

City of Biddeford
Finance Committee

September 20, 2022 5:00 PM Council Chambers and via Zoom

Please click this URL to join:

<https://biddeford.zoom.us/j/95335814703?pwd=TndzdkEyV3dHK0ZhREhpVHR0U3FTdz09>

Webinar ID: 953 3581 4703

Passcode: 569378

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Status: In-Person and via Zoom; Council Chambers; 5:00 p.m.

Zoom Meeting Link:

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1. Call to order

Adjustment to the Agenda:

Add: Recommendation for Purchase of Grader for Dept. of Public Works

2. Approval of the Minutes

- 2.1. September 6, 2022 Finance Committee Meeting Minutes
[9-06-2022 Finance Committee Minutes.pdf](#)

3. Signing of the expenditure warrant

4. Discussion/Approval

- 4.1. Recommendation: Purchase of Fire Department Command Vehicle/Bill Dodge Buick GMC
[9-20-2022 Fire Command Vehicle-MEMO.docx](#)
[9-20-2022 Fire Command Vehicle-Chief Letter.docx](#)
[9-20-2022 Fire Command Vehicle-ORDER.docx](#)
- 4.2. Recommendation: Purchase of Snow Removal Equipment for Biddeford Municipal Airport/United Construction & Forestry
[9-20-2022 Airport SRE-Loader-Blower-MEMO.docx](#)
[9-20-2022 Airport SRE-Loader-Blower-John Deere Quote.pdf](#)
[9-20-2022 Airport SRE-Loader-Blower-Case Construction Quote.PDF](#)
[9-20-2022 Airport SRE-Loader-Blower-ORDER.docx](#)
- 4.3. Recommendation: Purchase of Grader with Grader Wing and Winter Tires
[9-20-2022 Grader Purchase-John Deere-MEMO.docx](#)
[9-20-2022 Grader Purchase-backup docs.pdf](#)

5. Other Business

6. Adjournment

City of Biddeford
Finance Committee Meeting Minutes
September 6, 2022

The meeting was called to order at 5:30 p.m. by Councilor Norman Belanger.

Present: Mayor Alan Casavant; Councilor Norman Belanger; Councilor Marc Lessard; Councilor William Emhiser; City Manager James Bennett; City Clerk Carmen Bernier; and Finance Director Nichole Wood.

Adjustment to the Agenda
No adjustment to the agenda.

Approval of Minutes of July 19, 2022
Motion by Mayor Casavant, seconded Councilor Emhiser to accept the minutes as printed.

Vote: unanimous.
Motion carries.

Expenditure Warrants:
The Warrants were available for review.

Discussion/Approval
Approval: Purchase of EMS Stretcher Ambulance Lifting System/Stryker
Motion by Mayor Casavant, seconded by Councilor Emhiser to approve the purchase.

Fire Chief Scott Gagne presented this item. He explained the City has three ambulances, noting the last ambulance purchased had this system in it. This year Scott requested it and noted it is part of the CIP procurement.

Vote: unanimous.
Motion carries.

Recommendation: Carry Forward Funds from FY22 to FY23
Motion by Mayor Casavant, seconded by Councilor Emhiser to recommend the approval of these Carry Forwards.

Councilor Lessard noted he may vote in opposition because of the procedure.

Councilor Emhiser asked why some of the projects had not been done and funds used in FY22.

City Manager Jim Bennett explained some of the items and noted this is a normal practice to Carry Forward.

Councilor Lessard would rather the Carry Forwards lapse to the Fund Balance.

Vote: 3/1; Councilor Lessard opposed.
Motion carries.

Approval: Construction Engineering & Inspection Services for Pearl Street - Sewall

Motion by Mayor Casavant, seconded by Councilor Emhiser to recommend the funding of Construction & Inspection Services for the Pearl Street Project, awarded to Sewall.

Councilor Lessard noted we are looking to hire Sewall to help us with the project management of this which will start in earnest immediately and run through the Spring of 2023 not to exceed \$150,000.00. He would rather hire someone for less than \$150,000.00 and have them on the payroll for the next two years and still spend \$150,000.00 as a trainee or something and could still manage the project.

Councilor Belanger asked Brian Phinney if any other alternatives were looked at, if any.

Chief Operating Officer Brian Phinney explained when we originally considered this project and discussed the funding, one of the approaches was an internal Engineer, which we don't have. Another approach was contracting an external Project Manager who works for Public Works and would review daily receipts, other technical elements and have it overseen by the Engineering Staff. In our meetings, Jeff felt that individual would be overtaxed doing this project and the Pearl Street Project.

Councilor Lessard asked if having a vacant position in the Engineering Department has anything to do with going this route. Brian answered yes. Councilor Lessard asked if we have an idea when we can fill the current Engineering position.

City Manager Jim Bennett noted he met with the Team today and they will advertise the position. He anticipates 3 to 4 months before they fill the position.

Councilor Lessard (hypothetically speaking) asked if we could use a \$50,000.00 signing bonus for an Engineer to start working for us by October 1, and they would have enough credentials to be able to help with this project.

Jim noted he would be concerned about the signing bonus, it would have implications and we are not in the bonus game.

Discussion: using bonus to sign on an Engineer.

Vote: 3/1; Councilor Lessard opposed.
Motion carries.

Other Business

Councilor Lessard explained that he voted in opposition to the Carry Forward item because he feels it sets a precedence that Staff doesn't have to work to get projects accomplished because the funds will be forwarded to the next fiscal year.

Motion by Councilor Emhiser, seconded by Councilor Lessard to adjourn.

Vote: unanimous.
Motions carries.
Adjourned at 5:55 pm



Finance Committee – City Council

Meeting Date: September 20, 2022

Meeting Time: 5:00 PM/6:00 PM

Agenda Item No:

Item Description: 2022.78) Authorization/Purchase of Fire Department Command vehicle

Submitted by: Jeff Demers - Public Works Director

Jerry Court, Garage Supervisor

Scott Gagne, Fire Chief

Supporting Information/Documentation:

Bill Dodge price sheet

Fire Chiefs Explanation

Executive Summary:

Approval to purchase 4x4 SUV

Detailed Review:

The public works department is requesting the approval to purchase a 2023 Yukon for the Fire department to replace car 3. Public works department publicly advertised and reached out to the following dealerships. Arundel Ford, Weirs Motors, Rowe Ford, Bill Dodge, Quirk Chevy. We received only (1) Bid.

The only vendor at this time that will give us Government pricing is Bill Dodge

Funding Source:

This vehicle was budgeted in FY2022 CIP

Staff Recommendation:

Staff recommends going forward with purchase from Bill Dodge for a total of \$51,941.50 for this SUV 4X4. Staff will be available for any further questions.



CITY OF BIDDEFORD FIRE DEPARTMENT

152 Alfred Street
Biddeford, Maine 04005
Tel: 207-282-6632
Fax: 207-283-8243

Chief Scott R. Gagne
Assistant Chief Ed Dexter
Deputy Chief Kenneth Thorpe

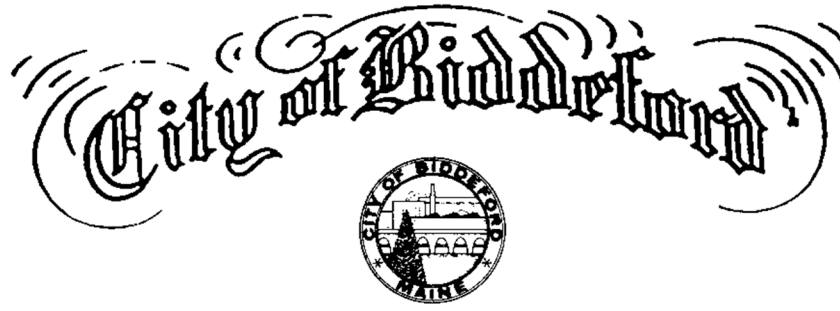
Thank you for your consideration for replacement of the 2009 Command Vehicle. This vehicle is used to help manage Command of emergency scenes to include but no limited to Incident Command, Operations, Accountability, Resource, Safety, Water supply, and Staging.

This unit will be used by a Chief Officer and will be fitted with a Command Operations Center in the rear of it that slides out from the vehicle and has radios, white boards and a large amount of material to control an incident. It also has EMS and firefighting equipment, and material to deal with hazmat and mass casualty incidents.

The vehicle that it is replacing is a 2009 and has come to the end of its life, additionally it is in need of a lot of repairs to keep the vehicle on the road.

Thank you

Scott Gagne



2022.78

IN BOARD OF CITY COUNCIL...SEPTEMBER 20, 2022

BE IT ORDERED, that the City Manager be authorized to enter into an agreement with Bill Dodge Buick GMC for one 2023 GMC Yukon to replace the current Fire Department Command Vehicle, in the amount of \$51,941.50. Funding for the purchase of this vehicle is from the FY22 CIP.

NOTE: The Finance Committee will consider this item at their September 20, 2022 meeting and make a recommendation to the Council.



Finance Committee - City Council

Meeting Date: 9/20/2022

Meeting Time: 5:00 PM/6:00 PM

Agenda Item No:

Item Description: 2022.79) Authorization/Purchase of Loader – RPM Snow Blower for the Biddeford Airport.

Submitted by: Jeff Demers – Jerry Court

Supporting Information/Documentation:

Bid tabulation

General Specifications

Executive Summary:

The public Works Department is seeking approval to purchase (1) John Deere loader and (1) RPM Snow Blower for a total sum of \$465,540 with the assistance of a Department of Transportation (D.O.T) grant of \$400,000.

Detailed Review:

Public works is requesting to purchase a new 2022 John-Deere loader and (1) RPM Snow Blower. Through the services of Gale Associates (Airport Planning and Engineering services) a grant application was submitted to the D.O.T. The City's application received a grant of \$400,000 dollars. A RFB was posted. The following three items were advertised One Loader, Snow Blower and a Snow Pusher blade. Two bids were received. One from United Construction (John-Deere) and one from Beauregard Construction (Case). Both pieces of equipment meet the standards of the Federal Aviation Administration per inches of snow per hour.

Public works is looking for the authorization from finance and council to move forward with the following two pieces of equipment from United Construction. One Loader and One RPM Snow Blower. Staff is requesting the approval of the higher bid from United Construction. United is a vendor of John Deere equipment. John Deere matches today's fleet of public works loaders and snow equipment. This like equipment will allow Public works to help with emergency snow removal if needed. Public works will retain the existing airport loader and blower at no charge.

Funding Source:

John Deere Loader and RPM Snow Blower are being funded by the 2022 Capital Improvement plan.

Staff Recommendation:

Staff is recommending the purchase through United Construction for a total price of \$465,000

- \$400,000 through Maine Department of Transportation Grant
- Remaining Balance of \$65,540 From capital Improvement funds

BID SUMMARY PAGE

**BIDDEFORD MUNICIPAL AIRPORT
BIDDEFORD, MAINE**

PURCHASE SNOW REMOVAL EQUIPMENT (SRE)

MaineDOT PIN: XXXXXX.XX (PENDING)

SCHEDULE OF UNIT PRICES**BASE BID****IMPORTANT: BIDDERS MUST BID ON ALL ITEMS.**

ITEM NO.	ESTIMATED QUANTITY	ITEM DESCRIPTION WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cents
M-002-1	$\frac{1}{\text{LS}}$	Front-End Loader for the unit price per Lump Sum of: <u>TWO HUNDRED SEVENTY SEVEN THOUSAND THIRTY FIVE DOLLARS</u> and _____ cents.	277,035			
M-003-1	$\frac{1}{\text{LS}}$	Attachment: Rotary Plow (Snow Blower) for the unit price per Lump Sum of: <u>ONE HUNDRED EIGHTY EIGHT THOUSAND FIVE HUNDRED FIVE DOLLARS</u> and _____ cents.	188,505			
M-003-2	$\frac{1}{\text{LS}}$	Attachment: Ramp Plow (Snow Pusher) for the unit price per Lump Sum of: <u>THIRTY FOUR THOUSAND THREE HUNDRED SIXTY FIVE DOLLARS</u> and _____ cents.	34,365			

United Construction & Forestry (John Deere) = 465,540 without snow pusher

BASE BID SUMMARY**TOTAL BASE BID:**

FOUR HUNDRED NINETY NINE THOUSAND NINE HUNDRED

(words)

FIVE

dollars

and _____ cents (\$ 499,905 _____).
(figures)

The Owner reserves the right to delete any item of work in whole or in part, in order to meet the available funding.

Amounts are to be shown in both words and figures. In case of Discrepancy, the amount shown in words will govern.

The above unit prices shall include all labor, materials, overhead, profit, insurance, etc., to cover the finished work of the several kinds called for.

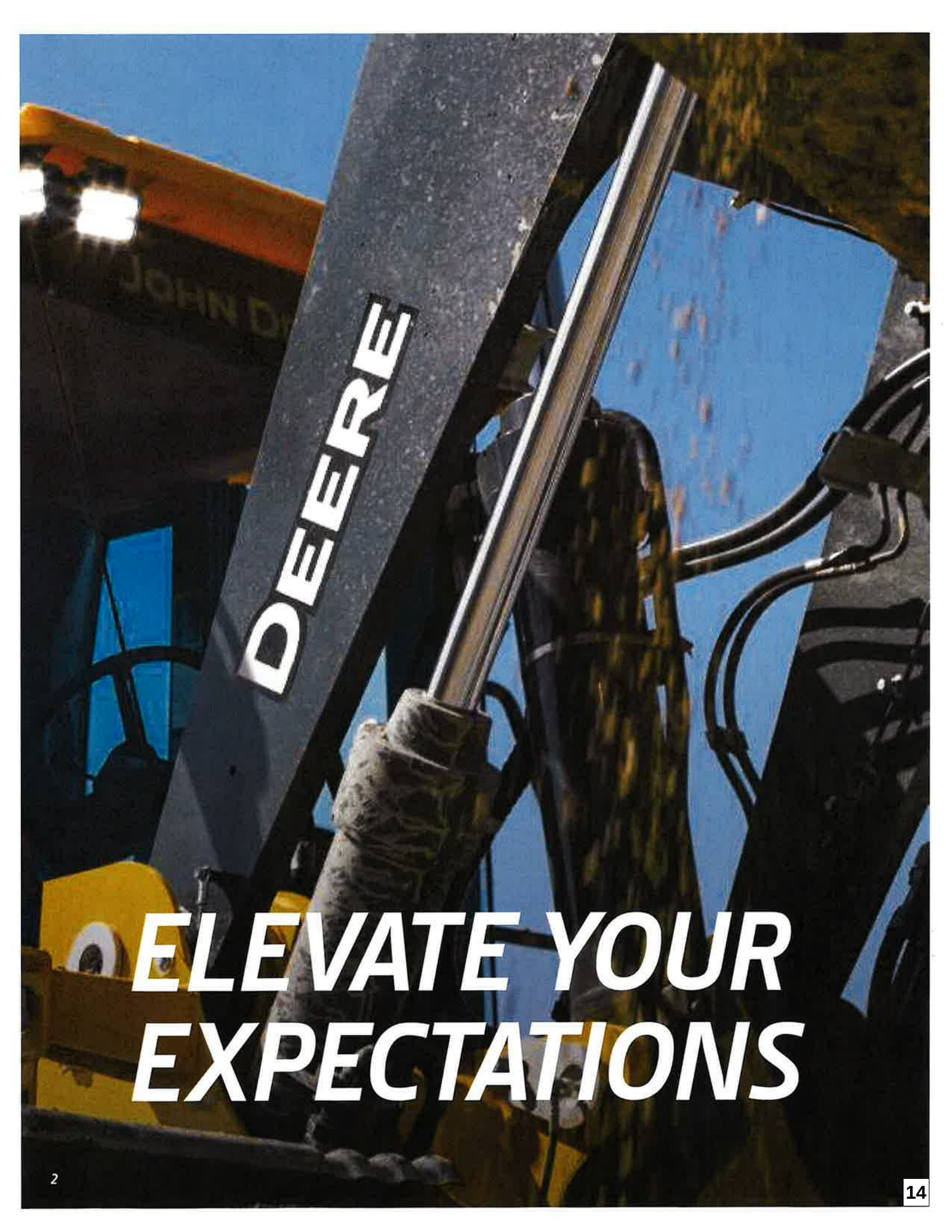
624 P

Wheel Loader



JOHN DEERE





DEERE

***ELEVATE YOUR
EXPECTATIONS***

ABOVE AND BEYOND

MEET THE P-TIER WHEEL LOADERS

When your material-handling application needs a heavy-duty lift, add a P-Tier Wheel Loader to your lineup. Combining convenient front-end features with near-parallel lift, spacious operator stations including customizable ergonomic electrohydraulic (EH) controls, and streamlined electrical and hydraulic routing, these versatile and productive mid-size models are designed to help you take your operation to the next level.



INTUITIVE CONTROLS

Take control

Operators can easily control up to six functions without letting go of the ergonomically designed joystick. Two industry-exclusive multifunction buttons can each be programmed to handle any of up to 10 functions selected through the monitor, including bucket vibrate and EH Precision mode.

The bucket list

A wide selection of enhanced production buckets with integrated spill guards, curved side cutters, and impressive rollback delivers elevated bucket-fill performance and material retention compared to earlier offerings.

Remote diagnostics and support

To maximize uptime and lower costs, JDLink™ connectivity provides machine location, utilization data, and alerts to help you maximize productivity and efficiency. JDLink also enables John Deere Connected Support™. Dealers use Expert Alerts based on data from thousands of connected machines to proactively address conditions that may otherwise likely lead to downtime. Your dealer can also monitor machine health and leverage remote diagnostics and programming capability to further diagnose problems and even update machine software without a time-consuming trip to the jobsite.*

*Availability varies by region. Options not available in every country.

At the forefront

Featuring bucket and linkage designs that improve load leveling, material retention, and visibility, these loaders yield more productivity and performance than previous models.

It's easy to see

Large seven-inch in-cab display with easy-on-the-eyes clarity enables intuitive push-button access to key info. Standard rearview camera displays the activity behind the machine on the color LCD screen.

On your side

All daily service points including fuel refill are conveniently grouped at ground level on the left side of the machine for easy access. Routing of electrical wire harnesses and hydraulic hoses has been streamlined.



624 P

WHEEL LOADER



**VERSATILE BUCKET
+ LINKAGE DESIGNS**



OVERACHIEVERS

ASPIRE TO GO HIGHER.

With handy front-end features and plenty of productivity-boosting enhancements over previous models, our 624 P-Tier Wheel Loader redefines expectations about the heights a utility loader can reach.



Have a seat

Spacious and comfortable cab features extra legroom, an improved HVAC system, additional storage, and a more adjustable seat than earlier models.



Smooth operator

Seat-mounted right-hand joystick features two programmable multifunction buttons and electrohydraulic (EH) controls that are more intuitive to operate compared to our K-Series controls.



Get carried away

Tool Carrier configuration enables a clear view of the coupler and forks, making it easier to quickly move pipes, logs, and pallets.



Pretty big plus

High-Lift Plus configuration provides an additional 24 inches of hinge-pin height over standard lift height and 12 inches over the High-Lift model. All three lift heights feature near-parallel lift.



Clear advantage

Improved visibility to the work tool helps reduce spillage as well as cycle and tool-changeover times. It also helps minimize machine damage when working on crowded jobsites or up against walls.



Step it up

Quad-Cool™ places the radiator, air-conditioner condenser, intercooler, and hydraulic, transmission, and axle coolers in a unique boxed configuration that's isolated from engine heat, boosting efficiency and durability.

