



ENGINE

Model	FPT F5H FL463 A
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
Exhaust aftertreatment:	
Cooled Exhaust Gas Recirculation (CEGR) w/ Diesel Oxidation Catalyst (DOC)	
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)
Net	227 lb-ft (308 N-m)

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

ELECTRICAL

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

DRIVETRAIN

Transmission	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.	
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.

OPERATOR ENVIRONMENT

ROPS: ISO 3471: 2,008 lb (6 800 kg); Deluxe Cab w/ heater and A/C; Key start; Articulated power steering w/ tilt column; Adjustable, cloth suspension seat; Foot throttle; Seat Mounted 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; 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 functionality on; Clock; Vehicle directions; Gear number engaged.

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.

Horn

OPERATING WEIGHT

Z-Bar Loader Arm:
Unit equipped w/ ROPS/FOPS cab w/ heater, standard HD 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:
13,691 lbs (6 210 kg)

XR Loader Arm:
Unit equipped w/ ROPS/FOPS cab w/ heater, standard HD 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:
13,900 lbs (6 305 kg)

HYDRAULICS

Pump – steering/implement:
Open-centered pressure/flow compensated

Fixed gear type:
Standard flow:
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 @ 200 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 Roller

Loader auxiliary steering

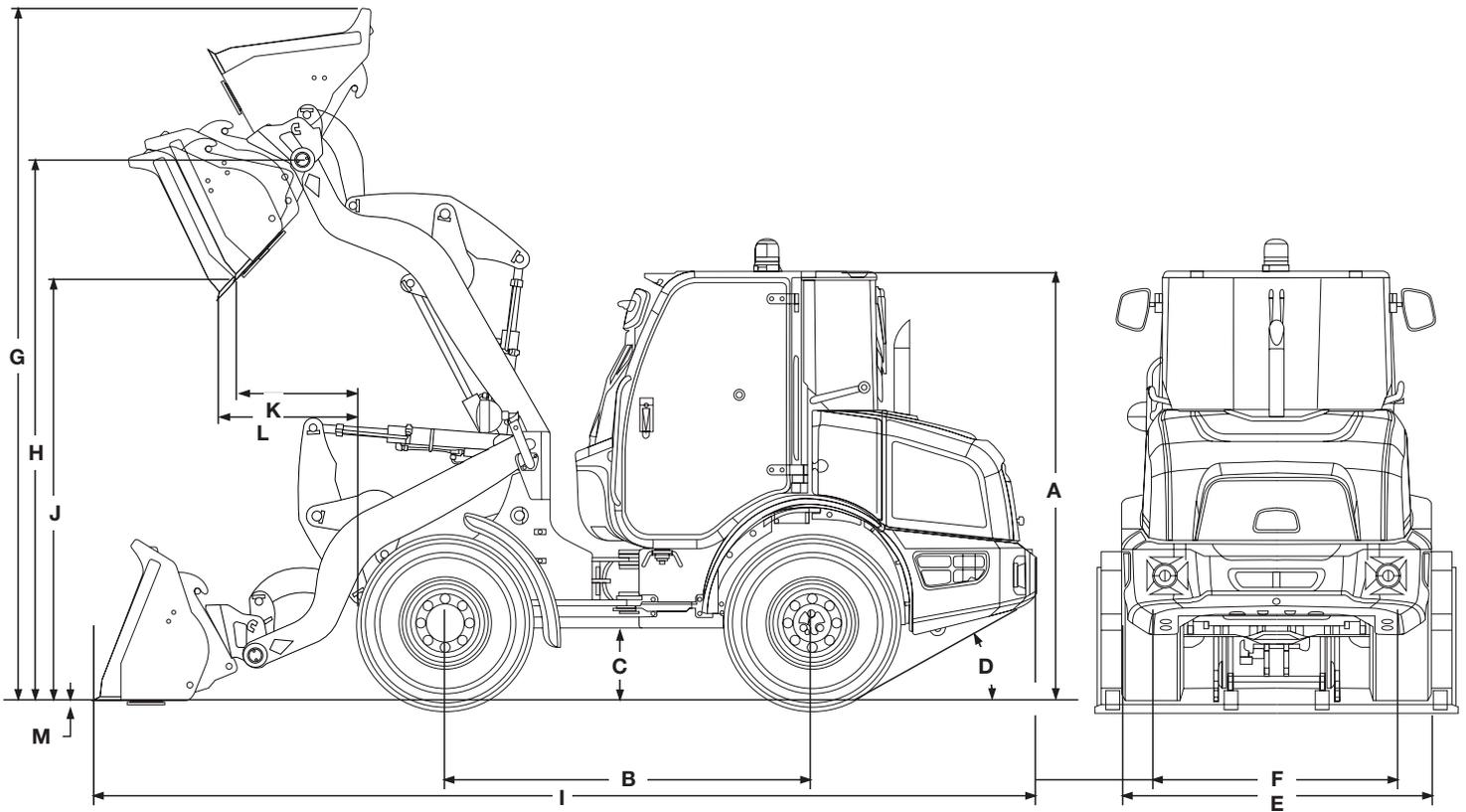
Main relief pressure 3,336 psi (23 000 kPa)

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	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 L) antifreeze + 1.72 gal (6.5 L) water.



