



ENGINE

| | |
|------------------------------------|--------------------------------------------------------------------------------------|
| Model | FPT F5H FL463 A*F001 |
| Emissions Certification | Tier 4 Final |
| Type | Diesel 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 | Beta (30) = 200/spin-on |
| Main filter | Beta (4) = 20/spin-on |
| Air intake | Turbocharged w/ waste gate and external cooled EGR |
| Exhaust aftertreatment | Particulate Matter Catalyst – PM Catalyst |
| 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 | 2.77 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: | |
| 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° |

LIFT GEOMETRY

Radial Lift

DRIVETRAIN

| | |
|--------------------------|--------------------------------------------|
| Drive pump controls | Direct mechanical |
| Pump to engine ratio | 1:1 |
| Displacement | 2.81 in ³ (46 cm ³) |
| 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 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 | 28.7 in ³ (470 cm ³) |
| Displacement – optional: | |
| High speed | 17.2 in ³ (282 cm ³) |
| Motor RPM @ high idle and 97% efficiency: | |
| Standard 1-speed | 241 |
| Optional 2-speed | 355 |
| 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 | 7.1 mph (11.4 kph) |
| High range – optional | 10.5 mph (16.9 kph) |

| | |
|-------------|------------------------------|
| Final drive | Single-reduction chain drive |
|-------------|------------------------------|

| | |
|------------------|----------------------|
| Drive chain: | |
| Size | ASA #100 |
| Tensile strength | 30,000 lb (133.4 kN) |

| | |
|---------------------------------------------------|-------------------------|
| Axles: | |
| Torque @ max. displacement and relief pressure | 5,957 lb-ft (8 077 N·m) |
| Diameter | 2.44 in (61.9 mm) |
| Length | 15.7 in (399.0 mm) |

| | |
|----------------|---------------------------------------------------------------------------------------------------------------|
| Parking brake: | |
| Type | Spring-applied, hydraulic 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 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 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.

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; 72 in Dirt & Foundry bucket; full of fuel; 12 x 16.5 tires: | 6,970 lb (3 160 kg) |
| Shipping weight | 6,670 lb (3 025 kg) |

| | |
|--------------------------|------------------|
| Add-on weights: | |
| Side cab glass | 47 lb (21.3 kg) |
| Polycarbonate cab door | 74 lb (33.6 kg) |
| Glass cab door w/ wiper | 134 lb (60.8 kg) |
| Suspension seat | 22 lb (10.0 kg) |
| Additional counterweight | 140 lb (63.8 kg) |

HYDRAULICS

| | |
|---------------------|----------------------------------------------|
| Implement pump type | Gear |
| Displacement: | |
| Standard aux. | 2.23 in ³ (36.6 cm ³) |
| High-flow aux. | 0.84 in ³ (13.8 cm ³) |

| | |
|--------------------------------------------------------|-----------------------|
| Standard flow @ rated engine RPM: @ 100% efficiency | 24.2 gpm (91.5 L/min) |
|--------------------------------------------------------|-----------------------|

| | |
|-------------------------------------------------------------|------------------------|
| Optional high-flow @ rated engine RPM: @ 100% efficiency | 33.2 gpm (125.7 L/min) |
|-------------------------------------------------------------|------------------------|

| | |
|-----------------------|-------------------------------------|
| Loader control valve: | |
| Type | 3 spool/open center/series - series |
| Relief pressure | 3,050 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 x 1 |
| Area | 137.5 in ² (890 cm ²) |

| | |
|------------------|-----------------------|
| Hydraulic filter | Beta (4) = 75/spin-on |
|------------------|-----------------------|

HYDRAULICS CONT.

| | |
|-------------------|-----------------------|
| 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) |