624 P-TIER WHEEL LOADER SPECIFICATIONS

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

Engine		624 P-TIER Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS / TOOL CARRIER		
Manufacturer and Model	John Deere PowerTech™ PVS 6068	Gross Peak Torque (ISO 9249)	923 Nm (681 ft.-lb.) at 1,500 rpm	
Non-Road Emission Standard	EPA Final Tier 4/EU Stage V	Net Torque Rise	58% standard	
Cylinders	6	Fuel System (electronically controlled)	High-pressure common rail	
Valves Per Cylinder	4	Lubrication	Full-flow spin-on filter and integral cooler	
Displacement	6.8 L (414 cu. in.)	Aspiration	Turbocharged, charge air cooled	
Net Peak Power (ISO 9249)	143 kW (192 hp) at 1,600 rpm	Air Cleaner	Under-hood, dual-element dry type, restriction indicator in cab monitor for service	
Gross Peak Power (ISO 9249)	152 kW (203 hp) at 1,600 rpm			
Net Peak Torque (ISO 9249)	874 Nm (644 lb.-ft.) at 1,300 rpm			
Cooling				
Fan Drive	Hydraulically driven, proportionally controlled, fan aft of coolers			
Electrical				
Electrical System	24 volt with 130-amp alternator			
Batteries (2 – 12 volt)	950 CCA (each)			
Transmission System				
Type	Countershaft-type PowerShift™			
Torque Converter	Single stage, single phase			
Shift Control	Electronically modulated, adaptive, load and speed dependent			
Operator Interface	Steering-column or joystick-mounted F-N-R and gear-select lever; kick-down button on hydraulic lever			
Shift Modes	Manual/auto (1st-D or 2nd-D); Quick-Shift button with 2 selectable modes: kick-down or kick-up/down; and 4 clutch cutoff settings			
	Standard 5-Speed With Lockup Torque Converter		Optional 5-Speed Without Lockup Torque Converter	
Maximum Travel Speeds (with 20.5 R 25 tires)	Forward	Reverse	Forward	Reverse
Range 1	7.0 km/h (4.3 mph)	6.6 km/h (4.1 mph)	6.3 km/h (3.9 mph)	6.7 km/h (4.1 mph)
Range 2	12.1 km/h (7.5 mph)	12.8 km/h (7.9 mph)	11.4 km/h (7.0 mph)	12.0 km/h (7.4 mph)
Range 3	18.7 km/h (11.6 mph)	30.7 km/h (19.0 mph)	17.5 km/h (10.8 mph)	28.7 km/h (17.8 mph)
Range 4	29.1 km/h (18.1 mph)	N/A	27.2 km/h (16.9 mph)	N/A
Range 5	40.0 km/h (24.8 mph)	N/A	40.0 km/h (24.8 mph)	N/A
Axles/Brakes				
Final Drives	Heavy-duty inboard-mounted planetary			
Differentials	Hydraulic locking front with conventional rear — standard; dual locking front and rear — optional			
Rear Axle Oscillation, Stop to Stop (with 20.5 R 25 tires)	24 deg. (12 deg. each direction)			
Brakes (conform to ISO 3450)				
Service	Hydraulically actuated, spring-retracted, self-adjusting inboard sun-shaft mounted, oil cooled, single disc			
Parking	Automatic spring applied, hydraulically released, driveline mounted, oil-cooled, multi disc			
Tires/Wheels (see page 10 for complete tire adjustments)				
	Tread Width	Width Over Tires		
Michelin 20.5 R 25, 1 Star L-3 XHA2	2053 mm (80.8 in.)	2657 mm (104.6 in.)		
Serviceability				
Refill Capacities		Refill Capacities (continued)		
Fuel Tank (with lockable cap)	299 L (79 gal.)	Axle Oil (each)		
Cooling System	36.5 L (38.6 qt.)	Front	22 L (23 qt.)	
Diesel Exhaust Fluid (DEF)	15.6 L (16.5 qt.)	Rear	17 L (18 qt.)	
Engine Oil With Vertical Spin-On Filter	19.5 L (20.6 qt.)	Hydraulic Reservoir and Filter	102.8 L (27.2 gal.)	
Transmission Reservoir With Vertical Filter	27 L (28.5 qt.)	Park Brake Oil (wet disc)	0.3 L (10 oz.)	
Hydraulic System/Steering				
Pump (loader and steering)	Variable-displacement, axial-piston pump; closed-center, pressure-compensating system			
Maximum Rated Flow at 6895 kPa (1,000 psi) and 2,200 rpm	261 L/m (69 gpm)			
System Relief Pressure (loader and steering)	24 821 kPa (3,675 psi)			
Loader Controls	2-function valve, joystick control or fingertip controls, hydraulic-function enable/disable, optional 3rd- and 4th-function valve with auxiliary lever			
Steering (conforms to ISO 5010)	Steering-column-mounted, twist-grip shift lever; Quick-Shift button on hydraulic lever			
Type	Power, fully hydraulic			
Articulation Angle	80-deg. arc (40 deg. each direction)			
Turning Radius (measured to centerline of outside tire)	5.27 m (17 ft. 4 in.)			

624 P-TIER WHEEL LOADER SPECIFICATIONS

624

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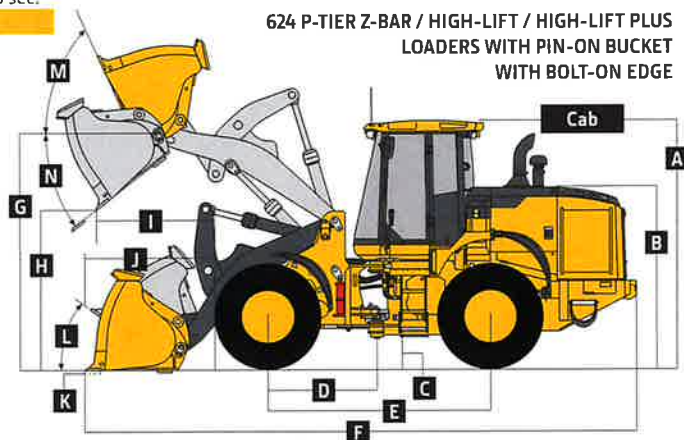
Hydraulic System/Steering (continued) 624 P-TIER Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS / TOOL CARRIER

	Z-Bar / High-Lift / High-Lift Plus	Tool Carrier
Hydraulic Cycle Times		
Raise	5.5 sec.	5.8 sec.
Dump	2.0 sec.	2.5 sec.
Lower (power down)	4.0 sec.	4.0 sec.
Total	11.5 sec.	12.3 sec.

Bucket Capacity Range

Bucket Type	
Pin-On	2.7–2.9 m ³ (3.5–3.75 cu. yd.)
Coupler	1.9–4.0 m ³ (2.5–5.25 cu. yd.)

Dimensions and Specifications With Pin-On Bucket With Bolt-On Edge



624 P-TIER Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS
LOADERS WITH PIN-ON BUCKET
WITH BOLT-ON EDGE

	Z-Bar 2.7-m ³ (3.5 cu. yd.) general purpose	Z-Bar 2.9-m ³ (3.75 cu. yd.) general purpose	High-Lift 2.7-m ³ (3.5 cu. yd.) general purpose	High-Lift 2.9-m ³ (3.75 cu. yd.) general purpose	High-Lift Plus 2.7-m ³ (3.5 cu. yd.) general purpose	High-Lift Plus 2.9-m ³ (3.75 cu. yd.) general purpose
A Height to Top of Cab	3.40 m (11 ft. 2 in.)	3.40 m (11 ft. 2 in.)	3.40 m (11 ft. 2 in.)	3.40 m (11 ft. 2 in.)	3.40 m (11 ft. 2 in.)	3.40 m (11 ft. 2 in.)
B Hood Height	2.46 m (8 ft. 1 in.)	2.46 m (8 ft. 1 in.)	2.46 m (8 ft. 1 in.)	2.46 m (8 ft. 1 in.)	2.46 m (8 ft. 1 in.)	2.46 m (8 ft. 1 in.)
C Ground Clearance	384 mm (15.1 in.)	384 mm (15.1 in.)	384 mm (15.1 in.)	384 mm (15.1 in.)	384 mm (15.1 in.)	384 mm (15.1 in.)
D Length From Centerline to Front Axle	1.52 m (5 ft. 0 in.)	1.52 m (5 ft. 0 in.)	1.52 m (5 ft. 0 in.)	1.52 m (5 ft. 0 in.)	1.52 m (5 ft. 0 in.)	1.52 m (5 ft. 0 in.)
E Wheelbase	3.09 m (10 ft. 1 in.)	3.09 m (10 ft. 1 in.)	3.09 m (10 ft. 1 in.)	3.09 m (10 ft. 1 in.)	3.09 m (10 ft. 1 in.)	3.09 m (10 ft. 1 in.)
F Overall Length, Bucket on Ground	7.76 m (25 ft. 6 in.)	7.83 m (25 ft. 8 in.)	8.22 m (27 ft. 0 in.)	8.22 m (27 ft. 0 in.)	8.52 m (27 ft. 11 in.)	8.58 m (28 ft. 2 in.)
G Height to Hinge Pin, Fully Raised	3.96 m (13 ft. 0 in.)	3.96 m (13 ft. 0 in.)	4.32 m (14 ft. 2 in.)	4.32 m (14 ft. 2 in.)	4.57 m (15 ft. 0 in.)	4.57 m (15 ft. 0 in.)
H Dump Clearance, 45 deg., Full Height	2.84 m (9 ft. 4 in.)	2.80 m (9 ft. 2 in.)	3.20 m (10 ft. 6 in.)	3.16 m (10 ft. 4 in.)	3.46 m (11 ft. 4 in.)	3.41 m (11 ft. 2 in.)
I Reach, 45-deg. Dump, Full Height	1.07 m (3 ft. 6 in.)	1.12 m (3 ft. 8 in.)	1.21 m (4 ft. 0 in.)	1.25 m (4 ft. 1 in.)	1.22 m (4 ft. 0 in.)	1.27 m (4 ft. 2 in.)
J Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	1.59 m (5 ft. 2 in.)	1.61 m (5 ft. 3 in.)	1.98 m (6 ft. 6 in.)	2.00 m (6 ft. 7 in.)	2.20 m (7 ft. 2 in.)	2.22 m (7 ft. 3 in.)
K Maximum Digging Depth	0.10 m (4 in.)	0.11 m (4 in.)	0.20 m (8 in.)	0.21 m (8 in.)	0.20 m (8 in.)	0.20 m (8 in.)
L Maximum Rollback at Ground Level	44 deg.	44 deg.	48 deg.	48 deg.	49 deg.	49 deg.
M Maximum Rollback, Boom Fully Raised	60 deg.	60 deg.	60 deg.	60 deg.	60 deg.	60 deg.
N Maximum Bucket Dump Angle, Fully Raised	48 deg.	48 deg.	46 deg.	46 deg.	45 deg.	45 deg.
Loader Clearance Circle, Bucket Carry Position	12.02 m (39 ft. 5 in.)	12.04 m (39 ft. 6 in.)	12.32 m (40 ft. 5 in.)	12.5 m (41 ft. 0 in.)	12.66 m (41 ft. 6 in.)	12.78 m (41 ft. 11 in.)
Specifications With Bucket With Bolt-On Edge						
Capacity, Heaped	2.7 m ³ (3.5 cu. yd.)	2.9 m ³ (3.75 cu. yd.)	2.7 m ³ (3.5 cu. yd.)	2.9 m ³ (3.75 cu. yd.)	2.7 m ³ (3.5 cu. yd.)	2.9 m ³ (3.75 cu. yd.)
Capacity, Struck	2.2 m ³ (2.9 cu. yd.)	2.4 m ³ (3.1 cu. yd.)	2.2 m ³ (2.9 cu. yd.)	2.4 m ³ (3.1 cu. yd.)	2.2 m ³ (2.9 cu. yd.)	2.4 m ³ (3.1 cu. yd.)
Bucket Weight With Bolt-On Cutting Edge	1196 kg (2,637 lb.)	1239 kg (2,732 lb.)	1196 kg (2,637 lb.)	1239 kg (2,732 lb.)	1196 kg (2,637 lb.)	1239 kg (2,732 lb.)
Bucket Width	2.69 m (8 ft. 10 in.)	2.69 m (8 ft. 10 in.)	2.69 m (8 ft. 10 in.)	2.69 m (8 ft. 10 in.)	2.69 m (8 ft. 10 in.)	2.69 m (8 ft. 10 in.)
Breakout Force	13 605 kg (29,994 lb.)	12 929 kg (28,503 lb.)	13 443 kg (29,638 lb.)	12 774 kg (28,163 lb.)	13 510 kg (29,785 lb.)	12 839 kg (28,304 lb.)
Tipping Load, Straight, No Tire Deflection	13 205 kg (29,113 lb.)	13 116 kg (28,915 lb.)	11 132 kg (24,541 lb.)	11 060 kg (24,383 lb.)	10 297 kg (22,701 lb.)	10 231 kg (22,555 lb.)
Tipping Load, Straight, With Tire Deflection	12 435 kg (27,414 lb.)	12 345 kg (27,216 lb.)	10 563 kg (23,287 lb.)	10 488 kg (23,122 lb.)	9792 kg (21,588 lb.)	9723 kg (21,436 lb.)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	11 439 kg (25,218 lb.)	11 359 kg (25,042 lb.)	9595 kg (21,153 lb.)	9530 kg (21,010 lb.)	8837 kg (19,483 lb.)	8778 kg (19,351 lb.)
Tipping Load, 40-deg. Full Turn, With Tire Deflection	10 425 kg (22,983 lb.)	10 338 kg (22,791 lb.)	8820 kg (19,445 lb.)	8754 kg (19,299 lb.)	8145 kg (17,957 lb.)	8091 kg (17,838 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, No Tire Deflection (conforms to ISO 14397-1)*	5719 kg (12,609 lb.)	5680 kg (12,521 lb.)	4797 kg (10,576 lb.)	4765 kg (10,505 lb.)	4419 kg (9,741 lb.)	4389 kg (9,676 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, With Tire Deflection (conforms to ISO 14397-1)*	5213 kg (11,492 lb.)	5169 kg (11,396 lb.)	4410 kg (9,722 lb.)	4377 kg (9,650 lb.)	4073 kg (8,978 lb.)	4046 kg (8,919 lb.)
Operating Weight	15 747 kg (34,715 lb.)	15 790 kg (34,810 lb.)	15 953 kg (35,171 lb.)	15 996 kg (35,266 lb.)	16 195 kg (35,703 lb.)	16 238 kg (35,798 lb.)

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PVS 6068 (EPA Final Tier 4/EU Stage V) engine, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator. This information is affected by changes in tires, ballast, and different attachments, and assumes no tire deflection per the standard ISO 14397-1 section 5.

*Rated operating capacity based on Deere attachments only.

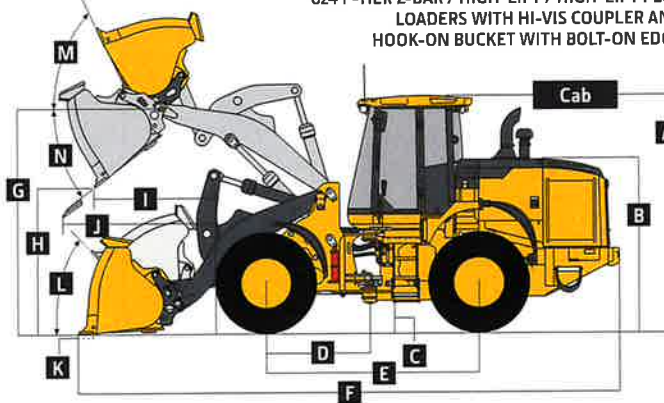
624 P-TIER

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

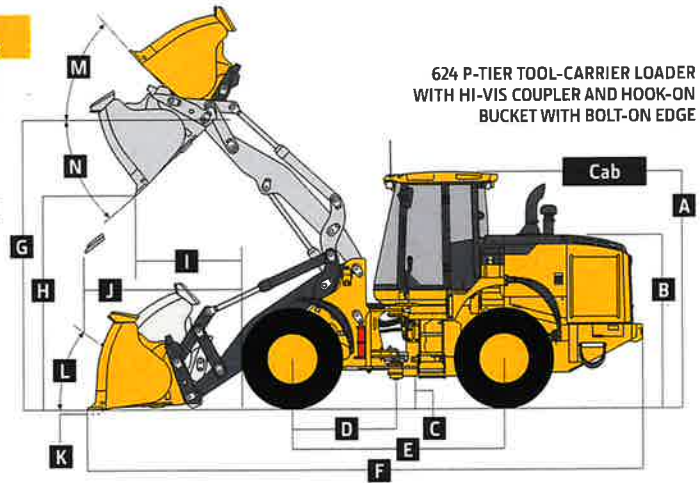
Dimensions and Specifications With Hi-Vis Coupler and Hook-On Bucket With Bolt-On Edge

624 P-TIER Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS / TOOL CARRIER

624 P-TIER Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS LOADERS WITH HI-VIS COUPLER AND HOOK-ON BUCKET WITH BOLT-ON EDGE



624 P-TIER TOOL-CARRIER LOADER WITH HI-VIS COUPLER AND HOOK-ON BUCKET WITH BOLT-ON EDGE



Dimensions With Bucket With Bolt-On Edge (illustrations above)

	Z-Bar 2.7-m³ (3.5 cu. yd.) general purpose	Z-Bar 4.0-m³ (5.25 cu. yd.) light material	High-Lift 2.5-m³ (3.25 cu. yd.) general purpose	High-Lift 3.4-m³ (4.5 cu. yd.) light material	High-Lift Plus 2.3-m³ (3.0 cu. yd.) general purpose	High-Lift Plus 3.1-m³ (4.0 cu. yd.) light material	Tool Carrier 2.7-m³ (3.5 cu. yd.) general purpose	Tool Carrier 3.4-m³ (4.5 cu. yd.) light material
A Height to Top of Cab	3.40 m (11 ft. 2 in.)	3.40 m (11 ft. 2 in.)	3.40 m (11 ft. 2 in.)	3.40 m (11 ft. 2 in.)	3.40 m (11 ft. 2 in.)	3.40 m (11 ft. 2 in.)	3.40 m (11 ft. 2 in.)	3.40 m (11 ft. 2 in.)
B Hood Height	2.46 m (8 ft. 1 in.)	2.46 m (8 ft. 1 in.)	2.46 m (8 ft. 1 in.)	2.46 m (8 ft. 1 in.)	2.46 m (8 ft. 1 in.)	2.46 m (8 ft. 1 in.)	2.46 m (8 ft. 1 in.)	2.46 m (8 ft. 1 in.)
C Ground Clearance	384 mm (15.1 in.)	384 mm (15.1 in.)	384 mm (15.1 in.)	384 mm (15.1 in.)	384 mm (15.1 in.)	384 mm (15.1 in.)	384 mm (15.1 in.)	384 mm (15.1 in.)
D Length From Centerline to Front Axle	1.52 m (5 ft. 0 in.)	1.52 m (5 ft. 0 in.)	1.52 m (5 ft. 0 in.)	1.52 m (5 ft. 0 in.)	1.52 m (5 ft. 0 in.)	1.52 m (5 ft. 0 in.)	1.52 m (5 ft. 0 in.)	1.52 m (5 ft. 0 in.)
E Wheelbase	3.09 m (10 ft. 1 in.)	3.09 m (10 ft. 1 in.)	3.09 m (10 ft. 1 in.)	3.09 m (10 ft. 1 in.)	3.09 m (10 ft. 1 in.)	3.09 m (10 ft. 1 in.)	3.09 m (10 ft. 1 in.)	3.09 m (10 ft. 1 in.)
F Overall Length, Bucket on Ground	7.89 m (25 ft. 11 in.)	8.04 m (26 ft. 5 in.)	8.31 m (27 ft. 3 in.)	8.50 m (27 ft. 11 in.)	8.53 m (28 ft. 0 in.)	8.66 m (28 ft. 5 in.)	7.99 m (26 ft. 2 in.)	8.13 m (26 ft. 8 in.)
G Height to Hinge Pin, Fully Raised	3.96 m (13 ft. 0 in.)	3.96 m (13 ft. 0 in.)	4.32 m (14 ft. 2 in.)	4.32 m (14 ft. 2 in.)	4.57 m (15 ft. 0 in.)	4.57 m (15 ft. 0 in.)	4.00 m (13 ft. 1 in.)	4.00 m (13 ft. 1 in.)
H Dump Clearance, 45 deg., Full Height	2.76 m (9 ft. 1 in.)	2.66 m (8 ft. 9 in.)	3.15 m (10 ft. 4 in.)	3.02 m (9 ft. 11 in.)	3.45 m (11 ft. 4 in.)	3.37 m (11 ft. 1 in.)	2.74 m (9 ft. 0 in.)	2.64 m (8 ft. 8 in.)
I Reach, 45-deg. Dump, Full Height	1.17 m (3 ft. 10 in.)	1.28 m (4 ft. 2 in.)	1.28 m (4 ft. 2 in.)	1.42 m (4 ft. 8 in.)	1.24 m (4 ft. 1 in.)	1.34 m (4 ft. 5 in.)	1.39 m (4 ft. 7 in.)	1.51 m (4 ft. 11 in.)
J Reach, 45-deg. Dump, 2.13 m (7 ft. 0 in.) Clearance	1.64 m (5 ft. 5 in.)	1.69 m (5 ft. 7 in.)	2.03 m (6 ft. 8 in.)	2.10 m (6 ft. 11 in.)	2.21 m (7 ft. 3 in.)	2.27 m (7 ft. 6 in.)	1.83 m (6 ft. 0 in.)	1.89 m (6 ft. 2 in.)
K Maximum Digging Depth	0.10 m (4 in.)	0.11 m (4 in.)	0.20 m (8 in.)	0.21 m (8 in.)	0.19 m (7 in.)	0.19 m (7 in.)	0.13 m (5 in.)	0.13 m (5 in.)
L Maximum Rollback at Ground Level	44 deg.	44 deg.	48 deg.	48 deg.	49 deg.	49 deg.	52 deg.	52 deg.
M Maximum Rollback, Boom Fully Raised	60 deg.	60 deg.	60 deg.	60 deg.	60 deg.	60 deg.	57 deg.	57 deg.
N Maximum Bucket Dump Angle, Fully Raised	48 deg.	48 deg.	46 deg.	45 deg.	45 deg.	45 deg.	50 deg.	50 deg.
Loader Clearance Circle, Bucket Carry Position	12.06 m (39 ft. 7 in.)	12.44 m (40 ft. 10 in.)	12.34 m (40 ft. 6 in.)	12.80 m (42 ft. 0 in.)	12.76 m (41 ft. 11 in.)	13.00 m (42 ft. 8 in.)	12.24 m (40 ft. 2 in.)	12.5 m (41 ft. 0 in.)

