

Folsom City Council Staff Report

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|------------------------|--|
| MEETING DATE: | 3/24/2026 |
| AGENDA SECTION: | Consent Calendar |
| ITEM TITLE: | Resolution No. 11577 – A Resolution Authorizing the City Manager to Execute an Agreement with N&S Tractor Co. for \$259,860.68 with \$129,930.34 Funded from the Water Operating Fund (Fund 520) and \$129,930.34 Funded from the Wastewater Operating Fund (Fund 530) for the Purchase of a Front Loader and Appropriation of Funds |
| FROM: | Utilities Department |

RECOMMENDATION / CITY COUNCIL ACTION

The Utilities Department recommends the City Council pass and adopt Resolution No. 11577 – A Resolution Authorizing the City Manager to Execute an Agreement with N&S Tractor Co. for \$259,860.68 with \$129,930.34 Funded from the Water Operating Fund (Fund 520) and \$129,930.34 Funded from the Wastewater Operating Fund (Fund 530) for the Purchase of a Front Loader and Appropriation of Funds.

BACKGROUND / ISSUE

The Utilities Department recognizes the need to maintain a fleet of vehicles that will be able to provide reliable, efficient and responsive service. In coordination with the City of Folsom Fleet Division, current department vehicles are reviewed to assess expected service life and associated maintenance costs. This review identified that the Front Loader currently used by the Utility Maintenance Division has exceeded its expected service life in terms of age, mileage and ongoing maintenance costs, and is thus a high priority for replacement. This resolution will authorize the City Manager to execute an agreement for the purchase of a new Front Loader manufactured by Case Tractors, to replace this vehicle.

POLICY / RULE

In accordance with Chapter 2.36 of the Folsom Municipal Code, supplies, equipment, services, and construction with a value of \$77,426 or greater shall be awarded by City Council.

Section 2.36.170 of the Folsom Municipal Code permits cooperative purchasing agreements for the procurement of any supplies, equipment, service, or construction with one or more public procurement units in accordance with an agreement entered into or between the participants.

ANALYSIS

Utilities Department staff coordinate with the City of Folsom Fleet Division to review current department vehicles and equipment, to help identify priority vehicles for replacement based on service life, mileage and purpose. Based on this review, it was concluded that a high priority vehicle for replacement is the Utility Maintenance Division's Front Loader, vehicle #929.

The Utility Maintenance Division has need of a Front Loader on a daily basis for loading trucks with backfill and spoil materials. This equipment is necessary for the division to complete the essential work of maintaining the City's water and wastewater infrastructure.

Since it was purchased in 2005, the current front loader has completed more than 3,300 engine hours. Due to mechanical issues, which have limited use of the vehicle, and associated maintenance costs, a new front loader is required for efficient continuation of division operations.

The Utilities Department proposes transferring the current front loader (vehicle #929) to the Water Treatment Plant division. On multiple occasions throughout the year, the Water Treatment Plant division rents front loaders to complete essential tasks such as seasonal sludge clean up. Staff anticipate using the vehicle for less than 200 hours per year, and the ability to maintain vehicle #929 for this occasional light use. Transfer of vehicle #929 would therefore reduce operational costs by removing the need to rent equipment.

Utilities Department staff coordinated with the Fleet Division to obtain the attached quote from N&S Tractor Co. for a new Front Loader manufactured by Case Construction, for a total price of \$259,860.68. N&S Tractor Co. is a local dealer for Case Construction, who has a current contract with Sourcewell, which is a national cooperative purchasing entity of which the City of Folsom is a member. The City has purchased numerous items and vehicles through Sourcewell.

The Utilities Department recommends that the City Council authorize the City Manager to execute an agreement with N&S Tractor Co. for the purchase of a Front Loader.

FINANCIAL IMPACT

N&S Tractor Co. has agreed to provide the required Front Loader for a total of \$259,860.68. The cost of the vehicle will be divided equally between the Water Operating Fund (Fund 520) and in the Wastewater Operating Fund (Fund 530), in the amount of \$129,930.34 per fund.

Sufficient funds are budgeted and available in Fund 520 in FY 2025-26 for this agreement. There is a total of \$98,250 available in the FY 2025-26 Wastewater Operating Budget (Fund 530) to

replace sewer vehicles. Staff is requesting an appropriation in the amount of \$31,750 in the Wastewater Operating Fund (Fund 530) for the purchase of the Front Loader.

ENVIRONMENTAL REVIEW

This action is exempt from environmental review under the California Environmental Quality Act. (CEQA).

ATTACHMENTS

1. Resolution No. 11577 – A Resolution Authorizing the City Manager to Execute an Agreement with N&S Tractor Co. for \$259,860.68 with \$129,930.34 Funded from the Water Operating Fund (Fund 520) and \$129,930.34 Funded from the Wastewater Operating Fund (Fund 530) for the Purchase of a Front Loader and Appropriation of Funds
2. Quote and specification from N&S Tractor Co. for the Front Loader

Submitted,

Marcus Yasutake, Director
UTILITIES DEPARTMENT

Attachment 1

RESOLUTION NO. 11577

A RESOLUTION AUTHORIZING THE CITY MANAGER TO EXECUTE AN AGREEMENT WITH N&S TRACTOR CO. FOR \$259,860.68 WITH \$129,930.34 FUNDED FROM THE WATER OPERATING FUND (FUND 520) AND \$129,930.34 FUNDED FROM THE WASTEWATER OPERATING FUND (FUND 530) FOR THE PURCHASE OF A FRONT LOADER AND APPROPRIATION OF FUNDS

WHEREAS, Utilities Department staff has validated the need to purchase a Front Loader based on an approved replacement schedule; and

WHEREAS, N&S Tractor Co. has agreed to sell a Front Loader manufactured by Case Construction for an amount not to exceed \$259,860.68; and

WHEREAS, Case Construction has a current contract with Sourcewell to provide equipment, products, or services to Sourcewell and the entities that access Sourcewell's cooperative purchasing contracts; and

WHEREAS, the cost of the vehicle will be shared equally between the Water Operating Fund (Fund 520) and the Wastewater Operating Fund (Fund 530); and

WHEREAS, sufficient funds are budgeted and available in the Water Operating Fund (Fund 520) in the amount of \$129,930.34; and

WHEREAS, an additional appropriation will be required in the Wastewater Operating Fund (Fund 530) for this purchase; and

WHEREAS, staff is requesting an appropriation in the Wastewater Operating Fund (Fund 530), in the amount of \$31,750; and

WHEREAS, sufficient funds are available in the Wastewater Operating Fund (Fund 530) for the requested appropriation; and

WHEREAS, the agreement will be in a form acceptable to the City Attorney:

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Folsom authorizes the City Manager to execute an Agreement with N&S Tractor Co. for \$259,860.68 with \$129,930.34 funded from the Water Operating Fund (Fund 520) and \$129,930.34 funded from the Wastewater Operating Fund (Fund 530) for the Purchase of a Front Loader.

BE IT FURTHER RESOLVED that the Finance Director is authorized to appropriate \$31,750 in the Wastewater Operating Fund (Fund 530).

PASSED AND ADOPTED this 24th day of March 2026, by the following roll-call vote:

AYES: Councilmember(s):

NOES: Councilmember(s):
ABSENT: Councilmember(s):
ABSTAIN: Councilmember(s):

Justin Raithel, MAYOR

ATTEST:

Christa Freemantle, CITY CLERK

Attachment 2



Purchase Agreement

N&S Tractor Dixon

916-649-0096 · 793 N. 1st St Dixon, CA 95620

Prepared For: CITY OF FOLSOM (R09671)
Address: 50 NATOMA ST FOLSOM, CA 95630
Contact: (916) 461-6749 · Gbakken@folsom.ca.us

Quote Number: Q-268-46170
Date Prepared: 02/20/2026
Presented By: Mike Calderon (707-903-1373)

Quoted Equipment Overview

New 2025 CASE CE 621G Z-BAR

Stock Number: CCE010 **Serial #:** FNH0621GNZHE18819
Engine Hours: 7.8 **Delivery Extra**

Base Warranty: CNH BASE WARRANTY
36 Months 3000 Total Hours \$0.00 Deductible
Warranty expires 02/20/2029 **Travel Time Included**

Planned Maintenance: CNH PROCARE
36 Months 2000 Total Hours \$0.00 Deductible
Warranty expires 02/20/2029 **Travel Time Not Included**

