ENGINE

Make	Case/FPT
Model	F2CFE614B
	Tier 2 certified
Туре	4-stroke, turbocharged
Cylinders	6-cylinder in-line
Bore/Stroke	4.61 in x 5.31 in
	(177 X 135 mm)
Displacement	531 in ³ (8.7 L)
Fuel	#2 Diesel
(#1 & 2 mixture permi	tted for cold temperature)

(#1 & 2 mixture permitted for cold temperature)
Does not require ultra-low sulfur fuel
B5 biodiesel tolerant

Fuel injection	Direct injection (electronic)	
Fuel filter	Replaceable, full flow	
	spin-on cartridge	
Fuel pump	Bosch CP 3.3	
Gradeability	35° fore /aft & side to side	
Air filter	2-element dry-type	
	w/warning restriction indicator	
Decree of the Property Indiana standard		

Rear-mount cooling module, non-stacked External independent mounted coolers

Fan - Hydraulic driven
Style 9 blade puller
Diameter 34.5 in (876 mm)
Water pump Integral
Engine oil
Pump Deep sump plate cooler

with pressurized under-piston nozzles Pump operating angles

Side-to-side 35°
Fore and aft 35°
Oil filtration Replaceable, full flow, spin-on cartridge

Engine speeds (rpm)
Rated speed, full load 2100

Horsepower

Max Power Range -

Gross @ Rated 315 hp (235 kW) @ 2100 rpm Peak Gross 347 hp (259 kW) @ 1800 rpm Net @ Rated 284 hp (212 kW) @ 2100 rpm Peak Net 320 hp (239 kW) @ 1800 rpm

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

ENGINE (CONTD.)

Torque

Max Power Range –

Gross 1183 lb-ft (1604 N-m) @ 1200 rpm

Net 1148 lb-ft (1557 N-m) @ 1200 rpm

Torque rise

DRIVETRAIN

Max Power Range

Transmission

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

Gears	Helical cut	
Torque o	converter	
Stall	ratio	2.511:1
Differen	tial	Open
		on front and rear axles
Rear ax	le oscillation	26° total
Front ar	nd rear axles	
Differ	ential ratio	4.25
Plane	tary ratio	6.35
Final	axle ratio	27.0

Special application axles (optional)

Front axle equipped with locking differential Rear axle equipped with open differential

Planetaries		Outboard
4 speed transmission	on travel speeds	
(mph (km/h) w/26.5 x 25 XHAT tires)		
	Forward	Reverse
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	23.3 (37.4)	-

Parking brakes

Spring-applied hydraulic release disc on transmission output shaft

NOTE: Travel speeds at full engine throttle.

DRIVETRAIN (CONTD.)

Service brakes

50%

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

Front hub (each) 1144 in² (.738 m²)

Rear hub (each) 1144 in² (.738 m²)

ELECTRICAL

Voltage	24 Volts, negative ground
Alternator	95 amp
Batteries	(2) 12-Volt

HYDRAULICS

Pump (steering/implement)

Closed center pressure/flow compensated

Variable displacement, load-sensing 12.2 in3/rev 100.4 gpm @ 2000 rpm (380 L/min @ 2000 rpm)

Loader control valve

Closed-center, sectional 2, 3 or 4-function with pilot control for lift, tilt and auxiliary hydraulics, electromagnetic detents in float, raise and rollback

Loader auxiliary steering

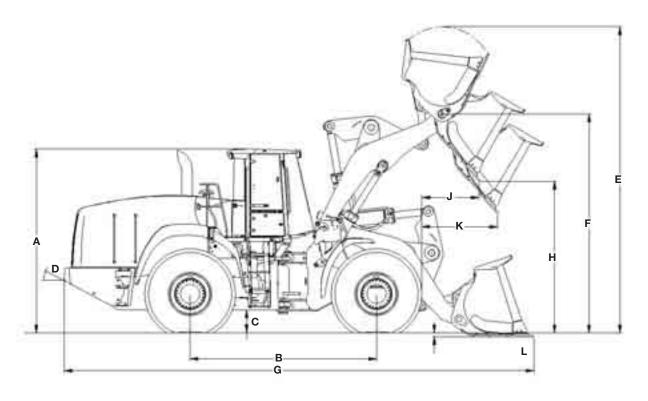
Hydraulic orbital center-pivot articulating w/on-demand oil flow

High pressure standby	
Implement	3650 psi (25 165 kPa)
Steering	3495 psi (24 097 kPa)
Filtration	

10-micron, full flow replaceable cartridges on return line, condition indicator light for filter

