WHEEL LOADER



1021G

ENGINE

Make	FPT
Model	F2CFE614H
Emissions Certifi	cation Tier 4 Final
Emissions Techn	ology SCR/DOC
Туре	4-stroke, turbocharged and air-to-air cooled
Cylinders	6-cylinder in-line
Bore/Stroke	4.61 x 5.31 in (117 x 135 mm)
Displacement	531 in ³ (8.7 L)
Fuel	#2 Diesel, #1 and #2 mixture permitted for cold temperatures
Fuel injection	Direct injection – electronic
Fuel filter	Replaceable, spin-on cartridge
Fuel pump	Bosch CP 3.3
Gradeability: Side-to-side Fore and aft	35° 35°
Air filter	2-element dry type w/ warning restriction indicator
Rear-mount cool	ing module w/ auto reversing fan:

Rear-mount cooling module w/ auto reversing fan: Rear-mount air /water w/ Lube Oil Cooler

9 blade puller

Fan – hydraulic driven: Style

Diameter	36 in (914 mm)	
Water pump	Integral	
Engine oil pump operating angle ratings:		
Side-to-side	35°	
Fore and aft	35°	
Oil filtration	Replaceable,	
	full flow spin-on cartridge	

Engine speeds RPM
Rated – full load 2100
Horsepower – Maximum Power:

 Peak gross @ 1800 RPM
 318 hp (237 kW)

 Net rated @ 2100 RPM
 270 hp (201 kW)

 Peak net @ 1800 RPM
 304 hp (227 kW)

Torque – Maximum Power:

Net torque rise:

Maximum power range 57%

NOTE: Gross horsepower and torque per SAE J1995. Net horsepower and torque per SAE J1349.

DRIVETRAIN

Transmission:

4F/3R Proportional w/ Electronic Control Module torque sensing autoshift/manual shift and modulation

Gears	Helical cut	
Gear ratios	Forward/Reverse	
1st	3.731/3.731	
2nd	2.207/2.207	
3rd	1.421/0.970	
4th	0.625/ —	
T		

Torque converter:

Stall ratio 3.089:1

Differential:

Front axle equipped w/ locking differential Rear axle equipped w/ open differential

Rear axle oscillation	26° total
Front and rear axles:	Front/Rear
Differential ratio	4.25/4.50
Planetary ratio	6.35/6.00
Final axle ratio	27.00/27.00
Planetaries	Outboard

Service brakes:

Hydraulically actuated, maintenance-free, multiple wet disc w/ accumulator to all four wheels

Brake surface area:

Front hub – each 1,144 in² (0.738 m²) Rear hub – each 841 in² (0.542 m²)

Parking brakes:

Spring-applied hydraulic release disc on transmission output shaft neutralizes power flow to wheels when engaged

Travel speeds – 4-speed transmission:

Traver opecae	i opoda tranomiodiom	
	Forward	Reverse
	mph (kph)	mph (kph)
1st	4.3 (7.0)	4.3 (7.0)
2nd	7.2 (11.6)	7.2 (11.6)
3rd	10.8 (17.4)	15.3 (24.6)
4th	22.0 (35.4)	` _

NOTE: Travel speeds at full engine throttle w/ 26.5-R25 L3 Radial tires.

ELECTRICAL

Voltage	24 Volts, negative ground
Alternator	120 amp
Batteries (2)	12-volt

OPERATOR ENVIRONMENT

ROPS cab AC w/ heat: 8" LCD touchscreen display, adjustable armrest w/3 configurable buttons; Key start; Articulated power steering w/ tilt column; Fully adjustable, heated air-ride seat w/ head rest; AM/FM Bluetooth radio w/ auxiliary input; Cab convenience package: rear sun shade, interior mirror, under the seat drawer, 12V accessory port, & coat hook; Foot throttle; Single lever (joystick) loader control w/ fully adjustable wrist rest, 2 cup holders; 2 interior rear view mirrors; 3 inch (76 mm) retractable seat belt; Integrated 4-corner strobe; Multiple storage trays; Single brake pedal; F/N/R shuttle switch; Left and Right external rear view mirrors; Sound suppression kit; Pressurized air filtering; Anti-glare window strip: Front and Rear Defroster: Side window, partial/fully open; 2 Dome lights; Wipers, rear and intermittent front; Windshield washers, front and rear; Rubber floor mat; Horn.

Dispays/Gauges:

Digital:

Transmission oil temperature; Engine coolant temperature; Fuel level; DEF level.