Specifications With Bucket With Bolt-On Edge

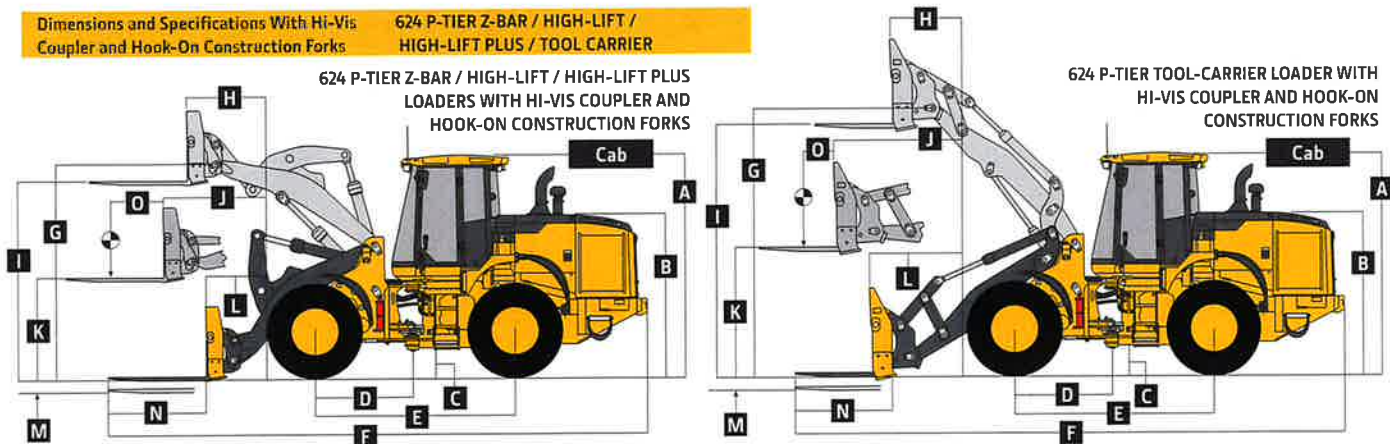
Capacity, Heaped	2.7 m³ (3.5 cu. yd.)	4.0 m³ (5.25 cu. yd.)	2.5 m³ (3.25 cu. yd.)	3.4 m³ (4.5 cu. yd.)	2.3 m³ (3.0 cu. yd.)	3.1 m³ (4.0 cu. yd.)	2.7 m³ (3.5 cu. yd.)	3.4 m³ (4.5 cu. yd.)
Capacity, Struck	2.17 m³ (2.8 cu. yd.)	3.46 m³ (4.53 cu. yd.)	2.1 m³ (2.7 cu. yd.)	2.9 m³ (3.8 cu. yd.)	1.9 m³ (2.4 cu. yd.)	2.6 m³ (3.4 cu. yd.)	1.9 m³ (2.4 cu. yd.)	2.9 m³ (3.8 cu. yd.)
Bucket Weight With Bolt-On Cutting Edge	1655 kg (3,649 lb.)	1925 kg (4,245 lb.)	1633 kg (3,601 lb.)	1843 kg (4,063 lb.)	1586 kg (3,496 lb.)	1780 kg (3,924 lb.)	1437 kg (3,167 lb.)	1626 kg (3,584 lb.)
Bucket Width	2.68 m (8 ft. 10 in.)	3.05 m (10 ft. 0 in.)	2.69 m (8 ft. 10 in.)	2.89 m (9 ft. 6 in.)	2.69 m (8 ft. 10 in.)	2.89 m (9 ft. 6 in.)	2.68 m (8 ft. 10 in.)	2.89 m (9 ft. 6 in.)
Breakout Force	12 161 kg (26,810 lb.)	10 789 kg (23,785 lb.)	13 052 kg (28,776 lb.)	10 709 kg (23,610 lb.)	13 266 kg (29,246 lb.)	11 874 kg (25,731 lb.)	11 477 kg (25,302 lb.)	10 290 kg (22,686 lb.)
Tipping Load, Straight, No Tire Deflection	12 357 kg (27,242 lb.)	11 990 kg (26,434 lb.)	10 624 kg (23,422 lb.)	10 177 kg (22,437 lb.)	9779 kg (21,559 lb.)	9547 kg (20,701 lb.)	11 577 kg (25,523 lb.)	11 544 kg (25,450 lb.)
Tipping Load, Straight, With Tire Deflection	11 613 kg (25,602 lb.)	11 220 kg (24,736 lb.)	10 074 kg (22,209 lb.)	9600 kg (21,164 lb.)	9294 kg (20,490 lb.)	9042 kg (19,577 lb.)	10 920 kg (24,074 lb.)	10 854 kg (23,929 lb.)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	10 652 kg (23,483 lb.)	10 292 kg (22,690 lb.)	9130 kg (20,127 lb.)	8690 kg (19,158 lb.)	8348 kg (18,405 lb.)	8120 kg (17,581 lb.)	9993 kg (22,031 lb.)	9939 kg (21,912 lb.)
Tipping Load, 40-deg. Full Turn, With Tire Deflection	9663 kg (21,303 lb.)	9273 kg (20,443 lb.)	8385 kg (18,486 lb.)	7911 kg (17,441 lb.)	7686 kg (16,945 lb.)	7437 kg (16,032 lb.)	1108 kg (20,080 lb.)	9006 kg (19,855 lb.)
Rated Operating Load, 50% Full-Turn	5326 kg (11,742 lb.)	5146 kg (11,345 lb.)	4565 kg (10,064 lb.)	4345 kg (9,579 lb.)	4174 kg (9,203 lb.)	4060 kg (8,790 lb.)	4997 kg (11,015 lb.)	4970 kg (10,956 lb.)
Tipping Load, No Tire Deflection (conforms to ISO 14397-1)*								
Rated Operating Load, 50% Full-Turn	4832 kg (10,652 lb.)	4637 kg (10,222 lb.)	4193 kg (9,243 lb.)	3956 kg (8,720 lb.)	3843 kg (8,472 lb.)	3719 kg (8,016 lb.)	4554 kg (10,040 lb.)	4503 kg (9,927 lb.)
Tipping Load, With Tire Deflection (conforms to ISO 14397-1)*								
Operating Weight	16 225 kg (35,769 lb.)	16 495 kg (36,365 lb.)	16 410 kg (36,178 lb.)	16 620 kg (36,641 lb.)	16 605 kg (36,607 lb.)	16 799 kg (37,174 lb.)	15 939 kg (35,140 lb.)	16 128 kg (35,556 lb.)

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PVS 6068 (EPA Final Tier 4/EU Stage VI) engine, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator. This information is affected by changes in tires, ballast, and different attachments, and assumes no tire deflection per the standard ISO 14397-1 section 5. / *Rated operating capacity based on Deere attachments only.

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

624 P-TIER

Dimensions and Specifications With Hi-Vis Coupler and Hook-On Construction Forks



624 P-TIER Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS LOADERS WITH HI-VIS COUPLER AND HOOK-ON CONSTRUCTION FORKS

624 P-TIER TOOL-CARRIER LOADER WITH HI-VIS COUPLER AND HOOK-ON CONSTRUCTION FORKS

	Z-Bar	Z-Bar	High-Lift	High-Lift	High-Lift Plus	High-Lift Plus	Tool Carrier	Tool Carrier
	1.52-m (60 in.)	1.83-m (72 in.)	1.52-m (60 in.)	1.83-m (72 in.)	1.52-m (60 in.)	1.83-m (72 in.)	1.52-m (60 in.)	1.83-m (72 in.)
Dimensions With Forks (illustrations above)	tine length	tine length	tine length	tine length	tine length	tine length	tine length	tine length
A Height to Top of Cab	3.40 m (11 ft. 2 in.)	3.40 m (11 ft. 2 in.)	3.40 m (11 ft. 2 in.)	3.40 m (11 ft. 2 in.)	3.40 m (11 ft. 2 in.)	3.40 m (11 ft. 2 in.)	3.40 m (11 ft. 2 in.)	3.40 m (11 ft. 2 in.)
B Hood Height	2.46 m (8 ft. 1 in.)	2.46 m (8 ft. 1 in.)	2.46 m (8 ft. 1 in.)	2.46 m (8 ft. 1 in.)	2.46 m (8 ft. 1 in.)	2.46 m (8 ft. 1 in.)	2.46 m (8 ft. 1 in.)	2.46 m (8 ft. 1 in.)
C Ground Clearance	384 mm (15.1 in.)	384 mm (15.1 in.)	384 mm (15.1 in.)	384 mm (15.1 in.)	384 mm (15.1 in.)	384 mm (15.1 in.)	384 mm (15.1 in.)	384 mm (15.1 in.)
D Length From Centerline to Front Axle	1.52 m (5 ft. 0 in.)	1.52 m (5 ft. 0 in.)	1.52 m (5 ft. 0 in.)	1.52 m (5 ft. 0 in.)	1.52 m (5 ft. 0 in.)	1.52 m (5 ft. 0 in.)	1.52 m (5 ft. 0 in.)	1.52 m (5 ft. 0 in.)
E Wheelbase	3.09 m (10 ft. 1 in.)	3.09 m (10 ft. 1 in.)	3.09 m (10 ft. 1 in.)	3.09 m (10 ft. 1 in.)	3.09 m (10 ft. 1 in.)	3.09 m (10 ft. 1 in.)	3.09 m (10 ft. 1 in.)	3.09 m (10 ft. 1 in.)
F Overall Length, Forks on Ground	8.50 m (27 ft. 11 in.)	8.80 m (28 ft. 11 in.)	8.96 m (29 ft. 5 in.)	9.26 m (30 ft. 5 in.)	9.25 m (30 ft. 4 in.)	9.56 m (31 ft. 4 in.)	8.63 m (28 ft. 4 in.)	8.94 m (29 ft. 4 in.)
G Height to Hinge Pin, Fully Raised	3.96 m (13 ft. 0 in.)	3.96 m (13 ft. 0 in.)	4.32 m (14 ft. 2 in.)	4.32 m (14 ft. 2 in.)	4.57 m (15 ft. 0 in.)	4.57 m (15 ft. 0 in.)	4.00 m (13 ft. 1 in.)	4.00 m (13 ft. 1 in.)
H Reach, Fully Raised	0.81 m (32 in.)	0.81 m (32 in.)	0.95 m (3 ft. 1 in.)	0.95 m (3 ft. 1 in.)	0.95 m (3 ft. 2 in.)	0.96 m (3 ft. 2 in.)	1.05 m (3 ft. 5 in.)	1.05 m (3 ft. 5 in.)
I Fork Height, Fully Raised	3.64 m (11 ft. 11 in.)	3.64 m (11 ft. 11 in.)	4.00 m (13 ft. 2 in.)	4.00 m (13 ft. 2 in.)	4.25 m (13 ft. 11 in.)	4.25 m (13 ft. 11 in.)	3.72 m (12 ft. 2 in.)	3.72 m (12 ft. 2 in.)
J Maximum Reach, Fork Level	1.62 m (5 ft. 4 in.)	1.62 m (5 ft. 4 in.)	1.98 m (6 ft. 6 in.)	1.98 m (6 ft. 6 in.)	2.18 m (7 ft. 2 in.)	2.18 m (7 ft. 2 in.)	1.80 m (5 ft. 11 in.)	1.80 m (5 ft. 11 in.)
K Fork Height, Maximum Reach	1.69 m (5 ft. 7 in.)	1.69 m (5 ft. 7 in.)	1.69 m (5 ft. 7 in.)	1.69 m (5 ft. 7 in.)	1.69 m (5 ft. 7 in.)	1.69 m (5 ft. 7 in.)	1.80 m (5 ft. 11 in.)	1.80 m (5 ft. 11 in.)
L Reach, Ground Level	1.06 m (3 ft. 6 in.)	1.06 m (3 ft. 6 in.)	1.49 m (4 ft. 11 in.)	1.49 m (4 ft. 11 in.)	1.73 m (5 ft. 8 in.)	1.73 m (5 ft. 8 in.)	1.21 m (4 ft. 0 in.)	1.21 m (4 ft. 0 in.)
M Depth Below Ground	77 mm (3 in.)	77 mm (3 in.)	181 mm (7 in.)	181 mm (7 in.)	173 mm (7 in.)	173 mm (7 in.)	173 mm (7 in.)	173 mm (7 in.)
N Tine Length	1.52 m (60 in.)	1.83 m (72 in.)	1.52 m (60 in.)	1.83 m (72 in.)	1.52 m (60 in.)	1.83 m (72 in.)	1.52 m (60 in.)	1.83 m (72 in.)
O Load Position, 50% Tine Length	0.76 m (30 in.)	0.91 m (3 ft. 0 in.)	0.76 m (30 in.)	0.91 m (3 ft. 0 in.)	0.76 m (30 in.)	0.91 m (3 ft. 0 in.)	0.76 m (30 in.)	0.91 m (3 ft. 0 in.)
Specifications With Forks								
Tipping Load, Straight, No Tire Deflection	8808 kg (19,418 lb.)	8328 kg (18,360 lb.)	7736 kg (17,054 lb.)	7342 kg (16,186 lb.)	7296 kg (16,085 lb.)	6937 kg (15,293 lb.)	8505 kg (18,750 lb.)	8061 kg (17,771 lb.)
Tipping Load, Straight, With Tire Deflection	8553 kg (18,856 lb.)	8091 kg (17,838 lb.)	7515 kg (16,568 lb.)	7134 kg (15,728 lb.)	7104 kg (15,662 lb.)	6759 kg (14,901 lb.)	8283 kg (18,261 lb.)	7851 kg (17,308 lb.)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	7602 kg (16,760 lb.)	7178 kg (15,825 lb.)	6639 kg (14,636 lb.)	6291 kg (13,865 lb.)	6232 kg (13,739 lb.)	5915 kg (13,041 lb.)	7350 kg (16,204 lb.)	6957 kg (15,338 lb.)
Tipping Load, 40-deg. Full Turn, With Tire Deflection	7251 kg (15,986 lb.)	6858 kg (15,119 lb.)	6330 kg (13,955 lb.)	6006 kg (13,241 lb.)	5946 kg (13,109 lb.)	5643 kg (12,441 lb.)	7023 kg (15,483 lb.)	6648 kg (14,656 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, With Tire Deflection (conforms to ISO 14397-1 and SAE J1197)*	3626 kg (7,993 lb.)	3429 kg (7,560 lb.)	3165 kg (6,978 lb.)	3003 kg (6,620 lb.)	2973 kg (6,554 lb.)	2822 kg (6,220 lb.)	3512 kg (7,742 lb.)	3324 kg (7,328 lb.)
Rated Operating Load, Rough Terrain, 60% Full-Turn Tipping Load, With Tire Deflection (conforms to EN474-3)*	4351 kg (9,591 lb.)	4115 kg (9,072 lb.)	3798 kg (8,373 lb.)	3604 kg (7,945 lb.)	3568 kg (7,865 lb.)	3386 kg (7,464 lb.)	4214 kg (9,290 lb.)	3989 kg (8,794 lb.)
Rated Operating Load, Firm and Level Ground, 80% Full-Turn Tipping Load, With Tire Deflection (conforms to EN474-3)*	5801 kg (12,789 lb.)	5486 kg (12,095 lb.)	5064 kg (11,164 lb.)	4805 kg (10,593 lb.)	4757 kg (10,487 lb.)	4514 kg (9,953 lb.)	5618 kg (12,386 lb.)	5318 kg (11,725 lb.)
Operating Weight	16 005 kg (35,286 lb.)	16 066 kg (35,420 lb.)	16 213 kg (35,744 lb.)	16 272 kg (35,875 lb.)	16 454 kg (36,274 lb.)	16 516 kg (36,412 lb.)	15 721 kg (34,659 lb.)	15 807 kg (34,849 lb.)

Loader operating information is based on machine with identified linkage and standard equipment, PowerTech PVS 6068 (EPA Final Tier 4/EU Stage V) engine, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator. This information is affected by changes in tires, ballast, and different attachments.

*Rated operating capacity based on Deere attachments only.

624 P-TIER

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

Adjustments to Operating Weights and Tipping Loads With Buckets 624 P-TIER Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS / TOOL CARRIER

Adjustments to operating weights, tipping loads, and tires are based on Z-Bar machine with pin-on 2.7-m³ (3.5 cu. yd.) general-purpose bucket with bolt-on cutting edge, ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator*

	Operating Weight	Tipping Load, Straight	Tipping Load, 40-deg. Full Turn	Tread Width	Width Over Tires	Vertical Height
Michelin 20.5 R 25, 1 Star L-3 XHA2	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	0 mm (0 in.)	0 mm (0 in.)	0 mm (0 in.)
Bridgestone 20.5 R 25, 1 Star L-3 VJT	+4 kg (+9 lb.)	+3 kg (+6 lb.)	+3 kg (+6 lb.)	0 mm (0 in.)	+3 mm (+0.1 in.)	-41 mm (-1.6 in.)
Titan 20.5 R 25, 1 Star L-3 STL3	+8 kg (+19 lb.)	+6 kg (+13 lb.)	+5 kg (+11 lb.)	0 mm (0 in.)	-6 mm (-0.2 in.)	-7 mm (-0.3 in.)
Michelin 20.5 R 25, 1 Star L-2 XTLA	-152 kg (-335 lb.)	-110 kg (-242 lb.)	-97 kg (-214 lb.)	0 mm (0 in.)	+5 mm (+0.2 in.)	-10 mm (-0.4 in.)
Bridgestone 20.5 R 25, 1 Star L-2 VUT	-68 kg (-149 lb.)	-49 kg (-108 lb.)	-43 kg (-95 lb.)	0 mm (0 in.)	+4 mm (+0.2 in.)	-10 mm (-0.4 in.)
Titan 20.5 R 25, 1 Star L-2 TGD2	-116 kg (-255 lb.)	-84 kg (-184 lb.)	-74 kg (-162 lb.)	0 mm (0 in.)	-6 mm (-0.2 in.)	-10 mm (-0.4 in.)
Firestone 20.5-25, 16 PR L-3 SRG Bias	-276 kg (-608 lb.)	-200 kg (-440 lb.)	-176 kg (-388 lb.)	0 mm (0 in.)	+9 mm (+0.4 in.)	+6 mm (+0.2 in.)
Titan 20.5-25, 16 PR L-2 Bias	-232 kg (-511 lb.)	+168 kg (+370 lb.)	-148 kg (-326 lb.)	0 mm (0 in.)	+9 mm (+0.4 in.)	-1 mm (0 in.)
Firestone 20.5-25, 16 PR L-2 SGG Bias	-280 kg (-617 lb.)	-203 kg (-446 lb.)	-178 kg (-393 lb.)	0 mm (0 in.)	+6 mm (+0.2 in.)	+2 mm (+0.1 in.)
Michelin 600/65 R 25, 1 Star L-3T XLD ⁵	+16 kg (+36 lb.)	+12 kg (+26 lb.)	+10 kg (+23 lb.)	0 mm (0 in.)	+95 mm (+3.7 in.)	-31 mm (-1.2 in.)
Michelin 20.5 R 25, L2T XSNO-PLUS	-96 kg (-212 lb.)	-69 kg (-153 lb.)	-61 kg (-135 lb.)	0 mm (0 in.)	+7 mm (+0.3 in.)	-33 mm (-1.3 in.)
Michelin 620/75R26 MegaXbib ^{6R}	-207 kg (-457 lb.)	-150 kg (-331 lb.)	-132 kg (-291 lb.)	+86 mm (+3.4 in.)	+147 mm (+5.8 in.)	+23 mm (+0.9 in.)
Michelin 750/65R26 MegaXbib ^{6R}	+37 kg (+81 lb.)	+27 kg (+58 lb.)	+23 kg (+51 lb.)	+222 mm (+8.7 in.)	+422 mm (+16.6 in.)	+36 mm (+1.4 in.)
CaCl ₂ in 20.5-25, L-3 Rear Tires, 75% Fill	+825 kg (+1,820 lb.)	+1193 kg (+2,631 lb.)	+1051 kg (+2,318 lb.)	N/A	N/A	N/A

*May change based on vehicle configuration, weight, or tire-pressure adjustments.

