



## ENGINE

Make	FPT
Model	F4HFE613R*B011
Emissions Certification	Tier 4 Final
Emissions Technology	SCR/DOC
Type	4-stroke, turbocharged and air-to-air cooled
Cylinders	6-cylinder in-line
Bore/Stroke	4.09 x 5.20 in (104 x 132 mm)
Displacement	411 in <sup>3</sup> (6.7 L)
Fuel	#2 Diesel, #1 and #2 mixture permitted for cold temperatures
Fuel injection	Direct injection – electronic
Fuel pump	Bosch CP 3.3
Fuel pump gradeability:	
Side-to-side	35°
Fore and aft	35°
Fuel Filter	Replaceable full flow spin-on cartridge
Air filter	Dry type elements w/ warning restriction indicator
Mid-mount cooling module w/ auto reversing fan:	Mid-mount air/water w/ Lube Oil Cooler
Fan – hydraulic driven:	
Style	8 blade puller
Diameter	32 in (813 mm)
Water pump	Integral
Engine Oil pump gradeability:	
Side-to-side	35°
Fore and aft	35°
Oil filtration	Replaceable, full flow spin-on cartridge
Engine speeds	RPM
Rated – full load	2000
Horsepower – Maximum Power:	
Peak gross @ 1600 RPM	255 hp (190 kW)
Net rated @ 2000 RPM	224 hp (167 kW)
Peak net @ 1600 RPM	242 hp (180 kW)
Torque – Maximum Power:	
Gross @ 1300 RPM	959 lb-ft (1 300 N-m)
Net @ 1300 RPM	930 lb-ft (1 261 N-m)

Net torque rise:  
Maximum power range 58%

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 – 4-speed	Forward/Reverse	
1st	4.152/3.937	
2nd	2.184/2.071	
3rd	1.072/1.017	
4th	0.636/ –	
Gear ratios – 5-speed	Forward/Reverse	
1st	3.921/3.718	
2nd	2.255/2.138	
3rd	1.466/0.894	
4th	0.942/ –	
5th	0.613/ –	
Torque converter:		
Stall ratio – 4-speed	2.283:1	
Stall ratio – 5-speed	2.350:1	
Differential:		
Front axle equipped w/ locking differential		
Rear axle equipped w/ open differential		
Optional: Limited Slip Front w/ Limited Slip Rear		
Rear axle oscillation	24° total	
Front and rear axles:		
Differential ratio	4.11	
Planetary ratio	6.00	
Final axle ratio	24.67	
Planetaries	Outboard	
Service brakes:		
Hydraulically actuated, maintenance-free, multiple wet disc w/ accumulator to all four wheels		
Brake surface area:		
Front hub	841 in <sup>2</sup> (0.542 m <sup>2</sup> )	
Rear hub	721 in <sup>2</sup> (0.465 m <sup>2</sup> )	
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	4.0 (6.4)	4.2 (6.8)
2nd	7.4 (12.0)	7.8 (12.6)
3rd	14.3 (23.1)	15.0 (24.2)
4th	22.4 (36.0)	–
Travel speeds – 5-speed transmission:	Forward	Reverse
	mph (kph)	mph (kph)
1st	4.0 (6.4)	4.2 (6.8)
2nd	6.9 (11.1)	7.3 (11.7)
3rd	10.6 (17.0)	17.2 (27.7)
4th	16.3 (26.3)	–
5th	25.0 (40.0)	–

NOTE: Travel speeds at full engine throttle w/ 23.5-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/ headrest; 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) high visibility orange 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; Throttle lock; Ride control auto/on/off.

### LCD Displays/Gauges:

Transmission oil temperature; Engine coolant temperature; Fuel level; DEF level.  
Hour meter; Engine speed; Travel speed;  
Time; Automatic transmission indication;  
Current gear selection; FNR indication;  
DeClutch indication; Engine mode indication;  
Trip computer A/B; Fuel consumption;  
Multiple languages, Metric/English; Engine diagnostics; Transmission diagnostics;  
Warning prompts; Error reporting; Diff. Lock\*.

