





ENGINE	
Model	FPT F5H FL463 B
Emissions Certification	on Tier 4 Final
Type	4-stroke
Cylinders	4
Bore/Stroke	3.9 x 4.3 in (99 x 110 mm)
Displacement	207 in <sup>3</sup> (3.4 L)
Fuel injection	High pressure, common rail injection
Fuel	Diesel
Fuel filter	Spin on, Beta (4) = 20
Air filter	Dry type element warning restriction indicator

Exhaust aftertreatment:

Cooled Exhaust Gas Recirculation (CEGR) w/ Diesel Oxidation Catalyst (DOC)

W/ Diesei Oxidatioi	i Galaiysi (DGG)
Radiator:	
Core type	All aluminum
Fan:	
Style	Direct drive
Lubrication/cooling oil pump:	
Style	Integral
Engine oil:	
Dimen	

Pump:

Rotor Pump w/ deep sump pan, plate cooled & pressurized under piston nozzles

Pump operating angle ratings:

Side-to-side	Rated 35°
Fore and aft	Rated 35°
Oil filtration	Spin on, full flow
Engine speeds	RPM
Rated - full load	2500
Low idle	950
High idle - no load	2500

Horsepower @ 2500 RPM:

Gross 58 hp (43 kW) Net 55 hp (41 kW)

Peak torque @ 1400 RPM:

Gross 181 lb·ft (250 N·m) 181 lb·ft (250 N·m) Net

NOTE: Gross horsepower and torque per SAE J1349. Net horsepower and torque per SAE J1349.

DRIVETRAIN	
Transmission F	Hydrostatic transmission
Pump relief	6,092 psi (42 000 kPa)
Pump flow @ 2500 RPM	26.4 gpm (100 L/min)
Differential: Limited Slip, front and re	ar
Front axles:	Z-bar
Differential ratio	3.63
Planetary ratio	4.24 15.34
	15.54
Gear box: 1st ratio	2.56
10114110	
Planetaries	Outboard
Service brakes: Master cylinder hydraul Z-bar	lically actuated Drum brake system
Parking brake: Mechanical 7-bar	Drum brake system
	Forward Reverse
Travel speeds	mph (kph) mph (kph)
1st Low	4.7 (7.0) 3.1 (5.0)
2nd High	12.4 (20.0) 12.4 (20.0)

ELECTRICAL	
Voltage	12 Volts
Alternator	120 amp
Batteries	95 AHR, 900 CCA

# **OPERATOR ENVIRONMENT**

Base and Deluxe Cab w/ heater and AC; Key start; Articulated power steering w/ tilt column; Full adjustable, cloth suspension seat; Foot throttle; Single joystick w/ electronic speed shift control F/N/R switch proportional loader control and proportional hydraulic auxiliary w/ detent switch hydraulic; 3rd function auxiliary hydraulics; 4 Corner Strobes; Display w/ encoder; SSL compatible coupler; Cup holder; High visibility orange seat belt; Sun screen - front; Opening side window; Dome light; Wipers - front and rear; 12-volt auxiliary power; Lighter cigar and ashtray; Pocket cellular phone; Coat hook; External rearview mirrors; Loader control lockout; Storage tray and Telescopic steering wheel w/ Deluxe Cab.

Electronic information center

Displays/Gauges:

Fuel Level, Engine Coolant temperature, Engine RPM, Vehicle Speed, Floating Functionality On/Off, Vehicle Hours, Vehicle Direction F/R, Gear number engaged, Clock.

Indicator lights:

Main hydraulic enabled; Turn signal - left and right; Rear work lamps; Work lamps; Main high beam; Side lights; Stop; Warning signal; Rabbit; Hand brake; Brake fluid level; Quick coupler on; Ride Control on; Creep speed; Low fuel level; Clogging air filter; Engine oil pressure; Glow plug; Alternator changing.

Audible alarms:

Caution alarm; Critical alarm; Backup alarm.

Horn

NOTE: If equipped w/ option.

