

**TIER 4 FINAL CERTIFIED** 



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Model	F	FPT F5B FL413 E*B002
Emissions Certification		Tier 4 Final
Туре	Diesel,	Turbo – Direct Injection
Cylinders		4
Bore/Stroke		3.9 x 4.3 in (99 x 110 mm)
Displacement		207 in <sup>3</sup> (3.4 L)
Fuel injection		Direct
Fuel		#2 Diesel
Fuel filter: Pre-filter Main filter	Е	Beta (30) = 200/spin-on Beta (4) = 20/spin-on
Air intake		charged w/ waste gate nd external cooled EGR

Exhaust aftertreatmen	nt	Selective
	Catalytic R	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

> Core size area 2.21 ft2 (0.206 m2) Rows of tubes 21 Cap pressure 16 +/- 2 psi (1.10 +/- 0.14 bar)

Aluminum bar and plate

Fan:

Diameter 22 in (560 mm) Ratio 1.1:1

Water pump:

Style Centrifugal Flow 47.8 gpm (181 L/min)

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

Pump operating angle ratings:

45° Side to side Bucket up 35° **Bucket Down** 45°

# LIFT GEOMETRY

Vertical Lift

#### **DRIVETRAIN**

Drive pump controls Servo-assist mechanical Pump to engine ratio 1:1 Displacement 2.81 in<sup>3</sup> (46 cm<sup>3</sup>) 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) Drive pump controls Electro-hydraulic Pump to engine ratio 2.75 in<sup>3</sup> (45 cm<sup>3</sup>) Displacement Flow @ rated engine RPM: 28.8 gpm (109 L/min) @ 97% efficiency 362 psi (25 bar) Charge pressure System relief pressure 5,220 psi (360 bar) Drive motors:

28.7 in<sup>3</sup> (470 cm<sup>3</sup>) Max. displacement

Displacement - optional:

High speed 17.2 in<sup>3</sup> (282 cm<sup>3</sup>)

Motor RPM @ high idle and 97% efficiency: Standard 1-speed Optional 2-speed

Motor torque @ max. displacement and relief pressure, calculated @ 5,220 psi (360 bar): 1,987 lb·ft (2 694 N·m)

Travel speed:

Low range 7.7 mph (12.4 kph) High range - optional 11.5 mph (18.5 kph)

Final drive Single-reduction chain drive

Drive chain:

Size ASA #100 30,000 lb (133.4 kN) Tensile strength

Torque @ max. displacement and

relief pressure 5,957 lb·ft (8 077 N·m) Diameter 2.44 in (62 mm) 15.6 in (396 mm) Length

Parking brake:

Type Spring-applied, hydraulic release multiple disc.

Depress on/off brake button Engagement on handle 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 00	ld arapking among @ 0° E ( 10° 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; Rearview mirror; 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, DEF Level, 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; Diesel Exhaust Fluid - DEF; Oil service.

Indicator light:

Engine preheat; Parking brake;

Seat bar reminder.

#### **OPERATING WEIGHT**

78 in Heavy-Duty bucket; full of fuel; 14 x 17.5 tires: 9,100 lb (4 136 kg) Shipping weight 8,557 lb (3 890 kg) Add-on weights: Side cab glass 47 lb (21.3 kg) 75 lb (34.0 kg) Polycarbonate cab door 75 lb (34.0 kg) Glass cab door w/ wiper Suspension seat 22 lb (10.0 kg) Additional counterweight 300 lb (136.0 kg)

Unit equipped w/ open cab; 165 lb operator;

