



| ENGINE | |
|--|--|
| Make | FPT |
| Model F4HFE613 | |
| Emissions Certification | Tier 4 Final |
| Emissions Technology | SCR/DOC |
| | oke, turbocharged Id air-to-air cooled |
| Cylinders | 6-cylinder in-line |
| Bore/Stroke | 4.09 x 5.20 in (104 x 132 mm) |
| Displacement | 411 in ³ (6.7 L) |
| , | #1 and #2 mixture cold temperatures |
| Fuel injection Direct inj | ection – electronic |
| Fuel filter full flow | Replaceable, / spin-on cartridge |
| Fuel pump | Bosch CP 3.3 |
| Gradeability: Side-to-side Fore and aft | 35° 35° |
| | Dry type elements estriction indicator |
| Mid-mount cooling module: Mi | d-mount air/water |
| Fan – hydraulic driven: | |
| Style Diameter | 8 blade puller 32 in (813 mm) |
| Water pump | Integral |
| Engine oil pump operating and | 0 |
| Side-to-side Fore and aft Oil filtration | 35° 35° Replaceable, v spin-on cartridge |
| Engine speeds Rated – full load | RPM 2000 |
| Horsepower: Maximum Power Mode: Peak gross @ 1600 RPM Net rated @ 2000 RPM Peak net @ 1600 RPM Standard Power Mode: Peak gross @ 1600 RPM Net rated @ 2000 RPM Peak net @ 1600 RPM | 255 hp (190 kW) 225 hp (168 kW) 242 hp (180 kW) 226 hp (169 kW) 185 hp (138 kW) 213 hp (159 kW) |

| Economy Power Mode: Peak gross @ 1400 RPI Net rated @ 1800 RPM Peak net @ 1400 RPM | M 215 hp (160 kW) 173 hp (129 kW) 206 hp (154 kW) |
|---|---|
| Torque – peak: | |
| Maximum Power Mode: | |
| Gross @ 1300 RPM | 959 lb·ft (1 300 N·m) |
| Net @ 1300 RPM | 930 lb·ft (1 261 N·m) |
| Standard Power Mode: | |
| Gross @ 1300 RPM | 828 lb·ft (1 123 N·m) |
| Net @ 1300 RPM | 800 lb·ft (1 084 N·m) |
| Economy Power Mode: | |
| Gross @ 1300 RPM | 828 lb·ft (1 123 N·m) |
| Net @ 1300 RPM | 800 lb·ft (1 084 N·m) |
| Torque rise: | |
| Maximum power range | 49% |
| NOTE: Gross horsepower and | |

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 | 2.28:1 |
| Stall ratio – 5-speed | 2.35:1 |
| Differential: | |
| Open differentials on front | and rear axles |
| Rear axle oscillation | 24° total |
| Front and rear axles: | |
| Differential ratio | 4.11 |
| Planetary ratio | 6.00 |
| Final axle ratio | 24.67 |
| Heavy-duty axles - optiona | l: |
| Front axle equipped w/ loo | cking differential |
| Rear axle equipped w/ op | en differential |
| Planetaries | Outboard |
| Service brakes: | |
| Hydraulically actuated, ma | aintenance-free, |
| multiple wet disc w/ accur | mulator to all |
| four wheels | |
| Brake surface area: | |
| Front hub | 841 in ² (0.542 m ²) |
| Rear hub | 721 in ² (0.465 m ²) |
| | |

921G *Z-BAR/XR WHEEL LOADER* **TIER 4 FINAL CERTIFIED**

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: | | | | |
| nare opecae | o opeca danomicola | | | |
| | Forward | Reverse | | |
| | | | | |
| 1st | Forward | Reverse | | |
| · | Forward mph (kph) | Reverse mph (kph) | | |
| 1st | Forward mph (kph) 4.0 (6.4) | Reverse mph (kph) 4.2 (6.8) | | |
| 1st 2nd | Forward mph (kph) 4.0 (6.4) 6.9 (11.1) | Reverse mph (kph) 4.2 (6.8) 7.3 (11.7) | | |
| 1st 2nd 3rd | Forward mph (kph) 4.0 (6.4) 6.9 (11.1) 10.6 (17.0) | Reverse mph (kph) 4.2 (6.8) 7.3 (11.7) | | |

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; Key start; Articulated power steering w/ tilt column; Fully adjustable, suspension seat; Foot throttle; Single lever loader control w/ fully adjustable wrist rest, 2 cup holders; 2 interior rear view mirrors; 2 in (51 mm) retractable seat belt; Multiple storage trays; Single brake pedal; F/N/R shuttle switch; External rearview mirrors; 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; Hydraulic oil temperature; Engine coolant temperature; Fuel level; DEF level.