### Warning lights:

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

### Audible alarms w/ diagnostics

Parking brake; Coolant temperature;  
Hydraulic oil temperature; Transmission oil temperature; Air filter; Transmission filter; Hydraulic filter; Alternator; Low fuel.  
Engine oil pressure; Brake pressure; Steering pressure – w/ aux steering\*; Coolant temperature; Hydraulic oil temperature;  
Transmission oil temperature.

### Backup alarm.

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/ 23.5-R25 L3 Radial tires;  
ROPS cab w/ heater and AC; Heavy-duty  
counterweight – 6,435 lb (2 919 kg); Heavy-duty  
batteries; Front and rear fenders; Lights; Full  
fuel; Full urea; 165 lb (75 kg) operator; 4.75 yd<sup>3</sup>  
(3.6 m<sup>3</sup>) GP pin on w/ bolt on edge:  
45,070 lb (20 443 kg)

XR  
Unit equipped w/ 23.5-R25 L3 Radial tires;  
ROPS cab w/ heater and AC; Heavy-duty  
counterweight – 6,435 lb (2 919 kg); Heavy-duty  
batteries; Front and rear fenders; Lights; Full  
fuel; Full urea; 165 lb (75 kg) operator; 4.75 yd<sup>3</sup>  
(3.6 m<sup>3</sup>) GP pin on w/ bolt on edge:  
45,651 lb (20 707 kg)

## HYDRAULICS

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

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Tandem variable displacement – load-sensing:  
Max. rated flow P1: 42.6 gpm @ 2000 RPM  
(162 L/min @ 2000 RPM)  
Max. rated flow P2: 31.6 gpm @ 2000 RPM  
(120 L/min @ 2000 RPM)

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

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Loader auxiliary steering:  
Hydraulic orbital center-pivot articulating  
w/ on-demand oil flow

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High pressure standby:  
Implement 3,625 psi (25 000 kPa)  
Steering 3,500 psi (24 132 kPa)

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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	76 gal (288.0 L)
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DEF tank – Diesel Exhaust Fluid:	
Usable	9.8 gal (37.1 L)
Total	15.6 gal (58.9 L)

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Hydraulic system:	
Reservoir	29.0 gal (110.0 L)
Total	53.0 gal (200.0 L)

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Transmission:	
Service w/ filter	36.0 qt (34.1 L)

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Front and rear axle:	
Front axle	44.4 qt (42.0 L)
Rear axle	42.3 qt (40.0 L)

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Engine oil w/ filter	16.0 qt (15.1 L)
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Cooling system	32 qt (30.0 L)
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## OTHER SPECIFICATIONS

Lift cylinder:	
Bore diameter	6.0 in (152.4 mm)
Rod diameter	3.5 in (88.9 mm)
Stroke	33.3 in (845.7 mm)

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Dump cylinder:	
Bore diameter	7.0 in (177.8 mm)
Rod diameter	4.0 in (101.6 mm)
Stroke	23.6 in (600 mm)

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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.

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Cycle time:	
Raise w/ rated bucket load	6.3 sec
Dump w/ rated bucket load	1.5 sec
Float down	3.6 sec

