



ENGINE	
Model	FPT F5H FL463 A
Emissions Certification	n Tier 4 Final
Туре	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 w/ w	Dry type element arning restriction indicator

Exhaust aftertreatment:

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

	, , ,
Radiator:	
Core type	All aluminum
Fan:	
Style	Direct drive
Lubrication/cooling oil pump	):
Style	Integral
Engine oil:	
Pump:	
Rotor Pump w/ deep su	mp pan, plate cooled
& pressurized under pist	ton nozzles
Pump operating angle ratir	ngs:
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	74 hp (55 kW)
Net	70 hp (52 kW)
Peak torque @ 1400 RPM:	
Gross	232 lb.ft (314 N.m)

	d taxay a par CAE 11240
Net	227 lb·ft (308 N·m)
Gross	232 lb+ft (314 N+m)

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

#### DRIVETRAIN Transmission Hydrostatic transmission Pump relief 6,092 psi (42 000 kPa) 37.0 gpm (140 L/min) Pump flow @ 2500 RPM Differential: Open standard/limited slip or 100% lock opt. Front axles: Differential ratio Planetary ratio Final axle ratio 22.00 Gear box: 1st ratio Gear box HS: 1st ratio

2nd ratio 1.16 Planetaries Outboard Service brakes: Master cylinder hydraulically actuated, wet disc on front axle

SAHR parking brake: Mechanical, caliper on front axle

Travel speeds	Forward	Reverse
	mph (kph)	mph (kph)
1st Low	3.6 (5.9)	3.6 (5.9)
2nd High	12.4 (20.0)	12.4 (20.0)
Travel speeds - HS	Forward	Reverse
	mph (kph)	mph (kph)
1st Low	3.6 (5.9)	3.6 (5.9)
2nd High	12.4 (14.4)	12.4 (20.0)
3rd High	25 (40.0)	25 (40.0)

NOTE: Travel speeds at full engine throttle w/ 365/80 R29 tires.

# ELECTRICAL

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

## **OPERATOR ENVIRONMENT**

ROPS: ISO 3471: 2,008 lb (6 800 kg); Base and Deluxe Cab w/ heater and A/C; Key start; Articulated power steering w/ tilt column; 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; Cup holder; High vis orange seat belt; Storage tray on Deluxe Cab; 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; 4 Corner Strobes; Display w/ encoder; SSL compatible coupler.

Electronic information center

Displays/Gauges:

Vehicle speed; Hourmeter; Floating functionality on; High flow functionlity on; Clock; Vehicle directions; Gear number engaged; PM Catalyst icons.



Diff. lock; Main hydraulic enabled; Turn light -
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; PM
Catalyst; Low fuel level; Clogging air filter; Engine
oil pressure; Glow plug; Alternator changing.

COMPACT WHEEL LOADER **TIER 4 FINAL CERTIFIED** 

#### Audible alarms:

Caution alarm; Critical alarm; Backup alarm. Horn

NOTE: If equipped w/ option.

## **OPERATING WEIGHT**

Z-Bar:

3.67

6.00

2.46

2.75

Unit equipped w/ ROPS/FOPS cab w/ heater, standard HD counterweight, 365/80 R20 Dunlop tires, front and rear fenders, 1.3 yd<sup>3</sup> (1.0 m<sup>3</sup>) general purpose bucket w/ edge, full fuel, 165 lb (75 kg) operator:

13,633 lb (6 184 kg)

# **HYDRAULICS**

Pump – steering/implement: Open-centered pressure/flow compensated			
Fixed gear type:			
Standard flow:			
Max. 22.5 gpm @ 3,3	Max. 22.5 gpm @ 3,336 psi		
(Max. 85 L/min @ 230 bar)			
Optional high flow:			
Max. 34.3 gpm @ 2,901 psi			
(Max. 130 L/min @ 2	00 bar)		
Loader control valve:			
Open-center circuit. Electro-hydraulic control			
w/single lever includes: Forward/Neutral/Reverse			
switch, Floating switch, Low/High Travel mode			
switch, Auxiliary Function	on Roller		
Loader auxiliary steering			
Main relief pressure	3,336 psi (23 000 kPa)		
Filtration:			
15 mioron full flow ron	laaaabla aartridaaa		