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 clearance 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°

FORKS

321G	Z-Bar Loader Arm	XR Loader Arm
Fork length	47.2 in (1 200 mm)	47.2 in (1 200 mm)
Fork weight – includes coupler	869 lb (394 kg)	934 lb (428 kg)
Operating load – level ground	4,998 lb (2 267 kg)	4,185 lb (1 898 kg)
Operating mass	13,468 lb (6 109 kg)	13,613 lb (6 175 kg)
Tipping load – straight	7,372 lb (3 344 kg)	6,136 lb (2 783 kg)
Tipping load – 40° turn	6,247 lb (2 834 kg)	5,433 lb (2 465 kg)
Fork load center	19.7 in (500 mm)	19.7 in (500 mm)

PERFORMANCE SPECS

321G Z-Bar	1.3 yd³ (1.0 m³) GP Bucket with Bolt-on Edge	1.7 yd³ (1.3 m³) LM Bucket with Bolt-on Edge
ISO bucket capacity: Struck	1.05 yd ³ (0.8 m ³)	1.44 yd ³ (1.1 m ³)
Heaped	1.31 yd ³ (1.0 m ³)	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	1,076 lb (488 kg)	1,173 lb (532 kg)
G. Operating height – fully raised with spillguard	175.1 in (4 448 mm)	168.0 in (4 276 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	232.5 in (5 905 mm)	236.6 in (6 010 mm)
Dump angle – fully raised	46°	46°
J. Dump height – fully raised, 45° dump	99.3 in (2 521 mm)	96.3 in (2 447 mm)
K. Bucket reach – fully raised, 45° dump	37.0 in (940 mm)	39.9 in (1 014 mm)
L. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	51.4 in (1 305 mm)	52.0 in (1 322 mm)
M. Dig depth	5.2 in (131 mm)	5.3 in (134 mm)
Operating Load (ROC) – ISO	4,233 lb (1 920 kg)	4,236 lb (1 922 kg)
Maximum material density – ISO	3,273 lb/yd ³ (1 920 kg/m ³)	2,492 lb/yd ³ (1 478 kg/m ³)
Tipping load – ISO: Straight	10,182 lb (4 618 kg)	10,376 lb (4 706 kg)
40° turn	8,466 lb (3 840 kg)	8,473 lb (3 843 kg)
Lift capacity: Full height	7,999 lb (3 628 kg)	7,932 lb (3 598 kg)
Maximum reach	9,964 lb (4 520 kg)	9,834 lb (4 461 kg)
Ground	12,770 lb (5 792 kg)	12,178 lb (5 524 kg)
Breakout force with tilt cylinder	10,629 lb (4 821 kg)	9,407 lb (4 267 kg)
Maximum rollback: @ Ground	39°	37°
@ Carry position	48°	48°
@ Maximum reach	66°	66°
@ Full height	70°	70°
Maximum grading angle with bucket – back dragging	59°	62°
Loader clearance circle with bucket	371.7 in (9 441 mm)	374.1 in (9 503 mm)

321G XR	1.3 yd³ (1.0 m³) GP Bucket with Bolt-on Edge	1.7 yd³ (1.3 m³) LM Bucket with Bolt-on Edge
ISO bucket capacity: Struck	1.05 yd ³ (0.8 m ³)	1.44 yd ³ (1.1 m ³)
Heaped	1.31 yd ³ (1.0 m ³)	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	1,230 lb (558 kg)	1,329 lb (603 kg)
G. Operating height – fully raised with spillguard	186.2 in (4 730 mm)	193.3 in (4 909 mm)
H. Hinge pin height – fully raised	145.9 in (3 705 mm)	145.9 in (3 705 mm)
I. Overall length – bucket level on ground	249.8 in (6 344 mm)	253.9 in (6 449 mm)
Dump angle – fully raised	46°	46°
J. Dump height – fully raised, 45° dump	110.4 in (2 803 mm)	107.4 in (2 729 mm)
K. Bucket reach – fully raised, 45° dump	46.3 in (1 177 mm)	49.3 in (1 251 mm)
L. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	68.9 in (1 749 mm)	70.0 in (1 777 mm)
M. Dig depth	14.5 in (369 mm)	14.5 in (369 mm)
Operating Load (ROC) – ISO	3,459 lb (1 569 kg)	3,342 lb (1 516 kg)
Maximum material density – ISO	2,645 lb/yd ³ (1 569 kg/m ³)	1,966 lb/yd ³ (1 166 kg/m ³)
Tipping load – ISO: Straight	7,841 lb (3 557 kg)	7,352 lb (3 335 kg)
40° turn	6,919 lb (3 138 kg)	6,684 lb (3 032 kg)
Lift capacity: Full height	6,602 lb (2 995 kg)	6,605 lb (2 951 kg)
Maximum reach	8,356 lb (3 790 kg)	8,255 lb (3 744 kg)
Ground	10,886 lb (4 938 kg)	10,774 lb (4 887 kg)
Breakout force with tilt cylinder	10,545 lb (4 783 kg)	9,344 lb (4 234 kg)
Maximum rollback: @ Ground	40°	40°
@ Carry position	43°	43°
@ Maximum reach	61°	61°
@ Full height	66°	66°
Maximum grading angle with bucket – back dragging	53°	54°
Loader clearance circle with bucket	386.3 in (9 813 mm)	389.8 in (9 901 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

Z-Bar:
Z-Bar loader linkage
Seat Mounted Single Control for lift and tilt
Positive hold float
Hydraulic attachment coupler:
Skid steer compatible/horizontal
pin compatible
Auto Ride Control w/speed settings

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 quick 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
Quick disconnect connectors
Remote drain of hydraulic oil
Aux. Hydraulic drain line coupling

OTHER

Front and rear fenders
Lights:
2 LED Front driving headlights – high/low beam
2 LED 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
4 corner strobes

TELEMATICS

MyCASEConstruction Telematics – Includes
hardware and 7-yr data subscription

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Creep speed 0 – 3.1 mph (5 kph)
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
Cold weather with Block Heater – Two 680
CCA batteries and Low-temp Hytran oil
Optional High Flow
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

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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.

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