#### **HYDRAULICS**

Loop hoses

Implement pump type	Gear
Displacement:	
Standard aux. High-flow aux.	2.23 in <sup>3</sup> (36.6 cm <sup>3</sup> ) 1.42 in <sup>3</sup> (23.3 cm <sup>3</sup> )
	,
Standard flow @ rated e @ 100% efficiency	24.2 gpm (91.5 L/min)
Optional high-flow @ rat @ 100% efficiency	ted engine RPM: 38.7 gpm (146.5 L/min)
Enhanced high-flow @ r @ 100% efficiency	rated engine RPM: 35.0 gpm (132.5 L/min)
Loader control valve: Type 3 spool/op	en center/series - series
Relief pressure	3,450 psi (238 bar)
Port relief pressures:	
Loader raise	3,625 psi (250 bar)
Bucket curl	3,916 psi (270 bar)
Bucket dump	3,625 psi (250 bar)
Hydraulic lines:	
Tubing	ORFS + 37° JIC Flare

SAE 100 R19

#### HYDRAULICS CONT.

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T. Over the tire width spec tires

С

Hydraulic oil cooler:

Number of fins 10 per inch (3.94 per cm) Number of tube rows x columns 9 bar/plate 138.7 in<sup>2</sup> (890 cm<sup>2</sup>) Area

Hydraulic filter	Beta (4) = 75/spin-on
Lift cylinders:	
Bore diameter	2.75 in (60.85 mm)

2.75 in (69.85 mm) Rod diameter 2.0 in (50.8 mm) Stroke 34.9 in (886.5 mm) Closed length 47.4 in (1 205 mm) Bucket cylinders: Bore diameter 3.0 in (76.2 mm) Rod diameter 1.5 in (38.1 mm) 15.7 in (398 mm) Stroke Closed length 24.0 in (610 mm)

# **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	12.0 gal (45.4 L)
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Chain tanks - per side 5.9 gal (22.2 L)

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

# PERFORMANCE SPECS

Rated operating capacity - ROC\*:

3,400 lb (1 545 kg) 50% of tipping load w/ additional counterweight 3,650 lb (1 656 kg)

Tipping load\* 6,800 lb (3 090 kg)

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

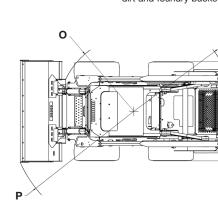
Bucket cylinders 9,531 lb (42.4 kN) 6,816 lb (30.3 kN) Lift cylinders - tip limit

Cycle times:

Raise 4.6 sec Lower 3.5 sec 2.6 sec Dump 2.0 sec Roll back

69.6 in (1.77 m)

NOTE: \*Measured using 72 in (1.83 m) dirt and foundry bucket.



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

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DIMENSIONS	
Overall operating height:     with foundry/excavating bucket     with low profile bucket	160.4 in (4.07 m) 164.4 in (4.18 m)
with low profile extended bucket	169.5 in (4.30 m)
Height to:	
B. Bucket hinge pin	130.0 in (3.30 m)
C. Top of ROPS	78.8 in (2.00 m)
D. Bottom of level bucket, fully raised	124.8 in (3.17 m)
Overall length:	
E. without attachment with coupler	119.1 in (3.02 m)
F. with foundry/excavating bucket on ground	144.0 in (3.66 m)
with low profile bucket with low profile extended bucket	148.0 in (3.76 m) 153.1 in (3.89 m)
G. Maximum dump angle	46.7°
H. Dump height:	
with foundry/excavating bucket	103.5 in (2.63 m) @ 45°
with low profile bucket	100.6 in (2.56 m) @ 45°
I. Dump reach at maximum height with low profile bucket	29.3 in (0.74 m) @ 45°
Maximum attachment rollback:	
J. Bucket on ground	35.0°
K. Bucket at full height	86.0°
L. Wheelbase	52.0 in (1.32 m)
M. Ground clearance – bottom of belly pan	8.0 in (0.20 m)
N. Angle of departure	23.5°
Clearance circle:	
O. without bucket	56.2 in (1.43 m)
P. with 72 in (1.83 m) foundry/excavating bucket in carry position	84.1 in (2.14 m)
with 72 in (1.83 m) low profile bucket on ground	87.8 in (2.23 m)
with 72 in (1.83 m) extended low profile on ground	71.2 in (2.35 m)
Q. Clearance circle rear	70.4 in (1.81 m)
R. Rear axle to bumper	42.4 in (1.08 m)
S. Tread over gauge with spec tires	56.9 in (1.45 m)