LCD screen:

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*; DEF gauge.

Audible/Visual alarms:

Warning lights: Four-way flashers and turn signals; Brake pressure; Lamp/high beam indication; Grid 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/ 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 yd3 (3.6 m³) 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 yd3 (3.6 m³) GP pin on w/ bolt on edge: 45,651 lb (20 707 kg) **HYDRAULICS**

| Main pump – steering/implement: Closed center pressure/flow compensated | | | |
|--|--|--|--|
| Tandem variable displa Max. rated flow P1: | acement – load-sensing: 42.6 gpm @ 2000 RPM (162 L/min @ 2000 RPM) | | |
| Max. rated flow P2: | 31.6 gpm @ 2000 RPM (120 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 steerir Hydraulic orbital cent w/ on-demand oil flor | ter-pivot articulating | | |
| High pressure standby Implement Steering | /: 3,625 psi (25 000 kPa) 3,500 psi (24 132 kPa) | | |
| Filtration: | | | |

Filtration:

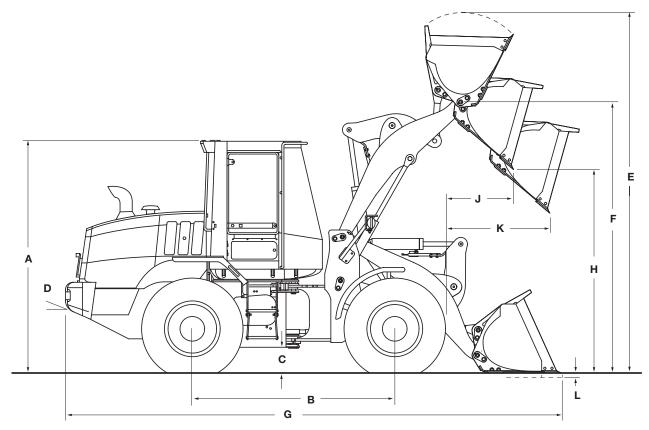
Filtered vent w/ relief on hydraulic reservoir, maintains 3-5 psi on reservoir, 10-micron, return filter furnishes only clean oil to all components of the system

| SERVICE CAPACITIES | |
|---------------------------|--------------------|
| Fuel tank | 76 gal (288.0 L) |
| DEF tank - Diesel Exhaust | Fluid: |
| Usable | 9.8 gal (37.1 L) |
| Total | 15.6 gal (58.9 L) |
| Hydraulic system: | |
| Reservoir | 29.0 gal (110.0 L) |
| Total | 53.0 gal (200.0 L) |
| Transmission: | |
| Service w/ filter | 9.0 gal (34.1 L) |
| Front and rear axle: | |
| Front axle | 44.4 qt (42.0 L) |
| Rear axle | 42.3 qt (40.0 L) |
| Engine oil w/ filter | 16.0 qt (15.1 L) |
| Cooling system | 32 qt (30.0 L) |

OTHER SPECIFICATIONS

| Lift cylinder: | | |
|---|------------------|--|
| Bore diameter | 6.0 in (152 mm) | |
| Rod diameter | 3.5 in (89 mm) | |
| Stroke | 33.3 in (846 mm) | |
| Dump cylinder: | | |
| Bore diameter | 7.0 in (178 mm) | |
| Rod diameter | 4.0 in (102 mm) | |
| Stroke | 23.6 in (600 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; Bu | cket position | |
| indicator on bucket. | | |
| Cycle time: | | |
| Raise w/ rated bucket load | 6.3 sec | |
| Dump w/ rated bucket load | 1.5 sec | |
| Float down | 3.6 sec | |
| Sound level in Cab (LpA) | 69 dB(A) | |
| Exterior sound level (LwA) | 104 dB(A) | |
| | | |

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) |
| Centerline tread | 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) | -102 lb (-46 kg) | -117 lb (-53 kg) |
| 23.5-R25 L3 Bias tires | -504 lb (-229 kg) | -459 lb (-208 kg) | -1,048 lb (-475 kg) |
| Light counterweight | -1,364 lb (-619 kg) | -2,895 lb (-1 313 kg) | -2,283 lb (-1 035 kg) |

