
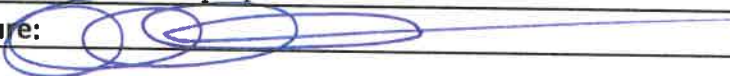


VENDOR: STATE EQUIPMENT, INC

Item No.	Description:	Model & Part Number Being Bid	Estimated Unit Quantity	Unit Price	Item Total Cost
1	Liugong 835Hv 4 Wh. Drive Rubber Tired Wheel Loader or equal	CASE 621G	25	\$177,122.00	\$4,428,050.00
Total Bid Cost					\$4,428,050.00
Bid Will Be Awarded To The Lowest Overall Bid Total For All Items					
Vendor Information					
Company Name: STATE EQUIPMENT, INC					
Contact Manager: EDDIE ROWAN, JR					
Address: 560 NEW GOFF MOUNTAIN ROAD CROSS LANES, WV 25313					
Phone: (304)776-4405					
Fax: (304)77604409					
E-mail: eddie@stateequipment.com					
Signature: 					

RECEIVED

2023 NOV 28 AM 10: 17

WV PURCHASING
DIVISION



Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

**State of West Virginia
 Centralized Request for Quote
 Equipment**

Proc Folder: 1297303			Reason for Modification: ADDENDUM NO_2 Vendor Questions and Responses
Doc Description: ADDENDUM NO_2 Rubber Tired Wheel Loader 4 wh. drive			
Proc Type: Central Master Agreement			
Date Issued	Solicitation Closes	Solicitation No	Version
2023-11-17	2023-11-28 13:30	CRFQ 0803 DOT2400000039	3


BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Customer Code: 000000205464
Vendor Name : STATE EQUIPMENT, INC.
Address : 560 NEW GOFF MOUNTAIN ROAD
Street :
City : CROSS LANES
State : WV **Country :** USA **Zip :** 25313
Principal Contact : EDDIE ROWAN, JR
Vendor Contact Phone: (304)776-4405 **Extension:**

FOR INFORMATION CONTACT THE BUYER
 John W Estep
 304-558-2566
 john.w.estep@wv.gov

Vendor Signature X  **FEIN#** 550658298 **DATE** 11/27/23

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION**ADDENDUM NO_2**

Addendum No_2 issued to publish and distribute the attached information to the Vendor Community.

REQUEST FOR QUOTATION:

The West Virginia Purchasing Division is soliciting bids on behalf of West Virginia Division of Highways to establish an open-end contract for a 4 Wheel Drive, Rubber Tired Wheel Loader Liugong 835Hv with Bucket or equal. Per the Bid Requirements, Specifications, Terms and Conditions attached to this solicitation.

INVOICE TO**SHIP TO**

DIVISION OF HIGHWAYS
EQUIPMENT DIVISION RT 33
83 BRUSHY ROAD
CROSSING, PO BOX 610
BUCKHANNON WV
US

DIVISION OF HIGHWAYS
EQUIPMENT DIVISION
83 BRUSHY FORK RD
CROSSING
BUCKHANNON WV
US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Rubber Tired Wheel Loader 4 wh. drive	25.00000	EA	\$177,122.00	\$4,428,050.00

Comm Code	Manufacturer	Specification	Model #
22101501	CASE	RUBBER TIRED WHEEL LOADER	621G

Extended Description:

Rubber Tired Wheel Loader 4 wh. drive

SCHEDULE OF EVENTS

Line	Event	Event Date
1	Pre-Bid 10:00am Equip Division, Buckhannon WV	2023-11-09
2	Tech Questions due by 10:00am	2023-11-16

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) EDDIE ROWAN, JR GENERAL MANAGER

(Address) 560 NEW GOFF MOUNTAIN ROAD CROSS LANES, WV 25313

(Phone Number) / (Fax Number) (304)776-4405 (304)776-4409

(email address) eddie@stateequipment.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

STATE EQUIPMENT, INC

(Company)

(Signature of Authorized Representative)

EDDIE ROWAN, JR GENERAL MANAGER

(Printed Name and Title of Authorized Representative) (Date)

(304)776-4405 (304)776-4409

(Phone Number) (Fax Number)

eddie@stateequipment.com

(Email Address)

**REQUEST FOR QUOTATION
(Class 353) 4 Wheel Drive Rubber Tired Wheel Loader Liugong 835Hv with
Bucket or equal.**

- 7.1.2 Failure to comply with other specifications and requirements contained herein.
- 7.1.3 Failure to comply with any laws, rules, and ordinances applicable to the Contract Services provided under this Contract.
- 7.1.4 Failure to remedy deficient performance upon request.
- 7.2 The following remedies shall be available to Agency upon default.
 - 7.2.1 Immediate cancellation of the Contract.
 - 7.2.2 Immediate cancellation of one or more release orders issued under this Contract.
 - 7.2.3 Any other remedies available in law or equity.

8. MISCELLANEOUS:

- 8.1 **No Substitutions:** Vendor shall supply only Contract Items submitted in response to the Solicitation unless a contract modification is approved in accordance with the provisions contained in this Contract.
- 8.2 **Reports:** Vendor shall provide quarterly reports and annual summaries to the Agency showing the Agency's items purchased, quantities of items purchased, and total dollar value of the items purchased. Vendor shall also provide reports, upon request, showing the items purchased during the term of this Contract, the quantity purchased for each of those items, and the total value of purchases for each of those items. Failure to supply such reports may be grounds for cancellation of this Contract.
- 8.3 **Contract Manager:** During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager: EDDIE ROWAN, JR
Telephone Number: (304)776-4405
Fax Number: (304)776-4409
Email Address: eddie@stateequipment.com

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFQ DOT240000039

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|--|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input checked="" type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

STATE EQUIPMENT, INC

Company



Authorized Signature

11/27/23

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.