Case CE 651 Z-Bar Wheel Loader Quick Pick 1 Zbar Linkage Boom-4-speed Transmission Heavy Duty Axles Cooling System with Reversing Fan Enhanced Cab Comfort 3in Seatbelt with High Visibility-Enhanced Visibility Bundle Standard Hydraulic Steering Joystick with 1 AUX Function Standard Fenders with LH/RH Steps 20.5x25 L3 Michelin XHA2 4WS Tires Locking Hydraulic for Coupler Standard Weather Package Ride Control JRB Zbar/XR Coupler 3.0 cu yd JRB Coupler Bucket with BOE

Pricing

2025 CASE CE 621G Z-BAR: \$202,647.49
Freight from CNH : \$4,815.00
Pre Delivery Inspection : \$3,251.95
4% Tariff : \$8,220.07
3 Yard MP Bucket: \$21,764.96

Equipment Subtotal: \$240,699.47
Delivery Charge: \$500.00
Sales Tax (7.750%): \$18,654.21

Subtotal: \$259,853.68
Tire Tax: \$7.00

Total Price: \$259,860.68
Quote Expires: 02/28/2026

Comments: CNH Sourcewell Contract # 011723
City of Folsom Sourcewell Account #90124
List Sales Price: \$285,419.00
Sourcewell Member Discount Off List: 29% or \$82,771.51
Sourcewell Case 621G Sale Price: \$202,647.49

Accepted By: _____

Date: _____



ENGINE

| | |
|---|--|
| Make | FPT |
| Model | F4HFE613W |
| 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 ³ (6.7 L) |
| Fuel | #2 Diesel, #1 and #2 mixture permitted for cold temperatures |
| Fuel injection | Direct injection – electronic |
| Fuel filter | Replaceable |
| Fuel pump | Bosch |
| Gradeability: | |
| Side-to-side | 35° |
| Fore and aft | 35° |
| 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 operating angle ratings: | |
| Side-to-side | 35° |
| Fore and aft | 35° |
| Oil filtration | Replaceable |
| Engine speeds | RPM |
| Rated – full load | 2000 |
| Horsepower – Maximum Power: | |
| Peak gross @ 1800 RPM | 172 hp (128 kW) |
| Net rated @ 2000 RPM | 151 hp (113 kW) |
| Peak net @ 1800 RPM | 162 hp (121 kW) |
| Torque – Maximum Torque: | |
| Gross @ 1600 RPM | 538 lb-ft (730 N-m) |
| Net @ 1600 RPM | 510 lb-ft (692 N-m) |
| Net torque rise: | |
| Maximum power range | 29% |

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 | 4.012/3.804 |
| 2nd | 2.174/2.061 |
| 3rd | 1.088/1.031 |
| 4th | 0.619/ — |
| Gear ratios – 5-speed | Forward/Reverse |
| 1st | 4.320/4.097 |
| 2nd | 2.191/2.078 |
| 3rd | 1.418/0.895 |
| 4th | 0.944/ — |
| 5th | 0.611/ — |
| Torque converter: | |
| Stall ratio – 4-speed | 2.664:1 |
| Stall ratio – 5-speed | 2.376:1 |
| Differential: | Limited slip w/ 34% of available axle torque to wheel w/ traction |
| Rear axle oscillation | 24° total |
| Front and rear axles: | |
| Differential ratio | 3.18 |
| Planetary ratio | 6.40 |
| Final axle ratio | 20.34 |
| Heavy-duty 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 | 480 in ² (0.31 m ²) |
| Rear hub – each | 480 in ² (0.31 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) 4.5 (7.3) |
| 2nd | 8.4 (13.5) 8.8 (14.2) |
| 3rd | 14.9 (23.9) 15.6 (25.0) |
| 4th | 24.0 (38.6) — |
| Travel speeds – 5-speed transmission: | |
| | Forward Reverse |
| | mph (kph) mph (kph) |
| 1st | 4.0 (6.5) 4.3 (6.9) |
| 2nd | 8.3 (13.3) 8.7 (14.0) |
| 3rd | 12.7 (20.5) 20.1 (32.4) |
| 4th | 19.1 (30.7) — |
| 5th | 28.0 (45.0) — |

NOTE: Travel speeds at full engine throttle w/ 20.5-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, suspension seat w/ headrest; Foot throttle; Single lever (joystick) loader control w/ auxiliary function and fully adjustable wrist rest, 2 cup holders; Interior rear view mirror; 3 inch (76 mm) retractable seat belt; Integrated 4-corner strobe; Multiple storage trays; Single brake pedal; F/N/R shuttle switch; Left and Right external side 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; Radio ready – Includes antenna, speakers, wiring, radio fuse, 20A converter, 12-volt auxiliary power outlet, and USB outlet.

Displays/Gauges:

Digital:

Transmission 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; Engine block 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/ 2.75 yd³ (2.1 m³) Case pin on bucket w/ edge; 20.5-R25 L3 Radial tires; ROPS cab w/ heater and A/C; Std. battery; Heavy counterweight – 1,950 lb (885 kg); Front and rear fenders; Lights; 165 lb (75 kg) operator:
28,159 lb (12 773 kg)

XT

Unit equipped w/ 2.5 yd³ (1.9 m³) CNH w/ edge and JRB coupler; 20.5-R25 L3 Radial tires; ROPS cab w/ heater and A/C; Std. battery; Heavy counterweight – 1,950 lb (885 kg); Front and rear fenders; Lights; 165 lb (75 kg) operator:
29,076 lb (13 188 kg)

XR

Unit equipped w/ 2.5 yd³ (1.9 m³) Case pin on bucket w/ edge; 20.5-R25 L3 Radial tires; ROPS cab w/ heater and A/C; Std. battery; Heavy counterweight – 1,950 lb (885 kg); Front and rear fenders; Lights; 165 lb (75 kg) operator:
28,483 lb (12 920 kg)

HYDRAULICS

Pump – steering/implement:

Closed center pressure/flow compensated

Variable displacement – load-sensing:

45.2 gpm @ 2000 RPM
(171 L/min @ 2000 RPM)

Loader control valve:

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

Loader auxiliary steering:

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

High pressure standby:

Implement 3,625 psi (25 000 kPa)
Steering 3,500 psi (24 132 kPa)

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 65.0 gal (246.0 L)

DEF tank – Diesel Exhaust Fluid:

Usable capacity 9.8 gal (37.1 L)
Total 15.6 gal (58.9 L)

Hydraulic system:

Reservoir 24.0 gal (90.8 L)
Total 39.0 gal (147.6 L)

Transmission:

Service w/ filter 29.2 qt (27.6 L)

Front and rear axle:

Front axle 23.2 qt (22.0 L)
Rear axle 23.2 qt (22.0 L)

Front and rear axle – optional:

Front axle 23.2 qt (22.0 L)
Rear axle 23.2 qt (22.0 L)

Engine oil w/ filter 14 qt (13.2 L)

Cooling system 28.4 qt (26.8 L)

OTHER SPECIFICATIONS

Lift cylinder:

Bore diameter 4.7 in (120.6 mm)
Rod diameter 2.5 in (63.5 mm)
Stroke 31.0 in (787.6 mm)

Dump cylinder – Z-Bar and XR:

Bore diameter 5.0 in (127 mm)
Rod diameter 3.0 in (76.2 mm)
Stroke 24.4 in (619.7 mm)

Dump cylinder – XT:

Bore diameter 4.5 in (114 mm)
Rod diameter 2.5 in (63.5 mm)
Stroke 32.6 in (819.9 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:

Z-Bar 6.3 sec
XR 6.3 sec
XT 6.5 sec

Dump w/ rated bucket load:

