



## ENGINE

|   |   |
|---|---|
| Model   | FPT F5H FL463 A*G001                                  |
| Emissions Certification   | Tier 4 Final  |
| Type  | Diesel 4-stroke, Turbo, D.I.                          |
| Cylinders   | 4   |
| Bore/Stroke   | 3.9 x 4.3 in<br>(99 x 110 mm)                         |
| Displacement  | 207 in <sup>3</sup> (3.4 L)                           |
| Fuel injection  | Direct, high pressure<br>common rail – HPCR           |
| Fuel  | #2 Diesel   |
| Fuel filter:  |   |
| Pre-filter  | Beta (30) = 200/spin-on                               |
| Main filter   | Beta (4) = 20/spin-on                                 |
| Air intake  | Turbocharged w/ waste<br>gate and external cooled EGR |
| Exhaust aftertreatment  | Diesel Oxidation<br>Catalyst (DOC)                    |
| 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   | 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  | 2.05 ft <sup>2</sup> (0.19 m <sup>2</sup> )           |
| Rows of tubes x columns   | 31 x 4  |
| Cap pressure  | 13 +/- 2 psi<br>(0.9 +/- 0.14 bar)                    |
| Fan:  |   |
| 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<br>and pressurized under-piston nozzles |   |
| Pump operating angle ratings:   |   |
| Side to side  | 45°   |
| 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   | 1:1   |
| Displacement   | 2.75 in <sup>3</sup> (45 cm <sup>3</sup> )  |
| 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 <sup>3</sup> (50.9 cm <sup>3</sup> )  |
| Displacement:  |   |
| High speed   | 2.02 in <sup>3</sup> (33.1 cm <sup>3</sup> )  |
| Motor RPM @ high idle and 97% efficiency:  |   |
| 2-speed  | 156   |
| Motor torque @ max. displacement and relief<br>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   |   |
| Tractive effort  | 7,414 lb (3 370 kg)   |
| Parking brake:   |   |
| Type   | Spring-applied, hydraulic<br>release multiple disc.   |
| Engagement   | Depress on/off brake button<br>on handle or instrument panel,<br>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<br>1,000 cold-cranking 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; 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 Heavy Duty bucket; full of fuel:

9,630 lb (4 370 kg)

Shipping weight 9,300 lb (4 220 kg)

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) |
| Additional counterweight | 600 lb (273 kg) |

## HYDRAULICS

|  |  |
|--|--|
| Implement pump type                    | Gear   |
| Displacement:                          |  |
| Standard aux.                          | 2.23 in <sup>3</sup> (36.6 cm <sup>3</sup> ) |
| High-flow aux.                         | 1.24 in <sup>3</sup> (20.4 cm <sup>3</sup> ) |
| Standard flow @ rated engine RPM:      |  |
| @ 100% efficiency                      | 24.2 gpm (91.5 L/min)                        |
| Optional high-flow @ rated engine RPM: |  |
| @ 100% efficiency                      | 37.6 gpm (142.5 L/min)                       |
| Loader control valve:                  |  |
| Type                                   | 3 spool/open 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          | 11 x 2                                       |
| Area                                   | 4,836 in <sup>2</sup> (3.12 m <sup>2</sup> ) |
| Hydraulic filter                       | Beta (4) = 75/spin-on                        |

## HYDRAULICS CONT.

|                 |                    |
|-----------------|--------------------|
| Lift cylinders: |                    |
| Bore diameter   | 2.75 in (69.85 mm) |
| Rod diameter    | 2 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)   |
| Stroke            | 16.4 in (410 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) |

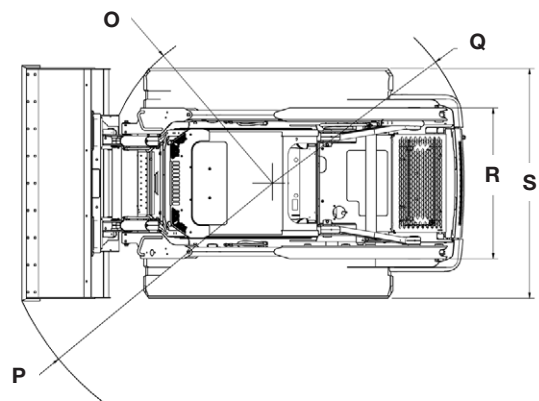
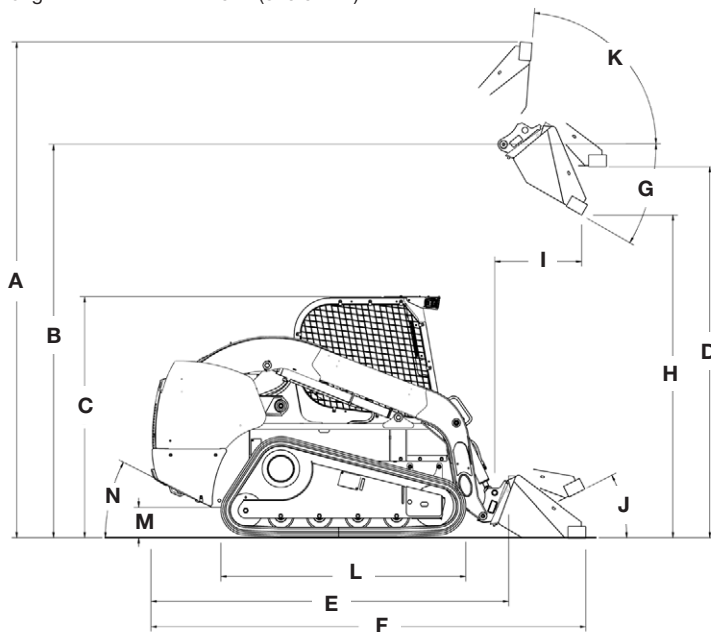
## PERFORMANCE SPECS