⁵CaCl₂ not recommended.

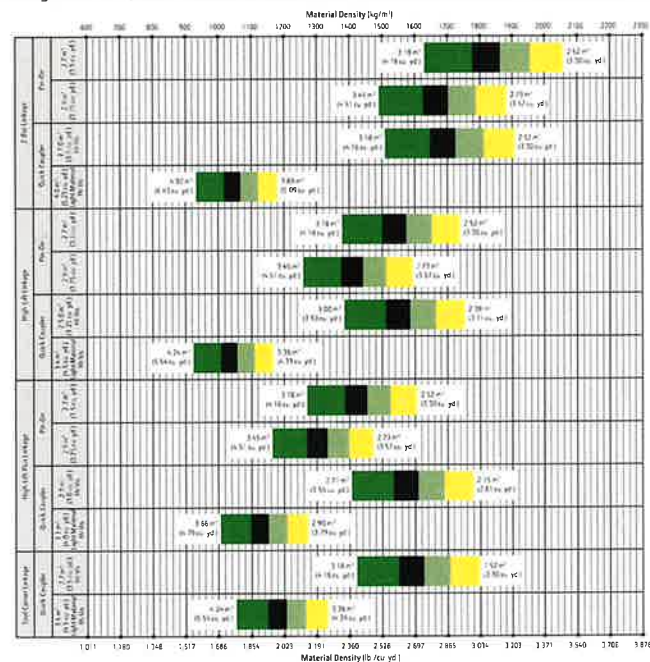
⁶Equipped with 1-piece rims.

⁷Requires 8-deg. rear axle stops.

Bucket Selection Guides

LOOSE MATERIALS	kg/m ³	lb./cu. yd.	LOOSE MATERIALS	kg/m ³	lb./cu. yd.
Chips, pulpwood	288	486	Limestone, coarse, seed	1570	2,646
Cinders (coal), fines, (screened)	673	1,134	Limestone, mixed sizes	1682	2,835
Clay and gravel, dry	1602	2,700	Limestone, pulverized or crushed	1782	2,995
Clay compact, sand	1746	2,943	Sand, damp	2083	3,510
Clay, dry in lump loader	1009	1,701	Sand, dry	1762	2,970
Clay, excavated in water	1282	2,160	Sand, voids, full of water	2083	3,510
Coal, anthracite, broken, loose	865	1,458	Sandstone, quarried	1311	2,214
Coal, bituminous, moderately wet	801	1,350	Shale, broken, crushed	1362	2,295
Earth, common loam, dry	1218	2,052	Slag, furnace granulated	1955	3,294
Earth, mud, packed	1843	3,105	Stone or gravel, 37.5 to 87.5 mm (1.5 to 3.5 in.) size	1442	2,430
Gravel, broken	1538	2,592		1602	2,700
Gypsum	2275	3,834	Stone or gravel, 18.75 mm (0.75 in.) size		

Bucket Fill Factors



Key: ● Standard ▲ Optional or special
See your John Deere dealer for further information.

Additional equipment

624 P Engine

- Wet-sleeve cylinder liners
- Programmable auto-idle and auto shutdown
- Selected idle adjustment from 900–1,250 rpm
- Starter excessive-cranking protection
- Automatic engine cool-down timer
- Automatic derating for exceeded system temperatures
- Serpentine drive belt for automatic tensioner
- Electrical fuel-priming pump
- Dual-stage fuel filter and water separator
- 500-hour vertical spin-on oil filter
- ▲ Engine-compartment light
- ▲ Chrome exhaust stack
- Automatic glow plugs for cold start
- ▲ Engine-block heater (recommended for cold starts below -23 deg. C [-10 deg. F])
- ▲ Centrifugal engine air pre-cleaner
- ▲ Throttle lock

624 P Powertrain

- Clutch cutoff with 4 operator settings: Automatic, level ground, small slope, or steep slope
- Programmable maximum high gear
- Clutch calibration engaged from monitor
- 2,000-hour vertical spin-on transmission filter
- Transmission fill tube and sight gauge
- Transmission diagnostic ports
- ▲ 5-speed transmission with non-lockup torque converter
- 5-speed transmission with lockup torque converter
- Front locking differential
- ▲ Rear locking differential
- Brake retractors and adjusters
- ▲ Automatic differential lock
- Axle oil temperature sensing
- ▲ Wheel-spin control

624 P Quad-Cool™ Cooling System

- Heavy-duty, trash-resistant radiator and high-ambient cooling package
- 2-side access to all coolers
- Isolated from engine compartment
- Engine radiator
- Engine oil cooler
- Hydraulic oil cooler (oil to air)
- Transmission oil cooler (oil to air)
- Charge air cooler (air to air)
- Fuel cooler
- Coolant recovery tank
- Antifreeze, -37 deg. C (-34 deg. F)
- Cool-on-demand, hydraulically driven, swing-out fan
- Enclosed fan safety guard
- ▲ Automatic reversing fan drive
- Axle and service-brake coolers

Additional equipment *(cont.)*

Key: ● Standard ▲ Optional or special

See your John Deere dealer for further information.

624 P Hydraulics

- Electrohydraulic (EH) controls with soft stops and adjustable settings
- In-cab adjustable automatic return-to-dig bucket positioner
- In-cab adjustable automatic boom-height kickout/return to carry
- Reservoir with sight gauge and fill strainer
- Hydraulic diagnostic ports
- 4,000-hour in-tank filter
- 2 function — joystick with F-N-R
- ▲ 2 function — 2-lever fingertip controls and steering column F-N-R
- ▲ 3 function — joystick with F-N-R and integrated 3rd-function roller
- ▲ 3 function — 3-lever fingertip controls and steering column F-N-R
- ▲ 4 function — joystick with F-N-R and integrated 3rd/4th-function rollers
- Programmable multifunction buttons (2)
- Adjustable and continuous hydraulic-flow settings
- Programmable attachment settings
- ▲ Ride control, automatic with monitor-adjustable speed settings
- ▲ Hydraulic control system for quick-coupler locking pins
- ▲ Hydrau™ XR cold-temperature hydraulic fluid recommended below -25 deg. C (-13 deg. F)

Steering Systems

- Conventional steering wheel with spinner knob
- ▲ Secondary steering

Electrical

- Solid-state electrical power-distribution system
- Lockable master electrical-disconnect switch
- Battery-terminal safety covers
- By-pass start safety cover at starter
- Remote jump-start access in battery box
- Pre-wired for beacon/strobe light
- Lights: Halogen driving lights with guards (2) / Front (4), rear cab (2), and rear grille (2) work lights / LED front turn signals and flashers / LED stop- and taillights
- ▲ Premium LED light package (all exterior lights are heavy-duty LED)
- Programmable courtesy lights
- Horn, electric
- Reverse warning alarm
- Multifunction/multi-language 178-mm (7 in.) LCD color monitor includes: Digital instruments — Analog display (hydraulic oil temperature, engine coolant temperature, transmission oil temperature, and engine oil pressure) / Digital display (engine rpm, transmission gear/direction indicator, hour meter, fuel level, diesel exhaust fluid (DEF) level, speedometer, odometer, and average fuel consumption)
- ▲ Multifunction/multi-language 127-mm (5 in.) LCD color monitor includes: Digital instruments — Analog display (hydraulic oil temperature, engine coolant temperature, transmission oil temperature, and engine oil pressure) / Digital display (engine rpm, transmission gear/direction indicator, hour meter, fuel level, DEF level, speedometer, odometer, and average fuel consumption)

624 P Electrical *(continued)*

- ▲ Integrated cycle counter with 5 categories
- Indicator lights: Standard and selected options / Amber caution and red stop
- Operator-warning messages
- Built-in diagnostics: Diagnostic-code details / Sensor values / Calibrations / Individual circuit tester
- ▲ Electrical corrosion-prevention package
- Standard AM/FM/Weather-Band (WB) radio with remote auxiliary port
- ▲ Premium AM/FM/WB radio with Bluetooth®, remote auxiliary port, and remote USB port (premium cab only)
- 24- to 12-volt, 8-amp converter and cab power ports (3)
- ▲ 24- to 12-volt, 15- or 30-amp converter and cab power ports (3)

Operator's Station

- Standard cab with air conditioning/heater (ROPS/FOPS Level 1, isolation mounted)
- ▲ Premium cab with air conditioning/heater (ROPS/FOPS Level 1, isolation mounted)
- ▲ Automatic temperature control (premium cab only)
- Rear window defrost vent
- Keyless start with multiple security modes
- Sealed-switch module with function indicators
- Seat with backrest extension, deep foam, fabric cover, and adjustable air suspension
- ▲ Premium seat with high-wide back- and headrest extension, heated and ventilated, leather/fabric cover, and adjustable heavy-duty air suspension
- Hydraulic controls integrated to seat
- High-visibility, bright-orange seat belt, 76 mm (3 in.), with retractor
- ▲ Seat-belt minder monitoring with JDLink™ and seat-belt indicator beacon
- Cup holder and cup/Thermos® holder with retaining strap
- Lunch-box/cooler holder with tie-down brackets
- Coat hook
- LED dome and reading light
- Rubber floor mat
- Dual-tilt steering column
- Operator's manual storage compartment
- Outside (2) and inside (1) rearview mirrors
- ▲ Heated outside mirrors with convex lens
- ▲ In-cab adjustable heated outside mirrors with convex lens (premium cab only)
- Left-side operator-station access
- Fall-arrest system anchor points tested to 2268 kg (5,000 lb.) on front of cab
- Slip-resistant steps and ergonomic handholds
- Pull-down front sun visor
- Front and rear intermittent windshield wipers and washers
- ▲ Powered cab air pre-cleaner
- ▲ Beacon bracket only

624 P Operator's Station *(continued)*

- ▲ Beacon bracket with strobe beacon
- Rearview camera
- ▲ Rearview camera with radar object-detection system
- ▲ Dedicated 178-mm (7 in.) rear camera display
- Payload scale ready
- ▲ Fire extinguisher

Loader Linkage

- Z-Bar loader linkage (parallel lift)
- ▲ High-Lift Z-Bar loader linkage (parallel lift)
- ▲ High-Lift Plus Z-Bar loader linkage (parallel lift)
- ▲ Tool Carrier linkage for visibility (parallel lift)

Buckets and Attachments

- ▲ Full line of Deere pin-on buckets, coupler buckets, and forks
- ▲ John Deere hydraulic coupler that accepts JRB-pattern attachments
- ▲ Hi-Vis hydraulic coupler that accepts Euro-pattern attachments (ISO)

Overall Vehicle

- JDLink wireless communication system (available in specific countries; see your dealer for details)
- NeverGrease™ rear-axle oscillation
- Front and rear tie-downs
- Rear cast bumper/counterweight with rear hitch and locking pin
- Articulation locking bar
- Loader boom service locking bar
- 40-deg. steering articulation to each side with rubber-cushion stops on frame
- Vandal protection with lockable engine enclosures, right counterweight storage, and filler access for radiator/fuel/DEF/hydraulic transmission
- Left-side service steps and handholds
- ▲ Right-side service steps and handrails
- ▲ Left-side close-mounted steps
- Storage compartment
- Fuel-tank fill strainer
- Heavy-duty fuel-tank guard
- Ground-level fuel and DEF fill
- Same-side ground-level daily servicing
- 20.5R25 tires on 3-piece rims
- ▲ Ag material-handling package
- ▲ Waste handler (Z-Bar and High-Lift)
- ▲ Environmental drains and sample ports for engine, transmission, hydraulic oils, and engine coolant
- Fenders, front narrow
- ▲ Fenders, front full width
- ▲ Fenders, front and rear full width
- ▲ Fenders, front and rear full width with mud flaps
- ▲ Less wheels and tires with axle stops
- ▲ Rims less tires
- ▲ Transmission side-frame and bottom guards
- ▲ Special guarding for waste applications
- ▲ Lift eyes
- ▲ License-plate bracket and light

While general information, pictures, and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions, and in some countries products and accessories may require modifications or additions to ensure compliance with the local regulations of those countries.

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan at test conditions per ISO 9249. No derating is required up to 3050-m (10,000 ft.) altitude. Specifications and design subject to change without notice. Specifications with the exception of bucket capacity are in accordance with all applicable ISO standards. Except where otherwise noted, these specifications are based on a unit with applicable linkage and standard equipment. ROPS cab, rear cast bumper/counterweight, transmission side-frame guards, bottom guards, standard tires, full fuel tank, and 79-kg (175 lb.) operator.



JOHN DEERE

BID SUMMARY PAGE

BIDDEFORD MUNICIPAL AIRPORT
BIDDEFORD, MAINE

PURCHASE SNOW REMOVAL EQUIPMENT (SRE)

MaineDOT PIN: XXXXXX.XX (PENDING)

SCHEDULE OF UNIT PRICES

BASE BID

IMPORTANT: BIDDERS MUST BID ON ALL ITEMS.

ITEM NO.	ESTIMATED QUANTITY	ITEM DESCRIPTION WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE		AMOUNT	
			Dollars	Cents	Dollars	Cents
M-002-1	$\frac{1}{\text{LS}}$	Front-End Loader for the unit price per Lump Sum of: Two hundred forty-seven thousand, five hundred and forty dollars, zero cents. _____ dollars and _____ cents.	247,540.00	0.00	247,540.00	0.00
M-003-1	$\frac{1}{\text{LS}}$	Attachment: Rotary Plow (Snow Blower) for the unit price per Lump Sum of: One hundred eighty-five thousand, nine hundred and seventy -eight dollars, no cents. _____ dollars and _____ cents.	185,978.00	0.00	185,978.00	0.00
M-003-2	$\frac{1}{\text{LS}}$	Attachment: Ramp Plow (Snow Pusher) for the unit price per Lump Sum of: Forty-three thousand, eight hundred and ten dollars, no cents. _____ dollars and _____ cents.	43,810.00	0.00	43,810.00	0.00

Beavregard = 433,518 without snow pusher
(CASE)

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BASE BID SUMMARY**TOTAL BASE BID:**

(words)

Four hundred seventy-seven thousand, three hundred and twenty-eight dollars

And zero _____ cents (\$ \$477,328.00 _____).
(figures)

*Transfer this amount to Projectdog.com
GC E-Bid "Total Base Bid".*

The Owner reserves the right to delete any item of work in whole or in part, in order to meet the available funding.

Amounts are to be shown in both words and figures. In case of Discrepancy, the amount shown in words will govern.

The above unit prices shall include all labor, materials, overhead, profit, insurance, etc., to cover the finished work of the several kinds called for.



ENGINE

Make	FPT
Model	F4HFE613T
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 in³ (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 CR/CP3
Gradeability:	
Side-to-side	35°
Fore and aft	35°
Air filter	Dry type elements w/ warning restriction indicator
Mid-mount cooling module:	Mid-mount air/water
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 Mode:	
Peak gross @ 2000 RPM	195 hp (145 kW)
Net rated @ 2000 RPM	179 hp (133 kW)
Peak net @ 2000 RPM	179 hp (133 kW)
Standard Power Mode:	
Peak gross @ 1700 RPM	176 hp (131 kW)
Net rated @ 2000 RPM	144 hp (107 kW)
Peak net @ 1600 RPM	163 hp (121 kW)
Economy Power Mode:	
Peak gross @ 1400 RPM	147 hp (109 kW)
Net rated @ 2000 RPM	121 hp (90 kW)
Peak net @ 1400 RPM	138 hp (103 kW)

Torque – peak:

Maximum Power Mode:	
Gross @ 1300 RPM	701 lb-ft (950 N-m)
Net @ 1300 RPM	674 lb-ft (914 N-m)
Standard Power Mode:	
Gross @ 1300 RPM	620 lb-ft (841 N-m)
Net @ 1300 RPM	594 lb-ft (805 N-m)
Economy Power Mode:	
Gross @ 1200 RPM	589 lb-ft (799 N-m)
Net @ 1200 RPM	567 lb-ft (768 N-m)

Torque rise:

Maximum power range	37%
---------------------	-----

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	3.745/3.551
2nd	2.184/2.071
3rd	1.072/1.017
4th	0.636/ —
Gear ratios – 5-speed	Forward/Reverse
1st	3.921/3.718
2nd	2.255/2.138
3rd	1.466/0.894
4th	0.942/ —
5th	0.613/ —

Torque converter:

Stall ratio – 4-speed	2.81:1
Stall ratio – 5-speed	2.42:1

Differential:

Limited slip w/ 30% transfer on front and rear axles

Rear axle oscillation	24° total
Front and rear axles:	
Differential ratio	3.4/3.2
Planetary ratio	6.0/6.4
Final axle ratio	20.2/20.4

Heavy-duty axles – optional:

Front axle equipped w/ locking differential
Rear axle equipped w/ open differential

Planetarys	Outboard
------------	----------

Service brakes:

Hydraulically actuated, maintenance-free, multiple wet disc w/ accumulator to all four wheels

Brake surface area:

Front hub – each	600 in² (0.387 m²)
Rear hub – each	600 in² (0.387 m²)

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	4.7 (7.6)	5.0 (8.0)
2nd	7.9 (12.8)	8.4 (13.4)
3rd	15.2 (24.5)	15.9 (25.7)
4th	23.5 (37.8)	—

Travel speeds – 5-speed transmission:

	Forward	Reverse
	mph (kph)	mph (kph)
1st	4.5 (7.2)	4.9 (7.9)
2nd	7.8 (12.6)	8.4 (13.5)
3rd	11.8 (19.0)	19.3 (31.1)
4th	18.3 (29.5)	—
5th	25.0 (40.0)	—

NOTE: Travel speeds at full engine throttle w/ 20.5 x 25 L3 tires.

ELECTRICAL

Voltage	24 Volts, negative ground
Alternator	120 amp
Batteries (2)	12-volt

OPERATOR ENVIRONMENT

ROPS cab AC w/ heat; Key start; Articulated power steering w/ tilt column; Fully adjustable, suspension seat; Foot throttle; Single lever loader control w/ fully adjustable wrist rest, 2 cup holders; 2 interior rear view mirrors; 2 in (51 mm) retractable seat belt; Multiple storage trays; Single brake pedal; F/N/R shuttle switch; External rearview mirrors; Pressurized air filtering; Anti-glare window strip; Front and Rear Defroster; Side window, partial/fully open; 2 Dome lights; Wipers, rear and intermittent front; Windshield washers, front and rear; Rubber floor mat; Horn.

Displays/Gauges:

Digital:

Transmission oil temperature; Hydraulic oil temperature; Fuel Level; Engine coolant temperature; DEF level.

LCD screen:

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

Audible/Visual alarms:

Warning lights:

Four-way flashers and turn signals; Brake pressure; Lamp/high beam indication; Grid heater*.

Caution warnings:

Parking brake; Coolant temperature; Hydraulic oil temperature; Transmission oil temperature; Air filter; Transmission filter; Hydraulic filter; Alternator; Low fuel.

Critical warnings:

Engine oil pressure; Brake pressure; Steering pressure – w/ aux. steering*; Coolant temperature; Hydraulic oil temperature; Transmission oil temperature.

Backup alarm**Maintenance reminders:**

Cab air filter; Engine oil filter; Fuel pre-filter; DEF tank vent filter; SCR supply filter; Hydraulic oil and filter; Engine air filter; Engine coolant drive belt; Cab recirculation filter; Engine breather filter; Transmission breather; Front and rear axle fluid; SCR supply module filter.