I CD screen:

Hour meter; Time; FNR indication; Trip computer A/B; Metric/english; Differential lock; Engine speed; Automatic trans indication; DeClutch indication; Fuel consumption; Engine diagnostics; Error reporting; Travel speed; Current gear selection; Engine mode indication; Multiple languages; Transmission diagnostics; Warning prompts.

Audible/Visual alarms:

Warning lights:

Four-way flashers and turn signals; Brake pressure; Lamp/high beam indication; Engine block heater.

Caution warnings:

Parking brake; Coolant temperature; Hydraulic oil temperature; Transmission oil temperature; Air filter; Transmission filter; Hydraulic filter; Alternator; Low fuel. Critical warnings:

Engine oil pressure; Brake pressure; Steering

pressure – w/ aux. steering*; Coolant temperature; Hydraulic oil temperature; Transmission oil temperature.



Backup alarm

Maintenance reminders:

Cab air filter; Engine oil filter; Fuel pre-filter; DEF tank vent filter; SCR supply filter; Hydraulic oil and filter; Engine air filter; Engine coolant; Drive belt; Cab recirculation filter; Engine breather filter; Transmission breather; Front and rear axle fluid; SCR supply module filter.

NOTE: *If equipped w/ option.

OPERATING WEIGHT

Z-Bar

Unit equipped w/ ROPS cab w/ heater and A/C; Standard counterweight; 26.5-R25 L3 Radial tires; 5.5 yd3 (4.2 m3) GP pin-on w/ bolt on edge; Full fuel; 165 lb (75 kg) operator: 56,365 lb (25 567 kg)

HYDRAULICS

Main pumps – steering/implement: Closed center pressure/flow compensated

Tandem variable displacement – load-sensing

Max. rated flow P1: 50.2 gpm @ 2000 RPM (190 L/min @ 2000 RPM)
Max. rated flow P2: 42.8 gpm @ 2000 RPM

42.8 gpm @ 2000 RPM (162 L/min @ 2000 RPM)

Loader control valve:

Closed-center, sectional 2, 3 or 4-function w/ control for lift, tilt and auxiliary hydraulics

Loader auxiliary steering:

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

High pressure standby:

Implement 3,650 psi (25 165 kPa) Steering 3,495 psi (24 097 kPa)

Filtration:

Filtered vent w/ relief on hydraulic reservoir, maintains 3-5 psi on reservoir, 10-micron, return filter furnishes only clean oil to all components of the system.

SERVICE CAPACITIES

Fuel tank	125 gal (473.0 L)
DEF tank - Diesel Exhaust Fluid:	
Usable capacity	16 gal (61.0 L)
Total	24 gal (90.8 L)
Hydraulic system:	
Reservoir	35.4 gal (134 L)
Total	66 gal (250 L)
Transmission:	
Service w/ filter	48.0 qt (45.4 L)
Front and rear axle:	
Front axle	65.5 qt (62 L)
Rear axle	44.4 qt (42 L)
Engine oil w/ filter	30 qt (28.5 L)
Cooling system	15 gal (56.8 L)

OTHER SPECIFICATIONS

 Lift cylinder:

 Bore diameter
 7.00 in (177.8 mm)

 Rod diameter
 4.50 in (114.3 mm)

 Stroke
 30.73 in (780.6 mm)

Dump cylinder - Z-Bar:

 Bore diameter
 8.00 in (203.2 mm)

 Rod diameter
 5.00 in (127.0 mm)

 Stroke
 22.91 in (581.9 mm)

Loader:

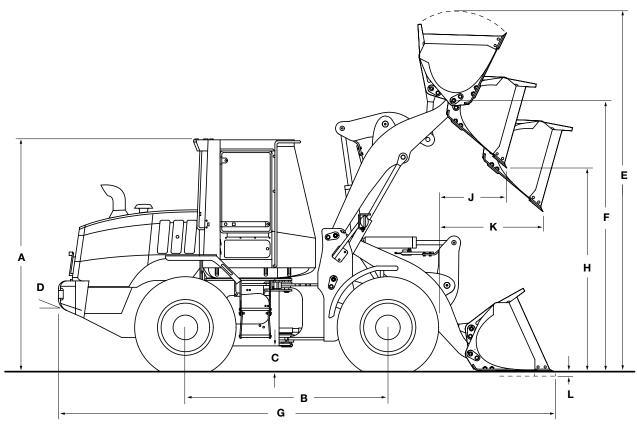
Z-Bar loader linkage; Single control for lift and tilt; Positive hold float; Automatic return-to-dig; Automatic height control; Automatic return-to-travel; Brake pedal transmission disconnect; Bucket position indicator on bucket.

