



ENGINE	
Model	FPT F5H FL463 A*G001
Emissions Certification	Tier 4 Final
Type D	iesel 4-stroke, Turbo, D.I.
Cylinders	4
Bore/Stroke	3.9 x 4.3 in
	(99 x 110 mm)
Displacement	207 in ³ (3.4 L)
Fuel injection	Direct, high pressure common rail – HPCR
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 Diesel Oxidation Catalyst (DOC)
Cooling	Liquid
Engine speeds High idle – no load Rated – full load Low idle	RPM 2500 +/- 25 2500 1150 +/- 25
Horsepower @ 2500 RF Gross Net	PM – SAE J1349: 74 hp (55 kW) 68 hp (51 kW)
Peak torque @ 1400 RF	PM 232 lb·ft (314 N·m)
Radiator: Core type Core size area Rows of tubes x colur Cap pressure	All aluminum 2.77 ft² (0.257 m²) nns 43 x 3 16 +/- 2 psi (1.10 +/- 0.14 bar)
Fan: Diameter Ratio 0.96:1	20.4 in (518 mm) standard, 1.1:1 high-flow
Water pump: Style Flow Engine lubrication pum	•
and pressurized unde	
Pump operating angle Side to side	ratings: 45°

Bucket up

Bucket Down

LIFT GEOMETRY

Radial Lift

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	Electro-hydraulic 1:1 2.75 in ³ (45 cm ³) RPM: 28.8 gpm (109 L/min) 362 psi (24.5 bar)		
System relief pressure			
Drive motors: Max. displacement 3.10 in ³ (50.9 cm ³) Displacement: High speed 2.02 in ³ (33.1 cm ³) Motor RPM @ high idle and 97% efficiency: 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: Low range High range	5.1 mph (8.2 kph) 8.0 mph (12.9 kph)		
Final drive: Planetary gearbox w/ 2-speed motor			
Tractive effort	7,414 lb (3 370 kg)		
Parking brake: Type	Spring-applied, hydraulic release multiple disc.		
00	oress on/off brake button		
on handle or instrument panel, raise seat bar, get off seat or stop engine.			

ELECTRICAL	
Alternator	120 amp
Starter	4.29 hp (3.2 kW)
Battery	12-volt low-maintenance
925 colo	d-cranking amps @ 0° F (-18° C°)

OPERATOR ENVIRONMENT

35° 45° ROPS/FOPS Level 1 canopy w/ side screens; Keyed start ignition; Tilt ROPS/FOPS; Rear window w/ emergency escape; Suspension Seat, vinyl w/ 2 in (51 mm) retractable 3 point lap seat belt; Hand and foot throttles; 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,
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:

8,880 lb (4 027 kg)
8,580 lb (3 891 kg)
47 lb (21.3 kg)
75 lb (34.0 kg)
75 lb (34.0 kg)
22 lb (10.0 kg)
140 lb (63.8 kg)

HYDRAULICS Gear Implement pump type Displacement: Standard aux. 2.23 in3 (36.6 cm3) 0.76 in³ (12.5 cm³) High-flow aux. Standard flow @ rated engine RPM: @ 100% efficiency 24.2 gpm (91.5 L/min) Optional high-flow @ rated engine RPM: @ 100% efficiency 32.4 gpm (122.6 L/min) Loader control valve: 3 spool/open center/series - series Type 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	s x columns 9 x 1
Area	136.5 in ² (880 cm ²)
Hvdraulic filter	Beta (4) = 75/spin-on

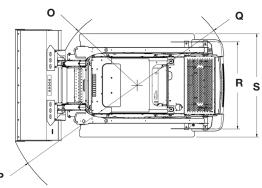
Beta (4) = 75/spin-on

HYDRAULICS CON	π.	SERVICE CAPACITIES		PERFORI
Lift cylinders:		Fuel Tank	19.5 gal (73.8 L)	Rated ope
Bore diameter	2.75 in (69.85 mm)	Engine oil w/ filter	8.9 qt (8.5 L)	35% of t
Rod diameter Stroke	1.75 in (44.5 mm) 32.2 in (817.9 mm)	Hydraulic system:		50% of t w/ additi
Closed length	45.6 in (1 158 mm)	Reservoir Total	5.3 gal (20.0 L) 10 gal (38.1 L)	Tipping lo
Bucket cylinders: Bore diameter Rod diameter	3.0 in (76.2 mm) 1.5 in (38.1 mm)	Total	10 gar (30.1 L)	Breakout f Bucket c Lift cylind
Stroke Closed length	16.4 in (410 mm) 24.0 in (610.0 mm)	G	D H	Lift Cycle time Raise Lower Dump Roll back NOTE: *Me exc
	N M Ceres			

PERFORMANCE SPECS

Rated operating capacity -	- ROC*:		
35% of tipping load	2,170 lb (984 kg)		
50% of tipping load	3,100 lb (1 406 kg)		
w/ additional counterweig	ght 3,200 lb (1 451 kg)		
Tipping load*	6,200 lb (2 810 kg)		
Breakout forces @ 3,150 psi (217 bar)*:			
Bucket cylinders	8,680 lb (38.6 kN)		
Lift cylinders – hydraulic I	imit 6,440 lb (29.0 kN)		
Cycle times:			
Raise	4.3 sec		
Lower	2.6 sec		
Dump	2.3 sec		
Roll back	1.9 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.