CYLINDERS

Lift cylinder	
Bore diameter	7.00 in (177.8 mm)
Rod diameter	4.50 in (114.3 mm)
Stroke	34.48 in (875.81 mm)
Dump cylinder	
Bore diameter	8.00 in (203.2 mm)
Rod diameter	5.0 in (127.0 mm)
Stroke	27.35 in (694.7 mm)



DIMENSIONS

A.	Height to top of ROPS cab	140.6 in (3573 mm)
B.	Wheelbase	139.8 in (3550 mm)
C.	Ground clearance	16.9 in (429.5 mm)
D.	Angle of departure, rear	26°
	Width –	
	Overall* w/o bucket	117.7 in (2.99 m)
	Centerline tread	88.6 in (2.25 m)
	Turning radius* – outside	250.9 in (6.37 m)
	Turning angle	
	From center	40°
	Total angle	80°
_	Rear axle oscillation, total	26°

NOTE: *Dimensions taken with 26.5R25 Michelin XHA2 tires. Additional dimensions on pages 3 & 4.

WEIGHT ADJUSTMENTS

Select Options	Tipping Load Weight Adjustment	Tipping Load Adjustment Straight	Adjustment 40° Turn
L3 Bias tires 26.5x25 L2 (Goodyear)	-334 kg	-563 kg	-857 kg
L4 Bias tires 26.5x25 L3 (Goodyear)	-129 kg	-86 kg	-252 kg
L5 Bias tires 26.5x25 L4 (Goodyear)	399 kg	591 kg	502 kg
L5 Radial tires 26.5x25 L5 (Goodyear)	593 kg	953 kg	955 kg

NOTE: Unit equipped with Z-Bar loader arms, 6.25 yd3 (4.8 m3) pin on bucket w/bolt-on edge, 26.5R25 Michelin XHA2 tires, ROPS cab with heater/AC, full counterweight, front and rear fenders, full fuel and 175 lb (75 kg) operator. Adjust select options from rated weight.

