

ENGINE

Make	FPT
Model	F2CFE614B
Emissions Certification	Tier 4 interim
Type	4-stroke, turbocharged and air-to-air cooler
Cylinders	6-cylinder in-line
Bore/Stroke	4.70 x 5.31 in (177 x 135 mm)
Displacement	531 in ³ (8.7 L)
Fuel	#2 Diesel, #1 and #2 mixture permitted for cold temperature
Fuel injection	Direct injection – electronic
Fuel filter	Replaceable, full flow spin-on cartridge
Fuel pump	Bosch CP 3.3
Gradeability:	
Side to side	35°
Fore and aft	35°
Air filter	2-element dry-type w/ warning restriction indicator
Mid-mount cooling module:	Mid-mount air/water
Fan – hydraulic driven:	
Style	9 blade puller
Diameter	34.5 in (876 mm)
Water pump	Integral
Engine oil pump operating angles ratings:	
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:	
Maximum Power Mode:	
Peak gross @ 1800 RPM	347 hp (259 kW)
Net rated @ 2100 RPM	284 hp (212 kW)
Peak net @ 1800 RPM	320 hp (239 kW)
Standard Power Mode:	
Peak gross @ 1700 RPM	322 hp (240 kW)
Net rated @ 1700 RPM	299 hp (223 kW)
Peak net @ 2100 RPM	261 hp (195 kW)
Economy Power Mode:	
Peak gross @ 1400 RPM	279 hp (208 kW)
Net rated @ 1400 RPM	267 hp (199 kW)
Peak net @ 1800 RPM	219 hp (163 kW)

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

ENGINE (cont.)

Torque - peak:	
Maximum Power Mode:	
Gross @ 1100 RPM	1,183 lb-ft (1 604 N-m)
Net @ 1100 RPM	1,153 lb-ft (1 564 N-m)
Standard Power Mode:	
Gross @ 1400 RPM	1,143 lb-ft (1 550 N-m)
Net @ 1400 RPM	1,153 lb-ft (1 564 N-m)
Economy Power Mode:	
Gross @ 1300 RPM	1,088 lb-ft (1 475 N-m)
Net @ 1300 RPM	1,047 lb-ft (1 419 N-m)

Torque rise:	
Maximum power range	50%

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
Torque converter:	
Stall ratio	2.51:1
Differential:	
Limited slip w/ 30% transfer on front and rear axles	
Rear axle oscillation	24° total
Front and rear axles:	
Differential ratio	4.25
Planetary ratio	6.35
Final axle ratio	27.00
Special application axles – optional:	
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	
Brake surface area:	
Front hub – each	1,144 in ² (0.738 m ²)
Rear hub – each	1,144 in ² (0.738 m ²)
Parking brakes:	
Spring-applied hydraulic release disc on transmission output shaft neutralizes power flow to wheels when engaged	
Travel speeds – 4-speed transmission:	
	Forward Reverse
	mph (kph) 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) —

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

ELECTRICAL

Voltage	24 Volts, negative ground
Alternator	95 amp
Batteries (2)	900 CCA 12-volt

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; Horn.

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.

Audible/Visual alarms:

Warning lights:

Main warning; Low fuel; Turn signals; Four-way flashers; High beam lights; Grid heater*; Low brake pressure; Low steering pressure; Parking brake.

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

NOTE: *If equipped w/ option.

OPERATING WEIGHT

Z-Bar

Unit equipped w/ ROPS cab w/ heater and A/C; Standard counterweight; 26.5R25 XHA2 tires; 5.25 yd³ (4.8 m³) GP pin on w/ bolt on edge; Full fuel; 175 lb (79 kg) operator:
59,192 lb (26 849 kg)

XR

Unit equipped w/ ROPS cab w/ heater and A/C; Standard counterweight; 26.5R25 XHA2 tires; 5.25 yd³ (4.8 m³) HD pin on w/ bolt on edge; Full fuel; 175 lb (79 kg) operator:
60,876 lb (27 613 kg)

