



ENGINE

Make	FPT
Model	F2CFE614L*V002
Emissions Certification	Tier 4 Final / Stage V
Type	Water-cooled, 6-cycle diesel, high pressure common rail system – electronic control. Variable geometry turbocharger w/ air cooled intercooler, ATS, EGR-free
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
Air filter	2-element dry type w/ warning restriction indicator
Rear-mount cooling module w/ auto reversing fan:	Rear-mount air/water w/ Lube Oil Cooler
Fan – hydraulic driven:	
Style	9 blade puller
Diameter	36 in (914 mm)
Engine speeds	RPM
Rated – full load	2100
Horsepower – Maximum Power:	
Peak gross @ 1800 RPM	345 hp (257 kW)
Net rated @ 2100 RPM	293 hp (218 kW)
Peak net @ 1800 RPM	329 hp (245 kW)
Torque – Maximum Power:	
Gross @ 1100 RPM	1,194 lb-ft (1 619 N-m)
Net @ 1100 RPM	1,149 lb-ft (1 558 N-m)
Net torque rise:	
Maximum power range	57%
NOTE: Gross horsepower and torque per SAE J1995. Net horsepower and torque per SAE J1349.	

ELECTRICAL

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

DRIVETRAIN

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

Gear ratios	Forward/Reverse
1st	3.731/3.731
2nd	2.207/2.207
3rd	1.421/0.970
4th	0.625/ –

X-Drive (CVT) Transmission:
Power split continuously variable transmission. 4 Virtual Gears (Fwd/Rev) with 5 intermediate setpoints in each virtual gear with adj Rim Pull.

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

Rear axle oscillation 26° total

Special application axles – standard:
Front axle equipped w/ locking differential
Rear axle equipped w/ open differential

Planetaries Outboard

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

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

Travel speeds – PowerShift transmission:

	Forward mph (kph)	Reverse mph (kph)
1st	4.3 (6.9)	4.3 (6.9)
2nd	7.2 (11.6)	7.2 (11.6)
3rd	11.0 (17.7)	15.8 (25.5)
4th	23.2 (37.4)	–

Travel Speeds – X-Drive transmission:

	mph (kph)	mph (kph)
Virtual Gear 1	1.2 (2.0) to 5.6 (9.0)	
Virtual Gear 2	6.2 (10.0) to 9.9 (16.0)	
Virtual Gear 3	10.6 (17.0) to 16.2 (26.0)	
Virtual Gear 4 FWD only	16.8 (27.0) to 22.6 (36.3)	
Virtual Gear 4 REV only	16.8 (27.0)	

NOTE: Travel speeds at full engine throttle w/ 26.5 x 25 L3 Radial tires.

OPERATING WEIGHT

Z-Bar
Unit equipped w/ ROPS cab w/ heater and A/C; Standard counterweight; PowerShift transmission 26.5-R25 L3 Radial Tires; 6.25 yd³ (4.8 m³) GP pin-on w/ bolt on edge; Full fuel; 165 lb (75 kg) operator:
62,308 lb (28 262 kg)

XR
Unit equipped w/ ROPS cab w/ heater and A/C; Standard counterweight; PowerShift transmission 26.5-R25 L3 Radial Tires; 6.25 yd³ (4.8 m³) HD pin-on w/ bolt on edge; Full fuel; 165 lb (75 kg) operator:
64,095 lb (29 073 kg)

HYDRAULICS

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

Tandem variable displacement – load-sensing
Max rated flow x2: 50.2 gpm @ 2000 RPM (190 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)

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 (134.0 L)
Total	66.0 gal (250.0 L)
Transmission:	
PowerShift Service w/ Filter	48.0 qt (45.4L)
X-Drive Service w/ Filter	59 qt (56 L)
Front and rear axle:	
Front axle	67.6 qt (64.0 L)
Rear axle	67.6 qt (64.0 L)
Engine oil w/ filter	30 qt (28.5 L)
Cooling system	15 gal (56.8 L)

OTHER SPECIFICATIONS

Sound level in Cab (LpA)	69 dB(A)
Exterior sound level (LwA)	104 dB(A)

NOTE: Sound level data tested in accordance with ISO 6395, 6396, 3744.