1121	F Z-Bar*	5.25 yd³ General Purpose Pin On (4.0 m³) Bucket w/Bolt-on Edge	5.25 yd ³ General Purpose Pin On (4.0 m ³) Bucket w/Teeth Only	6.25 yd³ General Purpose Pin On (4.8 m³) Bucket w/Bolt-on Edge
	SAE bucket capacity – struck	4.53 yd³ (3.46 m³)	4.33 yd³ (3.31 m³)	5.45 yd³ (4.17 m³)
	SAE bucket capacity – heaped	5.25 yd³ (4.01 m³)	5.06 yd³ (3.87 m³)	6.25 yd³ (4.78 m³)
	Bucket width – outside	125.8 in (3195 mm)	125.8 in (3195 mm)	125.8 in (3195 mm)
	Bucket weight	4,936 lb (2239 kg)	4,896 lb (2221 kg)	5,322 lb (2414 kg)
Ε.	Operating height – fully raised w/spillguard	234.6 in (5960 mm)	234.6 in (5960 mm)	240.9 in (6120 mm)
F.	Hinge pin height – fully raised	174.9 in (4443 mm)	174.9 in (4443 mm)	174.9 in (4442 mm)
G.	Overall length – bucket level on ground	353.0 in (8967 mm)	360.2 in (9148 mm)	359.0 in (9113 mm)
	Dump angle – fully raised	50°	50°	50°
Н.	Dump height – fully raised, 45° dump	129.9 in (3299 mm)	125.3 in (3183 mm)	126.0 in (3201 mm)
J.	Bucket reach – fully raised, 45° dump	45.5 in (1157 mm)	51.0 in (1296 mm)	50.1 in (1273 mm)
K.	Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	77.4 in (1965 mm)	80.9 in (2054 mm)	80.3 in (2040 mm)
14.	Operating load – SAE	19,756 lb (8961 kg)		
	Maximum material density – SAE		19,910 lb (9031 kg)	19,525 lb (8856 kg)
		3,767 lb/yd³ (2235 kg/m³)	3,935 lb/yd³ (2335 kg/m³)	3,123 lb/yd³ (1853 kg/m³)
	Tipping load – SAE Straight	46,627 lb (21 150 kg)	46,980 lb (21 310 kg)	46,184 lb (20 949 kg)
	40° turn	39,512 lb (17 923 kg)	39,820 lb (18 062 kg)	39,050 lb (17 713 kg)
	Lift capacity –		· · · · · ·	
	Full height	33,106 lb (15 017 kg)	33,086 lb (15 007 kg)	32,745 lb (14 853 kg)
	Maximum reach	48,483 lb (21 991 kg)	48,559 lb (22 026 kg)	48,090 lb (21 813 kg)
	Ground	58,121 lb (26 363 kg)	58,687 lb (26 620 kg)	56,730 lb (25 732 kg)
	Breakout force w/tilt cylinder	56,309 lb (25 542 kg)	60,475 lb (27 431 kg)	49,960 lb (22 661 kg)
	Maximum rollback –	AE9	450	450
	Ground Carry position	45° 51°	45° 51°	45° 51°
	@ Maximum reach	68°	68°	68°
	@ Full height	65°	65°	65°
L.	Dig depth	4.6 in (118 mm)	4.6 in (118 mm)	4.7 in (118 mm)
	Maximum grading angle w/bucket - back dragging	60°	60°	60°
	Loader clearance circle	561.8 in (14 271 mm)	565.6 in (14 367 mm)	565.0 in (14 352 mm)
1121	F/XR	5.25 yd³ General Purpose Pin On (4.0 m³) Bucket w/Bolt-on Edge	5.25 yd³ General Purpose Pin On (4.0 m³) Bucket w/Teeth Only	6.25 yd³ General Purpose Pin On (4.8 m³) Bucket w/Bolt-on Edge
E.	Operating height – fully raised w/spillguard	251.1 in (6377 mm)	251.1 in (6377 mm)	257.4 in (6537 mm)
<u>г.</u> F.	Hinge pin height – fully raised	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
	0 1 0 7	191.3 in (4860 mm)	191.3 in (4860 mm)	191.3 in (4860 mm)
G.	Overall length – bucket level on ground	369.1 in (9374 mm)	376.2 in (9555 mm)	375.0 in (9526 mm)
	Dump angle – fully raised	50°	50°	50°
H.	Dump height – fully raised,45° dump	146.3 in (3717 mm)	141.7 in (3600 mm)	142.5 in (3619 mm)
J.	Bucket reach – fully raised, 45° dump	47.2 in (1200 mm)	52.7 in (1338 mm)	51.8 in (1316 mm)
K.	Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	91.9 in (2335 mm)	95.7 in (2430 mm)	95.1 in (2415 mm)
	Operating load – SAE	17,378 lb (7882 kg)	17,506 lb (7941 kg)	17,092 lb (7753 kg)
	Maximum material density – SAE	3,313 lb/yd³ (1966 kg/m³)	3,460 lb/yd³ (2053 kg/m³)	2,734 lb/yd³ (1622 kg/m³)
	Tipping load – SAE	40.007 (40.500)	44 000 (40 700)	40,000 (40,040)
	Straight 40° turn	40,997 lb (18 596 kg) 34,765 lb (15 765 kg)	41,298 lb (18 732 kg) 35,012 lb (15 881 kg)	40,386 lb (18 319 kg) 34,185 lb (15 506 kg)
	Lift capacity –	0-4,700 ib (10 700 kg)	00,012 ib (10 001 kg)	0-4, 100 lb (10 000 kg)
	Full height	31,654 lb (14 358 kg)	31,651 lb (14 357 kg)	31,281 lb (14,189 kg)
	Maximum reach	43,573 lb (19 764 kg)	43,668 lb (19 808 kg)	43,163 lb (19,578 kg)
	Ground	48,833 lb (22 150 kg)	49,273 lb (22 350 kg)	47,616 lb (21,598 kg)
	Breakout force w/tilt cylinder	56,856 lb (25 790 kg)	61,063 lb (27 698 kg)	50,449 lb (22 883 kg)
	Maximum rollback			
	Ground	42°	42°	42°
	Carry position	49°	49°	49°
	@ Maximum reach@ Full height	66° 66°	66° 66°	66° 66°
	Dig Depth Maximum grading angle w/busket back dragging	4.7 in (118 mm)	4.7 in (118 mm)	4.7 in (119 mm)
	Maximum grading angle w/bucket - back dragging	63°	62°	62°
	Loader clearance circle	577.3 in (14 663 mm)	581.8 in (14 777 mm)	581.1 in (14 759 mm)