HYDRAULICS

Pump – steering/implement:

Closed center pressure/flow compensated

Variable displacement – load-sensing:

50.2 gpm @ 2000 RPM
(190 L/min @ 2000 RPM)

Loader control valve:

Closed-center, sectional 2, 3 or 4-function w/ 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 3,649 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, returns filter furnishes only clean oil to all components of the system

SERVICE CAPACITIES

Fuel tank 125 gal (473 L)

DEF tank – Diesel Exhaust Fluid
Usable capacity 17.1 gal (64.7 L)
Total 24 gal (90.8 L)

Hydraulic system:

Reservoir 35 gal (134 L)
Total 66 gal (250 L)

Transmission:

Service w/ filter 12 gal (45.4 L)

Front and rear axle:

Front axle 68 qt (64.0 L)
Rear axle 68 qt (64.0 L)

Engine oil w/ filter 28 qt (26.5 L)

Cooling system 17 gal (65.8 L)

OTHER SPECIFICATIONS

Lift cylinder:

Bore diameter 7.00 in (177.8 mm)
Rod diameter 4.50 in (114.3 mm)
Stroke 34.48 in (875.8 mm)

Dump cylinder:

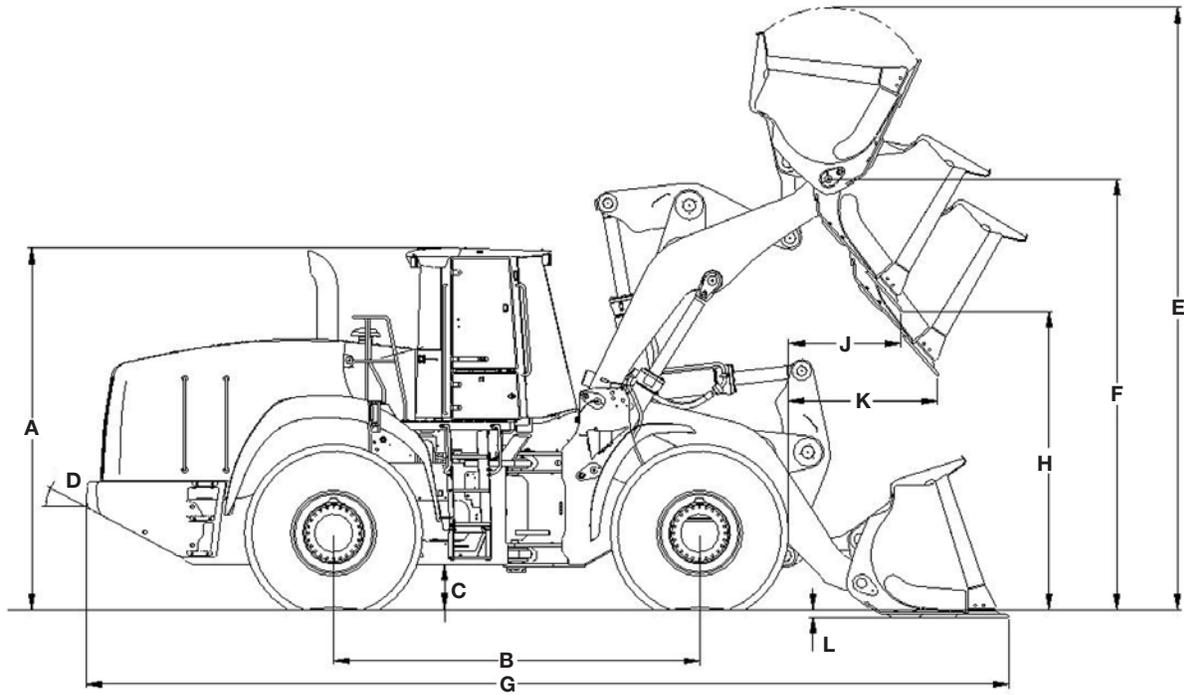
Bore diameter 8.00 in (203.2 mm)
Rod diameter 5.00 in (127.0 mm)
Stroke 27.35 in (694.7 mm)