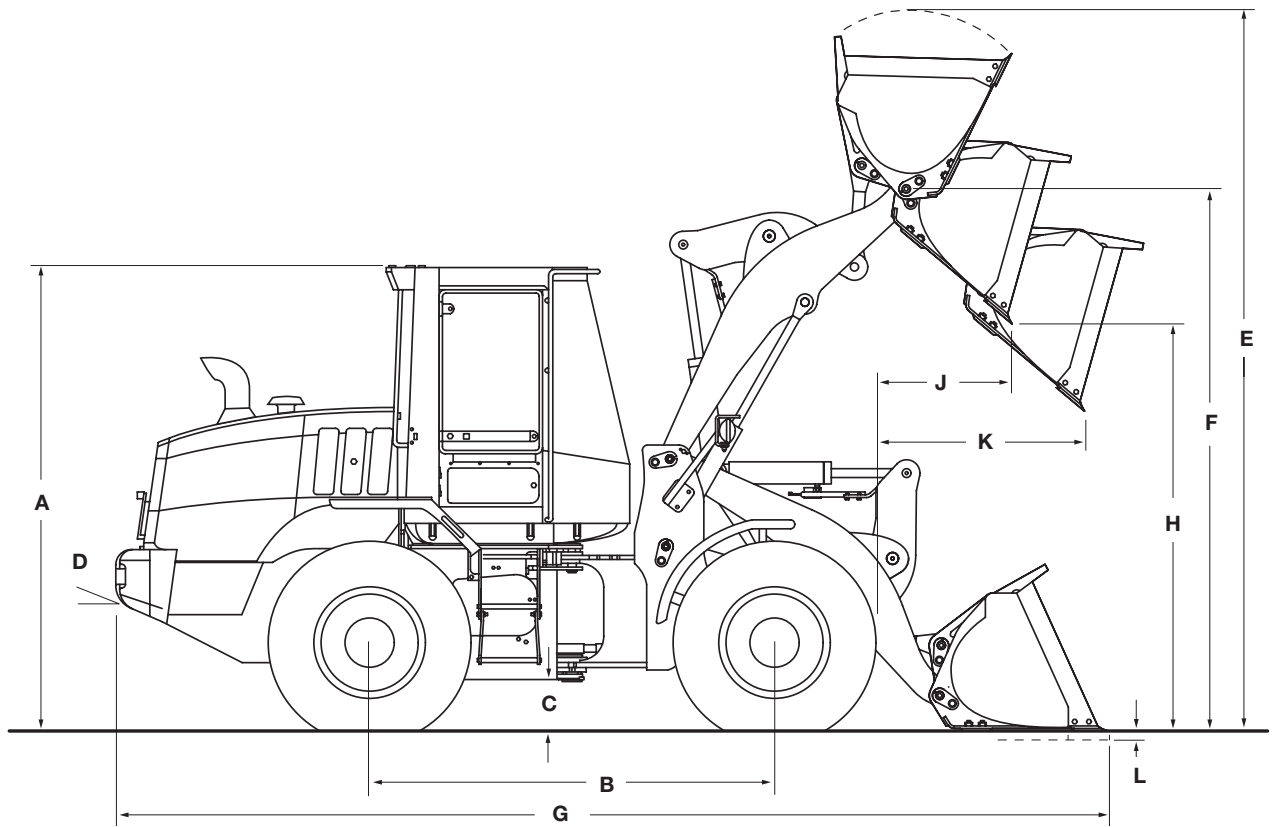
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Sound level in Cab (LpA)	69 dB(A)
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Exterior sound level (LwA)	104 dB(A)
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NOTE: Sound level data tested in accordance  
with ISO6395, 6396, 3744.



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

### DIMENSIONS

A. Height to top of ROPS cab	136.4 in (3 464 mm)
Height to drawbar	42.7 in (1 085 mm)
B. Wheelbase	131.5 in (3 340 mm)
C. Ground clearance	17.1 in (435 mm)
D. Angle of departure	29°
Width:	
Overall* without bucket	111.4 in (2 829 mm)
Tread width	87.8 in (2 230 mm)
Turning radius* – outside	236.3 in (6 003 mm)
Turning angle:	
From center	40°
Total angle	80°
Rear axle oscillation – total	24°

NOTE: \*Dimensions taken with 23.5-R25 L3 Radial Tires. Additional dimensions on pages 4 through 6.