NOTE: *If equipped w/ option.

OPERATING WEIGHT**Z-Bar**

Unit equipped w/ 3.25 yd³ (2.5 m³) MD pin on w/ bolt on edge; 20.5-R25 L3 Radial tires; ROPS cab w/ heater and A/C; Std. battery; Heavy counterweight – 2,764 lb (1 254 kg); Front and rear fenders; Lights; Full fuel/urea; 165 lb (75 kg) operator:

32,492 lb (14 738 kg)

XT

Unit equipped w/ 3.0 yd³ (2.3 m³) CNH GP w/ BOE and CNH JRB coupler w/ edge; 20.5-R25 L3 Radial tires; ROPS cab w/ heater and A/C; Std. battery; Heavy counterweight – 2,764 lb (1 254 kg); Front and rear fenders; Lights; Full fuel/urea; 165 lb (75 kg) operator:

33,392 lb (15 146 kg)

XR

Unit equipped w/ 3.0 yd³ (2.3 m³) pin on bucket w/ bolt on edge; 20.5-R25 L3 Radial tires; ROPS cab w/ heater and A/C; Std. battery; Heavy counterweight – 2,764 lb (1 254 kg); Front and rear fenders; Lights; Full fuel/urea; 165 lb (75 kg) operator:

32,851 lb (14 901 kg)

HYDRAULICS**Main pump – steering/implement:**

Closed center pressure/flow compensated

Tandem variable displacement – load-sensing:

Max. rated flow P1: 31.6 gpm @ 2000 RPM
(120 L/min @ 2000 RPM)

Max. rated flow P2: 22.6 gpm @ 2000 RPM
(86 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 47.0 gal (177.8 L)

Transmission:

Service w/ filter 9.0 gal (34.0 L)

Front and rear axle:

Front axle 37.0 qt (35.0 L)

Rear axle 24.3 qt (23.0 L)

Front and rear axle – optional:

Front axle 37.0 qt (35.0 L)

Rear axle 37.0 qt (35.0 L)

Engine oil w/ filter

16.0 qt (15.1 L)

Cooling system

30.0 qt (28.4 L)

OTHER SPECIFICATIONS**Lift cylinder:**

Bore diameter 4.8 in (121 mm)

Rod diameter 3.0 in (76 mm)

Stroke 32.6 in (828 mm)

Dump cylinder – Z-Bar and XR:

Bore diameter 5.8 in (146 mm)

Rod diameter 3.0 in (76 mm)

Stroke 24.8 in (629 mm)

Dump cylinder – XT:

Bore diameter 4.5 in (114 mm)

Rod diameter 2.3 in (57 mm)

Stroke 33.7 in (857 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 5.2 sec

XR 5.2 sec

XT 5.2 sec

Dump w/ rated bucket load:

Z-Bar 1.2 sec

XR 1.2 sec

XT 1.3 sec

Float down:

Z-Bar 2.4 sec

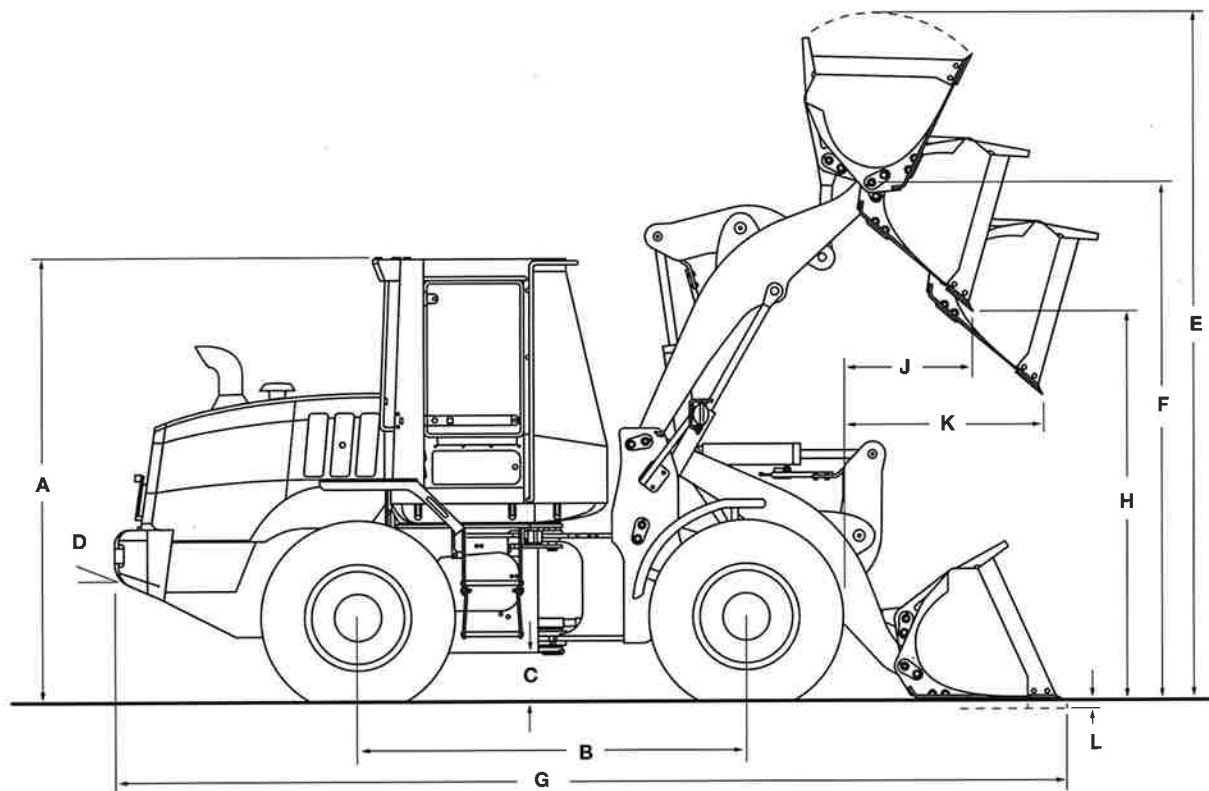
XR 2.4 sec

XT 2.4 sec

Sound level in Cab (LpA) 68 dB(A)

Exterior sound level (LwA) 103 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	133.0 in (3 378 mm)
Height to drawbar	43.5 in (1 105 mm)
B. Wheelbase	128.1 in (3 253 mm)
C. Ground clearance	15.1 in (384 mm)
D. Angle of departure	29°
Width:	
Overall* without bucket	100.7 in (2 558 mm)
Centerline tread	79.9 in (2 030 mm)
Turning radius* – outside	226.3 in (5 748 mm)
Turning angle:	
From center	40°
Total angle	80°
Rear axle oscillation – total	24°

NOTE: *Dimensions taken with 20.5-R25 L3 Radial tires. Additional dimensions on pages 4 through 8.

WEIGHT ADJUSTMENTS

Select Options	Weight Adjustment	Tipping Load Adjustment Straight: Deflected*	Tipping Load Adjustment 40° Turn: Deflected*
20.5 x 25 16 ply L2 Bias tires	-564 lb (-256 kg)	-565 lb (-256 kg)	-810 lb (-367 kg)
20.5 x 25 16 ply L3 Bias tires	-536 lb (-243 kg)	+99 lb (+45 kg)	+184 lb (+83 kg)
20.5-R25 L2 Radial tires	-256 lb (-116 kg)	-262 lb (-119 kg)	-163 lb (-74 kg)
20.5-R25 Snow Radial Tires	-132 lb (-60 kg)	-169 lb (-77 kg)	-80 lb (-36 kg)
20.5-R25 Solid Tires Req. Min Cwt, Lock Diff Axles, Ltd Spd Controller	+5,545 lb (+2 515 kg)	+5,028 lb (+2 281 kg)	+4,744 lb (+2 152 kg)
Light Counterweight	-545 lb (-247 kg)	-1,129 lb (-512 kg)	-878 lb (-398 kg)

NOTE: Unit equipped with Z-Bar loader arms, 3.25 yd³ (2.5 m³) pin on bucket with bolt-on edge, 20.5-R25 L3 Radial tires, ROPS cab with heater and air conditioner, heavy counterweight, heavy-duty batteries, front and rear fenders, full fuel and 165 lb (75 kg) operator. Adjust select options from rated weight.

*Tipping loads: ISO 14397-1 Deflected Tires.

PERFORMANCE SPECS

721G Z-Bar*		3.0 yd³ (2.3 m³) Bucket with Bolt-on Edge - Pin On	2.8 yd³ (2.1 m³) Bucket with Teeth - Pin On	3.25 yd³ (2.5 m³) Bucket with Bolt-on Edge - Pin On
Operating weight		32,403 lb (14 698 kg)	32,301 lb (14 652 kg)	32,492 lb (14 738 kg)
E. Operating height – fully raised with spillguard		203.4 in (5 165 mm)	203.4 in (5 165 mm)	205.7 in (5 225 mm)
F. Hinge pin height – fully raised		156.5 in (3 976 mm)	156.5 in (3 976 mm)	156.5 in (3 976 mm)
G. Overall length – bucket level on ground		299.4 in (7 606 mm)	305.2 in (7 753 mm)	301.6 in (7 660 mm)
Dump angle – fully raised		50°	50°	50°
H. Dump height – fully raised, 45° dump		116.6 in (2 962 mm)	112.9 in (2 868 mm)	115.2 in (2 926 mm)
J. Bucket reach – fully raised, 45° dump		42.6 in (1 081 mm)	47.1 in (1 196 mm)	44.2 in (1 123 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump		64.1 in (1 628 mm)	66.9 in (1 700 mm)	65.1 in (1 654 mm)
L. Dig depth		3.0 in (77 mm)	3.0 in (75 mm)	3.0 in (77 mm)
Operating load – ISO Rigid Tires		11,897 lb (5 397 kg)	12,150 lb (5 511 kg)	11,825 lb (5 364 kg)
Operating load – ISO Deflected Tires		10,373 lb (4 705 kg)	10,592 lb (4 804 kg)	10,294 lb (4 669 kg)
Maximum material density – ISO Rigid Tires		3,966 lb/yd ³ (2 353 kg/m ³)	4,339 lb/yd ³ (2 575 kg/m ³)	3,639 lb/yd ³ (2 159 kg/m ³)
Maximum material density – ISO Deflected Tires		3,458 lb/yd ³ (2 052 kg/m ³)	3,783 lb/yd ³ (2 245 kg/m ³)	3,167 lb/yd ³ (1 879 kg/m ³)
Tipping load – ISO Rigid Tires:	Straight	27,355 lb (12 408 kg)	27,916 lb (12 663 kg)	27,204 lb (12 340 kg)
	40° turn	23,795 lb (10 793 kg)	24,300 lb (11 022 kg)	23,651 lb (10 728 kg)
Tipping load – ISO Deflected Tires:	Straight	25,490 lb (11 562 kg)	26,006 lb (11 796 kg)	25,330 lb (11 489 kg)
	40° turn	20,745 lb (9 410 kg)	21,184 lb (9 609 kg)	20,587 lb (9 338 kg)
Lift capacity:	Full height	16,135 lb (7 319 kg)	16,247 lb (7 369 kg)	16,046 lb (7 278 kg)
	Ground	30,124 lb (13 664 kg)	30,568 lb (13 865 kg)	29,913 lb (13 568 kg)
Breakout force with tilt cylinder		33,810 lb (15 336 kg)	36,573 lb (16 589 kg)	32,158 lb (14 587 kg)
Loader clearance circle with bucket		496.3 in (12 606 mm)	500.0 in (12 701 mm)	497.5 in (12 636 mm)

721G XR		3.0 yd³ (2.3 m³) Bucket with Bolt-on Edge - Pin On	2.8 yd³ (2.1 m³) Bucket with Teeth - Pin On	3.25 yd³ (2.5 m³) Bucket with Bolt-on Edge - Pin On
Operating weight		32,851 lb (14 901 kg)	32,748 lb (14 854 kg)	32,939 lb (14 941 kg)
E. Operating height – fully raised with spillguard		218.9 in (5 560 mm)	218.9 in (5 560 mm)	221.2 in (5 620 mm)
F. Hinge pin height – fully raised		172.1 in (4 371 mm)	172.1 in (4 371 mm)	172.1 in (4 370 mm)
G. Overall length – bucket level on ground		313.5 in (7 963 mm)	319.3 in (8 111 mm)	315.7 in (8 018 mm)
Dump angle – fully raised		50°	50°	50°
H. Dump height – fully raised, 45° dump		132.1 in (3 356 mm)	128.4 in (3 262 mm)	130.8 in (3 321 mm)
J. Bucket reach – fully raised, 45° dump		42.6 in (1 082 mm)	47.1 in (1 197 mm)	44.2 in (1 124 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump		76.2 in (1 937 mm)	79.3 in (2 014 mm)	77.3 in (1 965 mm)
L. Dig depth		3.1 in (79 mm)	3.0 in (77 mm)	3.1 in (79 mm)
Operating load – ISO Rigid Tires		9,983 lb (4 528 kg)	10,187 lb (4 621 kg)	9,915 lb (4 497 kg)
Operating load – ISO Deflected Tires		8,805 lb (3 994 kg)	8,987 lb (4 076 kg)	8,732 lb (3 961 kg)
Maximum material density – ISO Rigid Tires		3,328 lb/yd ³ (1 975 kg/m ³)	3,638 lb/yd ³ (2 159 kg/m ³)	3,051 lb/yd ³ (1 810 kg/m ³)
Maximum material density – ISO Deflected Tires		2,935 lb/yd ³ (1 742 kg/m ³)	3,210 lb/yd ³ (1 904 kg/m ³)	2,687 lb/yd ³ (1 594 kg/m ³)
Tipping load – ISO Rigid Tires:	Straight	23,078 lb (10 468 kg)	23,527 lb (10 672 kg)	22,935 lb (10 403 kg)
	40° turn	19,967 lb (9 057 kg)	20,373 lb (9 241 kg)	19,830 lb (8 995 kg)
Tipping load – ISO Deflected Tires:	Straight	21,678 lb (9 833 kg)	22,099 lb (10 024 kg)	21,528 lb (9 765 kg)
	40° turn	17,610 lb (7 988 kg)	17,974 lb (8 153 kg)	17,463 lb (7 921 kg)
Lift capacity:	Full height	15,025 lb (6 815 kg)	15,135 lb (6 865 kg)	14,936 lb (6 775 kg)
	Ground	25,085 lb (11 378 kg)	25,444 lb (11 541 kg)	24,897 lb (11 293 kg)
Breakout force with tilt cylinder		33,706 lb (15 289 kg)	36,459 lb (16 537 kg)	32,058 lb (14 541 kg)
Loader clearance circle with bucket		509.7 in (12 945 mm)	513.9 in (13 052 mm)	511.0 in (12 980 mm)

721G		Z-Bar/XR	Z-Bar/XR	Z-Bar/XR
Maximum rollback:	Ground	40°/37°	40°/37°	40°/37°
	Carry position	44°/43°	44°/43°	44°/43°
	@ Full height	57°/57°	57°/57°	57°/57°
Maximum grading angle with bucket – back dragging		58°/58°	59°/58°	58°/58°
SAE bucket capacity – struck		2.56 yd ³ (1.96 m ³)	2.42 yd ³ (1.85 m ³)	2.78 yd ³ (2.13 m ³)
	Heaped	3.00 yd ³ (2.29 m ³)	2.80 yd ³ (2.14 m ³)	3.25 yd ³ (2.48 m ³)
Bucket width – outside		106.3 in (2 700 mm)	106.8 in (2 713 mm)	106.3 in (2 700 mm)
Bucket weight		2,540 lb (1 152 kg)	2,438 lb (1 106 kg)	2,629 lb (1 192 kg)

PERFORMANCE SPECS

721G Z-Bar*		3.0 yd ³ (2.3 m ³) Bucket with Teeth - Pin On	3.5 yd ³ (2.7 m ³) Bucket with Bolt-on Edge - Pin On	3.5 yd ³ (2.7 m ³) Bucket with Bolt-on Edge & Grapple - Pin On
Operating weight		32,390 lb (14 692 kg)	32,633 lb (14 802 kg)	34,425 lb (15 615 kg)
E. Operating height – fully raised with spillguard		205.7 in (5 225 mm)	208.4 in (5 294 mm)	273.2 in (6 941 mm)
F. Hinge pin height – fully raised		156.5 in (3 976 mm)	156.5 in (3 976 mm)	156.4 in (3 973 mm)
G. Overall length – bucket level on ground		307.3 in (7 805 mm)	304.0 in (7 721 mm)	304.0 in (7 721 mm)
Dump angle – fully raised		50°	50°	50°
H. Dump height – fully raised, 45° dump		111.6 in (2 834 mm)	113.7 in (2 888 mm)	113.6 in (2 886 mm)
J. Bucket reach – fully raised, 45° dump		48.6 in (1 236 mm)	46.0 in (1 169 mm)	46.0 in (1 167 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump		67.8 in (1 723 mm)	66.2 in (1 682 mm)	66.1 in (1 680 mm)
L. Dig depth		3.0 in (75 mm)	3.0 in (77 mm)	3.1 in (80 mm)
Operating load – ISO Rigid Tires		12,005 lb (5 445 kg)	11,711 lb (5 312 kg)	10,837 lb (4 915 kg)
Operating load – ISO Deflected Tires		10,450 lb (4 740 kg)	10,174 lb (4 615 kg)	9,269 lb (4 204 kg)
Maximum material density – ISO Rigid Tires		4,002 lb/yd ³ (2 374 kg/m ³)	3,346 lb/yd ³ (1 985 kg/m ³)	3,096 lb/yd ³ (1 837 kg/m ³)
Maximum material density – ISO Deflected Tires		3,483 lb/yd ³ (2 067 kg/m ³)	2,907 lb/yd ³ (1 725 kg/m ³)	2,648 lb/yd ³ (1 571 kg/m ³)
Tipping load - ISO Rigid Tires:	Straight	27,597 lb (12 518 kg)	26,963 lb (12 230 kg)	25,214 lb (11 437 kg)
	40° turn	24,010 lb (10 891 kg)	23,423 lb (10 624 kg)	21,674 lb (9 831 kg)
Tipping load - ISO Deflected Tires:	Straight	25,691 lb (11 653 kg)	25,081 lb (11 377 kg)	23,297 lb (10 567 kg)
	40° turn	20,901 lb (9 480 kg)	20,348 lb (9 230 kg)	18,537 lb (8 408 kg)
Lift capacity:	Full height	16,155 lb (7 328 kg)	15,904 lb (7 214 kg)	14,116 lb (6 403 kg)
	Ground	30,217 lb (13 706 kg)	29,622 lb (13 436 kg)	27,759 lb (12 591 kg)
Breakout force with tilt cylinder		34,749 lb (15 762 kg)	30,485 lb (13 828 kg)	28,621 lb (12 982 kg)
Loader clearance circle with bucket		501.2 in (12 731 mm)	498.8 in (12 671 mm)	498.8 in (12 670 mm)