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 6.5 sec
Dump w/ rated bucket load 1.4 sec
Power down 2.8 sec
Float down 2.6 sec



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

DIMENSIONS

A. Height to top of ROPS cab	140.6 in (3 573 mm)
Height to drawbar	44.6 in (1 134 mm)
B. Wheelbase	139.8 in (3 550 mm)
C. Ground clearance	16.9 in (429.5 mm)
D. Angle of departure, rear	26°
Width:	
Overall* without bucket	117.7 in (2 990 mm)
Centerline tread	88.6 in (2 250 mm)
Turning radius* – outside	250.8 in (6 370 mm)
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 4 and 5.

WEIGHT ADJUSTMENTS

Select Options	Weight Adjustment	Tipping Load Adjustment Straight	Tipping Load Adjustment 40° Turn
26.5 x 25 L3 Goodyear	-284 lb (-129 kg)	-190 lb (-86 kg)	-556 lb (-252 kg)
26.5 x 25 L4 Goodyear	+880 lb (+399 kg)	+1,303 lb (+591 kg)	+1,107 lb (+502 kg)
26.5 x 25 L5 Goodyear	+1,307 lb (+593 kg)	+2,101 lb (+953 kg)	+2,105 lb (+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 and A/C, full counterweight, front and rear fenders, full fuel and 175 lb (75 kg) operator. Adjust select options from rated weight.

PERFORMANCE DATA

1121F Z-Bar*	5.25 yd³ GP Pin On (4.0 m³) Bucket with Bolt-on Edge	5.25 yd³ GP Pin On (4.0 m³) Bucket with Teeth Only	6.25 yd³ GP Pin On (4.8 m³) Bucket with Bolt-on Edge
SAE bucket capacity – struck	4.53 yd ³ (3.46 m ³)	4.33 yd ³ (3.31 m ³)	5.45 yd ³ (4.17 m ³)
Heaped	5.24 yd ³ (4.01 m ³)	5.06 yd ³ (3.87 m ³)	6.25 yd ³ (4.78 m ³)
Bucket width – outside	125.8 in (3 195 mm)	125.8 in (3 195 mm)	125.8 in (3 195 mm)
Bucket weight	4,936 lb (2 239 kg)	4,896 lb (2 221 kg)	5,322 lb (2 414 kg)
E. Operating height – fully raised with spillguard	234.6 in (5 960 mm)	234.6 in (5 960 mm)	240.9 in (6 120 mm)
F. Hinge pin height – fully raised	174.9 in (4 443 mm)	174.9 in (4 443 mm)	174.9 in (4 443 mm)
G. Overall length – bucket level on ground	353.0 in (8 967 mm)	360.2 in (9 148 mm)	359.0 in (9 119 mm)
Dump angle – fully raised	50°	50°	50°
H. Dump height – fully raised, 45° dump	129.9 in (3 299 mm)	125.3 in (3 183 mm)	126.0 in (3 201 mm)
J. Bucket reach – fully raised, 45° dump	45.6 in (1 157 mm)	51.0 in (1 296 mm)	50.1 in (1 273 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	77.4 in (1 965 mm)	80.9 in (2 054 mm)	80.3 in (2 040 mm)
Operating load – SAE	19,756 lb (8 961 kg)	19,910 lb (9 031 kg)	19,524 lb (8 856 kg)
Maximum material density – SAE	3,756 lb/yd ³ (2 235 kg/m ³)	3,935 lb/yd ³ (2 335 kg/m ³)	3,123 lb/yd ³ (1 853 kg/m ³)
Tipping load – SAE:			
Straight	46,627 lb (21 150 kg)	46,980 lb (21 310 kg)	46,185 lb (20 949 kg)
40° turn	39,513 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)	33,085 lb (15 007 kg)	32,745 lb (14 853 kg)
Maximum reach	48,482 lb (21 991 kg)	48,559 lb (22 026 kg)	48,089 lb (21 813 kg)
Ground	58,120 lb (26 363 kg)	58,687 lb (26 620 kg)	56,729 lb (25 732 kg)
Breakout force with tilt cylinder	56,310 lb (25 542 kg)	60,475 lb (27 431 kg)	49,959 lb (22 661 kg)
Maximum rollback:			
Ground	45°	45°	45°
Carry position	51°	51°	51°
@ Maximum reach	68°	68°	68°
@ Full height	65°	65°	65°
L. Dig depth	4.6 in (118 mm)	4.6 in (118 mm)	4.6 in (118 mm)
Maximum grading angle with bucket – back dragging	60°	60°	60°
Loader clearance circle	561.9 in (14 271 mm)	565.6 in (14 367 mm)	565.0 in (14 352 mm)