|                                  |                     |
|----------------------------------|---------------------|
| Rated operating capacity – ROC*: |                     |
| 35% of tipping load              | 2,590 lb (1 178 kg) |
| 50% of tipping load              | 3,700 lb (1 682 kg) |
| w/ additional counterweight      | 3,900 lb (1 769 kg) |
| Tipping load*                    | 7,400 lb (3 364 kg) |

|   |                    |
|---|--------------------|
| Breakout forces @ 3,150 psi (217 bar)*: |                    |
| Bucket cylinders                        | 8,776 lb (39 kN)   |
| Lift cylinders – hydraulic limit        | 6,292 lb (28.0 kN) |

|              |         |
|--------------|---------|
| Cycle times: |         |
| Raise        | 4.7 sec |
| Lower        | 2.7 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

|   |                           |
|---|---------------------------|
| <b>A.</b> Overall operating height:                           |                           |
| with foundry/excavating bucket                                | 160.8 in (4.09 m)         |
| with low profile bucket                                       | 165.1 in (4.19 m)         |
| with low profile extended bucket                              | 169.9 in (4.32 m)         |
| Height to:  |                           |
| <b>B.</b> Bucket hinge pin                                    | 131.6 in (3.34 m)         |
| <b>C.</b> Top of ROPS   | 80.4 in (2.04 m)          |
| <b>D.</b> Bottom of level bucket, fully raised                | 123.6 in (3.14 m)         |
| Overall length:   |                           |
| <b>E.</b> without attachment with coupler                     | 117.4 in (2.98 m)         |
| <b>F.</b> with foundry/excavating bucket on ground            | 141.9 in (3.60 m)         |
| with low profile bucket                                       | 146.2 in (3.71 m)         |
| with low profile extended bucket                              | 151.0 in (3.84 m)         |
| <b>G.</b> Maximum dump angle                                  | 53.3°                     |
| <b>H.</b> Dump height:  |                           |
| with foundry/excavating bucket                                | 105.1 in (2.67 m) @ 45.0° |
| with heavy-duty bucket  | 102 in (2.59 m) @ 45.0°   |
| <b>I.</b> Dump reach at maximum height with heavy-duty bucket | 31.1 in (0.79 m) @ 45.0°  |
| Maximum attachment rollback:                                  |                           |
| <b>J.</b> Bucket on ground                                    | 34.9°                     |
| <b>K.</b> Bucket at full height                               | 86.2°                     |
| <b>L.</b> Track on ground                                     | 64.5 in (1.64 m)          |
| <b>M.</b> Ground clearance – bottom of belly pan              | 9.5 in (0.24 m)           |
| <b>N.</b> Angle of departure                                  | 32.0°                     |
| Clearance circle:   |                           |
| <b>O.</b> without bucket                                      | 56.4 in (1.43 m)          |
| <b>P.</b> with 78 in (1.98 m) heavy-duty bucket on ground     | 90.6 in (2.30 m)          |
| <b>Q.</b> Clearance circle rear                               | 68.1 in (1.73 m)          |
| <b>R.</b> Track gauge   | 58.6 in (1.49 m)          |
| <b>S.</b> Over the track width                                | 76.5 in (1.94 m)          |

## TRACK SELECTION

| Type             | Area   | Ground Pressure  | Width to Outside Track |
|------------------|--|------------------|------------------------|
| 17.7 in (450 mm) | 2,286 in <sup>2</sup> (1.48 m <sup>2</sup> ) | 4.2 psi (29 kPa) | 76 in (1.93 m)         |

## OPTIONAL BUCKETS

| Type                                    | 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> ) |
| 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> ) |
| Heavy-Duty Extended with SmartFit Teeth | 72 in (1.83 m) | 667 lb (303 kg) | 17.4 ft <sup>3</sup> (0.49 m <sup>3</sup> ) |
|   | 78 in (1.98 m) | 697 lb (316 kg) | 18.9 ft <sup>3</sup> (0.54 m <sup>3</sup> ) |
|   | 84 in (2.13 m) | 728 lb (330 kg) | 20.5 ft <sup>3</sup> (0.58 m <sup>3</sup> ) |

## 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 - 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

### LOADER

Manual attachment coupler  
 Vertical 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 and fuel filters  
 Block heater  
 Debris ingress 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  
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) – 37.6 gpm  
(142.5 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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