NOTE: Unit equipped with Z-Bar loader arms, 4.75 yd³ (3.6 m³) 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 | | | | |
|--------------------------------------|-----------------------|--|---|---|
| 921G Z-Bar* | | 4.0 yd ³ (3.1 m ³) Bucket with Bolt-on Edge - Pin On | 3.8 yd³ (2.9 m³) Bucket with Teeth - Pin On | 4.75 yd ³ (3.6 m ³) Bucket with Bolt-on Edge - Pin On |
| Operating weight | | 44,778 lb (20 311 kg) | 44,636 lb (20 247 kg) | 45,070 lb (20 443 kg) |
| E. Operating height - fully raised v | vith spillguard | 222.1 in (5 642 mm) | 214.4 in (5 445 mm) | 220.1 in (5 589 mm) |
| F. Hinge pin height – fully raised | | 162.4 in (4 124 mm) | 162.4 in (4 124 mm) | 162.3 in (4 124 mm) |
| G. Overall length - bucket level on | ground | 317.1 in (8 055 mm) | 323.0 in (8 203 mm) | 322.7 in (8 198 mm) |
| Dump angle – fully raised | | 55° | 55° | 55° |
| H. Dump height – fully raised, 45° | dump | 118.3 in (3 004 mm) | 114.5 in (2 908 mm) | 114.6 in (2 912 mm) |
| J. Bucket reach - fully raised, 45° | dump | 42.5 in (1 079 mm) | 46.9 in (1 192 mm) | 46.8 in (1 189 mm) |
| K. Bucket reach - 7 ft 0 in (2.13 m |) height, 45° dump | 66.3 in (1 684 mm) | 69.0 in (1 751 mm) | 68.9 in (1 750 mm) |
| L. Dig depth – edge below ground | | 2.9 in (73 mm) | 2.9 in (74 mm) | 2.9 in (74 mm) |
| Operating load - ISO Rigid Tires | | 16,809 lb (7 624 kg) | 17,060 lb (7 738 kg) | 16,515 lb (7 491 kg) |
| Operating load - ISO Deflected Tire | s | 14,576 lb (6 612 kg) | 14,798 lb (6 712 kg) | 14,264 lb (6 470 kg) |
| Maximum material density - ISO Rig | gid Tires | 4,202 lb/yd ³ (2 493 kg/m ³) | 4,490 lb/yd3 (2 664 kg/m3) | 3,477 lb/yd3 (2 063 kg/m3) |
| Maximum material density - ISO De | flected Tires | 3,644 lb/yd ³ (2 162 kg/m ³) | 3,894 lb/yd ³ (2 311 kg/m ³) | 3,003 lb/yd3 (1 782 kg/m3) |
| Tipping load – ISO Rigid Tires: | Straight 40° turn | 38,941 lb (17 664 kg) 33,617 lb (15 249 kg) | 39,494 lb (17 914 kg) 34,121 lb (15 477 kg) | 38,311 lb (17 377 kg) 33,029 lb (14 982 kg) |
| Tipping load – ISO Deflected Tires: | Straight 40° turn | 36,345 lb (16 486 kg) 29,152 lb (13 223 kg) | 36,858 lb (16 719 kg) 29,595 lb (13 424 kg) | 35,693 lb (16 190 kg) 28,529 lb (12 940 kg) |
| Lift capacity: | Full height Ground | 27,024 lb (12 258 kg) 48,948 lb (22 202 kg) | 27,185 lb (12 331 kg) 49,322 lb (22 372 kg) | 26,721 lb (12 121 kg) 45,618 lb (20 692 kg) |
| Breakout force with tilt cylinder | | 42,254 lb (19 166 kg) | 45,459 lb (20 620 kg) | 37,688 lb (17 095 kg) |
| Loader clearance circle with bucket | | 522.6 in (13 275 mm) | 525.8 in (13 357 mm) | 525.8 in (13 356 mm) |