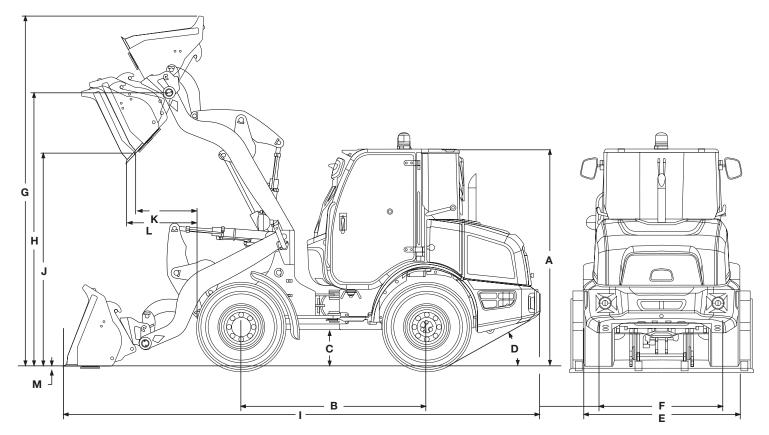
15-micron, full flow replaceable cartridges on return line

## SERVICE CAPACITIES

Fuel tank	22.7 gal (86.0 L)	
Hydraulic system:		
Reservoir	10.6 gal (40.0 L)	
Total	14.0 gal (53.0 L)	
Front and rear axle:		
Front axle	1.6 gal (7.3 L)	
Rear axle	1.9 gal (8.9 L)	
Rear axle HS	2.3 gal (10.5 L)	
Engine oil w/ filter	1.8 gal (7.0 L)	
Cooling*	3.4 gal (13.0 L)	
NOTE: $*1.72$ gal (6.5.1.) antifreeze $\pm 1.72$ gal		

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

OTHER SPECIFICATIONS		Loader:	Cycle time:	
Lift cylinders Bore diameter Rod diameter Stroke	Two (2) 3.25 in (82.5 mm) 1.97 in (50.0 mm) 29.57 in (751.0 mm)	Z-Bar: Z-Bar loader linkage Single control for lift and tilt Positive hold float Hydraulic attachment coupler:	Z-Bar: Raise w/ rated bucket load Dump w/ rated bucket load Lower – empty	5.8 0.9 3.8
Tilt cylinder: Bore diameter Rod diameter Stroke	3.49 in (88.7 mm) 2.25 in (57.1 mm) 22.24 in (535.0 mm)	- Hydraulic attachment coupler: Skid steer compatible/horizontal pin compatible		



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

DIMENSIONS	
A. Height to top of ROPS cab	105.5 in (2 680 mm)
B. Wheelbase	87.6 in (2 225 mm)
C. Ground clearance under shaft	19.4 in (493 mm)
Ground clearence under axles	14.6 in (370 mm)
D. Angle of departure	32°
Width:	
E. Overall without bucket	73.2 in (1 860 mm)
F. Centerline tread	59.1 in (1 500 mm)
Turning radius – outside	157.0 in (3 987 mm)
Turning angle:	
From center	40°
Total angle	80°
Rear axle oscillation – total	20°

