



TIER 4 FINAL CERTIFIED



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Model	FPT F5H FL463 A*F001
Emissions Certification	Tier 4 Final
Type Di	esel 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	Beta (30) = 200/spin-on Beta (4) = 20/spin-on
Air intake gate	Turbocharged w/ waste and external cooled EGR
Exhaust aftertreatment	Particulate Matter Catalyst – PM Catalyst
Cooling	Liquid

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Engine speeds	RPM
High idle – no load	2500 +/- 25
Rated - full load	2500
Low idle	1150 +/- 25
Horsepower @ 2500 RP	M – SAE J1349:
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Horsepower @	2500 RPM – SAE J1349:
Gross	74 hp (55 kW)
Net	68 hp (51 kW)

Peak torque @ 1400 RPM	232 lb·ft (314 N·m)

Radiator:	
Core type	All aluminum
Core size area	2.77 ft ² (0.257 m ²)
Rows of tubes x columns	43 x 3
Cap pressure	16 +/- 2 psi
	(1.10 +/- 0.14 bar)

Fan:	
D:	

Diameter	20.4 in (518 mm)
Ratio	0.96:1 standard, 1.1:1 high-flow

Water pump:

Style	Centrifugal
Flow	29 gpm (110 L/min)

Engine lubrication pump:

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

Pump operating angle ratings:	
Side to side	45°
Bucket up	35
Bucket Down	45°

DRIVETRAIN

Drive pump controls	Servo-assist mechanical	
Pump to engine ratio	1:1	
Displacement	2.81 in ³ (46 cm ³)	
Flow @ rated engine F	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	1:1	
Displacement	2.75 in ³ (45 cm ³)	
Flow @ rated engine RPM:		
@ 97% efficiency	28.8 gpm (109 L/min)	
Charge pressure	362 psi (24.5 bar)	
System relief pressure	5 220 psi (360 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	l 97% efficiency:	
Standard 1-speed	103	
Optional 2-speed	156	
Motor torque @ max. displacement and relief		
pressure, calculated @ 5	,220 psi (360 bar):	

Traval	speed:
Havel	specu.

Low range	5.1 mph (8.2 kph)
High range - optional	7.6 mph (12.2 kph)

4,654 lb·ft (6 310 N·m)

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

release multiple disc.

Engagement

Depress 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 cold-cra	anking amps @ 0° F (-18° C°)

OPERATOR ENVIRONMENT

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; 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

Operating Weight	8,270 lb (3 750 kg)
Shipping weight	7,970 lb (3 615 kg)
Add-on weights: Side cab glass Polycarbonate cab door	47 lb (21.3 kg) 74 lb (33.6 kg)
Glass cab door w/ wiper Suspension seat Additional counterweight	134 lb (60.8 kg) 22 lb (10.0 kg) 140 lb (63.8 kg)

HYDRAULICS

Implement pump type	Gear
Displacement: Standard aux. High-flow aux.	2.23 in ³ (36.6 cm ³) 0.76 in ³ (12.5 cm ³)
Standard flow @ rated @ 100% efficiency	•
Optional high-flow @ r @ 100% efficiency	•
Loader control valve: Type 3 spool/o Relief pressure	open center/series - series 3,050 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) s x columns 9 x 1 136.5 in² (880 cm²)

Area $136.5 \text{ in}^2 (880 \text{ cm}^2)$ Hydraulic filter Beta (4) = 75/spin-on Lift cylinders:

Lift cylinders:	
Bore diameter	2.50 in (63.5 mm)
Rod diameter	1.75 in (44.5 mm)
Stroke	31.69 in (804.9 mm)
Closed length	45.59 in (1 158.0 mm)

Bucket cylinders:

Bore diameter	2.75 in (69.9 mm)
Rod diameter	1.38 in (34.9 mm)
Stroke	16.14 in (410.0 mm)
Closed length	24.02 in (610.0 mm)

SERVICE CAPACITIES	
Fuel Tank	19.5 gal (73.8 L)
Engine oil w/ filter	10.0 qt (9.4 L)
Hydraulic system: Reservoir Total	7.0 gal (26.5 L) 8.5 gal (32.2 L)

