

TIER 4 FINAL CERTIFIED





ENGINE			
Model	FPT F5H FL463 A*F001		
Emissions Certification	Tier 4 Final		
Type	4-stroke		
Cylinders	4		
Bore/Stroke	3.9 x 4.3 in (99 x 110 mm)		
Displacement	207 in ³ (3.4 L)		
Fuel injection	High pressure, common rail injection		
Fuel	Diesel		
Fuel filter	Spin on, Beta (4) = 20		
Air filter w/ war	Dry type element ning restriction indicator		
Exhaust aftertreatment: Particulate Matter Catalyst – PM Catalyst			
Radiator: Core type	All aluminum		
Fan: Style	Direct drive		
Lubrication/cooling oil p Style	ump: Integral		
Engine oil:			

Engine oil:	
Pump:	

Net

Deep sump plate cooler w/ pressurized under-piston nozzles

Pump operating angle ratin	igs:
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	233 lb·ft (316 N·m)

227 lb·ft (308 N·m) NOTE: Gross horsepower and torque per SAE J1349. Net horsepower and torque per SAE J1349.

DRIVETRAIN	
Transmission I	Hydrostatic transmission
Pump relief	6,092 psi (42 000 kPa)
Pump flow @ 2500 RPM	37.0 gpm (140 L/min)
Differential: Open standard/limited	slip or 100% lock opt.
Front axles: Differential ratio Planetary ratio Final axle ratio	3.67 6.00 22.00
Gear box: 1st ratio	2.46
Gear box HS: 1st ratio 2nd ratio	2.75 1.16
Planetaries	Outboard
Service brakes: Master cylinder hydrau wet disc on front axle	lically actuated,
Parking brake:	

Mechanical, caliper on front axle		
Travel speeds	Forward	Reverse
	mph (kph)	mph (kph)
1st Low	3.7 (6.0)	3.7 (6.0)
2nd High	12.4 (20.0)	12.4 (20.0)
Travel speeds - HS	Forward	Reverse

Zila riigii	12.4 (20.0)	12.4 (20.0)
Travel speeds - HS	Forward	Reverse
	mph (kph)	mph (kph)
1st Low	3.3 (5.3)	3.3 (5.3)
2nd High	8.9 (14.4)	8.9 (14.4)
3rd High	20.6 (33.1)	20.6 (33.1)

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

Base and Deluxe Cab w/ heater; 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 and proportional loader control; Cup holder; Retractable 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.

Electronic information center

Displays/Gauges:

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

Indicator lights:

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.

Audible alarms:

Caution alarm; Critical alarm; Backup alarm.

NOTE: If equipped w/ option.

OPERATING WEIGHT

Z-Bar:

Unit equipped w/ ROPS/FOPS cab w/ heater, standard counterweight, 365/80 R20 Dunlop tires, front and rear fenders, 1.3 yd³ (1.0 m³) general purpose bucket w/ edge, full fuel, 165 lb (75 kg) operator:

13,303 lb (6 034 kg)

Including optional counterweight:

13,633 lb (6 184 kg)

HYDRAULICS

Pump - steering/implement:

Open-centered pressure/flow compensated

Fixed gear type:

Standard flow:

Max. 22.5 gpm @ 2500 RPM @ 3,626 psi (Max. 85 L/min @ 2500 RPM @ 25 000 kPa)

Optional high flow:

Max. 34.3 gpm @ 2500 RPM @ 2,901 psi (Max. 130 L/min @ 2500 RPM @ 20 000 kPa)

Loader control valve:

Open-center, Hydraulic Loader Control w/ single lever includes: Forward/Neutral/ Reverse switch, Floating switch, Low/High Travel mode switch, Auxiliary Function Roller

Loader auxiliary steering

Main relief pressure 3,336 psi (23 000 kPa)

Filtration:

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	2.3 gal (8.7 L)
Rear axle	2.6 gal (10.0 L)
Rear axle HS	2.5 gal (9.5 L)
Engine oil w/ filter	1.8 gal (7.0 L)
Cooling*	3.4 gal (13.0 L)

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

OTHER SPECIFICATIONS	,
Lift cylinders Bore diameter Rod diameter Stroke	Two (2) 3.3 in (82.5 mm) 2.0 in (50.0 mm) 29.6 in (751.0 mm)
Dump cylinder: Bore diameter Rod diameter Stroke	3.5 in (88.7 mm) 2.3 in (57.1 mm) 20.0 in (507.0 mm)

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

Loader:

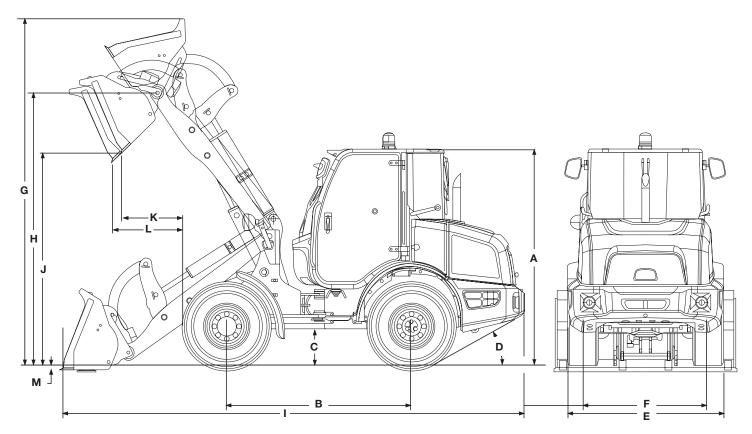
Cycle time:

Z-Bar:

Raise w/ rated bucket load 5.8 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	
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°

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321F Z-Bar	1.3 yd³ GP (1.0 m³) GP	1.7 yd³ GP (1.3 m³) LM
ISO hughest connective atmosp	Bucket with Bolt-on Edge 1.05 vd³ (0.8 m³)	Bucket with Bolt-on Edge 1.44 yd³ (1.1 m³)
ISO bucket capacity – struck Heaped	1.05 yd (0.6 m²)	1.70 yd ³ (1.3 m ³)
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	176.0 in (4 471 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	234.3 in (5 952 mm)	237.6 in (6 036 mm
Dump angle – fully raised	45°	47°
J. Dump height – fully raised, 45° dump	98.1 in (2 493 mm)	96.0 in (2 438 mm)
K. Bucket reach – fully raised, 45° dump	39.5 in (1 003 mm)	43.1 in (1 095 mm
L. Bucket reach - 7 ft 0 in (2.13 m) height, 45° dump	53.0 in (1 347 mm)	55.0 in (1 396 mm
M. Dig depth	3.3 in (84 mm)	3.2 in (83 mm
Operating load – ISO	4,096 lb (1 858 kg)	4,145 lb (1 880 kg
with optional counterweight	4,265 lb (1 934 kg)	4,316 lb (1 958 kg
Maximum material density – ISO	3,131 lb/yd³ (1 858 kg/m³)	2,437 lb/yd³ (1 446 kg/m³
with optional counterweight	3,261 lb/yd³ (1 935 kg/m³)	2,538 lb/yd³ (1 506 kg/m³
Tipping load – ISO:		
Straight	9,740 lb (4 418 kg)	9,877 lb (4 480 kg
Straight with optional counterweight	10,301 lb (4 672 kg)	10,255 lb (4 652 kg
40° turn	8,192 lb (3 716 kg)	8,289 lb (3 760 kg
40° turn with optional counterweight	8,530 lb (3 869 kg)	8,632 lb (3 916 kg
Lift capacity:	0.045 lb (0.705 lcs)	0.040 lb /0.740 lca
Full height	8,345 lb (3 785 kg)	8,249 lb (3 742 kg
Full height with optional counterweight	8,354 lb (3 789 kg)	8,253 lb (3 744 kg
Maximum reach Ground	10,503 lb (4 764 kg) 13,164 lb (5 971 kg)	10,406 lb (4 720 kg 12,975 lb (5 885 kg
Ground with optional counterweight	13,163 lb (5 970 kg)	12,975 lb (5 885 kg
	. , , , , , , , , , , , , , , , , , , ,	. , ,
Breakout force with tilt cylinder	10,076 lb (4 570 kg)	9,021 lb (4 092 kg
Maximum rollback: @ Ground	070	37
	37° 44°	44
Carry position Maximum reach	44° 53°	44 53
@ Full height	53°	53
~	55 65°	66
Maximum grading angle with bucket – back dragging		
Loader clearance circle with bucket	373.9 in (9 496 mm)	376.1 in (9 554 mn

FORKS		
321F Z-Bar		With Optional Additional Counterweight
Fork length	47.2 in (1 200 mm)	47.2 in (1 200 mm)
Fork weight – includes coupler	394 lb (869 kg)	394 lb (869 kg)
Operating load – level ground	4,753 lb (2 156 kg)	4,998 lb (2 267 kg)
Tipping load – straight	6,989 lb (3 170 kg)	7,372 lb (3 344 kg)
Tipping load – 40° turn	5,942 lb (2 695 kg)	6,247 lb (2 834 kg)
Fork load center	19.7 in (500 mm)	19.7 in (500 mm)

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STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

ENGINE

FPT F5H FL463 A*F004 Fuel filter with water trap Dual element air cleaner

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

Hydraulic remote control 3-spool loader control valve 3 Diagnostic quick couplers

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

Wired for radio

Bucket position indicator

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Creep speed 0 - 3.1 mph (5 kph)

TeleScop adjustable steering column on

Deluxe Cab

Rotating beacon

Limited slip - front and rear axles

100% lock - front and rear axles

Mechanical coupler

Horizontal pin coupler

Air conditioning

Radio ready antenna and speakers

LOADER

Additional auxiliary flow:

Max. 22.5 gpm @ 2500 RPM @ 3,626 psi

(Max. 85 L/min @ 2500 RPM @ 25 000 kPa)

Optional High flow:

Max. 34.3 gpm @ 2500 RPM @ 2,901 psi (Max. 130 L/min @ 2500 RPM @ 20 000 kPa)

Buckets - see performance data:

General purpose standard

General purpose light material

4-IN-1®

STD forks

Tiltable forks

Auto Ride Control

Return to dia

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

OTHER

Tool box Counterweight: 330 lb (150 kg) Mounts on rear chassis

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