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 Power:	
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

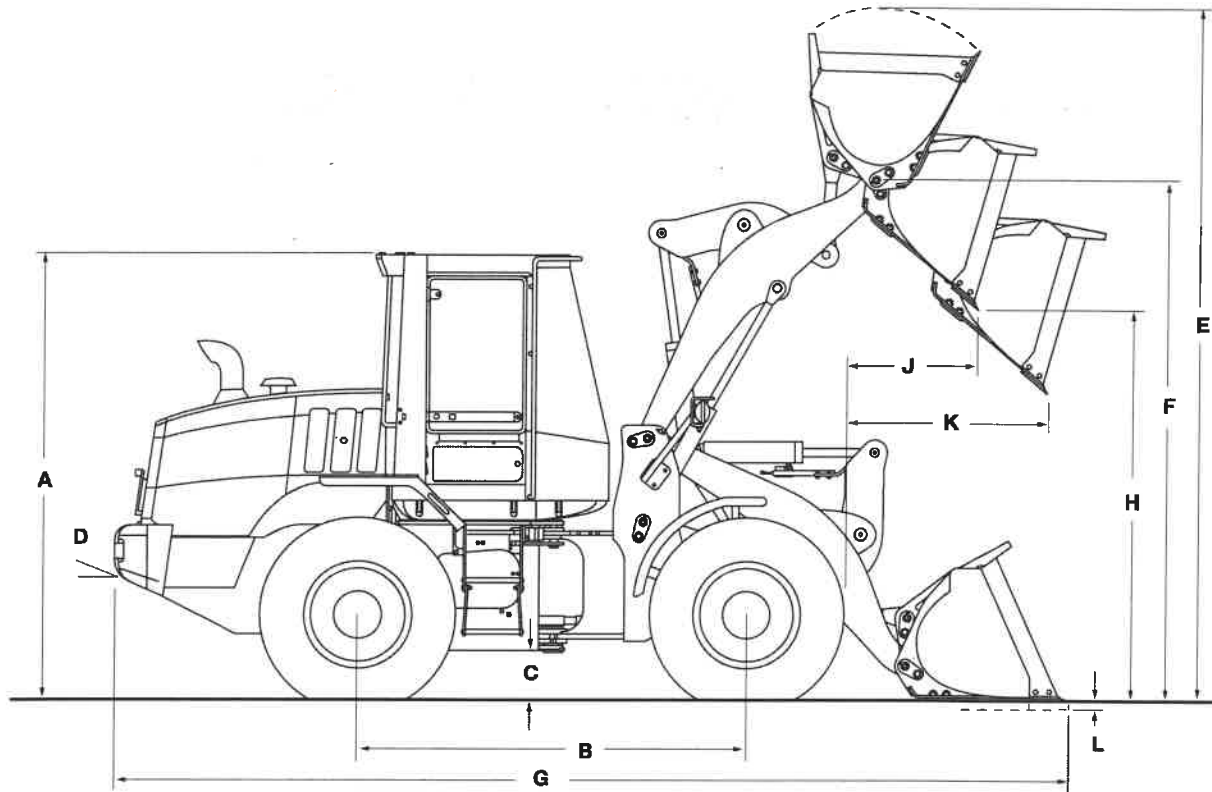
Float down:

Z-Bar	4.8 sec
XR	4.8 sec
XT	4.2 sec

Sound level in Cab (LpA)	68 dB(A)
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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	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*	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 Controller	+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 185 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) 3.00 yd ³ (2.29 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)	3.71 yd ³ (2.84 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					
	Heaped	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)
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
Greaseable 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

CaseCE.com

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IMPORTANT: CASE Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Availability of some models and equipment builds vary according to the country in which the equipment is used. The illustrations and text may include optional equipment and accessories and may not include all standard equipment. Your CASE dealer/distributor will be able to give you details of the products and their specifications available in your area.



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.

Form No. CCE202104621G

Replaces Form No. CCE201910621G

621G

9 of 9



CASE
CONSTRUCTION

SINCE 1842

G SERIES
WHEEL LOADERS

521G | 621G | 721G | 821G | 921G | 1021G | 1121G

THE MOST IMPORTANT CYCLE

Every CASE G Series wheel loader is built on uptime and new ways to simplify operation to give you more performance and productivity that turns uptime into profitability.

That is the most important cycle you run.

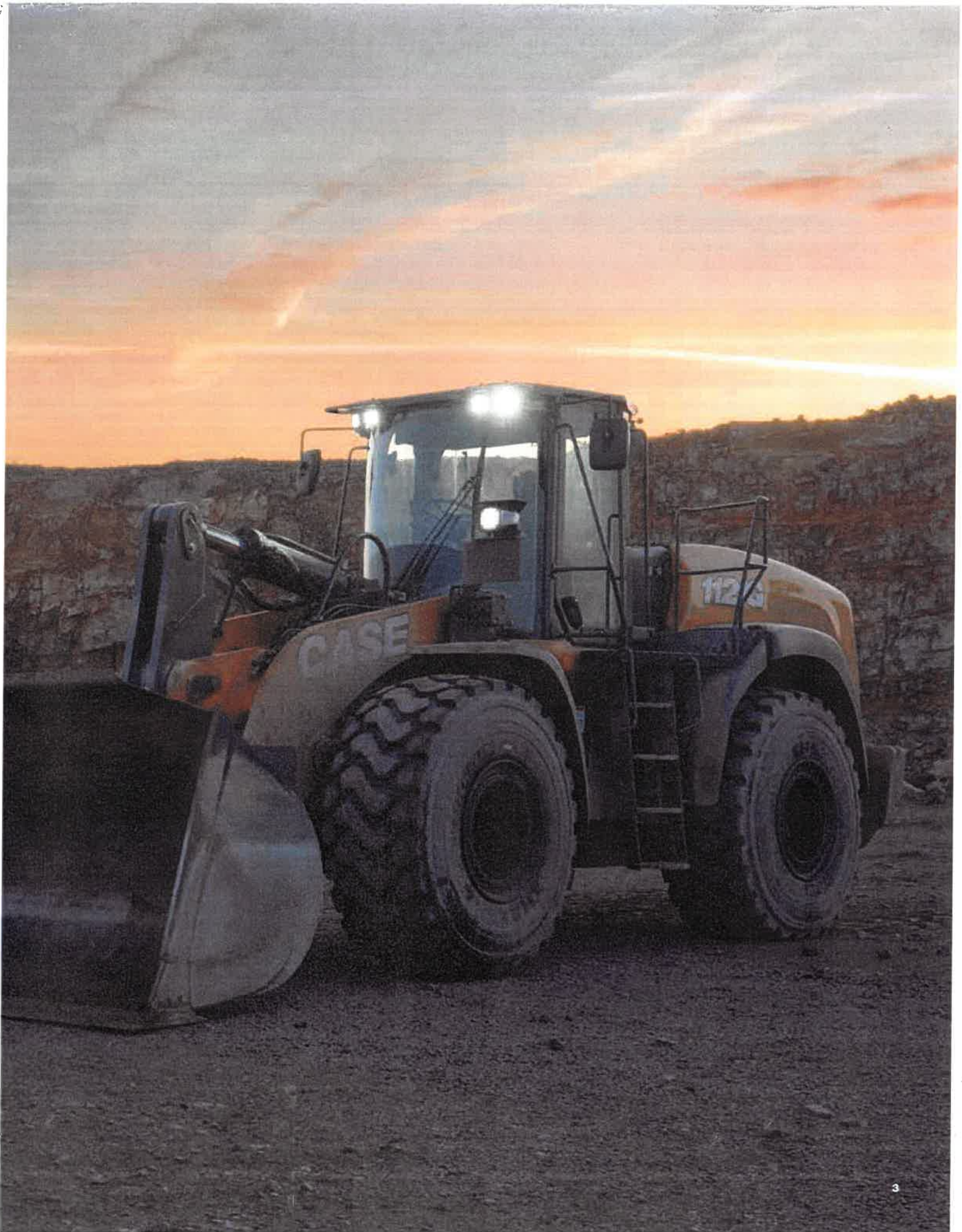
From lower total cost of ownership (TCO) and new ways to collaborate on fleet management, to the core truths of fuel efficiency, operator comfort and reliability in the most intense environments — CASE G Series wheel loaders deliver everything you need to get it all done.

