standard flow @ rated 6	engine RPM:
@ 100% efficiency	24.2 gpm (91.5 L/min)
Optional high-flow @ ra	ted engine RPM:
@ 100% efficiency	37.6 gpm (142.5 L/min)
Enhanced high-flow @ r	rated engine RPM:
@ 100% efficiency	35.0 gpm (132.5 L/min)
Loader control valve:	
Type 3 spool/op	en center/series - series
Relief pressure	3,046 psi (210 bar)
Port relief pressures:	
Loader raise	3,263 psi (225 bar)
Bucket curl	3,770 psi (260 bar)
Bucket dump	1,160 psi (80 bar)
Hydraulic lines:	
Tubing	37° JIC Flare
Loop hoses	SAE 100 R19

Hydraulic oil cooler:

Number of fins 10 per inch (3.94 per cm) Number of tube rows x columns 9 bar/plate 130.7 in² (843.2 cm²) Area

Hydraulic filter Beta (4) = 75/spin-on

HYDRAULICS CONT. Lift cylinders: Bore diameter 2.75 in (69.85 mm) Rod diameter 1.75 in (44.5 mm) Stroke 32.20 in (817.9 mm) 45.60 in (1 158.0 mm) Closed length Bucket cylinders:

Bore diameter

Rod diameter

Closed length

Stroke

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)

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)
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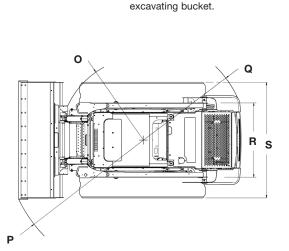
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3.0 in (76.2 mm)

1.5 in (38.1 mm)

16.4 in (410.0 mm)

24.0 in (610.0 mm)



PERFORMANCE SPECS

35% of tipping load

50% of tipping load

Bucket cylinders

Tipping load*

Cycle times:

Roll back

Raise

Lower Dump

Rated operating capacity - ROC*:

Breakout forces @ 3,150 psi (217 bar)*:

w/ additional counterweight 3,600 lb (1 633 kg)

Lift cylinders - hydraulic limit 7,760 lb (34.5 kN)

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

2,380 lb (1 079 kg) 3,400 lb (1 542 kg)

6,800 lb (3 084 kg)

8,700 lb (38.7 kN)

4.4 sec 2.6 sec

2.6 sec

2.0 sec

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 with low profile extended bucket	157.8 in (4.01 m) 161.8 in (4.11 m) 166.8 in (4.24 m)
Height to: B. Bucket hinge pin C. Top of ROPS D. Bottom of level bucket, fully raised	126.5 in (3.22 m) 80.4 in (2.04 m) 119.6 in (3.04 m)
Overall length: E. without attachment with coupler F. with foundry/excavating bucket on ground with heavy-duty bucket with low profile extended bucket	118.7 in (2.98 m) 143.5 in (3.64 m) 143.7 in (3.64 m) 152.7 in (3.84 m)
Maximum dump angle Dump height: with foundry/excavating bucket with low profile bucket	38.1° 102.1 in (2.60 m) @ 38.1° 99.9 in (2.54 m) @ 38.1°
I. Dump reach at maximum height with heavy-duty bucket	24.7 in (0.63 m) @ 38.1°
Maximum attachment rollback: J. Bucket on ground K. Bucket at full height L. Track on ground	29.7° 99.7° 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: O. 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	57.7 in (1.40 m) 87.0 in (2.17 m) 90.8 in (2.25 m) 95.2 in (2.36 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)

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TRACK SELECTION			
Туре	Area	Ground Pressure	Width to Outside Track
17.7 in (450 mm)	2,286 in ² (1.475 m ²)	4.2 psi (29 kPa)	76 in (1.93 m)

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Туре	Width	Weight	Heaped Capacity
Dirt & Foundry	78 in (1.98 m)	440 lb (200 kg)	17.7 ft ³ (0.50 m ³)
Low Profile Extended	78 in (1.98 m)	540 lb (245 kg)	19.1 ft ³ (0.54 m ³)
	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 ft ³ (0.44 m ³)
	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 ft ³ (0.56 m ³)
	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)

160 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 Radial lift geometry Loader lift arm support strut SAE operating load: 3,400 lbs Tipping load: 6,800 lbs

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

Mounting points for add-on counterweights

Heavy duty rear door

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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

Heavy duty rear door

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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