E — F

DIMENSIONS A. Overall operating height: with foundry/excavating bucket with low profile bucket with low profile extended bucket Height to: B. Bucket hinge pin C. Top of ROPS D. Bottom of level bucket, fully raised Overall length: E. without attachment with coupler F. with foundry/excavating bucket on ground with low profile bucket with low profile bucket

 H. Dump height: with foundry/excavating bucket with low profile bucket
 I. Dump reach at maximum height with low profile bucket Maximum attachment rollback:

Maximum attachment rollback:	
J. Bucket on ground	31.0°
K. Bucket at full height	99.9°
L. Track on ground	55.9 in (1.42 m)
M. Ground clearance – bottom of belly pan	8.0 in (0.20 m)
N. Angle of departure	32.0°
Clearance circle:	
O. without bucket	52.3 in (1.35 m)
P. with 78 in (1.98 m) foundry/excavating bucket in carry position	83.5 in (21.2 m)
with 78 in (1.98 m) low profile bucket on ground	87.3 in (2.22 m)
with 78 in (1.98 m) extended low profile on ground	91.7 in (2.33 m)
Q. Clearance circle rear	59.9 in (1.52 m)
R. Track gauge	58.5 in (1.49 m)
S. Over the track width	74.3 in (1.89 m)

155.6 in (3.95 m)

159.8 in (4.06 m)

164.6 in (4.18 m)

125.1 in (3.18 m)

78.7 in (2.00 m)

117.1 in (2.98 m)

104.8 in (2.66 m)

129.1 in (3.28 m)

133.4 in (3.39 m)

138.3 in (3.51 m)

100.6 in (2.56 m) @ 38.1°

98.0 in (2.49 m) @ 38.1°

25.6 in (0.65 m) @ 38.1°

38.1°

TRACK SELECTION			
Туре	Area	Ground Pressure	Width to Outside Track
15.75 in (400 mm)	1,760 in ² (1.13 m ²)	5.0 psi (34.5 kPa)	74.3 in (1.89 m)

OPTIONAL BUCKETS			
Туре	Width	Weight	Heaped Capacity
Dirt & Foundry	72 in (1.83 m)	420 lb (190 kg)	16.2 ft ³ (0.46 m ³)
	78 in (1.98 m)	440 lb (200 kg)	17.7 ft ³ (0.50 m ³)
Low Profile	72 in (1.83 m)	480 lb (218 kg)	14.8 ft ³ (0.42 m ³)
Low Profile Extended	72 in (1.83 m)	510 lb (232 kg)	17.7 ft ³ (0.50 m ³)
	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	72 in (1.83 m)	475 lb (216 kg)	23.3 ft ³ (0.66 m ³)
	84 in (2.13 m)	540 lb (245 kg)	27.5 ft ³ (0.78 m ³)
Manure & Slurry	72 in (1.83 m)	480 lb (218 kg)	19.1 ft ³ (0.54 m ³)
Heavy-Duty	72 in (1.83 m)	510 lb (230 kg)	14.1 ft ³ (0.40 m ³)
	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 Extended with SmartFit Teeth	72 in (1.83 m)	667 lb (303 kg)	17.4 ft ³ (0.49 m ³)
	78 in (1.98 m)	697 lb (316 kg)	18.9 ft ³ (0.54 m ³)
	84 in (2.13 m)	728 lb (330 kg)	20.5 ft ³ (0.58 m ³)

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

FPT F5H FL463 A*G001 207 CID (3.4 L) Turbo Tier 4 Final Certified **Diesel Oxidation Catalyst (DOC)** High Pressure Common Rail (HPCR) fuel injection Horsepower: Gross: 74 hp (55 kW) Net: 68 hp (51 kW) Peak torque: 232 lb·ft (314 N·m) 120 amp alternator Dual element air cleaner Organic Acid Technology (OAT) Anti-freeze solution to -34° F Fuel tank - 19.5 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 925 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

LOADER

Manual attachment coupler Radial lift geometry Loader lift arm support strut SAE operating load: 3,100 lbs Tipping load: 6,200 lbs

TRACKS

Rubber Tracks

OTHER STANDARD FEATURES

Halogen lights - 2 front, 2 side, 2 rear flood 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

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Enclosed cab:

Fully sealed and pressurized - FSP Glass door with wiper and washer Sliding side windows - removable Ventilation system with integrated heater Heater and air conditioner AM/FM Bluetooth radio with 2 speakers and USB port Keyless start ignition 8 in Color LCD Display Economy Mode (auto idle shutdown) Auto Engine Protection Shutdown 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 Deluxe cloth, air suspension seat, with heater and lumbar support Open cab interior trim package Demolition cab door with polycarbonate FOPS Level 2 Ignition Timeout Machine Settings User Access Levels **Operator Security Codes**

HYDRAULICS

High-flow auxiliary hydraulics - combined: @ 3,050 psi (210 bar) - 32.4 gpm (122.6 L/min) Second auxiliary hydraulics Hydraulic one-way self-leveling Ride control

LOADER

Auxiliary front electric control Hydraulic attachment coupler

DRIVETRAIN

Creep Speed Mode

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

Add-on counterweights Road lights Rotating beacon Four-corner LED strobe 48 in (1.22 m) pallet forks

SERVICE PARTS

3 inch (76.2 mm) retractable seat belt Bolt-on heavy-duty bucket teeth

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