| 921G XR | | 4.0 yd ³ (3.1 m ³) Bucket with Bolt-on Edge - Pin On | 3.8 yd ³ (2.9 m ³) Bucket with Teeth - Pin On | 4.75 yd ³ (3.6 m ³) Bucket with Bolt-on Edge - Pin On |
|--------------------------------------|-----------------------|--|---|---|
| Operating weight | | 45,359 lb (20 574 kg) | 45,217 lb (20 510 kg) | 45,651 lb (20 707 kg) |
| E. Operating height - fully raised v | vith spillguard | 239.5 in (6 084 mm) | 231.7 in (5 886 mm) | 237.4 in (6 031 mm) |
| F. Hinge pin height – fully raised | | 179.7 in (4 565 mm) | 179.7 in (4 565 mm) | 179.7 in (4 565 mm) |
| G. Overall length - bucket level on | ground | 336.3 in (8 541 mm) | 342.1 in (8 690 mm) | 341.9 in (8 684 mm) |
| Dump angle - fully raised | | 49° | 49° | 49° |
| H. Dump height – fully raised, 45° | dump | 135.6 in (3 445 mm) | 131.9 in (3 349 mm) | 132.0 in (3 353 mm) |
| J. Bucket reach - fully raised, 45° | dump | 46.9 in (1 192 mm) | 51.4 in (1 305 mm) | 51.2 in (1 302 mm) |
| K. Bucket reach - 7 ft 0 in (2.13 m |) height, 45° dump | 83.4 in (2 119 mm) | 86.3 in (2 193 mm) | 86.3 in (2 191 mm) |
| L. Dig depth – edge below ground | | 5.5 in (140 mm) | 5.6 in (141 mm) | 5.5 in (141 mm) |
| Operating load – ISO Rigid Tires | | 13,377 lb (6 068 kg) | 13,574 lb (6 157 kg) | 13,119 lb (5 951 kg) |
| Operating load – ISO Deflected Tire | S | 11,786 lb (5 346 kg) | 11,965 lb (5 427 kg) | 11,520 lb (5 225 kg) |
| Maximum material density - ISO Rig | gid Tires | 3,344 lb/yd ³ (1 984 kg/m ³) | 3,572 lb/yd ³ (2 120 kg/m ³) | 2,762 lb/yd3 (1 639 kg/m3) |
| Maximum material density - ISO De | eflected Tires | 2,946 lb/yd ³ (1 748 kg/m ³) | 3,149 lb/yd ³ (1 868 kg/m ³) | 2,425 lb/yd ³ (1 439 kg/m ³) |
| Tipping load – ISO Rigid Tires: | Straight 40° turn | 31,222 lb (14 162 kg) 26,753 lb (12 135 kg) | 31,652 lb (14 357 kg) 27,147 lb (12 314 kg) | 30,675 lb (13 914 kg) 26,239 lb (11 902 kg) |
| Tipping load – ISO Deflected Tires: | Straight 40° turn | 29,458 lb (13 362 kg) 23,572 lb (10 692 kg) | 29,864 lb (13 546 kg) 23,929 lb (10 854 kg) | 28,900 lb (13 109 kg) 23,040 lb (10 451 kg) |
| Lift capacity: | Full height Ground | 24,908 lb (11 298 kg) 37,534 lb (17 025 kg) | 25,067 lb (11 370 kg) 37,890 lb (17 187 kg) | 24,608 lb (11 162 kg) 36,861 lb (16 720 kg) |
| Breakout force with tilt cylinder | | 42,961 lb (19 487 kg) | 46,216 lb (20 963 kg) | 38,323 lb (17 383 kg) |
| Loader clearance circle with bucket | | 541.7 in (13 760 mm) | 545.6 in (13 859 mm) | 545.6 in (13 858 mm) |

| 921G | | Z-Bar/XR | Z-Bar/XR | Z-Bar/XR |
|---|----------------|---|---|---|
| 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 | | 60°/63° | 61°/64° | 61°/63° |
| SAE bucket capacity - struck | | 3.41 yd ³ (2.61 m ³) | 3.25 yd ³ (2.48 m ³) | 4.08 yd ³ (3.12 m ³) |
| Heaped | | 4.00 yd ³ (3.06 m ³) | 3.80 yd ³ (2.91 m ³) | 4.75 yd ³ (3.63 m ³) |
| Bucket width - outside | | 119.3 in (3 030 mm) | 119.2 in (3 027 mm) | 119.3 in (3 030 mm) |
| Bucket weight | | 3,382 lb (1 534 kg) | 3,240 lb (1 470 kg) | 3,674 lb (1 666 kg) |