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 and Throttle Set; Single lever (joystick) loader control w/ fully adjustable wrist rest, 2 cup holders; 2 interior rear view mirrors; 3 inch (76 mm) High Visibly Seat belt Orange retractable seat belt; LED rotating beacon; 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.

Displays/Gauges:

Digital:

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

LCD screen:

Hour meter; Time; FNR indication; Trip computer; 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.

Audible/Visual alarms:

Warning lights:

Four-way flashers; High beam lights; Engine block heater; Low brake pressure; Parking brake.

Caution warnings:

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

Critical warnings:

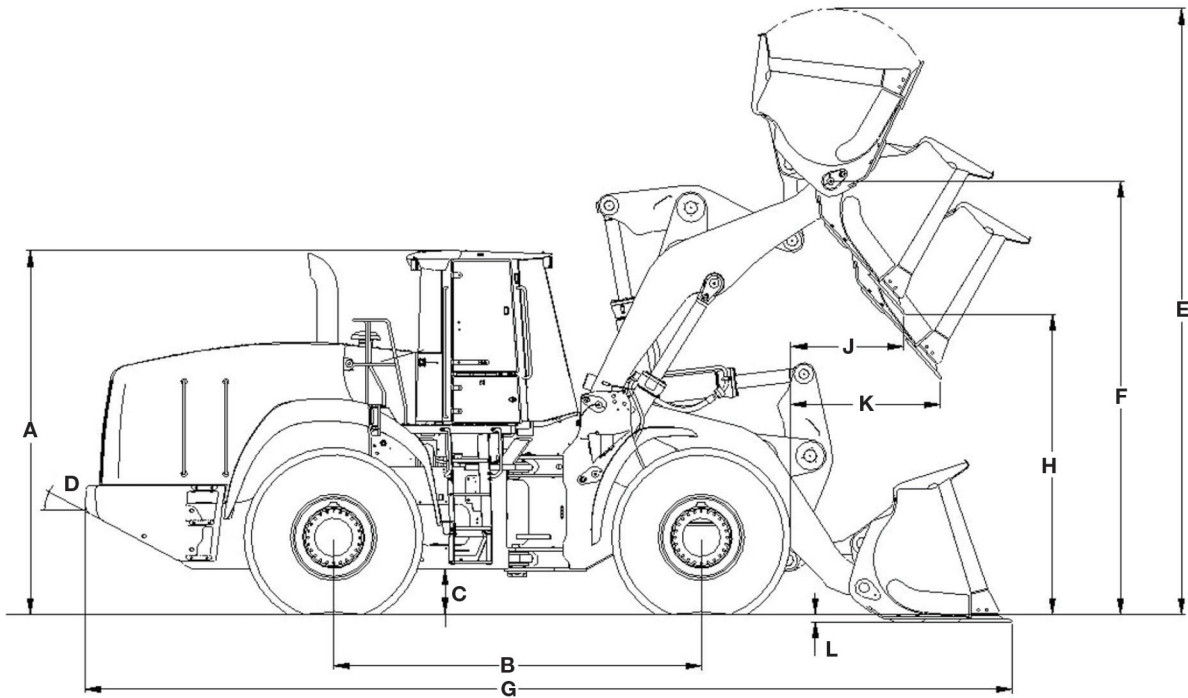
Engine oil pressure; Brake pressure; Steering pressure – w/ aux. steering*; Coolant temperature; Hydraulic oil temperature; Transmission oil temperature.

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.