721G XR		3.0 yd ³ (2.3 m ³) Bucket with Teeth - Pin On	3.5 yd ³ (2.7 m ³) Bucket with Bolt-on Edge - Pin On	3.5 yd ³ (2.7 m ³) Bucket with Bolt-on Edge & Grapple - Pin On
Operating weight		32,837 lb (14 895 kg)	33,080 lb (15 005 kg)	34,872 lb (15 818 kg)
E. Operating height – fully raised with spillguard		221.2 in (5 620 mm)	224.0 in (5 689 mm)	288.8 in (7 335 mm)
F. Hinge pin height – fully raised		172.1 in (4 371 mm)	172.1 in (4 370 mm)	172.0 in (4 368 mm)
G. Overall length – bucket level on ground		321.4 in (8 163 mm)	318.1 in (8 078 mm)	318.0 in (8 078 mm)
Dump angle – fully raised		50°	50°	50°
H. Dump height – fully raised, 45° dump		127.1 in (3 229 mm)	129.2 in (3 282 mm)	129.2 in (3 281 mm)
J. Bucket reach – fully raised, 45° dump		48.7 in (1 237 mm)	46.1 in (1 170 mm)	46.0 in (1 168 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump		80.3 in (2 039 mm)	78.5 in (1 995 mm)	78.5 in (1 993 mm)
L. Dig depth		3.1 in (78 mm)	3.1 in (80 mm)	3.2 in (82 mm)
Operating load – ISO Rigid Tires		10,064 lb (4 565 kg)	9,809 lb (4 449 kg)	8,926 lb (4 049 kg)
Operating load – ISO Deflected Tires		8,865 lb (4 021 kg)	8,621 lb (3 911 kg)	7,713 lb (3 499 kg)
Maximum material density – ISO Rigid Tires		3,355 lb/yd ³ (1 991 kg/m ³)	2,803 lb/yd ³ (1 663 kg/m ³)	2,550 lb/yd ³ (1 513 kg/m ³)
Maximum material density – ISO Deflected Tires		2,955 lb/yd ³ (1 753 kg/m ³)	2,463 lb/yd ³ (1 462 kg/m ³)	2,204 lb/yd ³ (1 308 kg/m ³)
Tipping load – ISO Rigid Tires:	Straight	23,258 lb (10 550 kg)	22,712 lb (10 302 kg)	20,946 lb (9 501 kg)
	40° turn	20,127 lb (9 130 kg)	19,619 lb (8 899 kg)	17,853 lb (8 098 kg)
Tipping load – ISO Deflected Tires:	Straight	21,831 lb (9 902 kg)	21,299 lb (9 661 kg)	19,506 lb (8 848 kg)
	40° turn	17,729 lb (8 042 kg)	17,243 lb (7 821 kg)	15,426 lb (6 997 kg)
Lift capacity:	Full height	15,044 lb (6 824 kg)	14,794 lb (6 710 kg)	13,005 lb (5 899 kg)
	Ground	25,151 lb (11 408 kg)	24,637 lb (11 175 kg)	22,768 lb (10 327 kg)
Breakout force with tilt cylinder		34,641 lb (15 713 kg)	30,391 lb (13 785 kg)	28,529 lb (12 940 kg)
Loader clearance circle with bucket		515.2 in (13 087 mm)	512.6 in (13 020 mm)	512.5 in (13 019 mm)

721G		Z-Bar/XR	Z-Bar/XR	Z-Bar/XR
Maximum rollback:	Ground	40°/37°	40°/37°	40°/37°
	Carry position	44°/43°	44°/43°	44°/43°
	@ Full height	57°/57°	57°/57°	57°/57°
Maximum grading angle with bucket – back dragging		59°/59°	59°/58°	59°/58°
SAE bucket capacity – struck		2.62 yd ³ (2.00 m ³)	3.00 yd ³ (2.29 m ³)	3.00 yd ³ (2.29 m ³)
	Heaped	3.00 yd ³ (2.29 m ³)	3.50 yd ³ (2.68 m ³)	3.50 yd ³ (2.68 m ³)
Bucket width – outside		106.8 in (2 713 mm)	106.3 in (2 700 mm)	106.3 in (2 700 mm)
Bucket weight		2,526 lb (1 146 kg)	2,769 lb (1 256 kg)	4,561 lb (2 069 kg)

PERFORMANCE SPECS

721G Z-Bar*

	5.5 yd ³ (4.2 m ³) Bucket with Bolt-on Edge - Pin On	3.0 yd ³ (2.3 m ³) Bucket with Bolt-on Edge - ACS Coupler	2.8 yd ³ (2.14 m ³) Bucket with Teeth - ACS Coupler
Operating weight	33,265 lb (15 089 kg)	33,414 lb (15 156 kg)	33,312 lb (15 110 kg)
E. Operating height – fully raised with spillguard	223.0 in (5 665 mm)	208.6 in (5 298 mm)	208.6 in (5 298 mm)
F. Hinge pin height – fully raised	156.5 in (3 975 mm)	156.5 in (3 975 mm)	156.5 in (3 975 mm)
G. Overall length – bucket level on ground	320.2 in (8 132 mm)	307.2 in (7 802 mm)	312.9 in (7 948 mm)
Dump angle – fully raised	50°	50°	50°
H. Dump height – fully raised, 45° dump	102.9 in (2 613 mm)	111.6 in (2 835 mm)	107.9 in (2 741 mm)
J. Bucket reach – fully raised, 45° dump	56.7 in (1 439 mm)	48.4 in (1 231 mm)	52.8 in (1 342 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	71.1 in (1 806 mm)	67.7 in (1 719 mm)	70.2 in (1 782 mm)
L. Dig depth	4.5 in (114 mm)	3.1 in (78 mm)	3.1 in (78 mm)
Operating load – ISO Rigid Tires	10,822 lb (4 909 kg)	10,798 lb (4 898 kg)	10,962 lb (4 972 kg)
Operating load – ISO Deflected Tires	9 330 lb (4 232 kg)	9,357 lb (4 244 kg)	9,501 lb (4 310 kg)
Maximum material density – ISO Rigid Tires	1,968 lb/yd ³ (1 168 kg/m ³)	3,599 lb/yd ³ (2 136 kg/m ³)	3,915 lb/yd ³ (2 323 kg/m ³)
Maximum material density – ISO Deflected Tires	1,696 lb/yd ³ (1 007 kg/m ³)	3,119 lb/yd ³ (1 851 kg/m ³)	3,393 lb/yd ³ (2 013 kg/m ³)
Tipping load – ISO Rigid Tires:			
Straight	25,027 lb (11 352 kg)	24,973 lb (11 327 kg)	25,332 lb (11 491 kg)
40° turn	21,644 lb (9 817 kg)	21,595 lb (9 796 kg)	21,924 lb (9 945 kg)
Tipping load – ISO Deflected Tires:			
Straight	23,208 lb (10 527 kg)	23,222 lb (10 533 kg)	23,554 lb (10 684 kg)
40° turn	18,660 lb (8 464 kg)	18,714 lb (8 488 kg)	19,002 lb (8 619 kg)
Lift capacity:			
Full height	15,247 lb (6 916 kg)	15,111 lb (6 854 kg)	15,219 lb (6 903 kg)
Ground	27,872 lb (12 643 kg)	27,954 lb (12 680 kg)	28,241 lb (12 810 kg)
Breakout force with tilt cylinder	22,682 lb (10 288 kg)	28,136 lb (12 762 kg)	30,175 lb (13 687 kg)
Loader clearance circle with bucket	508.7 in (12 921 mm)	500.7 in (12 717 mm)	504.6 in (12 816 mm)

721G XR

	5.5 yd ³ (4.2 m ³) Bucket with Bolt-on Edge - Pin On	3.0 yd ³ (2.3 m ³) Bucket with Bolt-on Edge - ACS Coupler	2.8 yd ³ (2.14 m ³) Bucket with Teeth - ACS Coupler
Operating weight	33,712 lb (15 292 kg)	33,861 lb (15 359 kg)	33,759 lb (15 313 kg)
E. Operating height – fully raised with spillguard	238.6 in (6 060 mm)	224.1 in (5 692 mm)	224.1 in (5 692 mm)
F. Hinge pin height – fully raised	172.0 in (4 369 mm)	172.0 in (4 369 mm)	172.0 in (4 369 mm)
G. Overall length – bucket level on ground	334.1 in (8 486 mm)	321.2 in (8 159 mm)	327.0 in (8 305 mm)
Dump angle – fully raised	50°	50°	50°
H. Dump height – fully raised, 45° dump	118.4 in (3 008 mm)	127.1 in (3 230 mm)	123.5 in (3 136 mm)
J. Bucket reach – fully raised, 45° dump	56.7 in (1 440 mm)	48.5 in (1 232 mm)	52.9 in (1 343 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	84.1 in (2 135 mm)	80.1 in (2 034 mm)	82.8 in (2 103 mm)
L. Dig depth	4.6 in (116 mm)	3.2 in (81 mm)	3.2 in (81 mm)
Operating load – ISO Rigid Tires	9,045 lb (4 103 kg)	9,033 lb (4 097 kg)	9,171 lb (4 160 kg)
Operating load – ISO Deflected Tires	7,886 lb (3 577 kg)	7,909 lb (3 587 kg)	8,032 lb (3 643 kg)
Maximum material density – ISO Rigid Tires	1,644 lb/yd ³ (976 kg/m ³)	3,011 lb/yd ³ (1 787 kg/m ³)	3,275 lb/yd ³ (1 943 kg/m ³)
Maximum material density – ISO Deflected Tires	1,434 lb/yd ³ (851 kg/m ³)	2,636 lb/yd ³ (1 564 kg/m ³)	2,869 lb/yd ³ (1 702 kg/m ³)
Tipping load – ISO Rigid Tires:			
Straight	21,056 lb (9 551 kg)	21,033 lb (9 541 kg)	21,332 lb (9 676 kg)
40° turn	18,089 lb (8 205 kg)	18,066 lb (8 195 kg)	18,341 lb (8 319 kg)
Tipping load – ISO Deflected Tires:			
Straight	19,682 lb (8 928 kg)	19,703 lb (8 937 kg)	19,984 lb (9 065 kg)
40° turn	15,771 lb (7 154 kg)	15,817 lb (7 174 kg)	16,065 lb (7 287 kg)
Lift capacity:			
Full height	14,139 lb (6 413 kg)	14,003 lb (6 351 kg)	14,110 lb (6 400 kg)
Ground	23,100 lb (10 478 kg)	23,201 lb (10 524 kg)	23,442 lb (10 633 kg)
Breakout force with tilt cylinder	22,638 lb (10 268 kg)	28,045 lb (12 721 kg)	30,078 lb (13 643 kg)
Loader clearance circle with bucket	523.8 in (13 304 mm)	514.7 in (13 073 mm)	519.0 in (13 183 mm)

721G

	Z-Bar/XR	Z-Bar/XR	Z-Bar/XR
Maximum rollback:			
Ground	41°/38°	40°/37°	40°/37°
Carry position	44°/43°	44°/43°	44°/43°
@ Full height	57°/57°	57°/57°	57°/57°
Maximum grading angle with bucket – back dragging	63°/61°	60°/59°	61°/60°
SAE bucket capacity – struck	4.44 yd ³ (3.39 m ³)	2.56 yd ³ (1.96 m ³)	2.42 yd ³ (1.85 m ³)
Heaped	5.50 yd ³ (4.21 m ³)	3.00 yd ³ (2.29 m ³)	2.80 yd ³ (2.14 m ³)
Bucket width – outside	106.3 in (2 700 mm)	106.3 in (2 700 mm)	106.8 in (2 713 mm)
Bucket weight	3,402 lb (1 543 kg)	3,551 lb (1 611 kg)	3,449 lb (1 564 kg)

PERFORMANCE SPECS

721G Z-Bar*		3.0 yd ³ (2.3 m ³) Bucket with Bolt-on-Edge - JRB Coupler	2.8 yd ³ (2.14 m ³) Bucket with Teeth - JRB Coupler
Operating weight		33,344 lb (15 124 kg)	33,241 lb (15 078 kg)
E. Operating height – fully raised with spillguard		210.9 in (5 356 mm)	210.9 in (5 356 mm)
F. Hinge pin height – fully raised		156.5 in (3 975 mm)	156.5 in (3 975 mm)
G. Overall length – bucket level on ground		310.0 in (7 873 mm)	315.9 in (8 025 mm)
Dump angle – fully raised		50°	50°
H. Dump height – fully raised, 45° dump		109.9 in (2 791 mm)	106.0 in (2 692 mm)
J. Bucket reach – fully raised, 45° dump		51.0 in (1 296 mm)	55.2 in (1 403 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump		69.4 in (1 763 mm)	71.5 in (1 816 mm)
L. Dig depth		2.7 in (69 mm)	3.0 in (77 mm)
Operating load – ISO Rigid Tires		10,579 lb (4 799 kg)	10,739 lb (4 871 kg)
Operating load – ISO Deflected Tires		9,172 lb (4 160 kg)	9,312 lb (4 224 kg)
Maximum material density – ISO Rigid Tires		3,526 lb/yd ³ (2 093 kg/m ³)	3,836 lb/yd ³ (2 276 kg/m ³)
Maximum material density – ISO Deflected Tires		3,057 lb/yd ³ (1 814 kg/m ³)	3,326 lb/yd ³ (1 973 kg/m ³)
Tipping load – ISO Rigid Tires:	Straight	24,466 lb (11 098 kg)	24,816 lb (11 256 kg)
	40° turn	21,159 lb (9 597 kg)	21,479 lb (9 743 kg)
Tipping load – ISO Deflected Tires:	Straight	22,759 lb (10 323 kg)	23,083 lb (10 470 kg)
	40° turn	18,344 lb (8 321 kg)	18,624 lb (8 448 kg)
Lift capacity:	Full height	15,171 lb (6 881 kg)	15,278 lb (6 930 kg)
	Ground	26,989 lb (12 242 kg)	27,806 lb (12 613 kg)
Breakout force with tilt cylinder		26,469 lb (12 006 kg)	28,279 lb (12 827 kg)
Loader clearance circle with bucket		502.3 in (12 758 mm)	506.4 in (12 862 mm)

721G XR		3.0 yd ³ (2.3 m ³) Bucket with Bolt-on-Edge - JRB Coupler	2.8 yd ³ (2.1 m ³) Bucket with Teeth - JRB Coupler
Operating weight		33,791 lb (15 327 kg)	33,689 lb (15 281 kg)
E. Operating height – fully raised with spillguard		226.4 in (5 751 mm)	226.4 in (5 751 mm)
F. Hinge pin height – fully raised		172.0 in (4 369 mm)	172.0 in (4 369 mm)
G. Overall length – bucket level on ground		324.1 in (8 232 mm)	330.0 in (8 383 mm)
Dump angle – fully raised		50°	50°
H. Dump height – fully raised, 45° dump		125.4 in (3 186 mm)	121.5 in (3 087 mm)
J. Bucket reach – fully raised, 45° dump		51.1 in (1 297 mm)	55.3 in (1 404 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump		81.9 in (2 081 mm)	84.2 in (2 140 mm)
L. Dig depth		2.8 in (72 mm)	3.1 in (79 mm)
Operating load – ISO Rigid Tires		8,872 lb (4 024 kg)	9,007 lb (4 085 kg)
Operating load – ISO Deflected Tires		7,769 lb (3 524 kg)	7,890 lb (3 579 kg)
Maximum material density – ISO Rigid Tires		2,957 lb/yd ³ (1 755 kg/m ³)	3,217 lb/yd ³ (1 909 kg/m ³)
Maximum material density – ISO Deflected Tires		2,590 lb/yd ³ (1 537 kg/m ³)	2,818 lb/yd ³ (1 672 kg/m ³)
Tipping load – ISO Rigid Tires:	Straight	20,656 lb (9 369 kg)	20,948 lb (9 502 kg)
	40° turn	17,745 lb (8 049 kg)	18,014 lb (8 171 kg)
Tipping load – ISO Deflected Tires:	Straight	19,354 lb (8 779 kg)	19,629 lb (8 903 kg)
	40° turn	15,538 lb (7 048 kg)	15,780 lb (7 158 kg)
Lift capacity:	Full height	14,063 lb (6 379 kg)	14,170 lb (6 428 kg)
	Ground	22,866 lb (10 372 kg)	23,125 lb (10 489 kg)
Breakout force with tilt cylinder		26,378 lb (11 965 kg)	28,189 lb (12 786 kg)
Loader clearance circle with bucket		516.5 in (13 120 mm)	521.1 in (13 236 mm)

721G		Z-Bar/XR	Z-Bar/XR
Maximum rollback:	Ground	40°/37°	40°/37°
	Carry position	44°/43°	44°/43°
	@ Full height	57°/57°	57°/57°
Maximum grading angle with bucket – back dragging		60°/59°	62°/60°
SAE bucket capacity – struck		2.56 yd ³ (1.96 m ³)	2.42 yd ³ (1.85 m ³)
	Heaped	3.00 yd ³ (2.29 m ³)	2.80 yd ³ (2.14 m ³)
Bucket width – outside		106.3 in (2 700 mm)	106.8 in (2 713 mm)
Bucket weight		3,480 lb (1 579 kg)	3,378 lb (1 532 kg)

PERFORMANCE SPECS

721G XT

	3.0 yd ³ (2.3 m ³) Bucket with Bolt-on Edge - ACS Coupler	2.8 yd ³ (2.1 m ³) Bucket with Teeth ACS Coupler	3.0 yd ³ (2.3 m ³) Bucket with Bolt-on Edge - JRB Coupler	2.8 yd ³ (2.1 m ³) Bucket with Teeth JRB Coupler
Operating weight	33,861 lb (15 359 kg)	33,759 lb (15 313 kg)	33,392 lb (15 146 kg)	33,290 lb (15 100 kg)
E. Operating height – fully raised with spillguard	219.1 in (5 564 mm)	219.1 in (5 564 mm)	217.1 in (5 515 mm)	217.1 in (5 516 mm)
F. Hinge pin height – fully raised	163.6 in (4 156 mm)	163.6 in (4 156 mm)	163.6 in (4 157 mm)	163.7 in (4 157 mm)
G. Overall length – bucket level on ground	315.2 in (8 005 mm)	320.9 in (8 151 mm)	312.7 in (7 942 mm)	318.4 in (8 086 mm)
Dump angle – fully raised	55°	55°	55°	55°
H. Dump height – fully raised, 45° dump	113.3 in (2 878 mm)	109.6 in (2 784 mm)	114.9 in (2 919 mm)	111.3 in (2 827 mm)
J. Bucket reach – fully raised, 45° dump	52.1 in (1 323 mm)	56.5 in (1 435 mm)	50.2 in (1 275 mm)	54.6 in (1 388 mm)
K. Bucket reach – 7 ft 0 in (2.13 m) height, 45° dump	73.1 in (1 856 mm)	75.5 in (1 918 mm)	72.0 in (1 828 mm)	74.6 in (1 894 mm)
L. Dig depth	3.5 in (90 mm)	3.5 in (90 mm)	3.5 in (89 mm)	3.4 in (87 mm)
Operating load – ISO Rigid Tires	9,851 lb (4 469 kg)	9,998 lb (4 535 kg)	10,237 lb (4 643 kg)	10,390 lb (4 713 kg)
Operating load – ISO Deflected Tires	8,481 lb (3 847 kg)	8,611 lb (3 906 kg)	8,844 lb (4 011 kg)	8,978 lb (4 072 kg)
Maximum material density – ISO Rigid Tires	3,284 lb/yd ³ (1 949 kg/m ³)	3 571 lb/yd ³ (2 119 kg/m ³)	3,412 lb/yd ³ (2 025 kg/m ³)	3,711 lb/yd ³ (2 202 kg/m ³)
Maximum material density – ISO Deflected Tires	2,827 lb/yd ³ (1 677 kg/m ³)	3,075 lb/yd ³ (1 825 kg/m ³)	2,948 lb/yd ³ (1 749 kg/m ³)	3,207 lb/yd ³ (1 903 kg/m ³)
Tippling load – ISO Rigid Tires:				
Straight	22,805 lb (10 344 kg)	23,124 lb (10 489 kg)	23,624 lb (10 716 kg)	23,956 lb (10 866 kg)
40° turn	19,703 lb (8 937 kg)	19,996 lb (9 070 kg)	20,474 lb (9 287 kg)	20,779 lb (9 425 kg)
Tippling load – ISO Deflected Tires:				
Straight	21,152 lb (9 595 kg)	21,449 lb (9 729 kg)	21,942 lb (9 953 kg)	22,250 lb (10 092 kg)
40° turn	16,962 lb (7 694 kg)	17,222 lb (7 812 kg)	17,687 lb (8 023 kg)	17,957 lb (8 145 kg)
Lift capacity:				
Full height	13,839 lb (6 277 kg)	14,003 lb (6 352 kg)	14,396 lb (6 530 kg)	14,564 lb (6 606 kg)
Ground	31,098 lb (14 106 kg)	31,112 lb (14,112 kg)	31,434 lb (14 258 kg)	31,483 lb (14 281 kg)
Breakout force with tilt cylinder	26,353 lb (11 954 kg)	28,074 lb (12 734 kg)	27,817 lb (12 618 kg)	29,706 lb (13 474 kg)
Loader clearance circle with bucket	497.0 in (12 624 mm)	499.9 in (12 697 mm)	496.0 in (12 598 mm)	498.8 in (12 670 mm)