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OPTIONAL BUCKETS			
Туре	Width	Weight	Heaped Capacity
Dirt & Foundry	72 in (1.83 m)	420 lb (190 kg)	16.2 ft <sup>3</sup> (0.46 m <sup>3</sup> )
	78 in (1.98 m)	440 lb (200 kg)	17.7 ft <sup>3</sup> (0.50 m <sup>3</sup> )
Low Profile	72 in (1.83 m)	480 lb (218 kg)	14.8 ft <sup>3</sup> (0.42 m <sup>3</sup> )
Low Profile Extended	72 in (1.83 m)	510 lb (232 kg)	17.7 ft <sup>3</sup> (0.50 m <sup>3</sup> )
	78 in (1.98 m)	540 lb (245 kg)	19.1 ft <sup>3</sup> (0.54 m <sup>3</sup> )
	84 in (2.13 m)	575 lb (262 kg)	20.5 ft <sup>3</sup> (0.58 m <sup>3</sup> )
Light Material	72 in (1.83 m)	475 lb (216 kg)	23.3 ft <sup>3</sup> (0.66 m <sup>3</sup> )
	84 in (2.13 m)	540 lb (245 kg)	27.5 ft <sup>3</sup> (0.78 m <sup>3</sup> )
Manure & Slurry	72 in (1.83 m)	480 lb (218 kg)	19.1 ft <sup>3</sup> (0.54 m <sup>3</sup> )
	84 in (2.13 m)	545 lb (248 kg)	22.6 ft <sup>3</sup> (0.64 m <sup>3</sup> )
Heavy-Duty	72 in (1.83 m)	510 lb (230 kg)	14.1 ft <sup>3</sup> (0.40 m <sup>3</sup> )
	78 in (1.98 m)	530 lb (240 kg)	15.5 ft <sup>3</sup> (0.44 m <sup>3</sup> )
	84 in (2.13 m)	550 lb (250 kg)	17.0 ft <sup>3</sup> (0.48 m <sup>3</sup> )

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#### STANDARD EQUIPMENT

# **OPERATOR ENVIRONMENT**

See page 1

#### **ENGINE**

FPT F5B FL413 E\*B002 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 pluas

Integral engine oil cooler

Fuel filter with water trap 1,000 CCA 12V battery Master electrical disconnect Jump start terminal

# DRIVETRAIN

2-speed hydrostatic four wheel drive ASA #100HS drive chain SAHR disc parking brake

# **HYDRAULICS**

Auxiliary hydraulics: @ 3,450 psi (238 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

Connect under pressure auxiliary hydraulic disconnects

#### LOADER

Auxiliary front electric control Heavy duty hydraulic attachment coupler Vertical lift geometry Loader lift arm support strut In-cab loader lock

#### **TIRES**

12 X 16.5 Heavy duty

# **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 service

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

Deluxe cloth, air suspension seat

#### **OPTIONAL EQUIPMENT**

# **OPERATOR ENVIRONMENT**

ROPS/FOPS Level 1 canopy with side screens

Keyed start ignition

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

Suspension seat, vinyl

Demolition cab door with polycarbonate FOPS level 2

# **HYDRAULICS**

High-flow auxiliary hydraulics - combined: @ 3,450 psi (238 bar) - 38.7 gpm (146.5 L/min)

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

Second auxiliary hydraulics Hydraulic one-way self-leveling

Ride control

# LOADER

Hydraulic attachment coupler

#### **OTHER**

Language decals Buckets - see page 3 Bolt-on bucket cutting edges Special paint Offsite service arrangement **Telematics** 

# **FACTORY SUPPLIED ATTACHMENTS**

Add-on counterweights Road lights

Rotating beacon

Four-corner LED strobe

Bolt-on heavy-duty bucket teeth

# **SERVICE PARTS**

3 inch (76.2 mm) retractable seat belt

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