PERFORMANCE SPECS		
321F Z-Bar	1.3 yd <sup>3</sup> GP (1.0 m³) GP Bucket with Bolt-on Edge	1.7 yd <sup>3</sup> GP (1.3 m <sup>3</sup> ) LM Bucket with Bolt-on Edge
ISO bucket capacity – struck Heaped	1.05 yd³ (0.8 m³) 1.31 yd³ (1.0 m³)	1.44 yd <sup>3</sup> (1.1 m <sup>3</sup> ) 1.70 yd <sup>3</sup> (1.3 m <sup>3</sup> )
Bucket width – outside	82.7 in (2 100 mm)	82.7 in (2 100 mm)
Bucket weight – includes coupler and added components	1,045 lb (474 kg)	1,142 lb (518 kg)
G. Operating height - fully raised with spillguard	175.1 in (4 448 mm)	182.1 in (4 626 mm)
H. Hinge pin height – fully raised	133.7 in (3 395 mm)	133.7 in (3 395 mm)
I. Overall length – bucket level on ground	235.4 in (5 980 mm)	238.8 in (6 035 mm)
Dump angle – fully raised	45°	46°
J. Dump height – fully raised, 45° dump	97.1 in (2 467 mm)	95.0 in (2 412 mm)
K. Bucket reach – fully raised, 45° dump	38.7 in (984 mm)	42.4 in (1 077 mm)
L. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	51.5 in (1 308 mm)	53.4 in (1 356 mm)
M. Dig depth	4.5 in (113 mm)	4.5 in (113 mm)
Operating Load (ROC) - ISO	4,265 lb (1 934 kg)	4,316 lb (1 958 kg)
Maximum material density – ISO	3,261 lb/yd <sup>3</sup> (1 935 kg/m <sup>3</sup> )	2,538 lb/yd <sup>3</sup> (1 506 kg/m <sup>3</sup> )
Tipping load – ISO: Straight 40° turn	10,301 lb (4 672 kg) 8,530 lb (3 869 kg)	10,255 lb (4 652 kg) 8,632 lb (3 916 kg)
Lift capacity: Full height Maximum reach Ground	8,036 lb (3 657 kg) 10,022 lb (4 546 kg) 12,972 lb (5 884 kg)	7,996 lb (3 627 kg 9,891 lb (4 487 kg) 12,090 lb (5 484 kg)
Breakout force with tilt cylinder	10,076 lb (4 570 kg)	9,021 lb (4 092 kg)
Maximum rollback: @ Ground @ Carry position @ Maximum reach @ Full height	39° 48° 66° 70°	37° 48° 66° 70°
Maximum grading angle with bucket – back dragging	60°	62°
Loader clearance circle with bucket	373.9 in (9 496 mm)	376.1 in (9 554 mm)

FORKS	
321F Z-Bar	
Fork length	47.2 in (1 200 mm)
Fork weight – includes coupler	394 lb (869 kg)
Operating load – level ground	4,998 lb (2 267 kg)
Operating mass	13,468 lb (6 109 kg)
Tipping load – straight	7,372 lb (3 344 kg)
Tipping load – 40° turn	6,247 lb (2 834 kg)
Fork load center	19.7 in (500 mm)

# STANDARD EQUIPMENT

**OPERATOR ENVIRONMENT** 

## See page 1

## ENGINE

FPT F5H FL463 A Fuel filter with water trap Dual element air cleaner Smart Mode feature

#### LOADER

See page 2

## DRIVETRAIN

4-wheel drive Open - front and rear axles Hydrostatic transmission Single joystick with electronic speed shift control F/N/R switch and proportional loader control Outboard planetary axles Hydraulic wet disc brakes Mechanical parking brake

## **HYDRAULICS**

- 3-spool loader control valve
- 3 Diagnostic guick couplers
- 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
- 22.5 gpm @ 3,336 psi Auxiliary flow (85 l/min @ 230 bar)

# 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 Add 4 corner strobes CASE SiteWatch<sup>™</sup> 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	
Rotating beacon	
Limited slip – front and rear axles	
100% lock – front and open rear axles	
Horizontal pin coupler	
Radio, antenna, and speakers	

## LOADER

Buckets - see performance data: General purpose standard General purpose light material STD forks Auto Ride Control Cold weather with Block Heater - Two 680 CCA batteries and Low-temp Hytran oil Optional High Flow: Max 34.3 gpm @ 3,336 psi (Max 130 L/min @ 200 bar) Adjustable Ride Control Settings

## TIRES

405/70 R20 SPT9 L2 DUNL 14.5-20MPT-04 MITAS 365/80 R20 SPT L2(DL) - Standard 365/80 R20 EM MITAS 405/70 R20 EM MITAS 550/45 R22.5 Flotation Tire 360/80 Nokian Tri 2 Snow

## OTHER

LED work lights, 2 front and 2 Rear

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