### WEIGHT ADJUSTMENTS

Select Options	Weight Adjustment	Tipping Load Adjustment Straight: Deflected*	Tipping Load Adjustment 40° Turn: Deflected*
23.5-R25 L2 Radial tires	-28 lb (-13 kg)	-99 lb (-45 kg)	-114 lb (-52 kg)
23.5-R25 L3 Bias tires	-504 lb (-229 kg)	-443 lb (-201 kg)	-990 lb (-449 kg)

NOTE: Unit equipped with Z-Bar loader arms, 4.75 yd<sup>3</sup> (3.6 m<sup>3</sup>) pin on bucket with bolt-on edge, 23.5-R25 L3 Radial Tires, ROPS cab with heater and air conditioner, heavy counterweight, heavy-duty batteries, 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**

<b>921G Z-Bar*</b>		<b>4.75 yd<sup>3</sup> (3.6 m<sup>3</sup>) Bucket with Bolt-on Edge - Pin On</b>	<b>5.25 yd<sup>3</sup> (4.0 m<sup>3</sup>) Bucket with Bolt-on Edge - Pin On</b>
Operating weight		45,070 lb (20 443 kg)	44,886 lb (20 360 kg)
<b>E.</b> Operating height – fully raised with spillguard		220.1 in (5 589 mm)	225.7 in (5 732 mm)
<b>F.</b> Hinge pin height – fully raised		165.4 in (4 201 mm)	165.4 in (4 200 mm)
<b>G.</b> Overall length – bucket level on ground		322.7 in (8 198 mm)	325.7 in (8 272 mm)
Dump angle – fully raised		53°	53°
<b>H.</b> Dump height – fully raised, 45° dump		117.7 in (2 989 mm)	115.8 in (2 941 mm)
<b>J.</b> Bucket reach – fully raised, 45° dump		43.6 in (1 108 mm)	45.9 in (1 165 mm)
<b>K.</b> Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump		68.9 in (1 750 mm)	69.6 in (1 767 mm)
<b>L.</b> Dig depth		2.0 in (51 mm)	2.0 in (51 mm)
Operating load – ISO Rigid Tires		15,544 lb (7 051 kg)	15492 lb (7 027 kg)
Operating load – ISO Deflected Tires		14,264 lb (6 470 kg)	14246 lb (6 462 kg)
Maximum material density – ISO Rigid Tires		3,261 lb/yd <sup>3</sup> (1 935 kg/m <sup>3</sup> )	3,261 lb/yd <sup>3</sup> (1 935 kg/m <sup>3</sup> )
Maximum material density – ISO Deflected Tires		2,999 lb/yd <sup>3</sup> (1 780 kg/m <sup>3</sup> )	2,999 lb/yd <sup>3</sup> (1 780 kg/m <sup>3</sup> )
Tipping load – ISO Rigid Tires:	Straight 40° turn	37,356 lb (16 944 kg) 31,088 lb (14 101 kg)	37,356 lb (16 944 kg) 30,983lb (14 054 kg)
Tipping load – ISO Deflected Tires:	Straight 40° turn	35,198 lb (15 966 kg) 28,492 lb (12 924 kg)	35,198 lb (15 966 kg) 28,492 lb (12 924 kg)
Lift capacity:	Full height Ground	26,561 lb (12 048 kg) 45,530 lb (20 198 kg)	26,408 lb (11 978 kg) 42,494 lb (19 275 kg)
Breakout force with tilt cylinder		37,618 lb (17 063 kg)	35,583 lb (16 140 kg)
Loader clearance circle with bucket		525.8 in (13 356 mm)	527.5 in (13 399 mm)