Z-Bar 1.2 sec
XR 1.2 sec
XT 2.4 sec

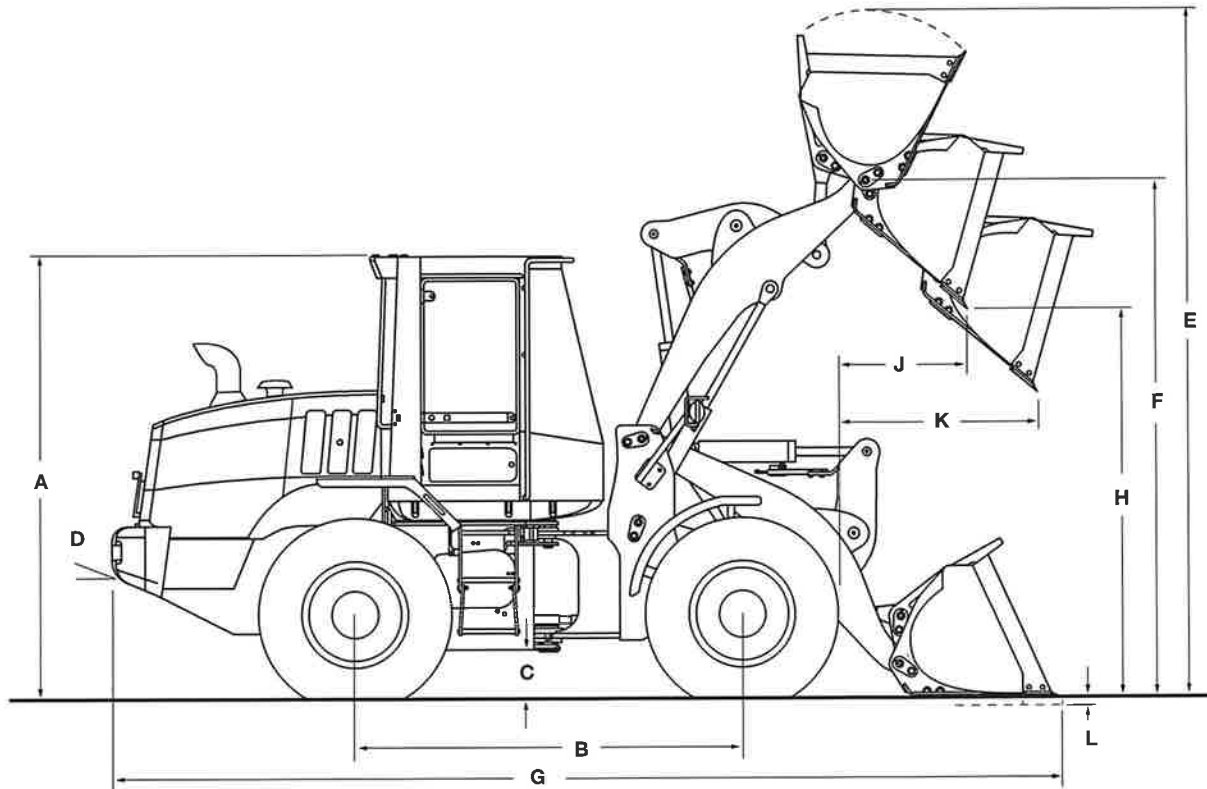
Float down:

Z-Bar 4.8 sec
XR 4.8 sec
XT 4.2 sec

Sound level in Cab (LpA) 68 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 | 133.2 in (3 384 mm) |
| Height to drawbar | 42.1 in (1 070 mm) |
| B. Wheelbase | 114.2 in (2 900 mm) |
| C. Ground clearance | 15.3 in (389 mm) |
| D. Angle of departure | 25° |
| Width: | |
| Overall* without bucket | 97.6 in (2 478 mm) |
| Tread width | 76.8 in (1 950 mm) |
| Turning radius* – outside | 205.6 in (5 223 mm) |
| Turning angle: | |
| From center | 40° |
| Total angle | 80° |
| Rear axle oscillation – total | 24° |

NOTE: *Dimensions taken with 20.5-R25 (L3 Radial) tires. For transport dimensions, refer to specific bucket width and overall length on pages 4 through 9.

WEIGHT ADJUSTMENTS

| Select Options | Weight Adjustment | Tipping Load Adjustment Straight: Deflected* | Tipping Load Adjustment 40° Turn: Deflected* |
|---|-----------------------|---|---|
| 20.5 x 25 12 ply L2 Bias tires | -592 lb (-269 kg) | -618 lb (-280 kg) | -1,179 lb (-535 kg) |
| 20.5 x 25 12 ply L3 Bias tires | -20 lb (-9 kg) | +240 lb (+109 kg) | +363 lb (+165 kg) |
| 20.5-R25 L2 Radial tires | -256 lb (-116 kg) | -259 lb (-117 kg) | -189 lb (-86 kg) |
| 20.5-R25 Snow Radial Tires | -132 lb (-60 kg) | -175 lb (-79 kg) | -111 lb (-50 kg) |
| 20.5-R25 Solid Tires Req. Diff Axles, Ltd Speed Controler | +4,782 lb (+2 169 kg) | +3,140 lb (+1 424 kg) | +3,327 lb (+1 509 kg) |

NOTE: Unit equipped with Z-Bar loader arms, 2.5 yd³ (1.9 m³) general purpose pin on bucket with bolt-on edge, 20.5-R25 (L3 Radial) tires, ROPS cab with heater and air conditioner, heavy counterweight, standard batteries, front and rear fenders, full fuel and 165 lb (79 kg) operator. Adjust select options from rated weight.
*Tipping loads: ISO 14397-1 Deflected Tires.

PERFORMANCE SPECS

| 621G Z-Bar* | | 3.0 yd³ (2.3 m³) Bucket with Bolt-on Edge - Pin On | 2.5 yd³ (1.9 m³) Bucket with Bolt-on Edge - Pin On | 2.4 yd³ (1.8 m³) Bucket with Teeth Only - Pin On | 4.5 yd³ (3.4 m³) Bucket with Bolt-on Edge - Pin On |
|--|-------------|---|---|---|---|
| Operating weight | | 28,254 lb (12 816 kg) | 28,093 lb (12 743 kg) | 28,013 lb (12 707 kg) | 28,672 lb (13 005 kg) |
| E. Operating height – fully raised with spillguard | | 198.6 in (5 044 mm) | 194.5 in (4 941 mm) | 194.5 in (4 941 mm) | 212.9 in (5 408 mm) |
| F. Hinge pin height – fully raised | | 150.9 in (3 833 mm) | 150.9 in (3 833 mm) | 150.9 in (3 834 mm) | 150.9 in (3 833 mm) |
| G. Overall length – bucket level on ground | | 290.6 in (7 380 mm) | 284.9 in (7 237 mm) | 290.6 in (7 382 mm) | 302.9 in (7 694 mm) |
| Dump angle – fully raised | | 51° | 51° | 51° | 50° |
| H. Dump height – fully raised, 45° dump | | 110.4 in (2 804 mm) | 114.1 in (2 899 mm) | 110.4 in (2 805 mm) | 102.2 in (2 596 mm) |
| J. Bucket reach – fully raised, 45° dump | | 39.8 in (1 010 mm) | 36.0 in (916 mm) | 40.2 in (1 021 mm) | 47.9 in (1 216 mm) |
| K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump | | 59.6 in (1 513 mm) | 57.7 in (1 466 mm) | 60.0 in (1 525 mm) | 62.9 in (1 598 mm) |
| L. Dig depth | | 3.3 in (84 mm) | 2.8 in (72 mm) | 3.0 in (76 mm) | 4.4 in (111 mm) |
| Operating load – ISO Rigid Tires | | 10,299 lb (4 671 kg) | 10,569 lb (4 794 kg) | 10,703 lb (4 855 kg) | 9,637 lb (4 371 kg) |
| Operating load – ISO Deflected Tires | | 9,375 lb (4 252 kg) | 9,633 lb (4 369 kg) | 9,756 lb (4 425 kg) | 8,737 lb (3 963 kg) |
| Maximum material density – ISO Rigid Tires | | 3,433 lb/yd ³ (2 037 kg/m ³) | 4,228 lb/yd ³ (2 509 kg/m ³) | 4,460 lb/yd ³ (2 646 kg/m ³) | 2,142 lb/yd ³ (1 271 kg/m ³) |
| Maximum material density – ISO Deflected Tires | | 3,125 lb/yd ³ (1 854 kg/m ³) | 3,853 lb/yd ³ (2 286 kg/m ³) | 4,065 lb/yd ³ (2 412 kg/m ³) | 1,942 lb/yd ³ (1 152 kg/m ³) |
| Tipping load – ISO Rigid Tires: | | | | | |
| | Straight | 23,725 lb (10 761 kg) | 24,318 lb (11 030 kg) | 24,612 lb (11 164 kg) | 22,275 lb (10 104 kg) |
| | 40° turn | 20,597 lb (9 343 kg) | 21,138 lb (9 588 kg) | 21,407 lb (9 710 kg) | 19,274 lb (8 742 kg) |
| Tipping load – ISO Deflected Tires: | | | | | |
| | Straight | 22,307 lb (10 118 kg) | 22,881 lb (10 378 kg) | 23,155 lb (10 503 kg) | 20,896 lb (9 478 kg) |
| | 40° turn | 18,749 lb (8 504 kg) | 19,266 lb (8 739 kg) | 19,511 lb (8 850 kg) | 17,474 lb (7 926 kg) |
| Lift capacity: | | | | | |
| | Full height | 16,266 lb (7 378 kg) | 16,442 lb (7 458 kg) | 16,530 lb (7 498 kg) | 15,794 lb (7 164 kg) |
| | Ground | 22,395 lb (10 158 kg) | 25,278 lb (11 466 kg) | 26,675 lb (12 100 kg) | 21,930 lb (9 947 kg) |
| Breakout force with tilt cylinder | | 24,031 lb (10 900 kg) | 27,280 lb (12 374 kg) | 29,182 lb (13 237 kg) | 18,285 lb (8 294 kg) |
| Loader clearance circle with bucket | | 455.1 in (11 560 mm) | 451.9 in (11 478 mm) | 454.8 in (11 552 mm) | 462.3 in (11 743 mm) |