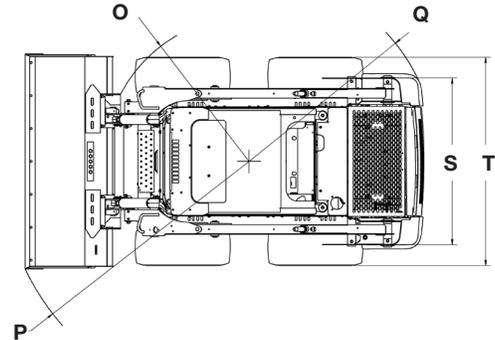
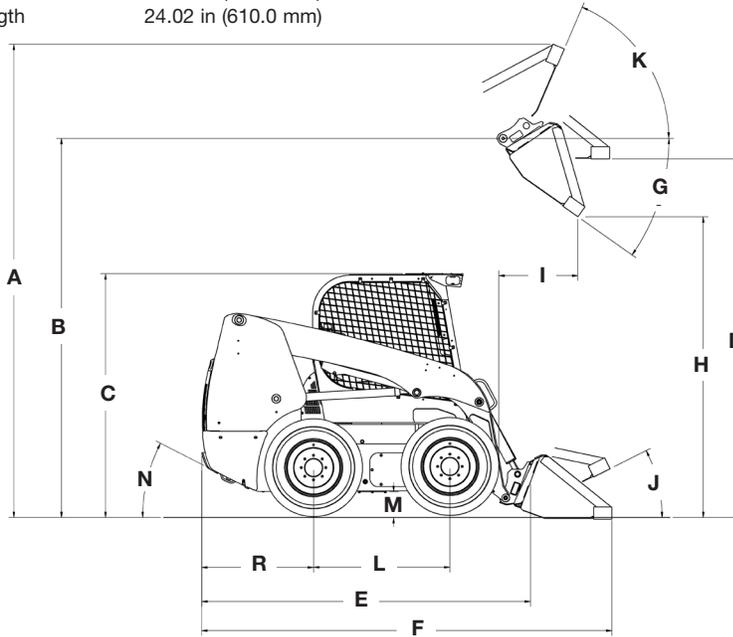
SERVICE CAPACITIES

| | |
|------------------------|-------------------|
| Fuel tank | 19.5 gal (73.8 L) |
| Engine oil w/ filter | 10.0 qt (9.4 L) |
| Hydraulic system: | |
| Reservoir | 7.0 gal (26.5 L) |
| Total | 8.5 gal (32.2 L) |
| Chain tanks – per side | 6.9 gal (26.0 L) |

PERFORMANCE SPECS

| | |
|-----------------------------------------|---------------------|
| Rated operating capacity – ROC*: | |
| 50% of tipping load | 2,100 lb (953 kg) |
| w/ additional counterweight | 2,200 lb (998 kg) |
| Tipping load* | 4,200 lb (1 905 kg) |
| Breakout forces @ 3,150 psi (217 bar)*: | |
| Bucket cylinders | 7,270 lb (32.3 kN) |
| Lift cylinders – tip limit | 4,570 lb (20.3 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 | | 154.3 in (3.92 m) |
| with low profile bucket | | 158.3 in (4.05 m) |
| with low profile extended bucket | | 163.2 in (4.15 m) |
| Height to: | | |
| B. Bucket hinge pin | | 123.0 in (3.12 m) |
| C. Top of ROPS | | 78.7 in (2.00 m) |
| D. Bottom of level bucket, fully raised | | 116.1 in (2.95 m) |
| Overall length: | | |
| E. without attachment with coupler | | 105.1 in (2.67 m) |
| F. with foundry/excavating bucket on ground | | 129.6 in (3.29 m) |
| with low profile bucket | | 133.7 in (3.40 m) |
| with low profile extended bucket | | 138.8 in (3.53 m) |
| G. Maximum dump angle | | 39.6° |
| H. Dump height: | | |
| with foundry/excavating bucket | | 98.2 in (2.50 m) @ 39.6° |
| with low profile bucket | | 95.6 in (2.43 m) @ 39.6° |
| I. Dump reach at maximum height with low profile bucket | | 23.4 in (0.60 m) @ 39.6° |
| Maximum attachment rollback: | | |
| J. Bucket on ground | | 31.0° |
| K. Bucket at full height | | 98.6° |
| L. Wheelbase | | 44.4 in (1.13 m) |
| M. Ground clearance – bottom of belly pan | | 8.0 in (0.20 m) |
| N. Angle of departure | | 25.0° |
| Clearance circle: | | |
| O. without bucket | | 50.7 in (1.29 m) |
| P. with 72 in (1.83 m) foundry/excavating bucket in carry position | | 79.9 in (2.03 m) |
| with 72 in (1.83 m) low profile bucket on ground | | 83.1 in (2.11 m) |
| with 72 in (1.83 m) extended low profile on ground | | 87.7 in (2.23 m) |
| Q. Clearance circle rear | | 62.9 in (1.60 m) |
| R. Rear axle to bumper | | 36.4 in (0.92 m) |
| S. Tread over gauge with spec lines | | 56.9 in (1.45 m) |
| T. Over the tire width spec tires | | 70.0 in (1.78 m) |

