



ENGINE	
Model	FPT F5MGL413J
Emissions Tier 4 F	inal/Stage V Certified
Туре	4-cycle
Cylinders	4
Bore/Stroke	4.0 x 4.3 in (102 x 110 mm)
Displacement	220 in <sup>3</sup> (3.6 L)
Fuel injection	High pressure, common rail injection
Fuel	Diesel
Fuel filter S	Spin on, Beta (4) = 20
Air filter w/ warnin	Dry type element g restriction indicator
	ocharger w/ aircooled er treatment system.)
Radiator: Core type	All aluminum
Fan: Style	Direct drive
Lubrication/cooling oil pum Style	p: Integral
Engine oil: Pump: Rotor Pump w/ deep si & pressurized under pis Pump operating angle rati Side-to-side Fore and aft Oil filtration	ston nozzles
Engine speeds Rated – full load Low idle High idle – no load	RPM 2500 950 2500
Horsepower @ 2500 RPM: Peak Net	112 hp (82 kW) 98 hp (72 kW)
Peak torque @ 1400 RPM: Gross Net NOTE: Gross horsepower and	232 lb·ft (314 N·m) 227 lb·ft (308 N·m) d torque per SAE J1349.

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

## DRIVETRAIN

Transmission	Hydrostatic t	ransmission
Pump relief	6,092 psi (	(42 000 kPa)
Pump flow @ 2500 RP	M 42.3 gpm	(160 L/min)
Differential: Standard limited slip,	Optional Diff	Lock.
Planetaries		Outboard
Service brakes: Master cylinder hydraulically actuated, wet disc on front axle		
SAHR parking brake: Mechanical, caliper on front and rear axles		
Travel speeds – HS	Forward mph (kph)	Reverse mph (kph)
Travel speeds – HS 1st Low		
·	mph (kph)	mph (kph)

NOTE: Travel speeds at full engine throttle w/ 17.5 R25 L3 radial.

#### ELECTRICAL

Voltage	12 Volts
Alternator	160 amp
Batteries	95 AHR, 900 CCA

## **OPERATOR ENVIRONMENT**

ROPS: ISO 3471: 2008; 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 rear-view mirrors; Loader control lockout; 4 Corner Strobes; Display w/ encoder and integrated backup camera; 416 JRB compatible coupler

Electronic information center

Displays/Gauges: Vehicle speed; Hourmeter; Floating functionality on; High flow functionality 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; SAHR 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

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NOTE: If equipped w/ option.

# OPERATING WEIGHT

#### Z-Bar:

Unit equipped w/ ROPS/FOPS cab w/ heater, standard counterweight, 17.5R25 XHA2 L3 Michelin tires, front and rear fenders, 1.9 yd<sup>3</sup> (1.5 m<sup>3</sup>) general purpose bucket w/ edge, full fuel, 165 lb (75 kg) operator:

19,775 lb (8 970 kg)

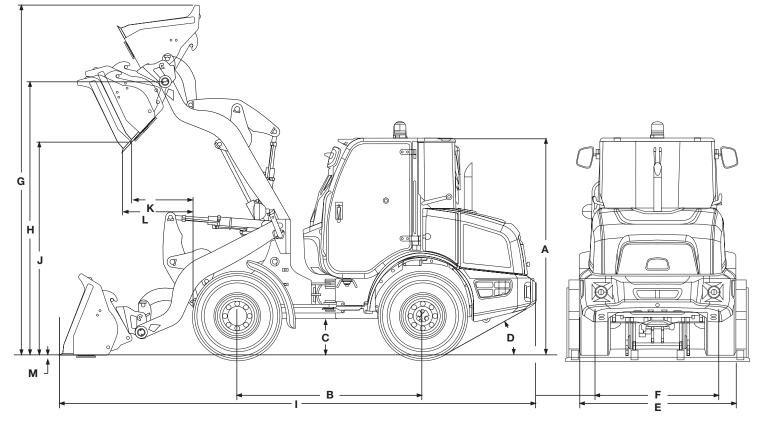
COMPACT WHEEL LOADER TIER 4 FINAL CERTIFIED

#### HYDRAULICS

Pump – steering/implement: Open-centered pressure/flow compensated		
Fixed gear type: Standard flow: Max. 25.1 gpm @ 3,336 psi (Max. 95 L/min @ 230 bar) Optional high flow: Max. 33.0 gpm @ 4,061 psi (Max. 125 L/min @ 280 bar)		
Loader control valve: Closed-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 2,920 psi (20 133 kPa)		
Filtration: 15-micron, full flow replaceable cartridges on return line		
SERVICE CAPACITIES	;	
Fuel tank	31.1 gal (118.0 L)	
DEF tank	5.7 gal (21.5 L)	
Hydraulic system: Reservoir Total	19.3 gal (73.0 L) 24.0 gal (92.0 L)	
Front and rear axle: Front axle	2.4 gal (8.9 L)	
Rear axle	2.4 gal (8.9 L)	
Rear axle Engine oil w/ filter	0 ( )	

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

OTHER SPECIFICAT	TONS	Loader:	Cycle time:
Lift cylinders Bore diameter Rod diameter Stroke	Two (2) 4.00 in (101.6 mm) 2.25 in (57.2 mm) 31.79 in (807.5 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 loa Dump w/ rated bucket loa Lower – empty
Tilt cylinder: Bore diameter Rod diameter Stroke	4.25 in (108.0 mm) 2.25 in (57.1 mm) 20.94 in (531.9 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.