| 621G XR | | 3.0 yd³ (2.3 m³) Bucket with Bolt-on Edge - Pin On | 2.5 yd³ (1.9 m³) Bucket with Bolt-on Edge - Pin On | 2.4 yd³ (1.8 m³) Bucket with Teeth Only - Pin On | 4.5 yd³ (3.4 m³) Bucket with Bolt-on Edge - Pin On |
|--|-------------|---|---|---|---|
| Operating weight | | 28,644 lb (12 993 kg) | 28,483 lb (12 920 kg) | 28,403 lb (12 883 kg) | 29,062 lb (13 182 kg) |
| E. Operating height – fully raised with spillguard | | 215.3 in (5 469 mm) | 211.2 in (5 365 mm) | 211.2 in (5 365 mm) | 229.6 in (5 833 mm) |
| F. Hinge pin height – fully raised | | 167.6 in (4 258 mm) | 167.6 in (4 258 mm) | 167.6 in (4 258 mm) | 167.6 in (4 257 mm) |
| G. Overall length – bucket level on ground | | 306.7 in (7 789 mm) | 301.1 in (7 648 mm) | 306.8 in (7 792 mm) | 318.8 in (8 099 mm) |
| Dump angle – fully raised | | 45° | 45° | 45° | 45° |
| H. Dump height – fully raised, 45° dump | | 127.1 in (3 229 mm) | 130.8 in (3 323 mm) | 127.1 in (3 229 mm) | 119.2 in (3 027 mm) |
| J. Bucket reach – fully raised, 45° dump | | 39.8 in (1 011 mm) | 36.1 in (916 mm) | 40.2 in (1 022 mm) | 48.2 in (1 225 mm) |
| K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump | | 73.7 in (1 871 mm) | 71.6 in (1 817 mm) | 74.1 in (1 883 mm) | 77.7 in (1 973 mm) |
| L. Dig depth | | 3.5 in (88 mm) | 3.0 in (76 mm) | 3.2 in (81 mm) | 4.5 in (115 mm) |
| Operating load – ISO Rigid Tires | | 8,617 lb (3 909 kg) | 8,832 lb (4 006 kg) | 8,942 lb (4 056 kg) | 8,085 lb (3 667 kg) |
| Operating load – ISO Deflected Tires | | 7,938 lb (3 601 kg) | 8,146 lb (3 695 kg) | 8,248 lb (3 741 kg) | 7,420 lb (3 366 kg) |
| Maximum material density – ISO Rigid Tires | | 2,872 lb/yd ³ (1 704 kg/m ³) | 3,533 lb/yd ³ (2 096 kg/m ³) | 3,726 lb/yd ³ (2 211 kg/m ³) | 1,797 lb/yd ³ (1 066 kg/m ³) |
| Maximum material density – ISO Deflected Tires | | 2,646 lb/yd ³ (1 570 kg/m ³) | 3,259 lb/yd ³ (1 933 kg/m ³) | 3,437 lb/yd ³ (2 039 kg/m ³) | 1,649 lb/yd ³ (978 kg/m ³) |
| Tipping load – ISO Rigid Tires: | | | | | |
| | Straight | 19,948 lb (9 048 kg) | 20,416 lb (9 261 kg) | 20,653 lb (9 368 kg) | 18,791 lb (8 523 kg) |
| | 40° turn | 17,234 lb (7 817 kg) | 17,665 lb (8 013 kg) | 17,883 lb (8 112 kg) | 16,170 lb (7 335 kg) |
| Tipping load – ISO Deflected Tires: | | | | | |
| | Straight | 18,927 lb (8 585 kg) | 19,385 lb (8 793 kg) | 19,609 lb (8 895 kg) | 17,792 lb (8 070 kg) |
| | 40° turn | 15,876 lb (7 201 kg) | 16,293 lb (7 390 kg) | 16,496 lb (7 482 kg) | 14,840 lb (6 731 kg) |
| Lift capacity: | | | | | |
| | Full height | 15,791 lb (7 162 kg) | 15,959 lb (7 239 kg) | 16,044 lb (7 277 kg) | 15,308 lb (6 944 kg) |
| | Ground | 25,246 lb (11 451 kg) | 25,759 lb (11 684 kg) | 25,976 lb (11 783 kg) | 24,802 lb (11 250 kg) |
| Breakout force with tilt cylinder | | 24,720 lb (11 213 kg) | 28,096 lb (12 744 kg) | 30,037 lb (13 625 kg) | 18,751 lb (8 505 kg) |
| Loader clearance circle with bucket | | 470.7 in (11 956 mm) | 467.0 in (11 862 mm) | 470.4 in (11 948 mm) | 478.1 in (12 144 mm) |

| 621G | | Z-Bar/XR | Z-Bar/XR | Z-Bar/XR | Z-Bar/XR |
|---|----------------|---|---|---|---|
| Maximum rollback: | | | | | |
| | Ground | 41°/40° | 40°/40° | 40°/40° | 42°/42° |
| | Carry position | 45°/45° | 45°/45° | 45°/45° | 45°/47° |
| | @ Full height | 55°/59° | 55°/59° | 55°/59° | 55°/59° |
| Maximum grading angle with bucket – back dragging | | 59°/59° | 58°/58° | 59°/59° | 64°/63° |
| SAE bucket capacity – struck | | | | | |
| | Heaped | 2.56 yd ³ (1.96 m ³) | 2.15 yd ³ (1.64 m ³) | 2.05 yd ³ (1.57 m ³) | 3.71 yd ³ (2.84 m ³) |
| | | 3.00 yd ³ (2.29 m ³) | 2.50 yd ³ (1.91 m ³) | 2.40 yd ³ (1.83 m ³) | 4.50 yd ³ (3.44 m ³) |
| Bucket width – outside | | 102.4 in (2 602 mm) | 102.4 in (2 602 mm) | 102.1 in (2 593 mm) | 102.4 in (2 602 mm) |
| Bucket weight | | 1,957 lb (888 kg) | 1,796 lb (814 kg) | 1,716 lb (778 kg) | 2,374 lb (1 077 kg) |