| 921G Z-Bar* | | 4.6 yd ³ (3.5 m ³) Bucket with Teeth - Pin On | 4.0 yd ³ (3.1 m ³) Bucket with Bolt-on Edge - ACS Coupler | 3.8 yd ³ (2.9 m ³) Bucket with Teeth - ACS Coupler |
|---|-----------------------|---|---|--|
| Operating weight | | 44,929 lb (20 379 kg) | 46,220 lb (20 965 kg) | 46,078 lb (20 901 kg) |
| E. Operating height - fully raised v | vith spillguard | 220.1 in (5 589 mm) | 219.0 in (5 562 mm) | 219.0 in (5 563 mm) |
| F. Hinge pin height – fully raised | | 162.4 in (4 124 mm) | 162.3 in (4 122 mm) | 162.3 in (4 123 mm) |
| G. Overall length - bucket level on | ground | 328.6 in (8 347 mm) | 324.0 in (8 230 mm) | 329.9 in (8 379 mm) |
| Dump angle - fully raised | | 55° | 55° | 55° |
| H. Dump height – fully raised, 45° | dump | 110.9 in (2 816 mm) | 113.8 in (2 890 mm) | 110.0 in (2 794 mm) |
| J. Bucket reach – fully raised, 45° dump | | 51.2 in (1 302 mm) | 47.8 in (1 213 mm) | 52.2 in (1 326 mm) |
| K. Bucket reach - 7 ft 0 in (2.13 m) height, 45° dump | | 71.4 in (1 813 mm) | 69.4 in (1 764 mm) | 71.9 in (1 826 mm) |
| L. Dig depth – edge below ground | | 2.9 in (75 mm) | 2.9 in (75 mm) | 3.0 in (76 mm) |
| Operating load – ISO Rigid Tires | | 16,757 lb (7 601 kg) | 15,380 lb (6 976 kg) | 17,302 lb (7 848 kg) |
| Operating load – ISO Deflected Tires | | 14,479 lb (6 567 kg) | 13,249 lb (6 010 kg) | 14,649 lb (6 645 kg) |
| Maximum material density – ISO Rigid Tires | | 3,643 lb/yd3 (2 162 kg/m3) | 3,845 lb/yd ³ (2 282 kg/m ³) | 4,553 lb/yd3 (2 702 kg/m3) |
| Maximum material density - ISO De | flected Tires | 3,148 lb/yd3 (1 868 kg/m3) | 3,312 lb/yd ³ (1 965 kg/m ³) | 3,855 lb/yd ³ (2 287 kg/m ³) |
| Tipping load - ISO Rigid Tires: | Straight 40° turn | 38,842 lb (17 619 kg) 33,514 lb (15 202 kg) | 35,842 lb (16 258 kg) 30,760 lb (13 953 kg) | 40,288 lb (18 274 kg) 34,605 lb (15 696 kg) |
| Tipping load – ISO Deflected Tires: | Straight 40° turn | 36.187 lb (16 414 kg) 28,958 lb (13 135 kg) | 33,380 lb (15 141 kg) 26,498 lb (12 019 kg) | 37,122 lb (16 838 kg) 29,298 lb (13 289 kg) |
| Lift capacity: | Full height Ground | 26,882 lb (12 193 kg) 47,935 lb (21 743 kg) | 25,510 lb (11 571 kg) 38,169 lb (17 313 kg) | 25,864 lb (11 732 kg) 48,195 lb (21 861 kg) |
| Breakout force with tilt cylinder | | 40,265 lb (18 264 kg) | 36,514 lb (16 562 kg) | 38,959 lb (17 671 kg) |
| Loader clearance circle with bucket | | 529.1 in (13 440 mm) | 526.5 in (13 374 mm) | 529.9 in (13 459 mm) |