New enhancements include:

- + **Simplify operation and centralize control with the all-new touchscreen display**
- + **Program your most commonly used settings and activate functions quicker with new configurable buttons**
- + **Independently set lift (boom) and tilt (bucket) performance to smooth, moderate or aggressive with new adjustable electro-hydraulic controls**
- + **Simplify operation with two power modes: Max and Smart. Max is for working all-out. Smart delivers high performance, smoother shifting, reduced tire wear and greater fuel efficiency**
- + **Greater material retention and performance with electro-hydraulic parallel lift***
- + **Improve load accuracy and reporting, and simplify acquisition, with a new fully integrated factory-built payload system****
- + **Greater connectivity improves telematics reporting, allows for remote diagnostics and software updates, and encourages powerful fleet management collaboration**

*Z-bar and XR configurations.

**Optional.



**LINKAGE FOR EVERY
APPLICATION**

CASE G Series wheel loaders offer numerous front linkage options, dependent on model: Z-bar, XR (extended reach) and XT (tool carrier).



*Available on the 521G through 721G.

PRACTICAL INNOVATION. EASIER OPERATION.



A NEW STANDARD IN OPERATION
Access all critical machine settings and operational data through an all-new touchscreen display — as well as the optional rearview camera, the all-new optional integrated payload system, and the all-new Tire Pressure Monitoring System (TPMS).



CUSTOMIZED SETTINGS AND FUNCTIONS
Three new color-coded, configurable buttons on the armrest allow for quick and easy changes between settings and functions, such as engaging the rearview camera, engaging differential lock, or accessing the integrated payload system. The three configurable buttons are then set to three different tasks or functions when working with the payload system.

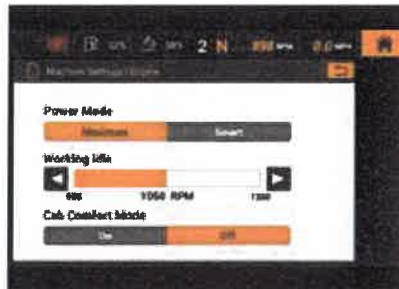


INDEPENDENTLY CONTROL LIFT/TILT
Set lift (boom) and tilt (bucket) responsiveness to smooth, moderate or aggressive depending on the job or operator preference with new adjustable electro-hydraulic controls.

Pro Tip: The aggressive control on the bucket is perfect for feathering/metering in material as you top off hoppers or trucks, or cleaning out stubborn material stuck inside the bucket.



GET PARALLEL (IN ALL CONFIGURATIONS)
The new electro-hydraulic parallel lift feature (available on Z-bar and XR configurations) gives you the steady load-and-carry performance of a tool carrier across all configurations in the CASE G Series lineup (XT configurations provide mechanical self leveling);



OPERATE HOW YOU WANT
Power modes have been simplified from four down to two - Max and Smart. Max for when you need to go all out. Smart for improved fuel efficiency and reduced tire wear (without sacrificing performance).



KEEP INFLATED
Help ensure uptime and performance with properly inflated tires and the all-new Tire Pressure Monitoring System (TPMS). Proper tire inflation improves machine responsiveness and operator comfort, improves fuel economy, and reduces wear and tear on your tires. The system alerts operators and fleet management staff when tire inflation falls outside the desired range.

**When equipped.



ENJOY THE RIDE

Big power that rides easy — CASE G Series wheel loaders offer one of the industry's most comfortable and adjustable workstations matched with sweeping glass windows for extreme comfort and visibility.

Pro Tip: Get the Enhanced Visibility Package that bundles rearview camera, LED lights and heated mirrors for even greater visibility.



GET COMFORTABLE
Multiple ergonomic seat options with controls and armrests that move both with and independently of the seat.



RUN EASY
Simple ergonomic controls and joysticks reduce operator fatigue and make long days at the wheel a breeze.



DIAL-IT IN
The membrane keypad controls multiple machine functions in easy reach of the operator, including programmable height control, return-to-dig, and the new electro-hydraulic parallel lift function.