PERFORMANCE SPECS

| 621G Z-Bar* | | 3.0 yd³ (2.29 m³) Bucket with Bolt-on Edge - JRB Coupler | 2.8 yd³ (2.14 m³) Bucket with Teeth - JRB Coupler | 2.5 yd³ (1.91 m³) Bucket with Bolt-on Edge - JRB Coupler | 2.4 yd³ (1.8 m³) Bucket with Teeth - JRB Coupler |
|--|--|---|--|---|---|
| Operating weight | | 29,119 lb (13 208 kg) | 29,039 lb (13 172 kg) | 28,930 lb (13 122 kg) | 28,852 lb (13 087 kg) |
| E. | Operating height – fully raised with spillguard | 205.1 in (5 209 mm) | 205.1 in (5 209 mm) | 200.4 in (5 090 mm) | 200.4 in (5 090 mm) |
| F. | Hinge pin height – fully raised | 150.9 in (3 832 mm) | 150.9 in (3 832 mm) | 150.9 in (3 832 mm) | 150.9 in (3 832 mm) |
| G. | Overall length – bucket level on ground | 299.2 in (7 601 mm) | 305.0 in (7 746 mm) | 293.7 in (7 460 mm) | 299.4 in (7 604 mm) |
| Dump angle – fully raised | | 51° | 51° | 51° | 51° |
| H. | Dump height – fully raised, 45° dump | 104.9 in (2 664 mm) | 101.2 in (2 570 mm) | 108.5 in (2 755 mm) | 104.8 in (2 661 mm) |
| J. | Bucket reach – fully raised, 45° dump | 47.0 in (1 193 mm) | 51.1 in (1 299 mm) | 42.7 in (1 085 mm) | 46.9 in (1 191 mm) |
| K. | Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump | 63.7 in (1 618 mm) | 65.5 in (1 664 mm) | 61.5 in (1 562 mm) | 63.6 in (1 614 mm) |
| L. | Dig depth | 2.9 in (73 mm) | 3.0 in (77 mm) | 2.9 in (73 mm) | 3.0 in (77 mm) |
| Operating load – ISO Rigid Tires | | 9,271 lb (4 205 kg) | 9,398 lb (4 263 kg) | 9,500 lb (4 309 kg) | 9,619 lb (4 363 kg) |
| Operating load – ISO Deflected Tires | | 8,407 lb (3 813 kg) | 8,522 lb (3 866 kg) | 8,631 lb (3 915 kg) | 8,739 lb (3 964 kg) |
| Maximum material density – ISO Rigid Tires | | 3,090 lb/yd ³ (1 834 kg/m ³) | 3,356 lb/yd ³ (1 992 kg/m ³) | 3,800 lb/yd ³ (2 255 kg/m ³) | 4,008 lb/yd ³ (2 378 kg/m ³) |
| Maximum material density – ISO Deflected Tires | | 2,802 lb/yd ³ (1 663 kg/m ³) | 3,044 lb/yd ³ (1 806 kg/m ³) | 3,452 lb/yd ³ (2 048 kg/m ³) | 3,641 lb/yd ³ (2 161 kg/m ³) |
| Tipping load – ISO Rigid Tires: | | | | | |
| | Straight | 21,483 lb (9 744 kg) | 21,760 lb (9 870 kg) | 21,978 lb (9 969 kg) | 22,238 lb (10 087 kg) |
| | 40° turn | 18,543 lb (8 411 kg) | 18,796 lb (8 526 kg) | 18,999 lb (8 618 kg) | 19,238 lb (8 726 kg) |
| Tipping load – ISO Deflected Tires: | | | | | |
| | Straight | 20,161 lb (9 145 kg) | 20,420 lb (9 262 kg) | 20,649 lb (9 366 kg) | 20,892 lb (9 476 kg) |
| | 40° turn | 16,813 lb (7 626 kg) | 17,045 lb (7 731 kg) | 17,261 lb (7 830 kg) | 17,478 lb (7 928 kg) |
| Lift capacity: | | | | | |
| | Full height | 15,397 lb (6 984 kg) | 15,452 lb (7 009 kg) | 15,564 lb (7 060 kg) | 15,649 lb (7 098 kg) |
| | Ground | 20,923 lb (9 491 kg) | 16,177 lb (7 338 kg) | 16,975 lb (7 700 kg) | 17,704 lb (8 030 kg) |
| Breakout force with tilt cylinder | | 18,868 lb (8 558 kg) | 20,530 lb (9 312 kg) | 21,896 lb (9 932 kg) | 23,163 lb (10 506 kg) |
| Loader clearance circle with bucket | | 460.2 in (11 689 mm) | 463.4 in (11 771 mm) | 456.9 in (11 605 mm) | 460.0 in (11 683 mm) |

| 621G XR | | 3.0 yd³ (2.29 m³) Bucket with Bolt-on Edge - JRB Coupler | 2.8 yd³ (2.14 m³) Bucket with Teeth - JRB Coupler | 2.5 yd³ (1.91 m³) Bucket with Bolt-on Edge - JRB Coupler | 2.4 yd³ (1.8 m³) Bucket with Teeth - JRB Coupler |
|--|--|---|--|---|---|
| Operating weight | | 29,508 lb (13 385 kg) | 29,428 lb (13 348 kg) | 29,319 lb (13 299 kg) | 29,241 lb (13 264 kg) |
| E. | Operating height – fully raised with spillguard | 221.8 in (5 634 mm) | 221.8 in (5 634 mm) | 217.1 in (5 514 mm) | 217.1 in (5 514 mm) |
| F. | Hinge pin height – fully raised | 167.6 in (4 257 mm) | 167.6 in (4 257 mm) | 167.6 in (4 257 mm) | 167.6 in (4 257 mm) |
| G. | Overall length – bucket level on ground | 315.4 in (8 011 mm) | 321.1 in (8 156 mm) | 309.8 in (7 870 mm) | 315.5 in (8 014 mm) |
| Dump angle – fully raised | | 45° | 45° | 45° | 45° |
| H. | Dump height – fully raised, 45° dump | 121.6 in (3 088 mm) | 117.9 in (2 995 mm) | 125.2 in (3 179 mm) | 121.5 in (3 086 mm) |
| J. | Bucket reach – fully raised, 45° dump | 47.0 in (1 194 mm) | 51.2 in (1 300 mm) | 42.8 in (1 086 mm) | 46.9 in (1 192 mm) |
| K. | Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump | 78.2 in (1 987 mm) | 80.4 in (2 041 mm) | 75.7 in (1 924 mm) | 78.1 in (1 983 mm) |
| L. | Dig depth | 3.1 in (78 mm) | 3.2 in (82 mm) | 3.1 in (78 mm) | 3.2 in (81 mm) |
| Operating load – ISO Rigid Tires | | 7,764 lb (3 522 kg) | 7,868 lb (3 569 kg) | 7,953 lb (3 608 kg) | 8,052 lb (3 652 kg) |
| Operating load – ISO Deflected Tires | | 7,120 lb (3 230 kg) | 7,218 lb (3 274 kg) | 7,308 lb (3 315 kg) | 7,400 lb (3 357 kg) |
| Maximum material density – ISO Rigid Tires | | 2,588 lb/yd ³ (1 536 kg/m ³) | 2,810 lb/yd ³ (1 667 kg/m ³) | 3,181 lb/yd ³ (1 888 kg/m ³) | 3,355 lb/yd ³ (1 991 kg/m ³) |
| Maximum material density – ISO Deflected Tires | | 2,373 lb/yd ³ (1 408 kg/m ³) | 2,578 lb/yd ³ (1 530 kg/m ³) | 2,923 lb/yd ³ (1 735 kg/m ³) | 3,083 lb/yd ³ (1 830 kg/m ³) |
| Tipping load – ISO Rigid Tires: | | | | | |
| | Straight | 18,102 lb (8 211 kg) | 18,329 lb (8 314 kg) | 18,509 lb (8 396 kg) | 18,723 lb (8 493 kg) |
| | 40° turn | 15,527 lb (7 043 kg) | 15,736 lb (7 138 kg) | 15,907 lb (7 215 kg) | 16,104 lb (7 305 kg) |
| Tipping load – ISO Deflected Tires: | | | | | |
| | Straight | 17,137 lb (7 773 kg) | 17,354 lb (7 872 kg) | 17,542 lb (7 957 kg) | 17,745 lb (8 049 kg) |
| | 40° turn | 14,241 lb (6 459 kg) | 14,436 lb (6 548 kg) | 14,616 lb (6 630 kg) | 14,800 lb (6 713 kg) |
| Lift capacity: | | | | | |
| | Full height | 14,924 lb (6 769 kg) | 14,995 lb (6 802 kg) | 15,104 lb (6 851 kg) | 15,186 lb (6 888 kg) |
| | Ground | 24,358 lb (11 049 kg) | 23,528 lb (10 672 kg) | 23,788 lb (10 790 kg) | 23,995 lb (10 884 kg) |
| Breakout force with tilt cylinder | | 19,474 lb (8 833 kg) | 21,155 lb (9 596 kg) | 22,571 lb (10 238 kg) | 23,864 lb (10 824 kg) |
| Loader clearance circle with bucket | | 476.2 in (12 095 mm) | 479.8 in (12 187 mm) | 472.4 in (12 000 mm) | 476.0 in (12 089 mm) |

| 621G | | Z-Bar/XR | Z-Bar/XR | Z-Bar/XR | Z-Bar/XR |
|---|----------------|---|---|---|---|
| Maximum rollback: | | | | | |
| | Ground | 40°/40° | 40°/40° | 40°/40° | 40°/40° |
| | Carry position | 45°/46° | 45°/46° | 45°/46° | 45°/46° |
| | @ Full height | 55°/59° | 55°/59° | 55°/59° | 55°/59° |
| Maximum grading angle with bucket – back dragging | | 62°/61° | 64°/62° | 60°/60° | 62°/61° |
| SAE bucket capacity – struck | | 2.60 yd ³ (1.99 m ³) | 2.40 yd ³ (1.83 m ³) | 2.15 yd ³ (1.64 m ³) | 2.05 yd ³ (1.57 m ³) |
| Heaped | | 3.00 yd ³ (2.29 m ³) | 2.80 yd ³ (2.14 m ³) | 2.50 yd ³ (1.91 m ³) | 2.40 yd ³ (1.83 m ³) |
| Bucket width – outside | | 102.4 in (2 602 mm) | 102.1 in (2 593 mm) | 102.4 in (2 602 mm) | 102.1 in (2 593 mm) |
| Bucket weight | | 2,821 lb (1 280 kg) | 2,741 lb (1 243 kg) | 2,632 lb (1 194 kg) | 2,554 lb (1 158 kg) |