| 921G XR | | 4.6 yd ³ (3.5 m ³) Bucket with Teeth - Pin On | 4.0 yd ³ (3.1 m ³) Bucket with Bolt-on Edge - ACS Coupler | 3.8 yd ³ (2.9 m ³) Bucket with Teeth - ACS Coupler |
|---|--------------------------------------|---|---|--|
| Operating weight | | 45,510 lb (20 643 kg) | 46,801 lb (21 228 kg) | 46,659 lb (21 164 kg) |
| E. Operating height – fully raised v | vith spillguard | 237.4 in (6 031 mm) | 236.4 in (6 004 mm) | 236.4 in (6 004 mm) |
| F. Hinge pin height – fully raised | | 179.7 in (4 565 mm) | 179.7 in (4 564 mm) | 179.7 in (4 564 mm) |
| G. Overall length - bucket level on | ground | 347.7 in (8 833 mm) | 343.2 in (8 716 mm) | 349.0 in (8 865 mm) |
| Dump angle - fully raised | | 49° | 49° | 49° |
| H. Dump height – fully raised, 45° | dump | 128.2 in (3 257 mm) | 131.2 in (3 331 mm) | 127.4 in (3 235 mm) |
| J. Bucket reach - fully raised, 45° | dump | 55.7 in (1 414 mm) | 52.2 in (1 326 mm) | 56.6 in (1 439 mm) |
| K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump | | 89.0 in (2 262 mm) | 86.9 in (2 206 mm) | 89.6 in (2 276 mm) |
| L. Dig depth – edge below ground | L. Dig depth – edge below ground | | 5.6 in (141 mm) | 5.6 in (142 mm) |
| Operating load – ISO Rigid Tires | Operating load – ISO Rigid Tires | | 12,177 lb (5 523 kg) | 13,450 lb (6 101 kg) |
| Operating load – ISO Deflected Tire | Operating load – ISO Deflected Tires | | 10,650 lb (4 831 kg) | 11,631 lb (5 276 kg) |
| Maximum material density - ISO Rig | gid Tires | 2,894 lb/yd3 (1 717 kg/m3) | 3,044 lb/yd ³ (1 806 kg/m ³) | 3,539 lb/yd ³ (2 100 kg/m ³) |
| Maximum material density - ISO De | eflected Tires | 2,542 lb/yd3 (1 508 kg/m3) | 2,662 lb/yd3 (1 580 kg/m3) | 3,061 lb/yd ³ (1 816 kg/m ³) |
| Tipping load – ISO Rigid Tires: | Straight 40° turn | 31,090 lb (14 102 kg) 26,621 lb (12 075 kg) | 28,646 lb (12 993 kg) 24,353 lb (11 046 kg) | 31,607 lb (14 337 kg) 26,899 lb (12 201 kg) |
| Tipping load - ISO Deflected Tires: | Straight 40° turn | 29,293 lb (13 287 kg) 23,387 lb (10 608 kg) | 26,960 lb (12 229 kg) 21,299 lb (9 661 kg) | 29,546 lb (13 402 kg) 23,262 lb (10 551 kg) |
| Lift capacity: | Full height Ground | 24,767 lb (11 234 kg) 37,203 lb (16 875 kg) | 23,404 lb (10 616 kg) 35,045 lb (15 896 kg) | 23,741 lb (10 769 kg) 36,562 lb (16 584 kg) |
| Breakout force with tilt cylinder | | 40,940 lb (18 570 kg) | 37,135 lb (16 844 kg) | 39,618 lb (17 970 kg) |
| Loader clearance circle with bucket | t | 549.6 in (13 959 mm) | 546.4 in (13 880 mm) | 550.5 in (13 982 mm) |

| 921G | | Z-Bar/XR | Z-Bar/XR | Z-Bar/XR |
|---|----------------|---|---|---|
| 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° | 61°/64° | 63°/65° |
| SAE bucket capacity - struc | k | 3.98 yd ³ (3.04 m ³) | 3.41 yd ³ (2.61 m ³) | 3.25 yd ³ (2.48 m ³) |
| Heaped | | 4.60 yd ³ (3.52 m ³) | 4.00 yd ³ (3.06 m ³) | 3.80 yd ³ (2.91 m ³) |
| Bucket width - outside | | 119.2 in (3 027 mm) | 119.3 in (3 030 mm) | 119.2 in (3 027 mm) |
| Bucket weight | | 3,532 lb (1 602 kg) | 4,824 lb (2 188 kg) | 4,682 lb (2 124 kg) |