SEE IT ALL
Greater visibility to all sides of the machine is achieved with a one-piece rounded windshield, a rear grid defroster, and external mirrors optimally placed to prevent operator fatigue. The optional rearview camera further improves operator awareness and confidence.

HOW WE EARNED YOUR TRUST

CASE G Series wheel loaders run every yard and pit with extreme fuel efficiency, lower operating temperatures, excellent power and productivity — along with a reputation for standing up to the toughest conditions. The proof:



SIPPIN' FUEL

Patented Tier 4 Final SCR engine technology meets emissions standards while maximizing fuel efficiency and performance — all while keeping engine compartment temperatures down with no DPF and no regen.



RUN COOL

The Mid-Mounted Cooling Module (521G-921G) provides greater rear visibility and pushes the engine back for greater counterweight, and the CASE Cooling Cube (1021G-1121G) keeps the engine cool with excellent access to all coolers.



LIGHT IT UP

An LED light package with two front drive lights, four front working lights and two rear working lights - along with standard integrated four-corner strobes - helps operators see and be seen in all operations.



KEEP IT ALL

Standard Ride Control provides excellent material retention and control over rough terrain, while reducing shock loads on the machine and operator.



DRIVE ANY SITE

CASE G Series wheel loaders feature a number of axle options to match the type of conditions and terrain you run on, including standard limited-slip front (521G-821G) and rear, auto locking front, and conventional or open rear.



SHORTEN CYCLE TIMES

The optional five-speed PowerShift transmission with lock-up torque converter (621G-921G) provides faster acceleration and roading speeds up to 25 mph. And Powerinch provides incredible accuracy and control in tight loading areas, regardless of engine speed or grade.



UPTIME. CONNECTED.

Greater connectivity improves telematics performance, allows for remote diagnostics and software updates, and makes CASE and your local dealer the most powerful fleet management partners you have.

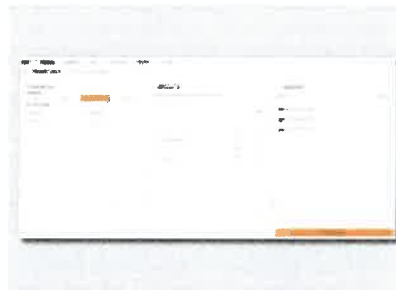


THE CASE UPTIME CENTER

CASE technical experts monitor telematics data from your equipment* to provide even more support and analysis to your operation. CASE and your local dealer service teams will work together as a powerful extension of your own fleet management activities to proactively identify possible issues with operation and performance, work together on solutions, and provide you with the support you need to optimize your uptime.

SiteConnect Module Onboard

The new SiteConnect Module improves the volume, flow and integration of data to the CASE SiteWatch telematics platform — and makes remote diagnostics, code clearing and software updates possible. When you see this symbol on CASE equipment, you know you're connected.



CASE SiteWatch

The all-new CASE SiteWatch telematics platform delivers a new and intuitive dashboard, simplified navigation and practical reporting capabilities that improve everything from preventive maintenance and fleet health to employee productivity. The connectivity of the SiteConnect Module allows for new reporting and ticketing with payload systems, new alerts for Tire Pressure Monitoring Systems (TPMS) and more, and a greater flow of information to fleet management partners such as CASE and your local CASE dealer.



CASE SiteManager

The CASE SiteManager App (iOS and Android) helps make quick work of downtime by allowing your CASE dealer to have remote access to your machine, diagnose a problem, clear codes and, if needed, provide a quick software update. If a field visit is required, the dealer tech arrives on site with the parts and tools needed to get that machine up and running quicker.

Pro Tip: The purpose-built, factory integrated system allows for payload functionality to be added to your fleet without requiring separate financing, acquisition and installation — the system is entirely turnkey.

*When agreed to by the equipment owner.

MAKE WEIGHT. EVERY TIME.

The all-new optional CASE G Series payload system is integrated directly into the loader's primary display and provides bucket weight, pass counts, accumulated/running weight, job tracking data and more for high-volume loading and production environments. This allows operators to precisely load each truck to reduce under/overload situations, and cumulatively track the total weight of material loaded into each truck. It also helps operators track total loads and total volume of material moved over a period of time, and can also track history by customer, truck, or material, as well as provide ticket histories.



IN PITS AND QUARRIES

Cut down on topping off trucks at the scale and situations where trucks have to dump material because they are overweight, or drive to a site underloaded because the operator was light with each bucket.



IN GENERAL CONSTRUCTION

Keep track of the amount of material loaded off of each site, and ensure that your trucks are in compliance with local weight restrictions.



IN AGRICULTURAL OPERATIONS

The payload system serves as another proof point/check on measurements, such as the amount of lime being applied to a field, or the amount of ingredients applied to a feed mix.



SITEWATCH INTEGRATION

SiteWatch enables full integration with the all-new payload system to provide payload reports, ticket details and overall performance information.

INDUSTRY-LEADING GROUNDLINE ACCESS

WE MAKE MAINTENANCE SIMPLE

G Series wheel loaders feature an electric rear hood lift* that provides easy access to the engine compartment for excellent groundline serviceability. All major regular service points can be accessed from ground level, meaning daily maintenance can be completed in a matter of minutes.



EASY ACCESS TO EVERYTHING

- 1 Engine filter
- 2 Electric rear hood lift*
- 3 Mid-Mounted Cooling Module (1021G and 1121G feature the CASE Cooling Cube)
- 4 Hydraulic tank site gauge
- 5 Grouped grease points
- 6 Jump-start posts
- 7 Environmental drain ports
- 8 HVAC fresh air filter and recirculation air filter
- 9 Fuel/DEF fill
- 10 Engine oil check and fill
- 11 Tire Pressure Monitoring System (TPMS)

*Available on 621G-1121G models

NO TOOLS NEEDED

The G Series continues the CASE hallmark of simple serviceability with features like tool-free access to the oil cooler, radiator and other routine maintenance points.