PERFORMANCE SPECS

| 621G Z-Bar* | | 3.0 yd³ (2.29 m³) Bucket with Bolt-on Edge - ACS Coupler | 2.8 yd³ (2.14 m³) Bucket with Teeth - ACS Coupler | 2.5 yd³ (1.91 m³) Bucket with Bolt-on Edge - ACS Coupler | 2.4 yd³ (1.8 m³) Bucket with Teeth - ACS Coupler |
|---|--|---|--|---|---|
| Operating weight | | 29,322 lb (13 300 kg) | 29,242 lb (13 264 kg) | 29,109 lb (13 203 kg) | 29,028 lb (13 167 kg) |
| E. | Operating height – fully raised with spillguard | 203.7 in (5 173 mm) | 203.7 in (5 173 mm) | 199.2 in (5 059 mm) | 199.2 in (5 059 mm) |
| F. | Hinge pin height – fully raised | 150.9 in (3 832 mm) | 150.9 in (3 832 mm) | 150.9 in (3 832 mm) | 150.9 in (3 832 mm) |
| G. | Overall length – bucket level on ground | 297.3 in (7 551 mm) | 303.0 in (7 696 mm) | 292.0 in (7 418 mm) | 297.7 in (7 562 mm) |
| Dump angle – fully raised | | 51° | 51° | 51° | 51° |
| H. | Dump height – fully raised, 45° dump | 106.1 in (2 696 mm) | 102.4 in (2 602 mm) | 109.5 in (2 782 mm) | 105.8 in (2 688 mm) |
| J. | Bucket reach – fully raised, 45° dump | 45.5 in (1 155 mm) | 49.6 in (1 260 mm) | 41.5 in (1 053 mm) | 45.6 in (1 158 mm) |
| K. | Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump | 62.9 in (1 598 mm) | 64.8 in (1 646 mm) | 60.8 in (1 545 mm) | 62.9 in (1 597 mm) |
| L. | Dig depth | 2.9 in (74 mm) | 3.1 in (78 mm) | 2.9 in (73 mm) | 3.1 in (78 mm) |
| Operating load – ISO Rigid Tires | | 9,329 lb (4 232 kg) | 9,456 lb (4 289 kg) | 9,542 lb (4 328 kg) | 9,662 lb (4 383 kg) |
| Operating load – ISO Deflected Tires | | 8,450 lb (3 833 kg) | 8,566 lb (3 886 kg) | 8,661 lb (3 928 kg) | 8,771 lb (3 978 kg) |
| Maximum material density – ISO Rigid Tires | | 3,110 lb/yd ³ (1 845 kg/m ³) | 3,377 lb/yd ³ (2 004 kg/m ³) | 3,817 lb/yd ³ (2 265 kg/m ³) | 4,026 lb/yd ³ (2 389 kg/m ³) |
| Maximum material density – ISO Deflected Tires | | 2,817 lb/yd ³ (1 671 kg/m ³) | 3,059 lb/yd ³ (1 815 kg/m ³) | 3,464 lb/yd ³ (2 056 kg/m ³) | 3,655 lb/yd ³ (2 168 kg/m ³) |
| Tipping load – ISO Rigid Tires: | | | | | |
| | Straight | 21,642 lb (9 817 kg) | 21,921 lb (9 943 kg) | 22,099 lb (10 024 kg) | 22,361 lb (10 143 kg) |
| | 40° turn | 18,658 lb (8 463 kg) | 18,913 lb (8 579 kg) | 19,084 lb (8 656 kg) | 19,324 lb (8 765 kg) |
| Tipping load – ISO Deflected Tires: | | | | | |
| | Straight | 20,296 lb (9 206 kg) | 20,558 lb (9 325 kg) | 20,750 lb (9 412 kg) | 20,996 lb (9 524 kg) |
| | 40° turn | 16,899 lb (7 665 kg) | 17,133 lb (7 771 kg) | 17,321 lb (7 857 kg) | 17,542 lb (7 957 kg) |
| Lift capacity: | | | | | |
| | Full height | 15,175 lb (6 883 kg) | 15,263 lb (6 923 kg) | 15,396 lb (6 984 kg) | 15,483 lb (7 023 kg) |
| | Ground | 16,546 lb (7 505 kg) | 17,354 lb (7 871 kg) | 17,992 lb (8 161 kg) | 18,795 lb (8 525 kg) |
| Breakout force with tilt cylinder | | 20,212 lb (9 168 kg) | 21,315 lb (9 668 kg) | 22,635 lb (10 267 kg) | 24,003 lb (10 887 kg) |
| Loader clearance circle with bucket | | 459.0 in (11 659 mm) | 462.2 in (11 740 mm) | 455.9 in (11 580 mm) | 459.0 in (11 658 mm) |
| 621G XR | | | | | |
| | | 3.0 yd³ (2.29 m³) Bucket with Bolt-on Edge - ACS Coupler | 2.8 yd³ (2.14 m³) Bucket with Teeth - ACS Coupler | 2.5 yd³ (1.91 m³) Bucket with Bolt-on Edge - ACS Coupler | 2.4 yd³ (1.8 m³) Bucket with Teeth - ACS Coupler |
| Operating weight | | 29,711 lb (13 477 kg) | 29,631 lb (13 440 kg) | 29,498 lb (13 380 kg) | 29,418 lb (13 344 kg) |
| E. | Operating height – fully raised with spillguard | 220.4 in (5 597 mm) | 220.4 in (5 597 mm) | 215.9 in (5 484 mm) | 215.9 in (5 484 mm) |
| F. | Hinge pin height – fully raised | 167.6 in (4 256 mm) | 167.6 in (4 256 mm) | 167.6 in (4 257 mm) | 167.6 in (4 257 mm) |
| G. | Overall length – bucket level on ground | 313.4 in (7 961 mm) | 319.1 in (8 106 mm) | 308.2 in (7 828 mm) | 313.9 in (7 972 mm) |
| Dump angle – fully raised | | 45° | 45° | 45° | 45° |
| H. | Dump height – fully raised, 45° dump | 122.9 in (3 121 mm) | 119.2 in (3 027 mm) | 126.2 in (3 206 mm) | 122.5 in (3 113 mm) |
| J. | Bucket reach – fully raised, 45° dump | 45.5 in (1 156 mm) | 49.7 in (1 261 mm) | 41.5 in (1 054 mm) | 45.6 in (1 159 mm) |
| K. | Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump | 77.3 in (1 965 mm) | 79.6 in (2 021 mm) | 75.0 in (1 904 mm) | 77.3 in (1 964 mm) |
| L. | Dig depth | 3.1 in (78 mm) | 3.2 in (82 mm) | 3.1 in (78 mm) | 3.2 in (82 mm) |
| Operating load – ISO Rigid Tires | | 7,779 lb (3 528 kg) | 7,883 lb (3 576 kg) | 7,960 lb (3 611 kg) | 8,059 lb (3 656 kg) |
| Operating load – ISO Deflected Tires | | 7,127 lb (3 233 kg) | 7,225 lb (3 277 kg) | 7,307 lb (3 314 kg) | 7,400 lb (3 357 kg) |
| Maximum material density – ISO Rigid Tires | | 2,593 lb/yd ³ (1 539 kg/m ³) | 2,816 lb/yd ³ (1 671 kg/m ³) | 3,184 lb/yd ³ (1 889 kg/m ³) | 3,358 lb/yd ³ (1 993 kg/m ³) |
| Maximum material density – ISO Deflected Tires | | 2,376 lb/yd ³ (1 410 kg/m ³) | 2,580 lb/yd ³ (1 531 kg/m ³) | 2,923 lb/yd ³ (1 734 kg/m ³) | 3,083 lb/yd ³ (1 830 kg/m ³) |
| Tipping load – ISO Rigid Tires: | | | | | |
| | Straight | 18,165 lb (8 240 kg) | 18,393 lb (8 343 kg) | 18,549 lb (8 414 kg) | 18,765 lb (8 512 kg) |
| | 40° turn | 15,558 lb (7 057 kg) | 15,767 lb (7 152 kg) | 15,920 lb (7 221 kg) | 16,118 lb (7 311 kg) |
| Tipping load – ISO Deflected Tires: | | | | | |
| | Straight | 17,187 lb (7 796 kg) | 17,404 lb (7 894 kg) | 17,570 lb (7 970 kg) | 17,775 lb (8 063 kg) |
| | 40° turn | 14,254 lb (6 466 kg) | 14,450 lb (6 554 kg) | 14,614 lb (6 629 kg) | 14,800 lb (6 713 kg) |
| Lift capacity: | | | | | |
| | Full height | 14,715 lb (6 675 kg) | 14,799 lb (6 713 kg) | 14,931 lb (6 772 kg) | 15,015 lb (6 811 kg) |
| | Ground | 23,380 lb (10 605 kg) | 23,606 lb (10 707 kg) | 23,840 lb (10 814 kg) | 24,049 lb (10 908 kg) |
| Breakout force with tilt cylinder | | 20,843 lb (9 454 kg) | 21,967 lb (9 964 kg) | 23,336 lb (10 585 kg) | 24,730 lb (11 217 kg) |
| Loader clearance circle with bucket | | 474.8 in (12 061 mm) | 478.4 in (12 152 mm) | 471.4 in (11 973 mm) | 474.9 in (12 061 mm) |
| 621G | | | | | |
| | | Z-Bar/XR | Z-Bar/XR | Z-Bar/XR | Z-Bar/XR |
| Maximum rollback: | | | | | |
| | Ground | 40°/40° | 40°/40° | 40°/40° | 40°/40° |
| | Carry position | 45°/46° | 45°/46° | 45°/46° | 45°/46° |
| | @ Full height | 55°/59° | 55°/59° | 55°/59° | 55°/59° |
| Maximum grading angle with bucket – back dragging | | 61°/60° | 63°/61° | 60°/60° | 61°/60° |
| SAE bucket capacity – struck | | 2.60 yd ³ (1.99 m ³) | 2.40 yd ³ (1.83 m ³) | 2.15 yd ³ (1.64 m ³) | 2.05 yd ³ (1.57 m ³) |
| Heaped | | 3.00 yd ³ (2.29 m ³) | 2.80 yd ³ (2.14 m ³) | 2.50 yd ³ (1.91 m ³) | 2.40 yd ³ (1.83 m ³) |
| Bucket width – outside | | 102.4 in (2 602 mm) | 102.1 in (2 593 mm) | 102.4 in (2 602 mm) | 102.1 in (2 593 mm) |
| Bucket weight | | 3,024 lb (1 372 kg) | 2,944 lb (1 335 kg) | 2,811 lb (1 275 kg) | 2,731 lb (1 239 kg) |