<b>921G XR</b>		<b>4.75 yd<sup>3</sup> (3.6 m<sup>3</sup>) Bucket with Bolt-on Edge - Pin On</b>	<b>5.25 yd<sup>3</sup> (4.0 m<sup>3</sup>) Bucket with Bolt-on Edge - Pin On</b>
Operating weight		45,651 lb (20 707 kg)	45,614 lb (20 690 kg)
<b>E.</b> Operating height – fully raised with spillguard		240.6 in (6 111 mm)	243.2 in (6 177 mm)
<b>F.</b> Hinge pin height – fully raised		182.9 in (4 647 mm)	182.9 in (4 647 mm)
<b>G.</b> Overall length – bucket level on ground		341.9 in (8 684 mm)	344.8 in (8 759 mm)
Dump angle – fully raised		47°	47°
<b>H.</b> Dump height – fully raised, 45° dump		135.2 in (3 434 mm)	133.3 in (3 386 mm)
<b>J.</b> Bucket reach – fully raised, 45° dump		47.4 in (1 203 mm)	49.6 in (1 260 mm)
<b>K.</b> Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump		86.3 in (2 191 mm)	87.7 in (2 228 mm)
<b>L.</b> Dig depth		4.4 in (113 mm)	4.4 in (113 mm)
Operating load – ISO Rigid Tires		12,377 lb (5 614 kg)	12,377 lb (5 614 kg)
Operating load – ISO Deflected Tires		11,503 lb (5 218 kg)	11,503 lb (5 218 kg)
Maximum material density – ISO Rigid Tires		2,606 lb/yd <sup>3</sup> (1 546 kg/m <sup>3</sup> )	2,606 lb/yd <sup>3</sup> (1 546 kg/m <sup>3</sup> )
Maximum material density – ISO Deflected Tires		2,422 lb/yd <sup>3</sup> (1 437 kg/m <sup>3</sup> )	2,422 lb/yd <sup>3</sup> (1 437 kg/m <sup>3</sup> )
Tipping load – ISO Rigid Tires:	Straight 40° turn	29,924 lb (13 573 kg) 24,755 lb (11 229 kg)	29,924 lb (13 573 kg) 24,755 lb (11 229 kg)
Tipping load – ISO Deflected Tires:	Straight 40° turn	28,477 lb (12 917 kg) 23,006 lb (10 435 kg)	28,477 lb (12 917 kg) 23,006 lb (10 435 kg)
Lift capacity:	Full height Ground	24,660 lb (11 186 kg) 35,824 lb (16 250 kg)	24,660 lb (11 186 kg) 35,824 lb (16 250 kg)
Breakout force with tilt cylinder		38,254 lb (17 352 kg)	38,254 lb (17 352 kg)
Loader clearance circle with bucket		545.6 in (13 858 mm)	545.6 in (13 858 mm)

<b>921G</b>		<b>Z-Bar/XR</b>	<b>Z-Bar/XR</b>
Maximum rollback:	Ground	41°/37°	41°/37°
	Carry position	45°/43°	45°/43°
	@ Full height	59°/60°	59°/60°
Maximum grading angle with bucket – back dragging		61°/63°	62°/65°
SAE bucket capacity – struck		4.08 yd <sup>3</sup> (3.12 m <sup>3</sup> )	4.50 yd <sup>3</sup> (3.44 m <sup>3</sup> )
Heaped		4.75 yd <sup>3</sup> (3.63 m <sup>3</sup> )	5.25 yd <sup>3</sup> (3.52 m <sup>3</sup> )
Bucket width – outside		119.3 in (3 030 mm)	119.2 in (3 027 mm)
Bucket weight		3,674 lb (1 666 kg)	3,924 lb (1 780 kg)