TIRE SELECTION

| Type | Size | Thread Gauge | Over Tires Width | Each Tire Weight* |
|-----------------------|--------------------|------------------|------------------|-------------------|
| Heavy-Duty | 10 L x 16.5 | — | 64.0 in (1.63 m) | 87 lb (39.5 kg) |
| Premium | 10 L x 16.5 | — | 64.0 in (1.63 m) | 96 lb (44.0 kg) |
| Premium-Lined | 10 L x 16.5 | — | 64.0 in (1.63 m) | 63 lb (28.5 kg) |
| Severe-Duty | 10 L x 16.5 | — | 64.0 in (1.63 m) | 115 lb (52.5 kg) |
| Non-Pneumatic – Solid | 10 L x 16.5 | — | 64.0 in (1.63 m) | 229 lb (104.0 kg) |
| Heavy-Duty | 12 L x 16.5 | 56.9 in (1.45 m) | 70.0 in (1.78 m) | 110 lb (50.0 kg) |
| Premium | 12 L x 16.5 | 56.9 in (1.45 m) | 70.0 in (1.78 m) | 120 lb (54.5 kg) |
| Premium-Lined | 12 L x 16.5 | 56.9 in (1.45 m) | 70.0 in (1.78 m) | 120 lb (54.5 kg) |
| Severe-Duty | 12 L x 16.5 | 56.9 in (1.45 m) | 70.0 in (1.78 m) | 134 lb (61.0 kg) |
| Mining | 12 L x 16.5 | 56.9 in (1.45 m) | 70.0 in (1.78 m) | 380 lb (127.0 kg) |
| Non-Pneumatic – Solid | 12 L x 16.5 | 56.9 in (1.45 m) | 70.0 in (1.78 m) | 280 lb (127.0 kg) |
| Flotation | 33 L x 15.5 x 16.5 | — | 76.0 in (1.93 m) | 143 lb (65.0 kg) |

NOTE: *Tire weight does not include the wheel weight.

OPTIONAL BUCKETS

| Type | Width | Weight | Heaped Capacity |
|----------------------------|----------------|-----------------|---------------------------------------------|
| Dirt & Foundry | 66 in (1.68 m) | 385 lb (175 kg) | 14.8 ft ³ (0.42 m ³) |
| | 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 | 66 in (1.68 m) | 440 lb (200 kg) | 13.4 ft ³ (0.38 m ³) |
| | 72 in (1.83 m) | 480 lb (218 kg) | 14.8 ft ³ (0.42 m ³) |
| Low Profile Extended | 66 in (1.68 m) | 470 lb (214 kg) | 15.9 ft ³ (0.45 m ³) |
| | 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) |
| | 84 in (2.13 m) | 545 lb (248 kg) | 22.6 ft ³ (0.64 m ³) |
| Heavy-Duty | 66 in (1.68 m) | 450 lb (205 kg) | 13.1 ft ³ (0.37 m ³) |
| | 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 with spillguard | 66 in (1.68 m) | 520 lb (235 kg) | 16.6 ft ³ (0.47 m ³) |
| | 72 in (1.83 m) | 585 lb (265 kg) | 18.4 ft ³ (0.52 m ³) |
| | 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
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

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

Integral engine oil cooler
Fuel filter with water trap
1,000 CCA 12V battery
Master electrical disconnect

DRIVETRAIN

2-speed hydrostatic four wheel drive
ASA #100HS drive chain
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

HYDRAULICS

High-flow auxiliary hydraulics – combined:
@ 3,050 psi (210 bar) – 33.2 gpm
(125.7 L/min)
Second auxiliary hydraulics

LOADER

Auxiliary front electric control
Hydraulic attachment coupler

DRIVETRAIN

1-speed hydrostatic four wheel drive

LOADER

Manual attachment coupler
Radial lift geometry
Loader lift arm support strut
SAE operating load: 2,100 lbs
Tipping load: 4,200 lbs

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 servicing
Rear tail lights
Remote oil drain
Remote oil and fuel filters
Block heater
Debris ingress sealing
Mounting points for add-on counterweights

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

CaseCE.com

©2018 CNH Industrial America LLC. All rights reserved. CASE is a trademark registered in the United States and many other countries, owned by or licensed to CNH Industrial N.V., its subsidiaries or affiliates. CNH Industrial Capital is a trademark in the United States and many other countries, owned by or licensed to CNH Industrial N.V., its subsidiaries or affiliates. Printed in U.S.A. Contains 10% post-consumer fiber.

IMPORTANT: CASE Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Availability of some models and equipment builds vary according to the country in which the equipment is used. The illustrations and text may include optional equipment and accessories and may not include all standard equipment. Your CASE dealer/distributor will be able to give you details of the products and their specifications available in your area.



CASE Construction Equipment is biodiesel-friendly. NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.



Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.

Form No. CCE201811SR210
Replaces Form No. CCE201608SR210T4