PERFORMANCE SPECS

| 621G XT | | 3.0 yd³ (2.29 m³) Bucket with Bolt-on Edge - JRB Coupler | 2.8 yd³ (2.14 m³) Bucket with Teeth - JRB Coupler | 2.5 yd³ (1.91 m³) Bucket with Bolt-on Edge - JRB Coupler | 2.4 yd³ (1.8 m³) Bucket with Teeth - JRB Coupler |
|--|--|---|--|---|---|
| Operating weight | | 29,519 lb (13 389 kg) | 29,442 lb (13 355 kg) | 29,332 lb (13 305 kg) | 29,253 lb (13 269 kg) |
| E. | Operating height – fully raised with spillguard | 216.7 in (5 505 mm) | 216.7 in (5 505 mm) | 212.0 in (5 386 mm) | 212.0 in (5 386 mm) |
| F. | Hinge pin height – fully raised | 155.9 in (3 960 mm) | 155.9 in (3 960 mm) | 155.9 in (3 960 mm) | 155.9 in (3 960 mm) |
| G. | Overall length – bucket level on ground | 307.8 in (7 818 mm) | 313.5 in (7 963 mm) | 302.2 in (7 676 mm) | 307.7 in (7 817 mm) |
| Dump angle – fully raised | | 55° | 55° | 55° | 55° |
| H. | Dump height – fully raised, 45° dump | 104.3 in (2 648 mm) | 100.6 in (2 554 mm) | 107.8 in (2 739 mm) | 104.3 in (2 648 mm) |
| J. | Bucket reach – fully raised, 45° dump | 55.5 in (1 409 mm) | 59.6 in (1 515 mm) | 51.2 in (1 301 mm) | 55.2 in (1 402 mm) |
| K. | Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump | 72.2 in (1 833 mm) | 73.9 in (1 878 mm) | 70.1 in (1 780 mm) | 71.9 in (1 827 mm) |
| L. | Dig depth | 2.5 in (62 mm) | 2.6 in (66 mm) | 2.4 in (62 mm) | 2.6 in (66 mm) |
| Operating load – ISO Rigid Tires | | 8,506 lb (3 858 kg) | 8,616 lb (3 908 kg) | 8,704 lb (3 948 kg) | 8,421 lb (3 820 kg) |
| Operating load – ISO Deflected Tires | | 7,672 lb (3 480 kg) | 7,774 lb (3 526 kg) | 7,867 lb (3 568 kg) | 7,617 lb (3 455 kg) |
| Maximum material density – ISO Rigid Tires | | 2,835 lb/yd ³ (1 682 kg/m ³) | 3,077 lb/yd ³ (1 826 kg/m ³) | 3,482 lb/yd ³ (2 066 kg/m ³) | 3,509 lb/yd ³ (2 082 kg/m ³) |
| Maximum material density – ISO Deflected Tires | | 2,557 lb/yd ³ (1 517 kg/m ³) | 2,776 lb/yd ³ (1 647 kg/m ³) | 3,147 lb/yd ³ (1 867 kg/m ³) | 3,174 lb/yd ³ (1 883 kg/m ³) |
| Tipping load – ISO Rigid Tires: | | | | | |
| | Straight | 19,723 lb (8 946 kg) | 19,963 lb (9 055 kg) | 20,149 lb (9 140 kg) | 19,480 lb (8 836 kg) |
| | 40° turn | 17,012 lb (7 716 kg) | 17,233 lb (7 817 kg) | 17,409 lb (7 896 kg) | 16,843 lb (7 640 kg) |
| Tipping load – ISO Deflected Tires: | | | | | |
| | Straight | 18,456 lb (8 372 kg) | 18,683 lb (8 474 kg) | 18,877 lb (8 562 kg) | 18,262 lb (8 283 kg) |
| | 40° turn | 15,344 lb (6 960 kg) | 15,548 lb (7 052 kg) | 15,733 lb (7 136 kg) | 15,235 lb (6 910 kg) |
| Lift capacity: | | | | | |
| | Full height | 13,913 lb (6 311 kg) | 14,055 lb (6 375 kg) | 14,175 lb (6 430 kg) | 13,985 lb (6 344 kg) |
| | Ground | 26,995 lb (12 245 kg) | 28,110 lb (12 750 kg) | 28,545 lb (12 948 kg) | 24,581 lb (11 150 kg) |
| Breakout force with tilt cylinder | | 20,671 lb (9 376 kg) | 21,613 lb (9 803 kg) | 22,854 lb (10 366 kg) | 24,077 lb (10 921 kg) |
| Loader clearance circle with bucket | | 453.4 in (11 517 mm) | 455.5 in (11 569 mm) | 451.2 in (11 460 mm) | 453.1 in (11 509 mm) |