8



9



10



11



Protected by
ProCare

FACTORY WARRANTY
PLANNED MAINTENANCE
TELEMATICS



**3-yr/3000-hr
Full-Machine Factory
Limited Warranty***
STANDARD



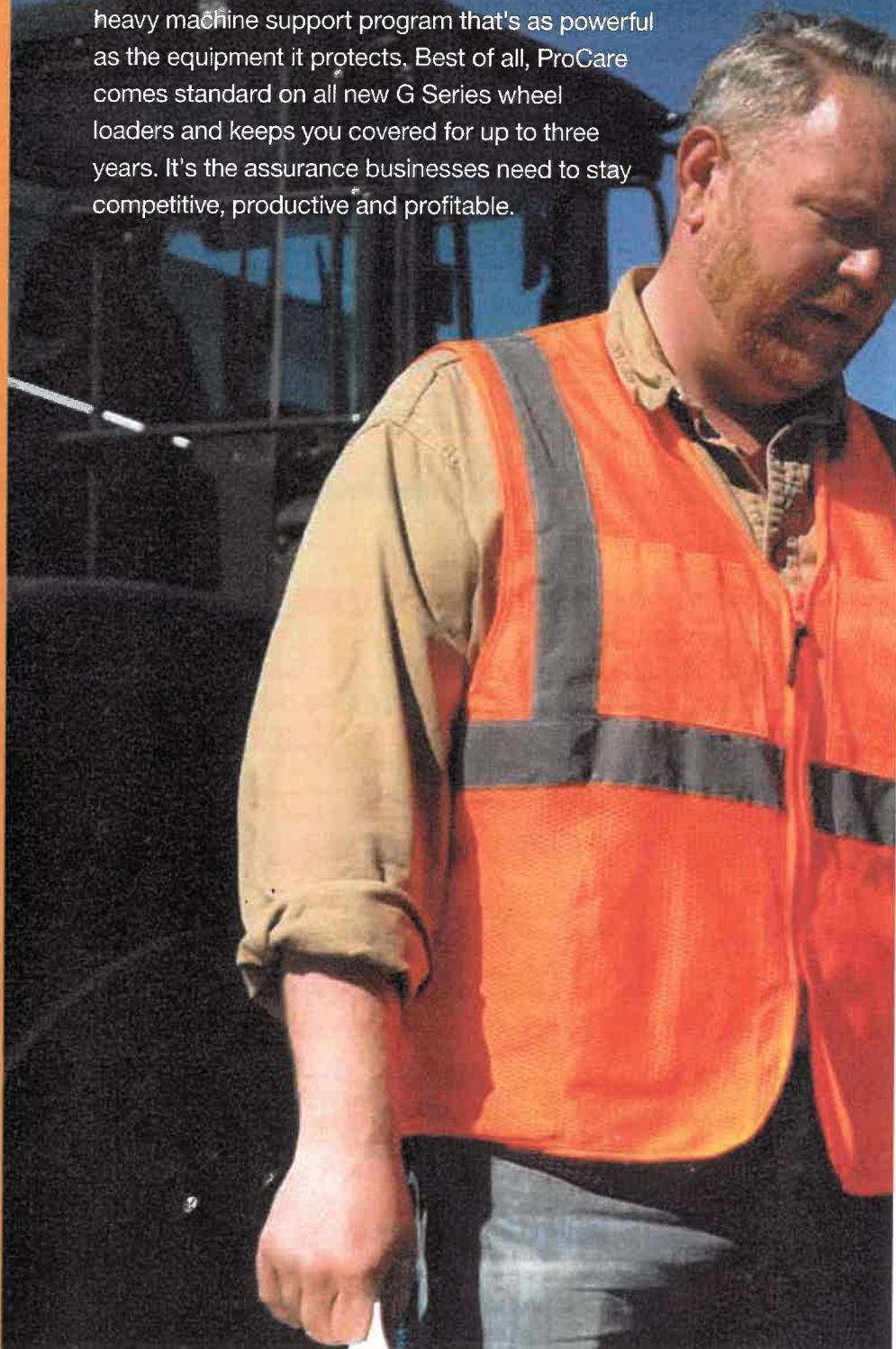
**3-yr/2000-hr
Planned Maintenance**
STANDARD



**3-yr
SiteWatch™ Subscription**
STANDARD

GO BIG, WE'VE GOT YOU COVERED

CASE ProCare is the industry's most comprehensive and standard-from-the-factory heavy machine support program that's as powerful as the equipment it protects. Best of all, ProCare comes standard on all new G Series wheel loaders and keeps you covered for up to three years. It's the assurance businesses need to stay competitive, productive and profitable.



SUPPORT COMES STANDARD



STRONGER PRODUCT SUPPORT SOLUTIONS

Your CASE dealer knows how you can best maximize your equipment investment and uptime — with genuine CASE parts, expert service and a complete range of product support solutions including CASE remanufactured and all-makes parts. CASE supports better parts availability and faster deliveries through nine parts distribution centers in North America and a forecasting system to ensure that the right parts will be there when you need them. And only CASE dealers have exclusive access to the Electronic Service Tool (EST) that quickly pinpoints machine issues. Just ask your dealer for details.



FLEXIBLE FINANCIAL OPTIONS

Specialized finance programs and flexible leasing packages are available for industry-leading CASE equipment while no-nonsense warranties and comprehensive protection plans ensure that your equipment is protected. As the only finance company dedicated to CASE, we offer strong products and services designed around your unique service needs.

*See your dealer for the complete terms of CNH Industrial's Warranty and Limitations of Liability, which contains certain limits and exclusions. ProCare is a factory-fit program available on new heavy machine orders.

ATTACHED TO VERSATILITY



INTEGRATED HYDRAULIC QUICK-COUPLER

CASE offers an integrated hydraulic quick-coupler on our wheel loaders that lets operators conveniently switch out attachments from the comfort of the cab. Its factory-built design offers improved visibility and won't alter the physics or breakout force of the machine like aftermarket options will.

140 ATTACHMENTS AND THEN SOME

G Series wheel loaders work with more than 140 CASE attachments, including buckets, forks, brooms and more. CASE also has partnerships with numerous attachment manufacturers for even greater versatility. Consult your dealer for details.