**PERFORMANCE SPECS**

<b>921G Z-Bar*</b>		<b>4.0 yd<sup>3</sup> (3.1 m<sup>3</sup>) Bucket with Bolt-on Edge - JRB Coupler</b>	<b>4.75 yd<sup>3</sup> (3.6 m<sup>3</sup>) Bucket with Bolt-on Edge - JRB Coupler</b>	<b>4.0 yd<sup>3</sup> (3.1 m<sup>3</sup>) Bucket with Bolt-on Edge - ACS Coupler</b>
Operating weight		46,166 lb (20 941 kg)	46,025 lb (20 877 kg)	46,220 lb (20 965 kg)
<b>E.</b> Operating height – fully raised with spillguard		222.1 in (5 716 mm)	230.8 in (5 862 mm)	222.1 in (5 542 mm)
<b>F.</b> Hinge pin height – fully raised		165.4 in (4 200 mm)	165.4 in (4 200 mm)	165.4 in (4 200 mm)
<b>G.</b> Overall length – bucket level on ground		328.2 in (8 337 mm)	333.9 in (8 481 mm)	324.0 in (8 230 mm)
Dump angle – fully raised		53°	53°	53°
<b>H.</b> Dump height – fully raised, 45° dump		114.1 in (2 899 mm)	110.5 in (2 806 mm)	116.9 in (2 969 mm)
<b>J.</b> Bucket reach – fully raised, 45° dump		47.8 in (1 214 mm)	52.1 in (1 324 mm)	44.6 in (1 134 mm)
<b>K.</b> Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump		71.3 in (1 810 mm)	73.5 in (1 868 mm)	69.4 in (1 764 mm)
<b>L.</b> Dig depth		2.0 in (51 mm)	2.0 in (52 mm)	1.9 in (49 mm)
Operating load – ISO Rigid Tires		14,020 lb (6 360 kg)	13,744 lb (6 234 kg)	14,434 lb (6 547 kg)
Operating load – ISO Deflected Tires		12,887 lb (5 841 kg)	12,595 lb (5 713 kg)	13,254 lb (6 012 kg)
Maximum material density – ISO Rigid Tires		3,505 lb/yd <sup>3</sup> (2 080 kg/m <sup>3</sup> )	2,894 lb/yd <sup>3</sup> (1 717 kg/m <sup>3</sup> )	3,609 lb/yd <sup>3</sup> (2 141 kg/m <sup>3</sup> )
Maximum material density – ISO Deflected Tires		3,219 lb/yd <sup>3</sup> (1 910 kg/m <sup>3</sup> )	2,652 lb/yd <sup>3</sup> (1 573 kg/m <sup>3</sup> )	3,314 lb/yd <sup>3</sup> (1 966 kg/m <sup>3</sup> )
Tipping load – ISO Rigid Tires:	Straight	33,997 lb (15 421 kg)	33,423 lb (15 160 kg)	34,991 lb (15 871 kg)
	40° turn	28,112 lb (12 751 kg)	27,489 lb (12 469 kg)	28,868 lb (13 094 kg)
Tipping load – ISO Deflected Tires:	Straight	32,035 lb (14 531 kg)	31,447 lb (14 264 kg)	32,959 lb (15 871 kg)
	40° turn	25,755 lb (11 682 kg)	25,190 lb (11 426 kg)	26,509 lb (12 024 kg)
Lift capacity:	Full height	25,382 lb (11 513 kg)	25,089 lb (11 380 kg)	25,375 lb (11 510 kg)
	Ground	32,904 lb (14 925 kg)	30,786 lb (13 964 kg)	37,493 lb (17 007 kg)
Breakout force with tilt cylinder		33,785 lb (15 325 kg)	30,651 lb (13 903 kg)	36,644 lb (16 531 kg)
Loader clearance circle with bucket		529.0 in (13 437 mm)	532.4 in (13 523 mm)	526.5 in (13 374 mm)