1121F XR	5.25 yd³ GP Pin On (4.0 m³) Bucket with Bolt-on Edge	5.25 yd³ GP Pin On (4.0 m³) Bucket with Teeth Only	6.25 yd³ GP Pin On (4.8 m³) Bucket with Bolt-on Edge
E. Operating height – fully raised with spillguard	251.1 in (6 377 mm)	251.1 in (6 377 mm)	257.4 in (6 537 mm)
F. Hinge pin height – fully raised	191.3 in (4 860 mm)	191.3 in (4 860 mm)	191.3 in (4 860 mm)
G. Overall length – bucket level on ground	369.1 in (9 374 mm)	376.2 in (9 555 mm)	375.0 in (9 526 mm)
Dump angle – fully raised	50°	50°	50°
H. Dump height – fully raised, 45° dump	146.3 in (3 717 mm)	141.7 in (3 600 mm)	142.5 in (3 619 mm)
J. Bucket reach – fully raised, 45° dump	47.2 in (1 200 mm)	52.7 in (1 338 mm)	51.8 in (1 316 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	91.9 in (2 335 mm)	95.7 in (2 430 mm)	95.1 in (2 415 mm)
Operating load – SAE	17,377 lb (7 882 kg)	17,507 lb (7 941 kg)	17,092 lb (7 753 kg)
Maximum material density – SAE	3,313 lb/yd ³ (1 966 kg/m ³)	3,460 lb/yd ³ (2 053 kg/m ³)	2,734 lb/yd ³ (1 622 kg/m ³)
Tipping load – SAE:			
Straight	40,997 lb (18 596 kg)	41,297 lb (18 732 kg)	40,386 lb (18 319 kg)
40° turn	34,756 lb (15 765 kg)	35,012 lb (15 881 kg)	34,185 lb (15 506 kg)
Lift capacity:			
Full height	31,654 lb (14 358 kg)	31,651 lb (14 357 kg)	31,281 lb (14,189 kg)
Maximum reach	43,572 lb (19 764 kg)	43,669 lb (19 808 kg)	43,162 lb (19,578 kg)
Ground	48,832 lb (22 150 kg)	49,273 lb (22 350 kg)	47,615 lb (21,598 kg)
Breakout force with tilt cylinder	56,857 lb (25 790 kg)	61,064 lb (27 698 kg)	50,448 lb (22 883 kg)
Maximum rollback:			
Ground	42°	42°	42°
Carry position	49°	49°	49°
@ Maximum reach	66°	66°	66°
@ Full height	66°	66°	66°
L. Dig Depth	4.6 in (118 mm)	4.6 in (118 mm)	4.7 in (119 mm)
Maximum grading angle with 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)