SMARTFIT™ BUCKET TEETH

G Series buckets come standard with the innovative SmartFit bucket tooth system. These heavy-duty, self-sharpening teeth combine exceptional strength and unmatched ease of installation thanks to a hammerless fastener system with reusable locking pins. Available in a full range of styles.

DIMENSIONS AND SPECIFICATIONS

SPECIFICATIONS	521G	621G	721G	821G	921G	1021G	1121G
Engine	FPT F4HFE413NB	FPT F4HFE613W	FPT F4HFE613T	FPT F4HFE613S	FPT F4HFE613R	FPT F2CFE614H	FPT F2CFE614F
Emissions Certification	Tier 4 Final	Tier 4 Final	Tier 4 Final	Tier 4 Final	Tier 4 Final	Tier 4 Final	Tier 4 Final
Displacement – in³ (L)	275 (4.5)	411 (6.7)	411 (6.7)	411 (6.7)	411 (6.7)	531 (8.7)	531 (8.7)
Cylinders	4-cylinder in-line	6-cylinder in-line	6-cylinder in-line	6-cylinder in-line	6-cylinder in-line	6-cylinder in-line	6-cylinder in-line
Net Horsepower – hp (kW)	131 (98)	162 (121)	179 (133)	213 (159)	242 (180)	304 (227)	329 (245)
Net Peak Torque – lb-ft (Nm)	424 (575)	510 (692)	674 (914)	845 (1 145)	930 (1 261)	1,057 (1 433)	1,154 (1 564)
Operating Weight – lb (kg)	24,203 (10 978)	28,254 (12 816)	32,633 (14 802)	40,057 (18 170)	45,070 (20 443)	56,365 (25 567)	61,650 (27 964)
Breakout Force – lb (kg)	20,934 (9 495)	24,031 (10 900)	30,485 (13 828)	35,288 (16 007)	37,688 (17 095)	45,056 (20 437)	49,934 (22 650)
Full Turn Tipping Load, ISO Deflected Tires – lb (kg)	16,159 (7 330)	18,749 (8 504)	20,212 (9 168)	24,515 (11 120)	28,529 (12 940)	35,717 (16 201)	38,454 (17 443)
Transmission Gears	4F/3R	4 or 5F/3R	4 or 5F/3R	4 or 5F/3R	4 or 5F/3R	4F/3R	4F/3R
Pin-on Bucket Size: GP with Bolt-on-Edge – yd³ (m³)	2.1 (1.6)	3.0 (2.3)	3.5 (2.7)	4.25 (3.2)	4.75 (3.6)	5.5 (4.2)	6.25 (4.8)
Max. Material Density, ISO – lb/yd³ (kg/m³)	3,847 (2 283)	3,125 (1 854)	2,887 (1 713)	2,884 (1 711)	3,003 (1 782)	3,247 (1 927)	3,076 (1 825)
DIMENSIONS	521G	621G	721G	821G	921G	1021G	1121G
Height to Top of ROPS Cab	128.9 in (3 275 mm)	133.2 in (3 384 mm)	133.0 in (3 378 mm)	136.2 in (3 460 mm)	136.4 in (3 464 mm)	140.8 in (3 577 mm)	140.8 in (3 576 mm)
Hinge Pin Height	142.0 in (3 606 mm)	150.9 in (3 833 mm)	156.5 in (3 976 mm)	162.2 in (4 120 mm)	162.4 in (4 124 mm)	167.2 in (4 246 mm)	175.2 in (4 449 mm)
Dump Height – Fully Raised, 45° Dump	108.7 in (2 760 mm)	110.4 in (2 804 mm)	113.7 in (2 888 mm)	117.3 in (2 981 mm)	114.6 in (2 912 mm)	121.2 in (3 078 mm)	126.3 in (3 209 mm)
Operating Height – Fully Raised with Spillguard	181.6 in (4 613 mm)	198.6 in (5 044 mm)	208.4 in (5 294 mm)	215.4 in (5 471 mm)	220.1 in (5 589 mm)	229.3 in (5 824 mm)	242.0 in (6 147 mm)
Bucket Reach – Fully Raised, 45° Dump	37.9 in (962 mm)	39.8 in (1 010 mm)	46.0 in (1 169 mm)	43.4 in (1 102 mm)	46.8 in (1 189 mm)	49.8 in (1 265 mm)	50.1 in (1 273 mm)
Wheelbase	108.3 in (2 750 mm)	114.2 in (2 900 mm)	128.1 in (3 253 mm)	131.5 in (3 340 mm)	131.5 in (3 340 mm)	139.8 in (3 550 mm)	139.8 in (3 550 mm)
Overall Length – Bucket Level on Ground	260.3 in (6 612 mm)	290.6 in (7 380 mm)	304.0 in (7 721 mm)	315.1 in (8 004 mm)	322.7 in (8 198 mm)	352.3 in (8 948 mm)	361.1 in (9 172 mm)
Ground Clearance	13.4 in (341 mm)	15.3 in (389 mm)	15.1 in (384 mm)	17.0 in (431 mm)	17.1 in (435 mm)	17.2 in (437 mm)	17.2 in (437 mm)
Overall Width without Bucket	96.4 in (2 448 mm)	97.6 in (2 478 mm)	100.7 in (2 558 mm)	111.4 in (2 829 mm)	111.4 in (2 829 mm)	117.2 in (2 978 mm)	117.2 in (2 978 mm)
Angle of Departure	30°	25°	29°	29°	29°	23°	23°



BUILDING A STRONG CASE.

Since 1842, we at CASE Construction Equipment have lived by an unwavering commitment to build practical, intuitive solutions that deliver both efficiency and productivity.

We continually strive to make it easier for our customers to implement emerging technologies and new compliance mandates.

Today, our global scale combined with our local expertise enables us to keep customers' real-world challenges at the center of our product development. This focus has led to numerous innovations like Ride Control™, electro-hydraulic controls, Blade Shake, PowerLift™, over-center boom design and the peace of mind that only CASE ProCare provides.

Every CASE machine is backed by more than 300 North American dealer locations, thousands of OEM, remanufactured and all-makes parts, and flexible financing and insurance options that provide the kind of reliable, steadfast support you expect from a professional partner.

