



ENGINE	
Model	FPT F5B FL413 E*B002
Emissions Certification	Tier 4 Final
Type Diese	I, 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 Air intake	Beta (30) = 200/spin-on Beta (4) = 20/spin-on Turbocharged w/ waste
Exhaust aftertreatment	and external cooled EGR 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 RF Gross	
Net	90 hp (67 kW) 84 hp (63 kW)
Peak torque @ 1400 RF	PM 282 lb·ft (383 N·m)
Radiator: Core type Core size area Rows of tubes x colur Cap pressure	Aluminum Bar and Plate 319 in² (0.206 m²) nns 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 s and pressurized under	sump pan, plate cooler
Pump operating angle r Side to side Bucket up Bucket Down	ratings: 45° 35° 45°

LIFT GEOMETRY

Radial Lift

DRIVETRAIN

Drive pump controls Pump to engine ratio Displacement Flow @ rated engine	Servo-assist mechanical 1:1 2.81 in ³ (46 cm ³)		
@ 97% efficiency	29.4 gpm (111 L/min) 360 psi (24.5 bar)		
Charge pressure System relief pressur	1 (/		
Drive pump controls Pump to engine ratio	Electro-hydraulic 1:1		
Displacement	2.75 in ³ (45 cm ³)		
Flow @ rated engine @ 97% efficiency	28.8 gpm (109 L/min)		
Charge pressure System relief pressur	362 psi (25.0 bar) e 5,220 psi (360 bar)		
Drive motors:			
Max. displacement Displacement – optio	3.10 in ³ (50.9 cm ³)		
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		
	displacement and relief ed @ 5,220 psi (360 bar):		
procedito, calculate	4,654 lb·ft (6 310 N·m)		
Travel speed:	E 1 mph (8.0 kph)		
Low range High range – optiona	5.1 mph (8.2 kph) I 7.6 mph (12.2 kph)		
Final drive: Planetary gearbox w/	2-speed motor		
Tractive effort	7,414 lb (3 370 kg)		
Parking brake:	.		
Туре	Spring-applied, hydraulic release multiple disc.		

Engagement Depress on/off brake button 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 hydraulic control – on joystick; Advanced Instrument Cluster w/ digital hour meter, tachometer, Fuel level LCD bar graph w/ alarm, diagnostic features and security lockout.

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COMPACT TRACK LOADER TIER 4 FINAL CERTIFIED

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) Shipping weight 9,656 lb (4 380 kg) Add-on weights: Side cab glass 47 lb (21.3 kg) Polycarbonate cab door 75 lb (34.0 kg)

Glass cab door w/ wiper75 lb (34.0 kg)Suspension seat22 lb (10.0 kg)Additional counterweight600 lb (273.0 kg)

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 engine RPM:		
@ 100% efficiency	24.2 gpm (91.5 L/min)	
Optional high-flow @ ra	ated engine RPM:	
@ 100% efficiency	37.6 gpm (142.5 L/min)	
Enhanced high-flow @	rated engine RPM:	
@ 100% efficiency	35.0 gpm (132.5 L/min)	
Loader control valve:		
Type 3 spool/o	pen 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	
Area	130.7 in ² (843.2 cm ²)	
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)
Closed length	45.60 in (1 158.0 mm)
Bucket cylinders:	
Bore diameter	3.0 in (76.2 mm)
Rod diameter	1.5 in (38.1 mm)
Stroke	16.4 in (410.0 mm)
Closed length	24.0 in (610.0 mm)

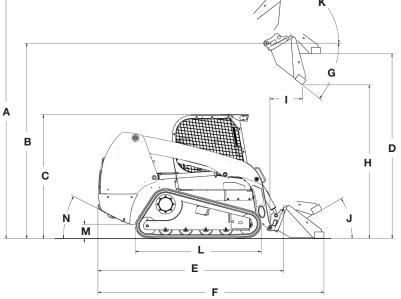
SERVICE CAPACITIES	
Fuel Tank	25.5 gal (96.5 L)
Engine oil w/ filter	8.9 qt (8.5 L)
Hydraulic system:	
Reservoir	6.0 gal (22.7 L)
Total	11.9 gal (45.4 L)

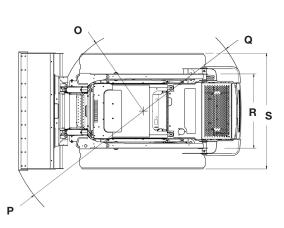
Diesel Exhaust Fluid (DEF) Tank 2.8 gal (10.7 L)

PERFORMANCE SPECS

Rated operating capacity – ROC*:			
35% of tipping load	2,380 lb (1 079 kg)		
50% of tipping load	3,400 lb (1 542 kg)		
w/ additional counterweigl	ht 3,600 lb (1 633 kg)		
Tipping load*	6,800 lb (3 084 kg)		
Breakout forces @ 3,150 psi (217 bar)*:			
Bucket cylinders 8,700 lb (38.7 kN)			
Lift cylinders – hydraulic li	mit 7,760 lb (34.5 kN)		
Cycle times:			
Raise	4.4 sec		
Lower	2.6 sec		
Dump	2.6 sec		
Roll back	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	157.8 in (4.01 m)
with heavy-duty dirt bucket	161.8 in (4.11 m)
with low profile extended bucket	166.8 in (4.24 m)
Height to:	
B. Bucket hinge pin	126.5 in (3.22 m)
C. Top of ROPS	80.4 in (2.04 m)
D. Bottom of level bucket, fully raised	119.6 in (3.04 m)
Overall length:	
E. without attachment with coupler	118.7 in (2.98 m)
F. with foundry/excavating bucket on ground with heavy-duty bucket	143.5 in (3.64 m) 143.7 in (3.64 m)
with low profile extended bucket	152.7 in (3.84 m)
G. Maximum dump angle	38.1°
H. Dump height:	
with foundry/excavating bucket	102.1 in (2.60 m) @ 38.1°
with low profile bucket	99.9 in (2.54 m) @ 38.1°
I. Dump reach at maximum height with heavy-duty bucke	t 24.7 in (0.63 m) @ 38.1°
Maximum attachment rollback:	
J. Bucket on ground	29.7°
K. Bucket at full height	99.7°
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:	
O. without bucket	57.7 in (1.40 m)
P. with 72 in (1.83 m) foundry/excavating bucket in carry p	
with 72 in (1.83 m) heavy-duty bucket on ground	90.8 in (2.25 m)
with 72 in (1.83 m) extended low profile on ground	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)

TRACK SELECTION			
Туре	Area	Ground Pressure	Width to Outside Track
17.7 in (450 mm)	2,286 in ² (14 750 cm ²)	4.2 psi (29 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 ft ³ (0.50 m ³)
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 ft³ (0.48 m³)
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

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. vinvl 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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