<b>921G XR</b>		<b>4.0 yd<sup>3</sup> (3.1 m<sup>3</sup>) Bucket with Bolt-on Edge - JRB Coupler</b>	<b>4.75 yd<sup>3</sup> (3.6 m<sup>3</sup>) Bucket with Bolt-on Edge - JRB Coupler</b>	<b>4.0 yd<sup>3</sup> (3.1 m<sup>3</sup>) Bucket with Bolt-on Edge - ACS Coupler</b>
Operating weight		46,552 lb (21 116 kg)	46,837 lb (21 245 kg)	46,602 lb (21 138 kg)
<b>E.</b> Operating height – fully raised with spillguard		242.7 in (6 164 mm)	248.3 in (6 308 mm)	239.7 in (6 088 mm)
<b>F.</b> Hinge pin height – fully raised		182.9 in (4 646 mm)	182.9 in (4 645 mm)	182.9 in (4 646 mm)
<b>G.</b> Overall length – bucket level on ground		347.4 in (8 823 mm)	353 in (8 967 mm)	343.1 in (8 715 mm)
Dump angle – fully raised		47°	47°	47°
<b>H.</b> Dump height – fully raised, 45° dump		131.7 in (3 344 mm)	128 in (3 252 mm)	134.4 in (3 415 mm)
<b>J.</b> Bucket reach – fully raised, 45° dump		51.6 in (1 310 mm)	55.9 in (1 419 mm)	48.4 in (1 229 mm)
<b>K.</b> Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump		88.9 in (2 258 mm)	91.5 in (2 325 mm)	87.0 in (2 209 mm)
<b>L.</b> Dig depth		4.5 in (114 mm)	4.5 in (114 mm)	4.4 in (111 mm)
Operating load – ISO Rigid Tires		11,201 lb (5 081 kg)	10,960 lb (4 971 kg)	11,488 lb (5 210 kg)
Operating load – ISO Deflected Tires		10,386 lb (4 712 kg)	10,145 lb (4 602 kg)	10,651 lb (4 831 kg)
Maximum material density – ISO Rigid Tires		2,800 lb/yd <sup>3</sup> (1 662 kg/m <sup>3</sup> )	2,307 lb/yd <sup>3</sup> (1 369 kg/m <sup>3</sup> )	2,872 lb/yd <sup>3</sup> (1 704 kg/m <sup>3</sup> )
Maximum material density – ISO Deflected Tires		2,597 lb/yd <sup>3</sup> (1 541 kg/m <sup>3</sup> )	21,36 lb/yd <sup>3</sup> (1 267 kg/m <sup>3</sup> )	2,663 lb/yd <sup>3</sup> (1 580 kg/m <sup>3</sup> )
Tipping load – ISO Rigid Tires:	Straight	27,280 lb (12 374 kg)	26,775 lb (12 145 kg)	28,969 lb (12 686 kg)
	40° turn	22,403 lb (10 162 kg)	21,920 lb (9 943 kg)	22,973 lb (10 420 kg)
Tipping load – ISO Deflected Tires:	Straight	25,945 lb (11 768 kg)	25,434 lb (11 537 kg)	26,593 lb (12 063 kg)
	40° turn	20,778 lb (9 425 kg)	20,290 lb (9 204 kg)	21,303 lb (9 663 kg)
Lift capacity:	Full height	23,474 lb (10 648 kg)	23,207 lb (10 527 kg)	23,480 lb (10 641 kg)
	Ground	33,450 lb (15 172 kg)	32,835 lb (14 894 kg)	34,061 lb (15 450 kg)
Breakout force with tilt cylinder		34,363 lb (15 587 kg)	31,180 lb (14 143 kg)	37,067 lb (16 813 kg)
Loader clearance circle with bucket		549.4 in (13 955 mm)	553.5 in (14 059 mm)	546.4 in (13 880 mm)

<b>921G</b>		<b>Z-Bar/XR</b>	<b>Z-Bar/XR</b>	<b>Z-Bar/XR</b>
Maximum rollback:	Ground	41°/37°	41°/37°	41°/37°
	Carry position	45°/43°	45°/43°	45°/43°
	@ Full height	59°/60°	59°/60°	59°/60°
Maximum grading angle with bucket – back dragging		62°/65°	64°/67°	61°/64°
SAE bucket capacity – struck		3.41 yd <sup>3</sup> (2.61 m <sup>3</sup> )	4.00 yd <sup>3</sup> (3.06 m <sup>3</sup> )	3.41 yd <sup>3</sup> (2.61 m <sup>3</sup> )
	Heaped	4.00 yd <sup>3</sup> (3.06 m <sup>3</sup> )	4.75 yd <sup>3</sup> (3.63 m <sup>3</sup> )	4.00 yd <sup>3</sup> (3.06 m <sup>3</sup> )
Bucket width – outside		119.3 in (3 030 mm)	119.2 in (3 027 mm)	119.3 in (3 030 mm)
Bucket weight		4,770 lb (2 164 kg)	5,147 lb (2 334 kg)	4,824 lb (2 188 kg)