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 (3 576 mm)
Height to drawbar	44.8 in (1 137 mm)
B. Wheelbase	139.8 in (3 550 mm)
C. Ground clearance	17.2 in (437 mm)
D. Angle of departure, rear	23°
Width:	
Overall* without bucket	117.2 in (2 978 mm)
Tread width	90.6 in (2 300 mm)
Turning radius* – outside	250.6 in (6 366 mm)
Turning angle:	
From center	40°
Total angle	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

Select Options	Weight Adjustment	Tipping Load Adjustment Straight: Deflected*	Tipping Load Adjustment 40° Turn: Deflected*
26.5 x 25 L5 Radial Tires	+1,500 lb (+680 kg)	+1,323 lb (+600 kg)	+1,226 lb (+556 kg)

NOTE: Unit equipped with Z-Bar loader arms, 6.25 yd³ (4.8 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

1121G Z-Bar*	6.25 yd³ pin on bucket w/ bolt-on-edge PowerShift transmission	6.25 yd³ pin on bucket w/ bolt-on-edge X-Drive transmission
Operating weight	62,308 lb (28 262 kg)	62,864 lb (28 515 kg)
E. Operating height – fully raised with spillguard	241 in (6 129 mm)	241 in (6 129 mm)
F. Hinge pin height – fully raised	175 in (4 449 mm)	175 in (4 449 mm)
G. Overall length – bucket level on ground	364 in (9 246 mm)	364 in (9 246 mm)
Dump angle – fully raised	48°	48°
H. Dump height – fully raised, 45° dump	123 in (3 114 mm)	123 in (3 114 mm)
J. Bucket reach – fully raised, 45° dump	49.6 in (1 260 mm)	49.6 in (1 260 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	78.2 in (1 987 mm)	78.2 in (1 987 mm)
L. Dig depth	4.8 in (122 mm)	4.8 in (122 mm)
Loader clearance circle with bucket	566 in (14 381 mm)	597 in (15 157 mm)
Operating load – ISO Rigid Tires	20,371 lb (9 240 kg)	22,238 lb (10 087 kg)
Operating load – ISO Deflected Tires	18,615 lb (8 444 kg)	20,329 lb (9 221 kg)
Maximum material density – ISO Rigid Tires	3,259 lb/yd ³ (1 934 kg/m ³)	3,558 lb/yd ³ (2 111 kg/m ³)
Maximum material density – ISO Deflected Tires	2,978 lb/yd ³ (1 767 kg/m ³)	3,253 lb/yd ³ (1 930 kg/m ³)
Tipping load – ISO Rigid Tires:		
Straight	50,383 lb (22 853 kg)	50,507 lb (22 910 kg)
Turned (40° w/ PowerShift, 37° w/ X-Drive)	40,742 lb (18 480 kg)	44,476 lb (20 174 kg)
Tipping load – ISO Deflected Tires:		
Straight	47,254 lb (21 434 kg)	47,352 lb (21 479 kg)
Turned (40° w/ PowerShift, 37° w/ X-Drive)	37,229 lb (16 887 kg)	40,657 lb (18 442 kg)
Lift capacity:		
Full height	32,184 lb (14 598 kg)	32,444 lb (14 716 kg)
Ground	55,298 lb (25 083 kg)	55,149 lb (25 015 kg)
Breakout force with tilt cylinder	47,291 lb (21 451 kg)	47,285 lb (21 448 kg)