Cycle time:	
Raise w/ rated bucket load	6.2 sec
Dump w/ rated bucket load	1.3 sec
Float down	2.8 sec
Sound level in Cab (LpA)	69 dB(A)

105 dB(A)

NOTE: Sound level data tested in accordance with ISO6395, 6396, 3744.

Exterior sound level (LwA)



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

DIMENSIONS

A. Height to top of ROPS cab	140.8 in (3 577 mm)
Height to drawbar	45.0 in (1 143 mm)
B. Wheelbase	139.8 in (3 550 mm)
C. Ground clearance	17.2 in (437 mm)
D. Angle of departure	23°
Width: Overall* without bucket Centerline tread	117.2 in (2 978 mm) 90.6 in (2 300 mm)
Turning radius* – outside	250.6 in (6 366 mm)
Turning angle: From center Total angle	40° 80°
Rear axle oscillation – total	26°

NOTE: *Dimensions taken with 26.5-R25 L3 Radial tires. Additional dimensions on pages 4 through 5.

WEIGHT ADJUSTMENTS

		Tipping Load	Tipping Load
	Weight	Adjustment	Adjustment
Select Options	Adjustment	Straight: Deflected*	40° Turn: Deflected*
26.5 x 25 L5 Radial Tires	+1,500 lb (+680 kg)	+1,179 lb (+535 kg)	+1,056 lb (+479 kg))

NOTE: Unit equipped with Z-Bar loader arms, 5.5 yd3 (4.2 m3) pin on bucket w/ bolt-on edge, 26.5-R25 L3 Radial tires, ROPS cab with heater and A/C, full counterweight, front and rear fenders, full fuel and 165 lb (75 kg) operator. Adjust select options from rated weight. *Tipping loads: ISO 14397-1 Deflected Tires.

PERFORMANCE SPECS

1021G Z-Bar*	5.5 yd³ (4.2 m³) Bucket with Bolt-on Edge - Pin On	5.3 yd³ (4.1 m³) Bucket with Teeth - Pin On
Operating weight	56,365 lb (25.567 kg)	56,361 lb (25.565 kg)
E. Operating height – fully raised with spillguard	229.3 in (5.824 mm)	229.3 in (5.824 mm)
F. Hinge pin height – fully raised	167.2 in (4.246 mm)	167.2 in (4.246 mm)
G. Overall length – bucket level on ground	352.3 in (8.948 mm)	359.4 in (9.130 mm)
Dump angle – fully raised	53°	53°
H. Dump height – fully raised, 45° dump	121.2 in (3.078 mm)	116.5 in (2.959 mm)
J. Bucket reach – fully raised, 45° dump	49.8 in (1.265 mm)	55.1 in (1.399 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	74.3 in (1.888 mm)	77.5 in (1.969 mm)
L. Dig depth	4.9 in (123 mm)	5.0 in (128 mm)
Operating load – ISO Rigid Tires	19,560 lb (8.872 kg)	19,694 lb (8.933 kg)
Operating load – ISO Deflected Tires	17,858 lb (8.100 kg)	17,980 lb (8.155 kg)
Maximum material density – ISO Rigid Tires	3,556 lb/yd³ (2.110 kg/m³)	3,716 lb/yd³ (2.205 kg/m³)
Maximum material density – ISO Deflected Tires	3,247 lb/yd³ (1.927 kg/m³)	3,392 lb/yd³ (2.013 kg/m³)
Tipping load – ISO Rigid Tires: Straight 40° turn	48,196 lb (21.861 kg) 39,121 lb (17.745 kg)	48,523 lb (22.010 kg) 39,389 lb (17.866 kg)
Tipping load – ISO Deflected Tires: Straight 40° turn	45,126 lb (20.469 kg) 35,717 lb (16.201 kg)	45,428 lb (20.606 kg) 35,959 lb (16.311 kg)
Lift capacity: Full height Ground	31,048 lb (14.083 kg) 52,015 lb (23.593 kg)	30,993 lb (14.058 kg) 52,533 lb (23.829 kg)
Breakout force with tilt cylinder	45,056 lb (20.437 kg)	48,219 lb (21.872 kg)
Loader clearance circle with bucket	558.2 in (14.177 mm)	563.1 in (14.303 mm)