### **OPERATING WEIGHT**

Z-Bar:

Unit equipped w/ ROPS/FOPS cab w/ heater & A/C, standard counterweight, 12.5-18 PRMPT Dunlop tires, front and rear fenders, 0.92 yd3 (0.7 m³) general purpose bucket w/ bolt on edge, full fuel, 165 lb (75 kg) operator:

10,518 lb (4 771 kg)

### **HYDRAULICS**

Pump - steering/implement:

Open-centered pressure/flow compensated

Fixed gear type:

Max. 17.7 gpm @ 2500 RPM @ 3,046 psi (Max. 67 L/min @ 2500 RPM @ 21 000 kPa)

Electro-Hydraulic (EH) joystick loader control: Forward/Neutral/Reverse switch, Floating switch, Low/High Travel mode switch, 3rd Function Auxiliary Roller control

EH Joystick loader control adjustability switch for lift and tilt functions; Return to dig; Skid steer style; Connect under pressure connectors; Remote drain of hydraulic oil; Auxiliary hydraulic drain line coupling

Loader auxiliary steering:

Hydraulic orbital center-pivot articulating w/ on-demand oil flow

Main relief pressure:

Z-bar 3,046 psi (21 000 kPa)

Filtration:

10-micron, full flow replaceable cartridges on return line

# SERVICE CAPACITIES

22.7 gal (86.0 L)
10.6 gal (40.0 L)
14.0 gal (53.0 L)
0.8 gal (3.8 L)
0.99 gal (4.5 L)
1.8 gal (7.0 L)
3.4 gal (13.0 L)

NOTE: \*1.72 gal (6.5 L) antifreeze + 1.72 gal (6.5 L) water.

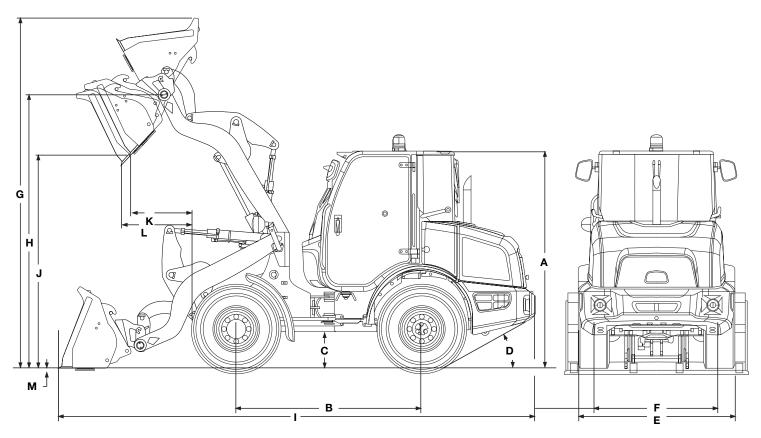
OTHER SPECIFICATIONS	
Lift cylinder – Z-Bar	Two (2)
Bore diameter	4 in (101.6 mm)
Rod diameter	2.0 in (50.8 mm)
Stroke	27.68 (703 mm)
Tilt cylinder - Z-Bar:	
Bore diameter	3.75 in (95.3 mm)
Rod diameter	2.0 in (50.8 mm)

Stroke

12.6 (306 mm)

Loader:
Z-Bar:
Z-Bar loader linkage
Single control for lift and tilt
Positive hold float
Hydraulic attachment coupler:
Skid steer compatible/horizontal
pin compatible

Cycle time:
Z-Bar:
Raise w/ rated bucket load 6.3 sec
Dump w/ rated bucket load 1.7 sec
Lower – empty 3.8 sec



Line drawings are for illustrative purpose only and may not be exact representation of unit.

DIMENSIONS - Z-BAR AND XR	
A. Height to top of ROPS cab	96.8 in (2 458 mm)
B. Wheelbase	81.7 in (2 075 mm)
C. Ground clearance under shaft	17.5 in (444 mm)
Ground clearence under axles	12.6 in (321 mm)
D. Angle of departure	28°
Width:	
E. Overall without bucket	68.5 in (1 740 mm)
F. Centerline tread	55.1 in (1 400 mm)
Turning radius – outside	146.5 in (3 721 mm)
Turning angle:	
From center	40°
Total angle	80°
Rear axle oscillation – total	18°