We are passionate about improving the lives of others, whether investing in our veterans or raising awareness about local infrastructure initiatives through Dire States. Our goal is to build both stronger machines — and stronger communities.

At the end of the day, we do what's right by our customers and our communities so that they can count on CASE.

CaseCE.com/GSeries

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Form No. CCE202104WL
Replaces Form No. CCE201908GWL

IMPORTANT: CASE Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Availability of some models and equipment builds vary according to the country in which the equipment is used. The illustrations and text may include optional equipment and accessories and may not include all standard equipment. Your CASE dealer/distributor will be able to give you details of the products and their specifications available in your area.



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 equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.



**CNH Industrial America LLC
and CNH Industrial Canada, Ltd.**

**WARRANTY AND LIMITATION OF LIABILITY AGREEMENT
HEAVY - CASE CONSTRUCTION EQUIPMENT**

The Case Warranty

The Case Warranty is a limited warranty that is provided to the initial retail purchaser in return for consideration paid as part of the purchase price of the product. The selling dealer is expected to review the warranty coverage with the initial retail purchaser and obtain his/her signature on this document.

New Limited Warranty

The warranty described here is from CNH Industrial America LLC and in Canada, CNH Industrial Canada Ltd., both of which are referred to in this agreement as "Case" for the Case Construction Brand. This warranty is for Case products sold and registered in the United States or Canada and normally operated in the United States or Canada. This warranty does NOT apply to any product normally operated outside of the United States and/or Canada, or to any unit purchased outside of the United States or Canada and imported in for any reason other than a customer relocation/personal move.

Warranty Period

For the products listed below, the Warranty Period for all coverage begins at the time that any person, dealer or agent first places the unit into service. At the latest, a unit is considered to be placed into service when purchased or delivered to an initial retail purchaser. Certain demonstration, rental, lease, and other used units may be eligible for a portion of a new unit warranty. The availability of the remaining portion of a new unit warranty does not mean that a unit is new or unused. The Warranty Period ends when either the month or machine hour limit is reached, whichever limit occurs first.

CASE HEAVY PRODUCT	BASE WARRANTY	EXTENDED WARRANTY	Notes*
COMPACTION EQUIPMENT - SINGLE OR DOUBLE DRUM Cummins / Deutz / Yanmar / Kubota Engines (Warranty through engine manufacturer)	12 Mo. / Unlimited Hrs		Notes 1
WHEEL LOADERS (Case ProCare Coverage) Case Engine (Warranty through Case)	12 Mo. / Unlimited Hrs	24 Mo. / 2000 Hrs 36 Mo. / 3000 Hrs 24Mo. / 2000 Hrs	Notes 3, 4
MOTOR GRADERS (Case ProCare Coverage) Case Engine (Warranty through Case)	12 Mo. / Unlimited Hrs	36 Mo. / 3000 Hrs 24 Mo. / 2000 Hrs	Notes 3, 4
EXCAVATORS (Case ProCare Coverage) Isuzu Engines (Warranty through Case)	12 Mo. / 1800 Hrs	36 Mo. / 3000 Hrs 24 Mo. / 2000 Hrs	Notes 2, 3, 4
CRAWLER DOZERS (Case ProCare Coverage) Case Engines (Warranty through Case)	12 Mo. / Unlimited Hrs	36 Mo. / 3000 Hrs 24 Mo. / 2000 Hrs	Notes 3, 4

- 1) Engine coverage is provided directly by the engine manufacturer.
- 2) Warranty does not cover any configuration excavator equipped with feller buncher/accumulator attachments
- 3) Units equipped with factory standard telematics are authorized for **Case ProCare** extended coverage for an additional 24 months / 3000 total machine hours, whichever comes first
- 4) Engine warranty coverage is provided through Case.

Operator's Manual / Warranty Receipt Verification

- YES / NO The selling dealer has reviewed the correct operator's manual with me and will provide the operator's manual upon delivery of the product.
- YES / NO The selling dealer has explained safety precautions to me.
- YES / NO The selling dealer has explained the warranty terms and coverage to me.
- YES / NO The selling dealer has explained Purchased Protection Plan options for additional coverage on select components.
- YES / NO Customer acknowledges that CNH Industrial America LLC/CNH Industrial Canada Ltd. may access and use diagnostic and telematics vehicle data for appropriate business purposes.

Model:	Serial Number:	Hours:	Ops man. Number:
Retail DATE:		Usage:	
Purchaser Name (please print):		Dealer Name:	
Address:		Address:	
City / State/Province:		City / State/Province:	
Zip code:		Zip code:	
Phone Number:		Phone Number:	

The answers checked above are correct. I acknowledge that I have read and I accept this warranty and limitation of liability agreement.

Purchaser Signature _____ Date _____

Dealer Signature _____ Date _____

See page 2 for important limitations and exclusions

Site Connect / SiteWatch Telematics service regarding the Product detailed above [check where applies]

Service Name	AM53	P&CM	I confirm that the unit stated on this form has the benefit of the Site Connect Package summarized to the left, subject to the terms of the <u>Telematics Privacy Statement</u> and the <u>End User License Agreement</u> , copies of which have been provided to me.
Site Connect 1 year			
Site Connect 2 years			
Site Connect 3 years			
Site Connect 4 years			
Site Connect 5 years			
Purchaser			Initial
I have been provided a copy of the <u>Telematics Privacy Statement</u> the terms of which are acceptable to me			
I have been provided a copy of the <u>End User License Agreement</u> the terms of which are acceptable to me.			
Purchaser Signature:			
Print Name:			
Date:			

What's Covered

If a defect in material or workmanship is found in a unit and reported during the Warranty Period, Case will pay parts and labor costs to repair the defect if the services are performed by an authorized Case dealer at the dealer's location. If parts are needed during the repair, Case will, at its option, use genuine Case new or remanufactured parts. Case replacement parts that are used in a warranty repair are warranted until the end of the machine warranty or to the end of the Case Replacement Parts Warranty, whichever is longer.