1121G XR	6.25 yd³ pin on bucket w/ bolt-on-edge PowerShift transmission	6.25 yd³ pin on bucket w/ bolt-on-edge X-Drive transmission
Operating weight	64,095 lb (29 073 kg)	64,651 lb (29 325 kg)
E. Operating height – fully raised with spillguard	258 in (6 546 mm)	258 in (6 546 mm)
F. Hinge pin height – fully raised	192 in (4 866 mm)	192 in (4 866 mm)
G. Overall length – bucket level on ground	380 in (9 653 mm)	380 in (9 653 mm)
Dump angle – fully raised	48°	48°
H. Dump height – fully raised, 45° dump	139 in (3 532 mm)	139 in (3 532 mm)
J. Bucket reach – fully raised, 45° dump	51.3 in (1 303 mm)	51.3 in (1 303 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	93.2 in (2 367 mm)	93.2 in (2 367 mm)
L. Dig depth	4.8 in (122 mm)	4.8 in (122 mm)
Loader clearance circle with bucket	583 in (14 807 mm)	613 in (15 561 mm)
Operating load – ISO Rigid Tires	17,673 lb (8 016 kg)	18,800 lb (8 528 kg)
Operating load – ISO Deflected Tires	16,641 lb (7 548 kg)	17,740 lb (8 047 kg)
Maximum material density – ISO Rigid Tires	2,828 lb/yd ³ (1 678 kg/m ³)	3,008 lb/yd ³ (1 785 kg/m ³)
Maximum material density – ISO Deflected Tires	2,663 lb/yd ³ (1 580 kg/m ³)	2,838 lb/yd ³ (1 684 kg/m ³)
Tipping load – ISO Rigid Tires:		
Straight	43,048 lb (19 526 kg)	43,002 lb (19 505 kg)
Turned (40° w/ PowerShift, 37° w/ X-Drive)	35,345 lb (16 032 kg)	37,599 lb (17 055 kg)
Tipping load – ISO Deflected Tires:		
Straight	41,370 lb (18 765 kg)	41,324 lb (18 744 kg)
Turned (40° w/ PowerShift, 37° w/ X-Drive)	33,283 lb (15 097 kg)	35,480 lb (16 093 kg)
Lift capacity:		
Full height	30,687 lb (13 919 kg)	30,964 lb (14 045 kg)
Ground	46,419 lb (21 055 kg)	46,296 lb (21 000 kg)
Breakout force with tilt cylinder	47,764 lb (21 665 kg)	47,758 lb (21 663 kg)

1121G	6.25 yd³ pin on bucket Z-Bar/XR
Maximum rollback:	
Ground	45°/42°
Carry position	49°/48°
@ Full height	65°/66°
Maximum grading angle with bucket – back dragging	60°/62°
SAE bucket capacity – struck	5.25 yd ³ (4.01 m ³)
Heaped	6.25 yd ³ (4.78 m ³)
Bucket width – outside	125.8 in (3 195 mm)
Bucket weight	5,640 lb (2 558 kg)

NOTE: *Z-Bar performance data shown w/ standard counterweight. Performance data unit equipped with 26.5-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

CASE/FPT F2CFE614L*V002
Tier 4 Final / Stage V Certified
SCR, DOC, & SCRoF
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

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.

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 coolers:
 With locking front differential and open/conventional rear differential
Single lever electronic shift control
F/N/R switch in loader control handle
Foot Throttle and Throttle Set
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
Greaseable rear axle trunnion

HYDRAULICS

Adjustable Electro-hydraulic – EH loader control with 3 configurable buttons
Adjustable EH settings:
 Smooth
 Moderate
 Aggressive
Integrated Payload System:
 Auto Dig
 Auto Dump
 Auto metering
Ride Control™
 On/Off Auto w/ Adjustable speed
EH Parallel Lift
Low-effort steering
Hydraulic driven fan
8 Diagnostic quick couplers
Split flange hydraulic connections – 1 inch or greater
Hydraulic oil cooler
Locking Hydraulics for Coupler

ELECTRICAL

Battery isolator/electrical disconnect
120 amp alternator and voltage regulator
(2) 1000 CCA 12-volt batteries
Electric starter
Lights:
 LED rotating beacon
 LED Front and rear halogen flood lights
 LED 2 Front driving headlights – high/low beam
 LED 2 Front flood
 LED 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

TELEMATICS

MyCASEConstruction Telematics
 Includes hardware and 7-year data subscription
SiteConnect Module provides remote diagnostics capability

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

- Leather trimmed heated & air-cooled with active air ride seat
- 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
- Exterior Seat Belt warning beacon

DRIVETRAIN

- Add X-Drive (CVT) transmission
- Axle oscillation stops
- Cold weather package:
 - Fuel heater
 - Hydraulic oil cooler bypass
 - Low temperature hydraulic oil

HYDRAULICS

- Auxiliary hydraulics
- Secondary steering
- 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

- XR extended reach version
- 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
- White Noise back up alarm
- Heavy Duty Counterweight
- Central Auto. Groeneveld-Beka Greasing System

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CASE Construction Equipment is biodiesel-friendly. NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.



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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