1021G Z-Bar*	Z-Bar	Z-Bar
Maximum rollback: Ground	44°/42°	45°/42°
Carry position	49°/48°	49°/48°
@ Full height	65°/66°	65°/66°
Maximum grading angle with bucket – back dragging	60°/63°	60°/62°
SAE bucket capacity – struck	4.75 yd³ (3.63 m³)	4.56 yd³ (3.49 m³)
Heaped	5.50 yd³ (4.21 m³)	5.30 yd³ (4.05 m³)
Bucket width – outside	125.8 in (3.195 mm)	126.9 in (3.223 mm)
Bucket weight	4,676 lb (2.121 kg)	4,672 lb (2.119 kg)

NOTE: *Z-Bar performance data shown with full counterweight. 6.5-R25 L3 Radial tires, ROPS cab w/ heater and A/C, standard counterweight, full fuel and 165 lb (75 kg) operator. Specifications per SAE J732, J1234, J695, J742, and J818.

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1.

ENGINE

FPT F2CFE614H

Tier 4 Final Certified

Selective Catalytic Reduction (SCR) with

Diesel Oxidation Catalyst

Selectable work modes:

Maximum Mode

Smart Mode

Automatic shutdown - idle reduction device

Turbocharger

Charge air cooling

Automatic fan belt tensioner

Integral engine oil cooling

Fuel filter with water trap

Dual-element dry-type air cleaner

Hydraulic-driven cooling fan

Air-cooled radiator

Rear-mounted cooling module with

hydraulically driven auto-reversing fan

Engine block heater

Sound suppression kit

Ejector type air precleaner

Common rail electronic fuel injection

LOADER

See page 2 – Operating weight, Other specifications

DRIVETRAIN

4-wheel drive

4F/3R Selectable autoshift /manual shift transmission

Electronic Control Module – programmable, computer controlled proportional shifting with programmable gear selection

Onboard diagnostics

Heavy-duty axles:

With locking front differential and open/conventional rear differential

Single lever electronic shift control

F/N/R switch in loader control handle

Downshift button

Torque converter

Outboard planetary axles

Transmission oil cooler

Brake pedal transmission disconnect

Hydraulic wet disc brakes

Spring-applied hydraulic release

parking brake

Limp-Home Mode Greasable rear axle trunnion

HYDRAULICS

Adjustable Electro-hydraulic – EH loader control with 3 configurable buttons

Adjustable EH settings:

Śmooth

Moderate

Aggressive

Ride Control™

EH Parallel Lift

Low-effort steering

Hydraulic driven fan

8 Diagnostic quick couplers
Split flange hydraulic connections –

1 inch or greater

Hydraulic oil cooler

ELECTRICAL

Battery isolator/electrical disconnect 120 amp alternator and voltage regulator

(2) 1000 CCA 12-volt batteries

Electric starter

Lights:

Integrated 4-corner strobe

Front and rear halogen flood lights

2 Front driving headlights - high/ low beam

2 Front flood

2 Rear flood

2 LED stop and tail lights

Front and rear turn signal /flash

Key start /stop switch

Centrally located fuse box

with all electrical circuits protected

Backup alarm

Remote jump start posts

OTHER

Electric hood lift

Front and rear fenders, partial coverage

External rear view mirrors

Standard counterweight

Drawbar hitch

Articulation locking bar

Lift arm locking bar

Lift and tie-down points - front /rear

Backup alarm

3-piece rims

Rear frame side covers

License plate brackets; front bracket

and lit rear bracket

Rubber steering stops

Standard fenders with Left hand and

Right hand steps

Grouped remote-mounted ecology drains:

Engine oil

Engine coolant

Hydraulic oil

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Leather trimmed heated air seat with active suspension

In cab powered cooler box

In cab accessory mount

Rear view camera

External heated rear view mirrors

Front LED driving/headlights

LED front and rear work lights - 4 front, 2 rear

DRIVETRAIN

Axle coolers

Axle oscillation stops

Cold weather package:

Fuel heater

Hydraulic oil cooler bypass

Low temperature hydraulic oil

Grid heater

HYDRAULICS

Auxiliary hydraulics

Secondary steering

Integrated Payload System

Tire Pressure Monitoring System

2-function EH loader control with one auxiliary function

- 4-function EH loader control with two proportional auxiliary controls
- 2 Single axis EH levers and one auxiliary function
- Joystick steering with or without secondary steering

LOADER

Attachment auxiliary hydraulics Buckets – see page 4

TIRES

26.5 x 25 L3 Bias 26.5-R25 L3 Radial

26.5 x 25 L5 Bias

26.5-R25 L5 Radial

OTHER

12 mph (20 kph) maximum speed control Special paint

Wide full coverage fenders with right and left hand steps

CASE

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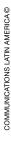
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Manufacturing plants

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CAPITAL