PERFORMANCE DATA

1121F Z-Bar*	6.25 yd³ GP Pin On (4.8 m³) Bucket with Teeth Only
SAE bucket capacity – struck	5.24 yd ³ (4.01 m ³)
Heaped	6.06 yd ³ (4.63 m ³)
Bucket width – outside	125.8 in (3 195 mm)
Bucket weight	5,284 lb (2 397 kg)
E. Operating height – fully raised with spillguard	240.9 in (6 120 mm)
F. Hinge pin height – fully raised	174.9 in (4 443 mm)
G. Overall length – bucket level on ground	366.1 in (9 300 mm)
Dump angle – fully raised	50°
H. Dump height – fully raised, 45° dump	121.5 in (3 085 mm)
J. Bucket reach – fully raised, 45° dump	55.6 in (1 412 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	83.6 in (2 124 mm)
Operating load – SAE	19,667 lb (8 921 kg)
Maximum material density – SAE	3,246 lb/yd ³ (1 926 kg/m ³)
Tipping load – SAE:	
Straight	46,515 lb (21 099 kg)
40° turn	39,337 lb (17 843 kg)
Lift capacity:	
Full height	32,725 lb (14 844 kg)
Maximum reach	48,162 lb (21 846 kg)
Ground	57,254 lb (25 970 kg)
Breakout force with tilt cylinder	53,244 lb (24 151 kg)
Maximum rollback:	
Ground	45°
Carry position	51°
@ Maximum reach	68°
@ Full height	65°
L. Dig depth	4.6 in (118 mm)
Maximum grading angle with bucket – back dragging	60°
Loader clearance circle	568.9 in (14 451 mm)

1121F XR	6.25 yd³ GP Pin On (4.8 m³) Bucket with Teeth Only
E. Operating height – fully raised with spillguard	257.4 in (6 537 mm)
F. Hinge pin height – fully raised	191.3 in (4 860 mm)
G. Overall length – bucket level on ground	382.2 in (9 707 mm)
Dump angle – fully raised	50°
H. Dump height – fully raised, 45° dump	137.9 in (3 503 mm)
J. Bucket reach – fully raised, 45° dump	57.2 in (1 454 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	98.6 in (2 505 mm)
Operating load – SAE	17,214 lb (7 808 kg)
Maximum material density – SAE	2,842 lb/yd ³ (1 686 kg/m ³)
Tipping load – SAE:	
Straight	40,673 lb (18 449 kg)
40° turn	34,427 lb (15 616 kg)
Lift capacity:	
Full height	31,279 lb (14 188 kg)
Maximum reach	43,255 lb (19 620 kg)
Ground	48,023 lb (21 783 kg)
Breakout force with tilt cylinder	53,764 lb (24 387 kg)
Maximum rollback:	
Ground	42°
Carry position	49°
@ Maximum reach	66°
@ Full height	66°
L. Dig Depth	4.7 in (119 mm)
Maximum grading angle with bucket – back dragging	62°
Loader clearance circle	585.6 in (14 875 mm)

NOTE: *Z-Bar performance data shown with standard counterweight.

Performance data unit equipped with 26.5R25 Michelin XHA2 tires, ROPS cab with heater and A/C, standard counterweight, full fuel and 175 lb (75 kg) operator.

Specifications per SAE J732, J1234, J695, J742, and J818.

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

ROPS/FOPS cab structure
See page 1

ENGINE

Case/FPT F2CFE614B
Tier 4 interim certified
Selectable work modes
Maximum power
Automatic power
Standard power
Economy power
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
Liquid-cooled radiator
Rear-mounted cooling module
Common rail electronic fuel injection

POWERTRAIN

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
Hydraulic wet disc brakes
Spring-applied hydraulic release parking brake
Limp-Home Mode
Greaseable 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

ELECTRICAL

95 amp alternator and voltage regulator
Electrical disconnect switch
(2) 900 CCA 12-volt batteries
Electric starter
Lights:
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

LOADER

See page 2

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

TELEMATICS

CASE SiteWatch™ Telematics – includes hardware and a 3-yr Advanced data subscription

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Heated cloth-covered air-suspension seat
3 in (76 mm) seat belt
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, with extra FNR, kickdown buttons
External rear view mirrors
Rear view camera with accessory mount
Extra front-facing work lights
LED Light packages

POWERTRAIN

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 receptacle

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 4 & 5

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) maximum speed control
Wheel chocks



NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

NOTE: All engines meet current EPA emissions requirements.

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