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21F Z-Bar	0.92 yd³ GP (0.7 m³) GP Bucket with Bolt-on Edge	1.31 yd <sup>3</sup> GP (1.0 m <sup>3</sup> ) LM Bucket with Bolt-on Edge
ISO bucket capacity – struck	0.65 yd <sup>3</sup> (0.5 m <sup>3</sup> )	1.05 yd3 (0.8 m3)
Heaped	0.92 yd <sup>3</sup> (0.7 m <sup>3</sup> )	1.31 yd <sup>3</sup> (1.0 m <sup>3</sup>
Bucket width – outside	74.8 in (1 900 mm)	80.7 in (2 050 mm
Bucket weight – includes coupler and added components	972 lb (441 kg)	1,091 lb (495 kg
G. Operating height – fully raised with spillguard	160.7 in (4 081 mm)	166.1 in (4 220 mm
H. Hinge pin height – fully raised	123.5 in (3 137 mm)	123.5 in (3 137 mm
Overall length – bucket level on ground	220.9 in (5 612 mm)	224.4 in (5 699 mm
Dump angle – fully raised	46°	46°
J. Dump height – fully raised, 45° dump	90.6 in (2 266 mm)	86.8 in (2 204 mm)
K. Bucket reach – fully raised, 45° dump	36.7 in (933 mm)	39.2 in (995 mm
L. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	42.3 in (1 073 mm)	42.2 in (1 072 mn
M. Dig depth	4.9 in (125 mm)	4.9 in (125 mm
Operating Load (ROC) - ISO	2,768 lb (1 256 kg)	2,718 lb (1 233 kg
Maximum material density – ISO	3,023 lb/yd³ (1 794 kg/m³)	2,078 lb/yd³ (1 233 kg/m³
Tipping load – ISO:		
Straight	6,501 lb (2 949 kg)	6,233 lb (2 904 kg
40° turn	5,536 lb (2 511 kg)	5,285 lb (2 465 kg
Lift capacity:		
Full height	6,720 lb (3 048 kg)	6,651 lb (3 017 kg
Maximum reach	7,620 lb (3 456 kg)	7,517 lb (3 410 kg
Ground	10,388 lb (4 712 kg)	10,308 lb (4 675 kg
Breakout force with tilt cylinder	8,301 lb (3 765 kg)	7,364 lb (3 340 kg
Maximum rollback:		
@ Ground	45°	45
@ Carry position	52°	52
@ Maximum reach	57°	57
@ Full height	71°	71
Maximum grading angle with bucket – back dragging	47°	52
Loader clearance circle with bucket	345.2 in (8 768 mm)	352.7 in (8 959 mm

FORKS	
21F Z-Bar	
Fork length	47.2 in (1 200 mm)
Fork weight – includes coupler	869 lb (394 kg)
Operating load – level ground	3,261 lb (1 479 kg)
Operating mass	10,238 lb (4 644 kg)
Tipping load – straight	4,756 lb (2 157 kg)
Tipping load – 40° turn	4,077 lb (1 849 kg)
Fork load center	19.7 in (500 mm)

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#### STANDARD EQUIPMENT

# **OPERATOR ENVIRONMENT**

See page 1

### **ENGINE**

FPT F5H FL463 B Fuel filter with water trap Dual element air cleaner

# LOADER

See page 2

### DRIVETRAIN

4-wheel drive

Open - Front and rear Hydrostatic transmission Outboard planetary axles

Mechanical parking brake

# **HYDRAULICS**

3-spool loader control valve

Single joystick with electronic speed shift control F/N/R switch and proportional loader control

Adjustable electro hydraulic (EH) loader controls Smooth, moderate & aggressive settings for both lift and tilt responsiveness:

Return to Dig

Hydraulic skid steer compatible coupler Connect under pressure connectors

Remote drain of hydraulic oil Aux. Hydraulic drain line coupling

### **OTHER**

Front and rear fenders

Lights:

2 Front driving headlights - high/low beam

2 Rear flood lights

2 Stop tail lights and backup light

Front and rear turn signal/flash

Drawbar pin

Articulation locking pin

Tie-down and Lift-up point - front and rear

Backup alarm

Tool box

Rotating beacon

Wired for radio

Bucket position indicator

Front electrical socket for powered attachments

CASE SiteWatch™ Telematics

Includes hardware and a 5-yr advanced data subscription

### OPTIONAL EQUIPMENT

# **OPERATOR ENVIRONMENT**

Creep speed 0 - 3.1 mph (5 kph)TeleScop adjustable steering column on

Deluxe Cab

Canopy cab

Horizontal pin coupler

Radio antenna and speakers

### LOADER

Buckets – see performance data:

General purpose standard

General purpose light material

STD forks

Ride Control

mp3 - usb

Cold weather with Block Heater - Two 680 CCA batteries and Low-temp Hytran oil

Limited Slip axles - front and rear

#### **TIRES**

12.5-18 1PRMPT-04TBL MITAS 335/80 R18 EM MITAS 335/80 R18 SPT9 L2 DUNL - Standard 365/70 R18 EM MITAS 365/70 R18 SPT9 L2 DUNL

# **OTHER**

LED work lights, 2 front and 2 Rear

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