CASE PROVIDES NO WARRANTY, EXPRESS OR IMPLIED, FOR A COMPONENT OR OTHER ITEM THAT IS SEPARATELY WARRANTED TO THE PURCHASER BY ITS MANUFACTURER, SUCH AS TIRES, BATTERIES AND FUEL INJECTION COMPONENTS. CHECK WITH YOUR DEALER FOR DETAILS

No Modification or Extension of Warranty Period

The Case Warranty is limited to the written terms in this document. Case does not authorize any person, dealer or agent to change or extend the terms of this warranty in any manner. Any assistance to the purchaser in the repair or operation of any Case product outside the terms or limitations or exclusions of this warranty will not constitute a waiver of the terms, limitations or exclusions of this warranty, nor will such assistance extend or re-establish the warranty.

EXCLUSIVE REMEDY
THE REMEDY OF REPAIRING A DEFECT IN MATERIALS OR WORKMANSHIP AT A CASE DEALERSHIP UNDER THE TERMS OF THIS WARRANTY IS THE PURCHASER'S EXCLUSIVE REMEDY AND IS IN LIEU OF ANY OTHER REMEDY OTHERWISE AVAILABLE.

This Warranty is Void If

The unit's hour meter is changed or altered, unless a Case dealer, at the direction of Case, changed the meter. If any unit component has been modified beyond specification. If the unit is modified or used in an application for which it is not designed, or the unit has been scrapped, salvaged, stolen, junked or totaled.

Limitation and Exclusions The Case Warranty gives you specific legal rights and you may also have other rights, which vary, from region to region.

THIS DOCUMENT CONTAINS THE ENTIRE CASE WARRANTY. CASE MAKES NO OTHER REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, AND SPECIFICALLY EXCLUDES THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. CASE WILL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM A BREACH OF THE WRITTEN WARRANTY OR ANY IMPLIED WARRANTY IMPOSED BY LAW.

Owner's Responsibility

The Case warranty remains in effect during the Warranty Period if the owner performs the required maintenance at the recommended intervals outlined in the product operator's manual and the unit is operated within its rated capacity. Genuine Case service parts or Case approved service parts that meet Case specifications must be used for maintenance and repair.

What's Not Covered

- Cost associated with performing pre-delivery or scheduled inspection service.
- Repairs arising from storage deterioration, failure to maintain the equipment, negligence, alteration, improper use of the equipment, collision or other accident, vandalism, or other casualty, or operation beyond rated capacity or specification.
- Repairs arising from abuse or neglect, including but not limited to: operation without adequate coolant or lubricants, adjustments to the fuel system outside equipment specifications, over-speeding, improper storage, starting, warm-up, or shutdown practices, incorrect fuel or contaminated fuel, oil or other fluids.
- Normal maintenance services, such as engine tune-ups, engine fuel system cleaning, checks, adjustments, shimming, etc.
- Replacement of non-defective wear items expected to be replaced during the warranty period, including but not limited to: light bulbs, spark plugs, ignition points, brake or clutch linings, slip clutches, belts, chains, knives, bucket cutting edges and teeth, crawler track pads and track components, crop processing and cutting components, external drive sprockets and chains, soil engaging tools and accessories.
- Items replaced due to customer demand.
- Labor charges performed by anyone except a dealer authorized by contract to repair the equipment, unless they qualify under special provisions (i.e.: outside labor).
- Any and all travel costs for items such as towing, service calls, or transporting a unit to and from the place where the warranty service is performed, unless specifically covered by a product improvement program or units classified as heavy and/or compaction products
- Claims involving loss or damage during shipment or handling, including units subsequently sold as a "salvage" unit.
- "Salvage" or other units sold on an "as is" basis, unless otherwise specified in writing at the time of sale.
- Normal maintenance costs, including but not limited to: lubricants, coolants, fluids, fuel, filters, and associated labor. Lubricants, filters, and coolants may qualify for warranty reimbursement if they require replacement as a DIRECT RESULT of a defect in material or workmanship.
- Claims involving the inspection or reconditioning of units after storage or prior use.
- Components or items that are separately warranted directly by the manufacturer including but are not limited to: tires, tracks, engines, transmissions, batteries, fuel injection pumps, fuel injectors, etc.
- Shop comebacks: any duplicate, repeat, or comeback repair resulting from improper diagnosis, testing, or service work. This also includes repairs arising from service performed by agents not approved by Case.
- Repairs arising from any unauthorized modification to the product or the use on non-CNH Industrial parts, implements, or attachments, including but not limited to performance changing (i.e., increasing horsepower or other modifications) and/or emissions defeating modifications.

- Removal, replacement, or installation of non-CNH Industrial optional equipment, attachments or components.
- Premiums charged for overtime labor costs or out of shop expenses.
- Economic loss including lost profits, crop loss, crop damages, equipment rental, contract delay, project expenses or other expenses or damages.
- Unauthorized modification or updating machines without a warrantable failure based on Service Bulletin information or production changes.
- Any and all costs of special tools
- Any and all costs of dealer shop supplies incurred with repairs, including but not limited to: solvents, cleaners, anti-seize lubricants, loctite, sealant, adhesive, oil-dry, shop towels, etc. Sealant or adhesive may qualify for warranty reimbursement in certain applications requiring a large volume of sealant/ adhesive.
- Failure of the machine, its implements or attachments caused by improper field application or loading.
- Any and all costs for coolant, fuel, or lube (oil) analysis including supplies and lab recommendations.
- Cost of initial setup or installation of any optional equipment or attachments to a unit.
- Cost associated with cleaning of machine in preparation for servicing

The signed WLL can be scanned and emailed as an attachment to NA-WLL-AGREEMENT@CNHIND.COM or can be mailed to:

USA mail original to CNH Industrial Capital America LLC, Attn: WLL Agreement, PO Box 1700 New Holland, PA 17557
USA Overnight courier mail original to CNH Industrial Capital America LLC, Attn: WLL Agreement, 500 Diller Ave., New Holland, PA 17557
Canada mail original to CNH Industrial Capital America LLC, Attn: WLL Agreement, 4475 North Service Rd, Suite 301, Burlington, ON L7L4X7 Canada

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