| 621G XT | | 3.0 yd³ (2.29 m³) Bucket with Bolt-on Edge - ACS Coupler | 2.8 yd³ (2.14 m³) Bucket with Teeth - ACS Coupler | 2.5 yd³ (1.91 m³) Bucket with Bolt-on Edge - ACS Coupler | 2.4 yd³ (1.8 m³) Bucket with Teeth - ACS Coupler |
|--|--|---|--|---|---|
| Operating weight | | 29,852 lb (13 541 kg) | 29,774 lb (13 505 kg) | 29,639 lb (13 444 kg) | 29,561 lb (13 409 kg) |
| E. | Operating height – fully raised with spillguard | 212.1 in (5 387 mm) | 212.1 in (5 387 mm) | 207.6 in (5 274 mm) | 207.6 in (5 274 mm) |
| F. | Hinge pin height – fully raised | 155.9 in (3 959 mm) | 155.9 in (3 959 mm) | 155.9 in (3 959 mm) | 155.9 in (3 959 mm) |
| G. | Overall length – bucket level on ground | 301.8 in (7 666 mm) | 307.5 in (7 810 mm) | 296.6 in (7 533 mm) | 302.3 in (7 678 mm) |
| Dump angle – fully raised | | 55° | 55° | 55° | 55° |
| H. | Dump height – fully raised, 45° dump | 108.1 in (2 745 mm) | 104.4 in (2 653 mm) | 111.5 in (2 831 mm) | 107.8 in (2 737 mm) |
| J. | Bucket reach – fully raised, 45° dump | 50.9 in (1 293 mm) | 55.1 in (1 399 mm) | 46.9 in (1 191 mm) | 51.0 in (1 296 mm) |
| K. | Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump | 69.9 in (1 776 mm) | 71.9 in (1 826 mm) | 67.7 in (1 721 mm) | 69.8 in (1 774 mm) |
| L. | Dig depth | 2.5 in (63 mm) | 2.6 in (65 mm) | 2.5 in (62 mm) | 2.6 in (67 mm) |
| Operating load – ISO Rigid Tires | | 8,755 lb (3 971 kg) | 8,871 lb (4 024 kg) | 8,948 lb (4 059 kg) | 9,058 lb (4 109 kg) |
| Operating load – ISO Deflected Tires | | 7,883 lb (3 576 kg) | 7,990 lb (3 624 kg) | 8,077 lb (3 664 kg) | 8,178 lb (3 709 kg) |
| Maximum material density – ISO Rigid Tires | | 2,918 lb/yd ³ (1 732 kg/m ³) | 3,168 lb/yd ³ (1 880 kg/m ³) | 3,579 lb/yd ³ (2 124 kg/m ³) | 3,774 lb/yd ³ (2 239 kg/m ³) |
| Maximum material density – ISO Deflected Tires | | 2,628 lb/yd ³ (1 559 kg/m ³) | 2,854 lb/yd ³ (1 693 kg/m ³) | 3,231 lb/yd ³ (1 917 kg/m ³) | 3,407 lb/yd ³ (2 022 kg/m ³) |
| Tipping load – ISO Rigid Tires: | | | | | |
| | Straight | 20,330 lb (9 221 kg) | 20,584 lb (9 337 kg) | 20,741 lb (9 408 kg) | 20,981 lb (9 517 kg) |
| | 40° turn | 17,509 lb (7 942 kg) | 17,742 lb (8 048 kg) | 17,895 lb (8 117 kg) | 18,116 lb (8 217 kg) |
| Tipping load – ISO Deflected Tires: | | | | | |
| | Straight | 19,002 lb (8 619 kg) | 19,241 lb (8 727 kg) | 19,415 lb (8 806 kg) | 19,640 lb (8 908 kg) |
| | 40° turn | 15,766 lb (7 152 kg) | 15,980 lb (7 248 kg) | 16,154 lb (7 327 kg) | 16,356 lb (7 419 kg) |
| Lift capacity: | | | | | |
| | Full height | 13,929 lb (6 318 kg) | 14,074 lb (6 384 kg) | 14,197 lb (6 440 kg) | 14,337 lb (6 503 kg) |
| | Ground | 32,621 lb (14 797 kg) | 34,152 lb (15 491 kg) | 34,382 lb (15 596 kg) | 35,919 lb (16 293 kg) |
| Breakout force with tilt cylinder | | 22,941 lb (10 406 kg) | 24,092 lb (10 928 kg) | 25,446 lb (11 542 kg) | 26,841 lb (12 175 kg) |
| Loader clearance circle with bucket | | 451.0 in (11 456 mm) | 453.0 in (11 506 mm) | 449.0 in (11 405 mm) | 450.9 in (11 454 mm) |

| 621G | | JRB/ACS | JRB/ACS | JRB/ACS | JRB/ACS |
|---|----------------|--|--|--|--|
| Maximum rollback: | | | | | |
| | Ground | 57°/57° | 57°/57° | 57°/57° | 57°/57° |
| | Carry position | 59°/59° | 59°/59° | 59°/59° | 59°/59° |
| | @ Full height | 59°/59° | 59°/59° | 59°/59° | 59°/59° |
| Maximum grading angle with bucket – back dragging | | 63°/62° | 64°/63° | 62°/60° | 63°/62° |
| SAE bucket capacity – struck | | | | | |
| | Heaped | 2.60 yd ³ (1.99 m ³) 3.00 yd ³ (2.29 m ³) | 2.40 yd ³ (1.83 m ³) 2.80 yd ³ (2.14 m ³) | 2.15 yd ³ (1.64 m ³) 2.50 yd ³ (1.91 m ³) | 2.05 yd ³ (1.57 m ³) 2.40 yd ³ (1.83 m ³) |
| Bucket width – outside | | 102.4 in (2 602 mm) | 102.1 in (2 593 mm) | 102.4 in (2 602 mm) | 102.1 in (2 593 mm) |
| Bucket weight | | 2,797 lb/3,131 lb (1 269 kg)/(1 420 kg) | 2,721 lb/3,053 lb (1 234 kg)/(1 385 kg) | 2,610 lb/2,918 lb (1 184 kg)/(1 324 kg) | 2,532 lb/2,840 lb (1 149 kg)/(1 288 kg) |

NOTE: *Z-Bar performance data shown with full counterweight. Performance data unit equipped with 20.5-R25 Michelin XTLA (L2 Radial) tires, ROPS cab with heater and A/C, 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 F4HFE613W
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
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
Limited-slip differentials – Z-Bar
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 loader control with one auxiliary function and 3 configurable buttons
Adjustable EH controls:
 Smooth
 Moderate
 Aggressive
Auxiliary Hydraulics
Ride Control™
Locking hydraulics for hydraulic coupler
EH Parallel Lift
Low-effort steering
Hydraulic driven cooling fan
Diagnostic quick couplers
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
Grouped remote-mounted ecology drains:
 Engine oil
 Engine coolant
 Hydraulic oil

TELEMATICS

CASE SiteWatch™ Telematics – includes hardware and a 3-yr Advanced data subscription
SiteConnect Module providing remote diagnostics capability

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

- Cloth-covered heated air-suspension seat with headrest
- Sound Shield noise suppression package
- Bluetooth radio, 12V AM/FM with auxiliary input
- 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
- 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
- Heavy-duty axles:
 - With locking front differential and open/conventional rear differential
- Cold weather package:
 - Heavy-duty (2) 950 CCA 12V batteries
 - Fuel heater
 - Hydraulic oil cooler bypass
 - Low temperature hydraulic oil
 - Fast-warm hydraulic valve

HYDRAULICS

- Secondary steering
- Integrated Payload System
- Tire Pressure Monitoring System
- 2-spool loader valves with joystick loader control
- 4-function loader valve with joystick loader control and two proportional auxiliary roller switches

LOADER

- XR extended reach version
- XT tool carrier version
- Attachment auxiliary hydraulics
- Coupler systems – JRB or ACS compatible
- Buckets – see pages 4 through 8

TIRES

- 20.5x25 L2 bias (16 ply) – dirt/traction
- 20.5 x25 L3 bias (16 ply) – rock
- 20.5-R25 L2 radial – dirt/traction
- 20.5-R25 L3 radial – rock
- 20.5-R25 radial Michelin SnoPlus
- Axle oscillation stops

GUARDING

- Skid plate, transmission and front chassis bottom guards

ADVANCED ENGINE AIR FILTRATION

- Heavy Debris cooling system:
 - Slanted cooling module cover
 - Increased cooling fin spacing
 - Added cooling module sealing
- Sy-Klone® ejector type pre-cleaner

OTHER

- Additional RH steps and platform with standard or wide fenders
- 12.4 mph (20 kph) maximum speed control
- Special paint
- Standard fenders with right and left hand steps
- 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.

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