| PERFORMANCE SPECS | | | |
|---|-----------------------|---|--|
| 921G Z-Bar* | | 4.0 yd ³ (3.1 m ³) Bucket with Bolt-on Edge - JRB Coupler | 3.8 yd ³ (2.9 m ³) Bucket with Teeth - JRB Coupler |
| Operating weight | | 46,166 lb (20 941 kg) | 46,025 lb (20 877 kg) |
| E. Operating height - fully raised v | vith spillguard | 222.1 in (5 641 mm) | 222.1 in (5 641 mm) |
| F. Hinge pin height – fully raised | | 162.3 in (4 123 mm) | 162.3 in (4 123 mm) |
| G. Overall length - bucket level on | ground | 328.2 in (8 337 mm) | 334.1 in (8 486 mm) |
| Dump angle – fully raised | | 55° | 55° |
| H. Dump height – fully raised, 45° dump | | 111.1 in (2 821 mm) | 107.3 in (2 725 mm) |
| J. Bucket reach – fully raised, 45° dump | | 51.0 in (1 295 mm) | 55.4 in (1 408 mm) |
| K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump | | 71.3 in (1 810 mm) | 73.6 in (1 869 mm) |
| L. Dig depth – edge below ground | | 2.9 in (75 mm) | 3.0 in (76 mm) |
| Operating load – ISO Rigid Tires | | 14,957 lb (6 785 kg) | 15,179 lb (6 885 kg) |
| Operating load – ISO Deflected Tire | S | 12,882 lb (5 843 kg) | 13,079 lb (5 933 kg) |
| Maximum material density - ISO Rig | gid Tires | 3,739 lb/yd ³ (2 219 kg/m ³) | 3,995 lb/yd ³ (2 370 kg/m ³) |
| Maximum material density - ISO De | eflected Tires | 3,220 lb/yd ³ (1 911 kg/m ³) | 3,442 lb/yd ³ (2 042 kg/m ³) |
| Tipping load – ISO Rigid Tires: | Straight 40° turn | 34,858 lb (15 811 kg) 29,915 lb (13 569 kg) | 35,345 lb (16 032 kg) 30,359 lb (13 770 kg) |
| Tipping load – ISO Deflected Tires: | Straight 40° turn | 32,471 lb (14 728 kg) 25,763 lb (11 686 kg) | 32,926 lb (14 935 kg) 26,158 lb (11 865 kg) |
| Lift capacity: | Full height Ground | 25,513 lb (11 573 kg) 33,475 lb (15 184 kg) | 25,673 lb (11 645 kg) 34,900 lb (15 830 kg) |
| Breakout force with tilt cylinder | | 33,854 lb (15 356 kg) | 35,974 lb (16 317 kg) |
| Loader clearance circle with bucket | | 529.0 in (13 437 mm) | 532.4 in (13 523 mm) |
| | | | |

| 921G XR | | 4.0 yd ³ (3.1 m ³) Bucket with Bolt-on Edge - JRB Coupler | 3.8 yd ³ (2.9 m ³) Bucket with Teeth - JRB Coupler |
|---|-----------------------|---|--|
| Operating weight | | 46,748 lb (21 204 kg) | 46,606 lb (21 140 kg) |
| E. Operating height - fully raised w | vith spillguard | 239.5 in (6 082 mm) | 239.5 in (6 082 mm) |
| F. Hinge pin height – fully raised | | 179.7 in (4 564 mm) | 179.7 in (4 564 mm) |
| G. Overall length - bucket level on | ground | 347.4 in (8 823 mm) | 353.2 in (8 972 mm) |
| Dump angle – fully raised | | 49° | 49° |
| H. Dump height – fully raised, 45° | dump | 128.4 in (3 263 mm) | 124.7 in (3 167 mm) |
| J. Bucket reach – fully raised, 45° | dump | 55.4 in (1 408 mm) | 59.9 in (1 521 mm) |
| K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump | | 88.9 in (2 258 mm) | 91.5 in (2 325 mm) |
| L. Dig depth – edge below ground | | 5.6 in (141 mm) | 5.6 in (142 mm) |
| Operating load – ISO Rigid Tires | | 11,887 lb (5 392 kg) | 12,064 lb (5 472 kg) |
| Operating load – ISO Deflected Tire | s | 10,394 lb (4 715 kg) | 10,556 lb (4 788 kg) |
| Maximum material density - ISO Rig | gid Tires | 2,972 lb/yd ³ (1 763 kg/m ³) | 3,175 lb/yd ³ (1 884 kg/m ³) |
| Maximum material density - ISO De | eflected Tires | 2,598 lb/yd ³ (1 542 kg/m ³) | 2,778 lb/yd ³ (1 648 kg/m ³) |
| Tipping load – ISO Rigid Tires: | Straight 40° turn | 27,964 lb (12 684 kg) 23,773 lb (10 783 kg) | 28,351 lb (12 860 kg) 24,128 lb (10 944 kg) |
| Tipping load – ISO Deflected Tires: | Straight 40° turn | 26,321 lb (11 939 kg) 20,788 lb (9 429 kg) | 26,689 lb (12 106 kg) 21,112 lb (9 576 kg) |
| Lift capacity: | Full height Ground | 23,413 lb (10 620 kg) 34,420 lb (15 613 kg) | 23,572 lb (10 692 kg) 34,752 lb (15 763 kg) |
| Breakout force with tilt cylinder | | 34,432 lb (15 618 kg) | 36,585 lb (16 595 kg) |
| Loader clearance circle with bucket | | 549.4 in (13 955 mm) | 553.5 in (14 059 mm) |