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Rated operating capacity – ROC*:
35% of tipping load 1,890 lb (860 kg)
50% of tipping load 2,700 lb (1 225 kg)
w/ additional counterweight 2,800 lb (1 270 kg)

Tipping load* 5,400 lb (2 449 kg)

Breakout forces @ 3,150 psi (217 bar)*:
Bucket cylinders 7,270 lb

Bucket cylinders 7,270 lb (32.3 kN) Lift cylinders – hydraulic limit 6,260 lb (27.8 kN)

Cycle times:

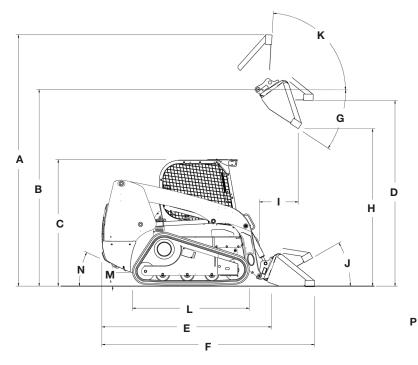
 Raise
 3.6 sec

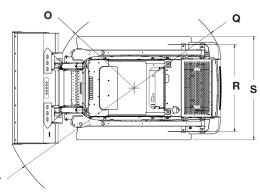
 Lower
 1.8 sec

 Dump
 2.2 sec

 Roll back
 1.7 sec

NOTE: *Measured using 72 in (1.83 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 low profile bucket with low profile extended bucket	154.3 in (3.92 m) 158.3 in (4.02 m) 163.2 in (4.15 m)
Height to: B. Bucket hinge pin C. Top of ROPS D. Bottom of level bucket, fully raised	123.0 in (3.12 m) 78.7 in (2.00 m) 116.1 in (2.95 m)
Overall length: E. without attachment with coupler F. with foundry/excavating bucket on ground with low profile bucket with low profile extended bucket	105.1 in (2.67 m) 129.6 in (3.29 m) 133.7 in (3.40 m) 138.8 in (3.53 m)
G. Maximum dump angle H. Dump height:	39.6°
with foundry/excavating bucket with low profile bucket	98.2 in (2.50 m) @ 39.6° 95.6 in (2.43 m) @ 39.6°
I. Dump reach at maximum height with low profile bucket	25.4 in (0.65 m) @ 39.6°
Maximum attachment rollback: J. Bucket on ground K. Bucket at full height	31.0° 98.6°
L. Track on ground	55.9 in (1.42 m)
M. Ground clearance – bottom of belly pan	8.0 in (0.20 m) 32.0°
N. Angle of departure Clearance circle: O. without bucket P. with 72 in (1.83 m) foundry/excavating bucket in carry position	50.7 in (1.29 m) 79.9 in (2.03 m)
with 72 in (1.83 m) low profile bucket on ground with 72 in (1.83 m) extended low profile on ground	83.1 in (2.11 m) 87.7 in (2.23 m)
Q. Clearance circle rear	62.9 in (1.60 m)
R. Track gauge	53.4 in (1.36 m)
S. Over the track width	65.9 in (1.68 m)

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TRACK SELECTION			
Туре	Area	Ground Pressure	Width to Outside Track
12.6 in (320 mm)	1.408 in ² (9 100 cm ²)	5.9 psi (40.5 kPa)	65.9 in (1.68 m)

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 ft³ (0.50 m³)
	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 ft³ (0.54 m³)
	84 in (2.13 m)	545 lb (248 kg)	22.6 ft ³ (0.64 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 ft³ (0.44 m³)
Heavy-Duty with spillguard	72 in (1.83 m)	585 lb (265 kg)	18.4 ft³ (0.52 m³)
	78 in (1.98 m)	605 lb (275 kg)	19.8 ft ³ (0.56 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 Particulate Matter Catalyst

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

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

Manual attachment coupler Radial lift geometry Loader lift arm support strut SAE operating load: 2,700 lbs

Tipping load: 5,400 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

Machine protection auto shutdown

Mounting points for add-on counterweights

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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 radio with 2 speakers Keyless 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

Non suspension seat

Deluxe cloth, air suspension seat, with heater and lumbar support

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) - 32.4 gpm (122.6 L/min)

Second auxiliary hydraulics

LOADER

Auxiliary front electric control Hydraulic 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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