Machine equipped with JRB coupler 1.96 yd  $^{\rm 3}$  (1.5 m  $^{\rm 3}$  bucket) 17.5R25 XHA2 L3 Michelin.

DIMENSIONS	
A. Height to top of ROPS cab	118.8 in (3 017 mm)
B. Wheelbase	102.4 in (2 600 mm)
C. Ground clearance under shaft	13.7 in (349 mm)
Ground clearance under axles	19.2 in (488 mm)
D. Angle of departure	33°
Width: E. Overall without bucket F. Centerline tread	90.1 in (2 289 mm) 70.9 in (1 800 mm)
Turning radius – outside	185.7 in (4 716 mm)
Turning angle: From center Total angle	40° 80°
Rear axle oscillation - total	20°

5.8 sec 0.9 sec 3.8 sec

PERFORMANCE SPECS		
421G Z-Bar	1.9 yd <sup>3</sup> GP (1.5 m <sup>3</sup> ) GP JRB Bucket with Bolt-on Edge	2.2 yd <sup>3</sup> GP (1.7 m <sup>3</sup> ) LM Bucket with Bolt-on Edge
ISO bucket capacity – struck Heaped	1.70 yd³ (1.3 m³) 1.96 yd³ (1.5 m³)	1.90 yd <sup>3</sup> (1.45 m <sup>3</sup> ) 2.2 yd <sup>3</sup> (1.7 m <sup>3</sup> )
Bucket width – outside	94.5 in (2 400 mm)	94.5 in (2 400 mm)
Bucket weight – includes coupler and added components	1,684 lb (764 kg)	1,772 lb (804 kg)
G. Operating height - fully raised with spillguard	194.3 in (4 934 mm)	194.3 in (4 934 mm)
H. Hinge pin height – fully raised	146.2 in (3 714 mm)	146.2 in (3 714 mm)
I. Overall length – bucket level on ground	251.6 in (6 390 mm)	251.6 in (6 390 mm)
Dump angle – fully raised	45°	45°
J. Dump height – fully raised, 45° dump	106.4 in (2 702 mm)	104.6 in (2 656 mm)
K. Bucket reach – fully raised, 45° dump	34.6 in (880 mm)	36.5 in (927 mm)
L. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	53.0 in (1 346 mm)	53.5 in (1 359 mm)
M. Dig depth	3.4 in (86 mm)	3.5 in (90 mm)
Operating Load (ROC) – ISO	6,476 lb (2 937 kg)	6,347 lb (2 879 kg)
Maximum material density (Rigid) – ISO	3,301 lb/yd <sup>3</sup> (1 959 kg/m <sup>3</sup> )	2,885 lb/yd <sup>3</sup> (1 309 kg/m <sup>3</sup> )
Tipping load – ISO: (Rigid) Straight 40° turn	14,718 lb (6 676 kg) 12,952 lb (5 875 kg)	14,436 lb (6 548 kg) 12,694 lb (5 758 kg)
Lift capacity: Full height Maximum reach Ground	14,826 lb (6 725 kg) 14,334 lb (6 502 kg) 15,333 lb (6 955 kg)	14,716 lb (6 675 kg) 13,380 lb (6 069 kg) 14,308 lb (6 490 kg)
Breakout force with tilt cylinder	15,806 lb (7 170 kg)	14,831 lb (6 727 kg)
Maximum rollback: @ Ground @ Carry position @ Maximum reach @ Full height	45° 48° 61° 65°	45° 48° 62° 65°
Maximum grading angle with bucket – back dragging	56°	56°
Loader clearance circle with bucket	412.3 in (10 474 mm)	413.8 in (10 512 mm)

FORKS	
421G Z-Bar	
Fork length	47.2 in (1 200 mm)
Fork weight – includes coupler	1,684 lb (746 kg)
Operating load – level ground	7,255 lb (3 291 kg)
Operating mass	19,775 lb (8 970 kg)
Tipping load – straight	10,725 lb (4 865 kg)
Tipping load – 40° turn	9,453 lb (4 288 kg)
Fork load center	15.0 in (380 mm)

# STANDARD EQUIPMENT

**OPERATOR ENVIRONMENT** 

### See page 1

### ENGINE

FPT F5MGL413J Fuel filter with water trap Dual element air cleaner Smart Mode feature

## LOADER

See page 2

### DRIVETRAIN

4-wheel drive - shift on the fly

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
- SAHR (spring applied hydraulic release) park 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 Connect under pressure connectors Remote drain of hydraulic oil Aux. Hydraulic drain line coupling

Auxiliary flow 25.1 gpm @ 3,336 psi (95 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 Wired for radio Bucket position indicator Front electrical socket for powered attachments 4 corner strobes CASE SiteWatch<sup>™</sup> Telematics CASE Site Connect<sup>™</sup>& Site Manager.<sup>™</sup> 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 Rotating beacon Limited slip - front and rear axles 100% lock - front and open rear axles Radio, antenna, and speakers

# LOADER

Buckets - see performance data:

General purpose standard

General purpose light material

Forks

Auto Ride Control

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

Optional High Flow: Max 33.0 gpm @ 4,061 psi (125 L/min @280 bar)

Adjustable Ride Control Settings

#### TIRES

17.5R25 XHA2 L3 Michelin 17.5R25 L3 Triangle

#### OTHER

LED work lights, 2 front and 2 Rear

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