| 921G | | Z-Bar/XR | Z-Bar/XR |
|---|----------------|---|---|
| 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 | | 62°/65° | 64°/67° |
| SAE bucket capacity - struc | ck | 3.41 yd ³ (2.61 m ³) | 3.25 yd ³ (2.48 m ³) |
| Heaped | | 4.00 yd ³ (3.06 m ³) | 3.80 yd ³ (2.91 m ³) |
| Bucket width - outside | | 119.3 in (3 030 mm) | 119.2 in (3 027 mm) |
| Bucket weight | | 4,770 lb (2 164 kg) | 4,629 lb (2 100 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 Power Standard Power Economy Power Auto Power 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 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 Open differential axles: Provides open type differentials in front and rear axles. 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

Electro-hydraulic (EH) joystick loader control 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: 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 Heavy counterweight Drawbar hitch Articulation locking bar Lift arm locking bar Lift and tie-down points – front/rear Grouped remote-mounted ecology drains: Engine oil Engine coolant Hydraulic oil

TELEMATICS

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

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Cloth-covered heated air-suspension seat Leather trimmed heated air seat with active suspension Cloth mechanical suspension seat Headrest 3 in (76 mm) retractable seat belt Sound Shield noise suppression package Bluetooth radio, 12V AM/FM with auxiliary input Radio-ready - 12 or 24-volt with auxiliary power - 12-volt Cab convenience package: Rear sun shade, interior mirror, under the seat drawer, coat hook, 12V accessory port, and an ash tray In cab powered cooler box In cab accessory mount LED rotating beacon Rear view camera External rear view mirrors External heated rear view mirrors Front LED driving/headlights LED front and rear work lights Extra front-facing LED work lights

DRIVETRAIN

- 5F/3R Autoshift/manual shift transmission, lockup torque converter, PowerInch de-clutch
- Heavy duty axle heavy-duty application: Same size axles as standard axles but with automatic hydraulically-actuated differential lock on front axle, open differential on rear axle. Recommended for applications on hard surfaces or with solid tires.

Cold weather package:

- Heavy-duty (2) 950 CCA 12V batteries Grid heater
- Fuel heater
- Hydraulic oil cooler bypass
- Low temperature hydraulic oil

Fast-warm hydraulic valve

HYDRAULICS

- Auxiliary hydraulics
- Ride Control[™]
- Secondary steering
- Joystick steering with and without secondary steering
- 2-function loader valve with single access control
- 3-function loader valve with 3 lever control or with joystick plus lever
- 4-function loader valve with joystick and 2 lever control

LOADER

XR extended reach version Attachment auxiliary hydraulics Coupler systems - JRB or ACS compatible Buckets - see pages 4 through 6 4 - 1 clamp buckets Forks

TIRES

23.5 x 25 L2 bias - dirt/traction 23.5 x 25 L3 bias - rock 23.5-B25 I 2 radial - dirt/traction 23.5-R25 L3 radial - rock 23.5-R25 radial Michelin SnoPlus Spare wheels and tires Axle oscillation stops

ADVANCED ENGINE AIR FILTRATION

Variable speed hydraulic reversing fan Full-view air pre-cleaner Sy-Klone® ejector type pre-cleaner

OTHER

Additional RH steps and platform with standard or wide fenders Side guards for rear frame Tool box - ground level access Light counterweight - Z-Bar Fire extinguisher License plate bracket 12.4 mph (20 kph) maximum speed control Special paint Skid plate and transmission Standard fenders with right and left hand steps Wide full coverage fenders with right and left hand steps



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921G

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CASE Construction Equipment is biodieselfriendly. NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAF Standards or



Recommended Practices, where applicable. ▲ SAFETY™ 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.