1121F Z-Bar*		6.25 yd ³ General Purposo Pin On (4.8 m ³) Bucket w/Teeth Only	
	SAE bucket capacity – struck	5.25 yd³ (4.01 m³)	
	SAE bucket capacity – heaped	6.06 yd³ (4.63 m³)	
	Bucket width – outside	125.8 in (3195 mm)	
	Bucket weight	5,284 lb (2397 kg)	
E.	Operating height – fully raised w/spillguard	240.9 in (6120 mm)	
F.	Hinge pin height – fully raised	174.9 in (4442 mm)	
G.	Overall length – bucket level on ground	366.1 in (9300 mm)	
	Dump angle – fully raised	50°	
H.	Dump height – fully raised, 45° dump	121.5 in (3085 mm)	
J.	Bucket reach – fully raised, 45° dump	55.6 in (1412 mm)	
K.	Bucket reach - 7 ft 0 in (2.13 m) height, 45° dump	83.6 in (2124 mm)	
	Operating load – SAE	19,668 lb (8921 kg)	
	Maximum material density – SAE	3,246 lb/yd3 (1926 kg/m3)	
	Tipping load – SAE Straight 40° turn	46,516 lb (21 099 kg) 39,336 lb (17 843 kg)	
	Lift capacity – Full height Maximum reach Ground	32,725 lb (14 844 kg) 48,162 lb (21 846 kg) 57,254 lb (25 970 kg)	
	Breakout force w/tilt cylinder	53,243 lb (24 151 kg)	
	Maximum rollback – Ground Carry position @ Maximum reach @ Full height	45° 51° 68° 65°	
L.	Dig depth	4.7 in (118 mm)	
	Maximum grading angle w/bucket - back dragging	60°	
	Loader clearance circle	568.9 in (14 451 mm)	

1121F/XR		6.25 yd ³ General Purpose Pin On (4.8 m ³) Bucket w/Teeth Only
E.	Operating height - fully raised w/spillguard	257.4 in (6537 mm)
F.	Hinge pin height – fully raised	191.3 in (4860 mm)
G.	Overall length – bucket level on ground	382.2 in (9707 mm)
	Dump angle – fully raised	50°
Н.	Dump height – fully raised, 45° dump	137.9 in (3503 mm)
J.	Bucket reach – fully raised, 45° dump	57.3 in (1454 mm)
K.	Bucket reach - 7 ft 0 in (2.13 m) height, 45° dump	98.6 in (2505 mm)
	Operating load – SAE	17,214 lb (7808 kg)
	Maximum material density – SAE	2,841 lb/yd³ (1686 kg/m³)
	Tipping load -SAE	
	Straight	40,673 lb (18 449 kg)
	40° turn	34,428 lb (15 616 kg)
	Lift capacity –	
	Full height	31,278 lb (14 188 kg)
	Maximum reach	43,254 lb (19 620 kg)
	Ground	48,023 lb (21 783 kg)
	Breakout force w/tilt cylinder	53,765 lb (24 387 kg)
Max	imum rollback	
	Ground	42°
	Carry position	49°
	@ Maximum reach	66°
	@ Full height	66°
L.	Dig Depth	4.7 in (119 mm)
	Maximum grading angle w/bucket - back dragging	62°
	Loader clearance circle	585.6 in (14 875 mm)

NOTE:

*Z-Bar performance data shown w/standard counterweight.

Performance data unit equipped with 26.5R25 Michelin XHA2 tires, ROPS cab w/heater and A/C, standard counterweight, full fuel and 175 lb (75 kg) operator. Specifications per SAE J732, J1234, J695, J742, and J818.

INSTRUMENTATION

Electronic Information Center

Displays/Gauges -

Analog -

Engine coolant temperature

Fuel level

Transmission oil temperature

Hydraulic oil temperature

LCD screen -

Hour meter

Time

FNR indication

Trip computer

Metric/english

Differential lock*

Joystick steering indicator*

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

DEF (diesel exhaust fluid) gauge

Engine oil temperature

Oil pressure

Coolant temperature

Transmission oil temperature

Transmission sump oil temperature

Hydraulic oil temperature

System voltage

Turbocharger air temperature

Fuel level percentage

Warning prompts

Warning lamps -

Main warning

Low fuel

Turn signals

Four-way flashers High beam lights

Grid heater*

Low brake pressure

Low steering pressure

Parking brake

Audible/Visual alarms -

Caution alarm -

Parking brake

Coolant temperature

Hydraulic oil temperature

Transmission oil temperature

Air filter

Transmission filter

Hydraulic filter

Alternator

Low fuel

Critical alarm -

Engine oil pressure

Brake pressure

Steering pressure (w/aux steering)*

Coolant temperature

Hydraulic oil temperature

Transmission oil temperature

Backup alarm

Horn

NOTE: *If equipped with option.