721G

Maximum rollback:				
Ground	58°	58°	58°	58°
Carry position	58°	58°	58°	58°
@ Full height	58°	58°	58°	58°
Maximum grading angle with bucket – back dragging	61°	62°	60°	62°
SAE bucket capacity – struck	2.56 yd ³ (1.96 m ³)	2.42 yd ³ (1.85 m ³)	2.56 yd ³ (1.96 m ³)	2.42 yd ³ (1.85 m ³)
Heaped	3.00 yd ³ (2.29 m ³)	2.80 yd ³ (2.14 m ³)	3.00 yd ³ (2.29 m ³)	2.80 yd ³ (2.14 m ³)
Bucket width – outside	106.3 in (2 700 mm)	106.8 in (2 713 mm)	106.3 in (2 700 mm)	106.8 in (2 713 mm)
Bucket weight	3,648 lb (1 655 kg)	3,545 lb (1 608 kg)	3,179 lb (1 442 kg)	3,077 lb (1 396 kg)

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

Performance data unit equipped with 20.5-R25 L3 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 F4HFE613T
Tier 4 Final Certified
Selective Catalytic Reduction (SCR) with
Diesel Oxidation Catalyst
Selectable work modes:
Maximum Power
Standard Power
Economy Power
Auto Power
Turbocharger
Charge air cooling
Automatic belt tensioner
Integral engine oil cooling
Fuel filter with water trap
Dual-element dry-type air cleaner
Hydraulic-driven cooling fan
Air-cooled radiator
Mid-mounted cooling module
Common rail electronic fuel injection

LOADER

See page 2 – Operating weight,
Other specifications

DRIVETRAIN

4-wheel drive
4F/3R Selectable autoshift/manual
shift transmission
Electronic Control Module – programmable,
computer controlled proportional shifting
with programmable gear selection

Onboard diagnostics
Single lever electronic shift control
F/N/R switch in loader control handle
Downshift button
Torque converter
Limited-slip differentials
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

Electro-hydraulic (EH) joystick loader control
Low-effort steering
Hydraulic driven cooling fan
Diagnostic quick couplers
Split flange hydraulic connections –
1 in or greater
Hydraulic oil cooler

ELECTRICAL

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

OTHER

Electric hood lift
Front and rear fenders, partial coverage
Heavy counterweight
Drawbar hitch
Articulation locking bar
Lift arm locking bar
Lift and tie-down points – front/rear
Grouped remote-mounted ecology drains:
Engine oil
Engine coolant
Hydraulic oil

TELEMATICS

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

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

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

DRIVETRAIN

5F/3R Autoshift/manual shift transmission, lockup torque converter, PowerInch de-clutch
Heavy-duty axles:
With locking front differential and rear open differential
Cold weather package:
Heavy-duty (2) 950 CCA 12V batteries
Grid heater
Fuel heater
Hydraulic oil cooler bypass
Low temperature hydraulic oil
Fast-warm hydraulic valve

HYDRAULICS

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

LOADER

XR extended reach version
XT tool carrier version
Attachment auxiliary hydraulics
Coupler systems – JRB or ACS compatible
Buckets – see pages 4 through 8
4 – 1 clamp buckets
Forks

TIRES

20.5-25 16 PR L2 bias – dirt/traction
20.5-25 16 PR L3 bias – rock
20.5-R25 L2 radial – dirt/traction
20.5-R25 L3 radial – rock
20.5-R25 radial Michelin SnoPlus
20.5-R25 radial Bridgestone Snow Wedge
SolidFlex HD solid tires on adapter rims
Spare wheels and tires
Axle oscillation stops

GUARDING

Skid plate, transmission and front chassis bottom guards
Windscreen guard
Specialized guarding package:
Windscreen, articulation, front cover, chassis bottom, skid plate, transmission, lift cylinder, front lights, fuel tank, metal wrapped hoses and cylinder debris ejectors

ADVANCED ENGINE AIR FILTRATION

Heavy Debris cooling system:
Slanted cooling module cover
Auto reversing fan
Increased cooling fin spacing
Added cooling module sealing
Variable speed hydraulic reversing fan
Full-view air pre-cleaner
Sy-Klone® ejector type pre-cleaner

OTHER

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

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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. CCE201708721G
Replaces Form No. CCE201610721G



Model	Blade position & width			Side wings of the side gate	Approx. weight
	Box	Scoop	Extended		
PRO0848-18	8'	13'	18'	48' x 60'	4700 lbs
PRO0848-20	8'	14'	20'	48' x 72'	4900 lbs
PRO1048-18	10'	13'6"	18'	48' x 48'	4800 lbs
PRO1048-20	10'	15'	20'	48' x 60'	5000 lbs
PRO1048-22	10'	16'	22'	48' x 72'	5200 lbs
PRO1248-22	12'	17'	22'	48" x 60"	5400 lbs



D-SERIES SNOW BLOWERS



SEE MORE. DO MORE.

FEATURING LARUE PROPRIETARY DESIGN WITH AN OFF-CENTERED SPOT CASTING CHUTE
FOR MAXIMUM VISIBILITY AND SAFER OPERATION.



TABLE OF CONTENTS

COMPANY	04
PRODUCT LINEUP	05
LOADER-MOUNTED SNOW BLOWERS	
D-SERIES TWO-STAGE	06
D-SERIES SINGLE-STAGE	12
PARTS & SERVICE	16
GLOBAL DEALER NETWORK	18

PIONEERS IN OUR FIELD



WE'VE BEEN MAKING SNOW REMOVAL EQUIPMENT FOR OVER 45 YEARS. THAT'S A LOT OF EXPERTISE, AND IT'S A LOT OF SNOW OUR BLOWERS PUT IN ITS PLACE. WE'VE SERVED A LOYAL BASE OF AIRPORT, MUNICIPAL, CONTRACTOR AND GOVERNMENT AGENCIES, AND THEY'VE HELPED MAKE OUR REPUTATION, AND OUR PRODUCTS SHINE.

A HISTORY OF ACHIEVEMENT

In 1973, J.A. Larue Inc. started as a repair shop for various types of heavy diesel equipment. Later, the company specialized in rebuilding used snow removal equipment, until, that is, founder André Larue had the vision to design and manufacture a snow blower that would stand out and stand up to the worst of winter. Nearly a half century later the company is managed by the second generation, Denis, and Louis Larue. And it has become one of the largest makers of industrial snow removal equipment in the world. Founded and based in Quebec, where snowfall has been known historically to reach up to 5 meters in depth, Larue arose from a culture of snow. Snow isn't weather in Quebec, it's a way of life.

We live it, 4 months a year. And all of that snow has given us an expertise that few others can claim. Our snow removal equipment is a study in continuous refinement, relentless innovation and an ability to deliver highly customized machines to clients around the world. Snow fears Larue. And when it comes to clearing roads, Larue is a name you can count on.

OUR MISSION

To design, manufacture and distribute industrial snow removal equipment for the global market. We're intensely focused on the needs of our customers and aim for complete satisfaction through teamwork and a spirit of innovation.

OUR VISION

To become the world leader in the design, manufacture, and distribution of industrial snow removal equipment. We want to be recognized for our passion and dedication for reliable, efficient service that is appreciated worldwide.

PRODUCT LINEUP

D-SERIES



D25 | D35 | D45 | D55 | D65



D30 | D40 | D50 | D60



D87



D97

LOADER-MOUNTED TWO-STAGE SNOW BLOWERS

LOADER-MOUNTED SINGLE-STAGE SNOW BLOWERS

T-SERIES



T60



T70



T80

SELF-PROPELLED SINGLE-ENGINE SNOW BLOWERS



T85



T95



FB18 | FB20 | FB22



FP18 | FP20 | FP22

SELF-PROPELLED DUAL-ENGINE SNOW BLOWERS, AIRPORT BROOMS & PLOWS



D-SERIES TWO-STAGE

LOADER-MOUNTED SNOW BLOWERS

Larue snow blowers set the standard for safety, performance and productivity. With the largest selection in the industry, our models are offered with either a ribbon or dual auger conveyor. No matter the size of your operations, there is a Larue product adapted to your needs.

STANDARD EQUIPMENT

- HARDOX® 500 DIRECTIONAL SPOT CASTING CHUTE WITH 2-SECTION DEFLECTOR
- WIRED JOYSTICK CONTROL
- 4.3" LCD SCREEN
- 2 FRAME-MOUNTED LED LIGHTS
- 2 CHUTE-MOUNTED LED LIGHTS
- MAINTENANCE FREE WET-TYPE MULTI-DISC CLUTCH
- ROLLER CHAIN IN OIL BATH
- HARDOX® 550 DRUM
- TUNGSTEN CARBIDE SKID SHOES
- HIGH-STRENGTH STEEL SCRAPER BLADE
- EMERGENCY STOP BUTTONS
- LEVEL INDICATOR ON THE SPOT CASTING CHUTE
- GROUND LEVEL FUEL FILL
- MECHANICAL COMPONENTS ENCLOSED
- BLOCK HEATER



RIBBON SNOW BLOWERS

D25 | D35 | D45 | D55 | D65

The serrated ribbon conveyor has a greater depth and is expressly designed to handle large amounts of loose, freshly fallen snow. They're commonly used in urban areas for truck loading, at airports and on mountain roads.



DUAL AUGER SNOW BLOWERS

D30 | D40 | D50 | D60

The dual auger conveyor is most effective against compact, hardened snow windrows, and ice. It's your best ally when it comes to carving through snowbanks, widening roads, and clearing commercial parking lots.

APPLICATIONS



TRUCK LOADING



ROAD CLEARING



SIDE CASTING



MOUNTAIN PASS OPENING

FEATURES & BENEFITS

SAFETY FIRST ¹

Every single product in Larue's snow clearing equipment lineup is built and tested with the operator's health & safety top-of-mind. You have a lot at stake in your daily operations and your people are your most valuable assets. Downtime isn't in your vocabulary. That's why we engineer our machines in order to minimize risk and maximize safety. Features like an automatic clutch disengagement system in the event of unit blockage (safety/shear bolts), 2 emergency stop buttons, safety bolts access located away from street-side and ground-level maintenance points work together to keep everyone safe.

LIGHTER BUT MEANER

Better design means significant productivity gains, but it also means better engineering with features and benefits like triangular box frame construction, unmatched power-to-weight ratio, and left-mounted radiator location that reduces frosting or blocking. In addition, the impeller & drum are at the center of the unit, facilitating snow processing and reducing lateral overflow. Add to that a center-of-gravity located close to the wheel loader for enhanced stability.

OUTSTANDING PERFORMANCE ²

Larue's unique conveyor and impeller designs allow operators to process more snow, faster. Equipped with Cummins turbo-diesel engines with output ranging from 134 to 365 horsepower, our units boast a casting distance up to 150 feet. Simply put, we've got the power and capacity you need to take snow out of your way.

RUGGED DURABILITY

Our heavy-duty units are designed to perform relentlessly under extreme weather conditions. Plus, the parts we make, or install have been rigorously tested and solidly built for maximum durability. Heavy-wear parts are machined from abrasion-resistant Hardox[®], while still others are engineered from tungsten or chromium carbide, up to 4 times more durable. Larue snow blowers will not let you down.

ULTIMATE PRECISION ³

Experience precision casting with a dense, solid stream and an impressive snow compaction rate. Larue products are all about clearing the roads right the first time, and every time.

SUPERIOR VISIBILITY ⁴

Built with the operator in mind, our snow blowers' angled hood shape and off-centered chutes offer superior visibility, which in turn reduces operator fatigue, an essential plus for the safety of staff working long shifts. Add to that 4 powerful LED lights and lack of visibility during nighttime operations is simply no longer an issue.

EASE OF MAINTENANCE ⁵

Larue snow blowers are designed for easy serviceability and simple, lower-cost maintenance because all components are accessible at ground level. Plus, Larue's transmission-integrated wet-type multi-disc clutch requires no maintenance or periodic adjustments. Instead of having a belt drive, we opted for a roller chain in oil bath in order to limit maintenance once again. Mechanical components are enclosed for maximum protection, and fuel fill is made from ground level. And off-the-shelf parts reduce lead times and ensure your Larue is back on the road, fast. Convenience is something we've built into our approach, and in our lineup.

LOW OPERATING COST

Our machines are engineered to maximize uptime and reduce cost of operation, all of which enhances your ROI. Your budget matters when considering the parts and components for repair or replacement. We build snow clearing equipment, but we're mainly in the business of customer satisfaction via maximum profitability and exceptional service. That way, Larue is top-of-mind when it's time to refresh their fleet. It's a formula that has contributed in no small part to our success since our beginnings. Make it part of yours.

ENVIRONMENT-FRIENDLY

Nearly all our new two-stage models are equipped with a certified Stage V engine, subject to the strictest current emission standards. Larue's unique engine integration design improves fuel economy without compromising performance & reliability.



TECHNICAL SPECIFICATIONS

	SMALL		MEDIUM				LARGE			
										
STANDARD SPECIFICATIONS	D25	D30	D35	D40	D45	D50	D55	D60	D65	
PERFORMANCE CLASS	1,400 TONS/H		1,800 TONS/H		2,400 TONS/H		3,000 TONS/H		3,500 TONS/H	
VOLUMETRIC CAPACITY*	1,750 YD³/H @ 1,700 LB-FT		2,900 YD³/H @ 2,150 LB-FT		3,600 YD³/H @ 2,500 LB-FT		4,650 / 5,300 YD³/H @ 4,500 LB-FT		4,650 / 5,300 / 6,050 YD³/H @ 4,500 LB-FT	
CASTING DISTANCE	125 FT				150 FT					
ENGINE	CUMMINS* F3.6				CUMMINS* QSB6.7		CUMMINS* B6.7		CUMMINS* B6.7 / L9	
EMISSION STANDARD	STAGE V / TIER 4 FINAL				STAGE IV / TIER 4 FINAL		STAGE V / TIER 4 FINAL			
ENGINE POWER	134 HP		173 HP		235 HP		310 / 326 HP		310 / 326 / 365 HP	
ENGINE TORQUE	406 LB-FT		457 LB-FT		655 LB-FT		950 / 1,014 LB-FT		950 / 1,014 / 1,151 LB-FT	
FUEL TANK CAPACITY	46 US GAL				66 US GAL		92 US GAL			
WORKING WIDTH*	91 IN		102 IN		110 IN		114 IN			
WORKING HEIGHT	42 IN		52 IN		54 IN		55 IN		60 IN	
DRIFT CUTTERS HEIGHT	72 IN				84 IN				98 IN	
TRUCK LOADING HEIGHT*	125 IN				129 IN				139 IN	
TRANSPORTATION HEIGHT	87 IN		97 IN		93 IN		104 IN		105 IN	
RIBBON / AUGER DIAMETER	28 IN		2 X 17 IN		32 IN		2 X 20 IN		36 IN	
IMPELLER DIAMETER	28 IN				34 IN				40 IN	
WEIGHT†	7,000 LB		7,500 LB		8,000 LB		10,250 LB		11,000 LB	
MINIMUM LOADER SIZE	1 YD³		1.8 YD³		2 YD³		2.5 YD³		3 YD³	

* Volumetric capacity at specific impeller torque

† Working width can be extended by 6" for all models or by 12" for the D50 or higher models with the widening kit option

‡ Truck loading height can be extended by 18" or 30" with the telescopic chute extension option. See page 11 for availability

* Operating weight is subject to change depending on fluid levels, selected equipment and options.

BUILD YOUR OWN



TELESCOPIC CHUTE EXTENSION

18" or 30" hydraulic telescopic chute extension facilitates truck loading.



HYDRAULIC TILTING CHUTE

Enables the chute to be unclogged from ground level, increasing operational safety and speed while reducing total height for easier trailer transportation.



3-SECTION CHUTE DEFLECTOR

Improves snow stream precision and control. Available in Hardox® 550 or chromium carbide.



SHOTGUN

36" drum outlet extension increases casting distance and prevents snow from getting into the operator's field of vision.



WIRELESS CONTROL SYSTEM

Bluetooth® control system enables faster pairing with the wheel loader.



STEERING VANE

Allows the operator to steer the snow blower more effectively in snow banks, improving the cutting line precision. Available on the right side, or on both sides.



150 DEGREE DRUM ROTATION

Worm gear drum rotation allowing to cast from left-to-right on a 150 degree angle span.



FRAME-MOUNTED HEATED LED LIGHTS

Improves forward visibility by eliminating snow accumulation on the lights.



ICE CUTTERS KIT

Installed on the dual auger conveyor, these 4-sided cutters give more bite against icy snowbanks. One kit equips one auger.



FULL WIDTH SKID SHOE

Offers complete protection under the snow blower. Available in Hardox® 550 or tungsten carbide.



CHROMIUM CARBIDE DRUM LINER

Boasts 3 times the durability of a standard drum.



LED WORK LIGHT FOR SAFETY BOLTS

Located inside the safety bolts compartment for convenient night access.

OPTION AVAILABILITY

● AVAILABLE
— NOT AVAILABLE

	OPTIONS	D25	D30	D35	D40	D45	D50	D55	D60	D65
CAB CONTROL	WIRELESS CONTROL SYSTEM - BLUETOOTH*	●	●	●	●	●	●	●	●	●
	EXTRA 95' CONTROL CABLE	●	●	●	●	●	●	●	●	●
	5.7" LCD SCREEN	●	●	●	●	●	●	●	●	●
CHUTE	18" TELESCOPIC CHUTE EXTENSION	●	—	—	—	—	●	●	●	●
	30" TELESCOPIC CHUTE EXTENSION	—	●	●	●	●	—	—	—	—
	HYDRAULIC TILTING CHUTE	●	●	●	●	●	●	●	●	●
	SHOTGUN (DRUM OUTLET EXTENSION)	—	—	—	—	—	●	●	●	●
	HAZARD SPOT CASTING CHUTE	—	—	—	—	—	●	●	●	●
	2-SECTION CHUTE DEFLECTOR - CHROMIUM CARBIDE	●	●	●	●	●	●	●	●	●
	3-SECTION CHUTE DEFLECTOR - HARDOX® S50	●	●	●	●	●	●	●	●	●
	3-SECTION CHUTE DEFLECTOR - CHROMIUM CARBIDE	●	●	●	●	●	●	●	●	●
	REMOTE GREASE POINTS - CHUTE	●	●	●	●	●	●	●	●	●
STEERING	STEERING VANE (RIGHT SIDE)	●	●	●	●	●	●	●	●	●
	DUAL STEERING VANE	●	●	●	●	●	●	●	●	●
DRUM	DRUM - 150 DEGREE ROTATION BY WORM GEAR	●	●	●	●	●	●	●	●	●
	DRUM LINER - CHROMIUM CARBIDE	●	●	●	●	●	●	●	●	●
	DRUM ALIGNMENT GUIDE	●	●	●	●	●	●	●	●	●
SAFETY	HEATED LED LIGHTS - FRAME	●	●	●	●	●	●	●	●	●
	LED LIGHTS - HOOD	●	●	●	●	●	●	●	●	●
	LED WORK LIGHT - ENGINE COMPARTMENT	●	●	●	●	●	●	●	●	●
	LED WORK LIGHT - SAFETY BOLTS	●	●	●	●	●	●	●	●	●
	INDICATOR LIGHT ON HOOD - SNOW BLOWER ENGAGED	●	●	●	●	●	●	●	●	●
	ENGINE SHUTDOWN SYSTEM - SAFETY BOLTS ACCESS DOOR WITH LED LIGHT	●	●	●	●	●	●	●	●	●
	ENGINE SHUTDOWN SYSTEM - LOADER DOOR	●	●	●	●	●	●	●	●	●
	REMOTE SHUTDOWN SYSTEM FOR THE FLADMAN	●	●	●	●	●	●	●	●	●
	ACCESS STEPS - CHUTE	●	●	●	●	●	●	●	●	●
	AIR HOSE	●	●	●	●	●	●	●	●	●
	ANTI-VANDALISM LOCKOUT	●	●	●	●	●	●	●	●	●
DURABILITY & EFFICIENCY	ICE CUTTERS KIT FOR ONE OR TWO AUGER(S)	—	—	—	●	—	—	—	—	—
	REVERSE FUNCTION - CONVEYOR & IMPELLER	●	—	●	—	—	●	—	—	—
	REINFORCED RIBBON - HEAVY DUTY	—	—	—	—	—	—	—	—	—
	SCRAPER BLADE - RUBBER	●	●	●	●	●	●	●	●	●
	SCRAPER BLADE - UHMW	●	●	●	●	●	●	●	●	●
	SCRAPER BLADE - TUNGSTEN CARBIDE	●	●	●	●	●	●	●	●	●
	FULL WIDTH SKID SHOE - HARDOX® S50	●	●	●	●	●	●	●	●	●
	FULL WIDTH SKID SHOE - TUNGSTEN CARBIDE	●	●	●	●	●	●	●	●	●
	DRIFT CUTTER SKID SHOES - TUNGSTEN CARBIDE	●	●	●	●	●	●	●	●	●
	ADJUSTABLE HYDRAULIC WHEEL (LEFT SIDE)	—	—	—	—	—	—	—	—	—
	SNOW WHEELS KIT (2)	—	—	—	—	—	—	—	—	—
	FRAME MODIFICATION TO ALLOW RETROFIT FOR SNOW WHEELS KIT (2)	—	—	—	—	—	—	—	—	—
	DRIFT CUTTER GUARD - UHMW	●	●	●	●	●	●	●	●	●
	DRIFT CUTTER GUARD - ROLLER	●	●	●	●	●	●	●	●	●
	GUARDRAIL PROTECTOR - UHMW	●	●	●	●	●	●	●	●	●
	PROTECTION RAIL	●	●	●	●	●	●	●	●	●
	HOOD PROTECTOR - UHMW	●	●	●	●	●	●	●	●	●
	RADIATOR COVER	●	●	●	●	●	●	●	●	●
	RADIATOR PROTECTION GRILL	—	—	—	—	—	—	—	—	—
	SNOW GUARD	—	—	—	—	—	—	—	—	—
	PUSH BAR	●	●	●	●	●	●	●	●	●
	BATTERY CHARGER	●	●	●	●	●	●	●	●	●
	BATTERY WARMER	●	●	●	●	●	●	●	●	●
	REMOTE JUMP START TERMINALS	●	●	●	●	●	●	●	●	●
	ELECTRONICALLY CONTROLLED ENGINE COOLING FAN	—	—	—	●	—	—	—	—	—
	AIR INTAKE PRE-CLEANER	—	—	—	—	—	—	—	—	—
	HYDRAULIC OIL HEATER - PAD	●	●	●	●	●	●	●	●	●
	HYDRAULIC OIL HEATER - IMMERSION	●	●	●	●	●	●	●	●	●
	PRESSURE GAUGE - HYDRAULIC OIL	●	●	●	●	●	●	●	●	●
	TEMPERATURE AND LEVEL INDICATOR - HYDRAULIC OIL	●	●	●	●	●	●	●	●	●
OTHERS	QUICK COUPLER	●	●	●	●	●	●	●	●	●
	CUSTOM PAINT JOB	●	●	●	●	●	●	●	●	●
	WIDENING KIT - 6"	—	—	—	—	—	—	—	—	—
	WIDENING KIT - 12"	—	—	—	—	—	—	—	—	—
	LIFTING HOOPS KIT	●	●	●	●	●	●	●	●	●
	MECHANICAL HOUR METER	●	●	●	●	●	●	●	●	●
	DIAGNOSTIC TOOL - CUMMINS® INLINE MINI DATALINK ADAPTER	●	●	●	●	●	●	●	●	●