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

Performance data unit equipped with 23.5-R25 L3 Radial tires, ROPS cab with heater and air conditioner, full counterweight, standard batteries, front and rear fenders, 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 F4HFE613R  
Tier 4 Final Certified  
Selective Catalytic Reduction (SCR) with Diesel Oxidation Catalyst  
Selectable work modes:  
Maximum Mode  
Smart Mode  
Turbocharger  
Charge air cooling  
Automatic belt tensioner  
Integral engine oil cooling  
Fuel filter with water trap  
Dual-element dry-type air cleaner  
Hydraulic-driven cooling fan  
Air-cooled radiator  
Mid-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  
Single lever electronic shift control  
F/N/R switch in loader control handle  
Downshift button  
Torque converter  
Heavy-duty axles:  
With locking front differential and open/conventional rear differential  
Outboard planetary axles  
Transmission oil cooler  
Brake pedal transmission disconnect – declutch  
Hydraulic wet disc brakes  
Spring-applied hydraulic release parking brake  
Limp-Home Mode  
Greasable rear axle trunnion  
3-piece rims

### HYDRAULICS

Adjustable Electro-hydraulic – EH joystick loader control and 3 configurable buttons  
Adjustable EH settings:  
Smooth  
Moderate  
Aggressive  
Auxiliary Hydraulics  
Ride Control™  
Locking hydraulics for coupler  
EH Parallel Lift  
Low-effort steering  
Hydraulic driven cooling fan  
Diagnostic quick couplers  
Split flange hydraulic connections – 1 in or greater  
Hydraulic oil cooler

### ELECTRICAL

Alternator and voltage regulator  
Battery isolator/electrical disconnect  
120 amp alternator  
(2) 700 CCA 12-volt batteries  
Electric starter  
Lights:  
Integrated 4-corner strobe  
2 Front and 2 rear halogen flood lights  
2 Front driving headlights – high/low beam with integrated turn signals  
2 LED stop/tail lights with integrated turn signals  
Key start/stop switch  
Backup alarm  
Centrally located fuse box with all electrical circuits protected  
Remote jump start posts

### OTHER

Electric hood lift  
Front and rear fenders, partial coverage  
External rear view mirrors  
Heavy counterweight  
Drawbar hitch  
Articulation locking bar  
Lift arm locking bar  
Lift and tie-down points – front/rear  
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

CASE SiteWatch™ Telematics – includes hardware and a 5-yr Advanced data subscription  
SiteConnect Module provides remote diagnostics capability

## 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

- 5F/3R Autoshift/manual shift transmission, lockup torque converter, PowerInch de-clutch
- Cold weather package:
  - Heavy-duty (2) 950 CCA 12V batteries
  - Fuel heater
  - Hydraulic oil cooler bypass
  - Low temperature hydraulic oil
  - Fast-warm hydraulic valve
- Heavy-duty axles:
  - Limited Slip Front / Limited Slip Rear

### 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

- XR extended reach version
- Attachment auxiliary hydraulics
- Coupler systems – JRB or ACS compatible
- Buckets – see pages 4 through 5

### TIRES

- 23.5 x 25 L2 bias – dirt/traction
- 23.5 x 25 L3 bias – rock
- 23.5-R25 L2 radial – dirt/traction
- 23.5-R25 L3 radial – rock
- 23.5-R25 radial Michelin SnoPlus
- Axle oscillation stops

### OTHER

- 12.4 mph (20 kph) maximum speed control
- Special paint
- Skid plate and transmission
- Wide full coverage fenders with right and left hand steps

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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.