OPERATOR ENVIRONMENT

OPERATOR ENVIRONMENT
ROPS cab w/ heat and air conditioning
Key start
Articulated power steering w/tilt column
Fully adjustable, suspension seat
2 in (51 mm) retractable seat belt
Foot throttle
Single lever 2-function loader control
w/wrist rest
Cup holder
Coat hook
(1) Interior rearview mirror
Storage tray behind seat
Lunch box compartment
Single brake pedal
F/N/R shuttle switch
Glove box
Pressurized air filtering
Anti-glare window strip
Defroster
Side window, partial/fully open
Dome light
Wipers, rear and intermittent front
Windshield washers, front and rear
Rubber floor mat

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	6.5 sec
Dump w/rated bucket load	1.4 sec
Lower (empty)	
Power down	2.8 sec
Float down	2.6 sec

SERVICE CAPACITIES

Fuel tank	125 gal (473 L)
Hydraulic system	
Total	66.0 gal (250 L)
Reservoir	25.4 gal (134 L)
Transmission	
Service w/filter	48 qt (45.4 L)
Front and rear axle	
Front axle	67.6 qt (64 L)
Rear axle	67.6 qt (64 L)
Engine oil w/filter	28 qt (26.5 L)
Cooling system	15 gal (56.8 L)

OPERATING WEIGHTS

Z-Bar

Unit equipped with ROPS cab with heater and A/C, standard counterweight, 26.5R25 XHA2 tires, 6.25 yd³ (4.8 m³) pin on w/bolt on edge, full fuel, 175 lb (79 kg) operator

59,192 lb (26 849 kg)

XR

Unit equipped with ROPS cab with heater and A/C, full counterweight, 26.5R25 XHA2 tires, 6.25 yd³ (4.8 m³) pin on w/bolt on edge, full fuel, 175 lb (79 kg) operator

60,877 lb (27 613 kg)

STANDARD EQUIPMENT

OPERATOR'S ENVIRONMENT

ROPS/FOPS cab structure

See page 5

ENGINE

Case/FPT F2CFE614B

Tier 2 certified

Selectable work modes

Max power

Auto power

Standard power

Economy power

Auto shutdown (idle reduction device)

Turbocharger

Charge air cooling

Automatic fan belt tensioner

Integral engine oil cooling

Fuel filter w/water trap

Dual-element dry-type air cleaner

Hydraulic-driven cooling fan

Liquid-cooled radiator

Rear-mounted cooling module

Common rail electronic fuel injection

LOADER

See page 5

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

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

Hvdraulic wet disc brakes

Spring-applied hydraulic release parking brake

Limp-Home Mode

Greasable rear axle trunnion

HYDRAULICS

Single lever 2-function loader control valve

Low-effort steering

Hydraulic driven fan

(8) Diagnostic quick couplers

Split flange hydraulic connections (1 inch or greater)

Hydraulic oil cooler

FI FCTRICAL

95 amp alternator and voltage regulator

Electrical disconnect switch

(2) 900 CCA 12-volt batteries

Electric starter

Front and rear halogen flood lights

(2) Front driving headlights (high/low beam)

(2) Front flood

(2) Rear flood

(2) LED Stop/tail lights

Front and rear turn signal/flash

Key start/stop switch

Centrally located fuse box with all electrical

circuits protected

OTHER

Electric hood lift

Front and rear fenders

Standard counterweight

Drawbar hitch

Articulation locking bar

Lift arm locking bar

Lift and tie-down points - front/rear

Backup alarm

Remote drain points

3-piece rims

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Heated cloth-covered air-suspension seat Sound Shield noise suppression package Radio, 12V AM/FM with auxiliary input

Radio-ready (12 or 24-volt) with

2 auxiliary power (12-volt) outlets

Cab convenience package

Rotating beacon

Second brake pedal

Joystick steering, w/ extra FNR,

kickdown buttons

External rear view mirrors

Rear view camera with accessory mount

Extra front-facing work lights

DRIVETRAIN

Special application axles with locking front differential

Axle oscillation stops

Cold weather package

Engine block heater

Fuel heater

Hydraulic oil cooler bypass

Low temperature hydraulic oil

Grid heater

Ejector type pre-cleaner

Remote jump start recepta-

HYDRAULICS

Auxiliary hydraulics

Ride Control

Secondary steering

3 or 4-function loader valves with 2 or 3-lever loader control

Variable speed hydraulic reversing fan

LOADER

Extended reach XR

Attachment auxiliary hydraulics

Buckets (see pages 3 & 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

Special paint

Full coverage fenders

Tool box

Fire extinguisher

Side guards for rear frame

License plate brackets, front and rear

12 mph (20 kph) Max speed control

Wheel chocks



INTERNATIONAL

CNH INTERNATIONAL SA

Riva Paradiso, 14 6902 Paradiso SWITZFRI AND



NOTE: Standard and optional fittings can vary according to the demands and specific regulations of each country. The illustrations may include optional rather than standard fittings - consult your Case dealer. Furthermore, CNH reserves the right to modify machine specifications without incurring any obligation relating to such changes.

Conforms to directive 98/37/CE





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