D-SERIES SINGLE-STAGE

LOADER-MOUNTED SNOW BLOWERS

D-SERIES SINGLE-STAGE

12

LOADER-MOUNTED SNOW BLOWERS



Larue loader-mounted single-stage snow blowers are recognized for their superior capacity, casting height, and impressive power. This lineup is specialized for use in snow dump sites.

STANDARD EQUIPMENT

- RIGHT SIDE STEERING VANE
- WIRED JOYSTICK CONTROL
- 4.3" LCD SCREEN
- 2 FRAME-MOUNTED LED LIGHTS
- DRY-TYPE MULTI-DISC CLUTCH
- ROLLER CHAIN IN OIL BATH
- HARDOX® 500 DRUM
- TUNGSTEN CARBIDE SKID SHOES
- HARDOX® 500 SCRAPER BLADE
- EMERGENCY STOP BUTTONS
- GROUND LEVEL FUEL FILL
- MECHANICAL COMPONENTS ENCLOSED
- BLOCK HEATER



D87

The D87 combines strength and performance with a lighter weight, allowing it to be paired with a smaller loader. Its large capacity and casting height make it a logical choice to operate in a snow dump.



D97

The D97 is our most capable single-stage snow blower and was designed with no compromise on power and torque. With its superior performance, nothing can scare off this industrial-strength machine.

APPLICATION



SNOW DUMP SITES

FEATURES & BENEFITS

SAFETY FIRST ¹

All of our models are built and tested with the operator's health and safety as our top priority. We understand that you have a lot at stake in your daily operations and that you want to take care of your people. You cannot afford downtime. That's why we designed our snow blowers in a way that minimizes the risk of accidents. Among those design elements are the automatic clutch disengagement system if the unit suffers a blockage (safety/shear bolts), all maintenance points made from the ground and 2 emergency stop buttons to help keep the workers safe.

BETTER BY DESIGN ²

Better design means significant productivity gains, but it also means better engineering with features and benefits like triangular box frame construction, unmatched power-to-weight ratio, and left-mounted radiator that reduces frosting or blocking. Its center-of-gravity is located close to the wheel loader for enhanced stability. It's clear, Larue products are built for performance and designed to last.

RUGGED DURABILITY ³

Our heavy-duty units are designed to perform relentlessly under extreme weather conditions. Plus, the parts we make, or install have been rigorously tested and solidly built for maximum durability. Heavy-wear parts are machined from abrasion-resistant Hardox, while still others are engineered from tungsten or chromium carbide, up to 4 times more durable. Larue snow blowers will not let you down.

OUTSTANDING PERFORMANCE

Larue single-stage snow blowers are powered by a Caterpillar Tier 4 Final engine. Specialized for snow dump sites, they can blast snow up to 120 feet providing fast, cost-efficient clearing capacity. Delivering up to 1,200 horsepower, these machines are designed to work with ease in the toughest operating conditions. And our innovative optimized conveyor minimizes lateral overflow, reducing the number of passes required to do the job.

HIGH UPTIME, LOW MAINTENANCE

The majority of Larue components are engineered in-house to ensure that your equipment stays on the road, where it belongs. Occasionally you might need to do a maintenance. Again, we've got you covered. Larue single-stage snow blowers are designed for easy serviceability and simple maintenance with all components accessible from ground level. We also use off-the-shelf parts which reduces lead times ensuring your Larue is back to work, fast.

OPERATING COST UNDER CONTROL ⁴

Our machines are engineered to maximize uptime and reduce cost of operation, all of which enhances your ROI. Your budget matters when considering the parts and components for repair or replacement. We build snow clearing equipment, but we're also in the business of customer satisfaction via maximum profitability and exceptional service. That way, Larue is top-of-mind when it's time to refresh their fleet. It's a formula that has contributed in no small part to our success for over 45 years. Make it part of yours.



TECHNICAL SPECIFICATIONS



STANDARD SPECIFICATIONS

	D87	D97
PERFORMANCE CLASS	7,000 TONS/H	8,500 TONS/H
VOLUMETRIC CAPACITY*	18 900 YD ³ /H @ 20,650 LB-FT	22,700 YD ³ /H @ 23,350 LB-FT
CASTING HEIGHT	100 FT	120 FT
ENGINE	CATERPILLAR® C18	CATERPILLAR® C27 / C32
EMISSION STANDARD	STAGE IV / TIER 4 FINAL	
ENGINE POWER	800 HP	1,050 / 1,200 HP
ENGINE TORQUE	2,687 LB-FT	3,100 / 4,056 LB-FT
FUEL TANK CAPACITY	200 US GAL	300 US GAL
WORKING WIDTH ¹	122 IN	132 IN
WORKING HEIGHT	75 IN	
DRIFT CUTTER HEIGHT	105 IN	
TRANSPORTATION HEIGHT	114 IN	
IMPELLER DIAMETER	70 IN	
WEIGHT ²	22,000 LB	24,200 LB
MINIMUM LOADER SIZE	5 YD ³	7 YD ³

* Volumetric capacity at specific impeller torque.

¹ Working width can be extended by 6" with the widening kit option.

² Operating weight is subject to change depending on fluid levels, selected equipment and options.

OPTIONS

- WIRELESS CONTROL SYSTEM (BLUETOOTH®)
- EXTRA 25' CONTROL CABLE
- 5.7" LCD SCREEN
- FRAME-MOUNTED HEATED LED LIGHTS
- LED LIGHTS ON HOOD
- LED WORK LIGHT IN ENGINE COMPARTMENT
- LED WORK LIGHT FOR SAFETY BOLTS
- ENGINE SHUTDOWN SYSTEM
- AIR HORN
- ANTI-VANDALISM LOCKOUT
- BATTERY CHARGER
- BATTERY WARMER
- REMOTE JUMP START TERMINALS
- HYDRAULIC OIL HEATER
- HYDRAULIC OIL PRESSURE GAUGE
- HYDRAULIC OIL TEMPERATURE AND LEVEL INDICATOR
- QUICK COUPLER
- CUSTOM PAINT JOB
- 6" WIDENING KIT
- LIFTING HOOKS KIT
- MECHANICAL HOUR METER

PARTS & SERVICE

WE KNOW HOW TO BUILD SNOW REMOVAL
EQUIPMENT. SERVICING THEM IS ALSO A
PLEDGE WE MAKE. WHAT'S MORE, OUR QUALITY
OEM PARTS ARE AVAILABLE THROUGHOUT OUR
GLOBAL DEALER NETWORK.



COUNT ON US

It's one thing to build powerful snow removal equipment. It's quite another to offer parts & service that meet the same high benchmark. We do. Anywhere there's snow you'll find Larue, and anywhere you find Larue you'll find our authentic, reliable parts. We'll get them to you, and one of our dealers will install them if needed. When it comes to parts & service, speed and efficiency are the surest way to meet the bottom line. And that's exactly what we set out to do.

GLOBAL PARTS DISTRIBUTION

Our customers rely on machines that deliver not only performance, but rugged durability. Colder climates are demanding, but so are the needs of our clients to keep their Larue snow removal equipment running perfectly, whenever, and wherever they need it. Which is why our global parts distribution network is there. You're never let down with a Larue, and the very same goes when on those occasions you need a part. Snow doesn't wait for you to be ready. And you shouldn't have to wait long for parts you need to take it on. You need it? We've got it, and we'll get it to you.

SERVICE YOU CAN TRUST

At Larue, servicing what we make is part of the equation. Our team is experienced, friendly and dedicated. Snow blowers and diesel engines run in our blood, and when it comes to servicing them, the same second nature applies. We're never more than a phone call or email away, and because we're always ready, willing and able to help, we do. We make snow blowers, but we're also in the uptime business, and if anyone understands the importance of continuous operation both in getting the job done and clearing the bottom line, it's us, it's us. We've mastered the art of finding solutions.



GLOBAL DEALER NETWORK



OUR INTERNATIONAL FOOTPRINT

Larue is established in 13 countries with over 60 locations serving a wide customer base. Our extensive dealer network provides convenient service points, stock our quality OEM parts, and are the surest way to keep your Larue running like new.





CONTRACTORS



MUNICIPALITIES & DOT



AIRPORTS

**VISIT,
FOLLOW
& WATCH**



@LARUESNOWBLOWERS

Sourcewell
Awarded Contract
Contract # 030816-AL



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laruesnowblowers.com

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LARUESNOWBLOWERS.COM

MAY 2022



LARUE 2 YEARS LIMITED WARRANTY

COVERAGE

J.A. LARUE inc. "LARUE" warrants new equipments sold by it, to be free from defects in material and workmanship. This warranty applies to new Equipments delivered to the first user.

This warranty covers any failures of the Equipment under normal use and service, which result from a defect in material or factory workmanship (Warrantable Failures). Coverage begins with the delivery of the Equipment to the first user and continues for two (2) year or **2000 hours of operation**, whichever occurs first. From the date of delivery of the Equipment to the first user or from the date the unit is first leased, rented or loaned or when the Equipment has been operated for 50 hours, whichever occurs first.

This warranty is applicable to all owners in the chain of distribution up to the first user. The coverage does not continue to subsequent user-owner even if the period of coverage is not terminated.

Specific warranty clauses in the signed LARUE sale contract prevail on this warranty coverage. Public bid warranty specifications in which LARUE has consented to comply prevails on this warranty coverage.

The engine(s) base and extended warranty coverage as described by the manufacturer warranty documentation prevails on LARUE Limited warranty. In addition, the warranty works must be executed directly by the manufacturer. Equally and when applicable, it is also valid for Allison Automatic Transmission.

This warranty is limited to the repair or replacement of defective parts and shall constitute fulfillment of all liabilities of LARUE. In no event shall LARUE or the VENDOR assume, in favor of any customer or third party, any liability for loss of time, inconvenience, commercial loss, consequential damages or any other type of damages whatsoever.

LARUE'S RESPONSABILITIES

If a defect in material or workmanship is found during the base warranty period, LARUE will, during normal working hours and through a place of business of a LARUE authorized Service Center:

- Provide new, remanufactured or approved repaired parts or assembled components needed to correct the defect. Item replaced under this warranty become the property of LARUE;
- Replace lubricating oil, filters, coolant and other service items made unusable by the defect.



VENDOR'S RESPONSABILITIES

The VENDOR'S who has sold the new equipment is responsible for:

- Providing proof of the delivery date to the first user;
- Completing the PRODUCT Registration Certificates and returning immediately to LARUE upon delivery to the owner in order to activate and validate the warranty.
- Completing when required, the Warranty Claim Form supplied by the COMPANY and completed with as much comprehensive details as possible;
- Providing travel labor, up to four hours round trip, if in the opinion of the VENDOR, the product cannot reasonably be transported to a place of business of a LARUE authorized Service Center or other source approved by LARUE (travel labor in excess of four hours round trip, and any meals, mileage, lodging, etc. is the owner's responsibility).

OWNER'S RESPONSABILITIES

The owner is responsible for:

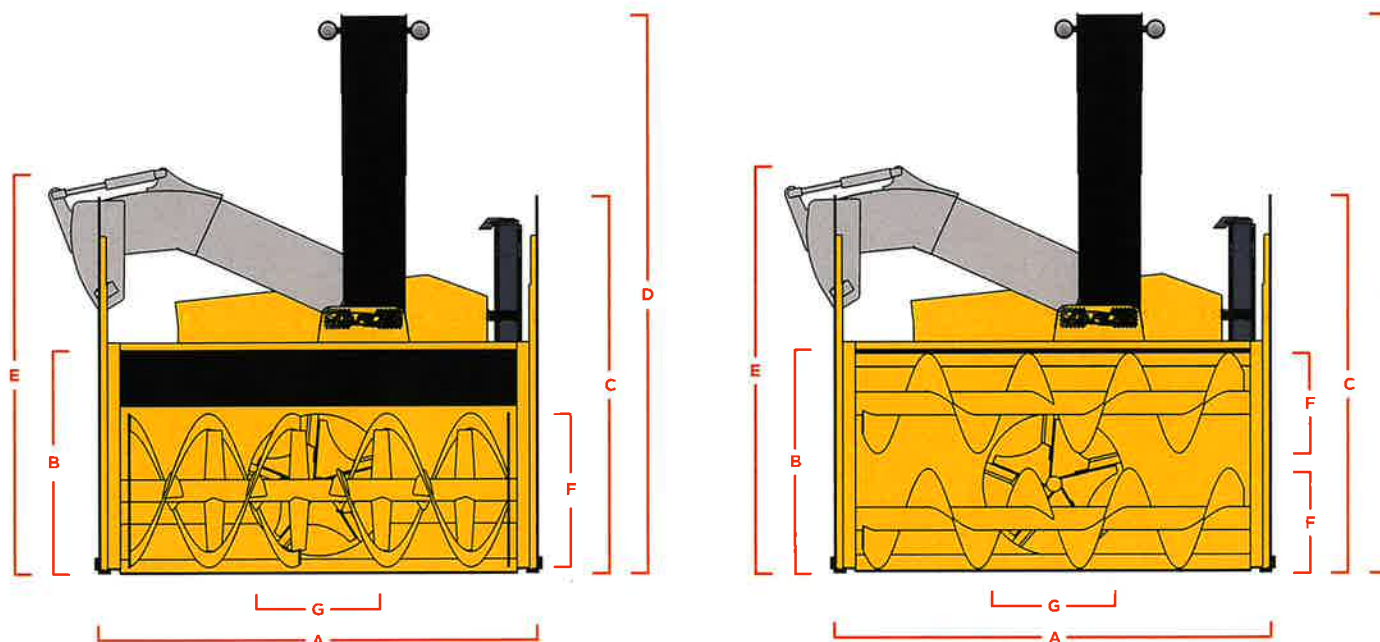
- Owner is responsible for the operation and maintenance of the Equipment as specified in the LARUE Operation and Maintenance Manual. Owner is also responsible for providing proof that all recommended maintenance has been performed;
- Labor costs, except as stated under "LARUE RESPONSABILITIES";
- To disconnect and reconnect the Equipment from other Equipment;
- Travel expenses not covered under "LARUE RESPONSABILITIES";
- All costs associated with transporting the product to and from the place of business of a LARUE authorized Service Center or a dealer or other source approved by LARUE;
- Overtime labor costs;
- Parts shipping charges in excess of those that are usual;
- Local taxes, if applicable;
- Costs to investigate complaints, unless the problem is caused by a defect in LARUE material or workmanship;
- Giving timely notice of a warrantable failure and promptly making the product available for repair;
- Performance of the required maintenance (including use of proper liquid such as fuel, oil, lubricants and coolant) and items replaced due to normal wear and tear;
- Allowing LARUE access to all electronically stored data;
- Owner is responsible for non-Equipment repairs, "downtime" expenses, fines, all applicable taxes, all business costs and other losses resulting from a Warrantable Failure.



LIMITATIONS

- LARUE is not responsible for failure or damage results from:
 - Any use or installation which LARUE judges improper.
 - Attachments, accessory items and parts not sold or approved by LARUE.
 - Abuse, neglect including but not limited to operation without adequate lubricants or other liquid, improper storage, warm up.
 - User's delay in making the product available after being notified of a potential product problem.
 - Unauthorized repair, adjustments, modification of the equipment.
 - Damage to parts, fixtures, housings, attachments, and accessory items, which are not part of the Equipment.
- LARUE does not cover wear or wear out of covered parts.
- LARUE is not responsible for incidental or consequential damages.
- The performance of repairs is the exclusive owner's remedy under this warranty. LARUE does not authorize any person to assume or create for it any other obligation or liability in connection with the equipment.

D-SERIES TWO-STAGE DIMENSIONS



IMPERIAL

STANDARD SPECIFICATIONS	D25	D30	D35	D40	D45	D50	D55	D60	D65
A WORKING WIDTH*	91 IN	102 IN		110 IN			114 IN		
B WORKING HEIGHT	42 IN	52 IN		54 IN		55 IN		60 IN	
C DRIFT CUTTERS HEIGHT	72 IN		84 IN				98 IN		
D TRUCK LOADING HEIGHT*	125 IN		129 IN				139 IN		
E TRANSPORTATION HEIGHT³	87 IN	97 IN		93 IN		104 IN		105 IN	
F RIBBON / AUGER DIAMETER	28 IN	2 X 17 IN	32 IN	2 X 17 IN	32 IN	2 X 20 IN	36 IN	2 X 26 IN	40 IN
G IMPELLER DIAMETER	28 IN		34 IN				40 IN		

* Working width can be extended by 6" or 12" with the widening kit option.

³ Truck loading height can be extended by 18" or 30" with the telescopic chute extension option.

METRIC

STANDARD SPECIFICATIONS	D25	D30	D35	D40	D45	D50	D55	D60	D65
A WORKING WIDTH*	2,311 MM	2,591 MM		2,794 MM			2,896 MM		
B WORKING HEIGHT	1,067 MM	1,321 MM		1,372 MM		1,397 MM		1,524 MM	
C DRIFT CUTTERS HEIGHT	1,829 MM		2,134 MM				2,489 MM		
D TRUCK LOADING HEIGHT*	3,175 MM		3,277 MM				3,531 MM		
E TRANSPORTATION HEIGHT	2,210 MM	2,464 MM		2,362 M		2,642 MM		2,667 MM	
F RIBBON / AUGER DIAMETER	711 MM	2 X 432 MM	813 MM	2 X 432 MM	813 MM	2 X 508 MM	914 MM	2 X 660 MM	1,016 MM
G IMPELLER DIAMETER	711 MM		864 MM				1,016 MM		

* Working width can be extended by 152 or 304 mm with the widening kit option.

³ Truck loading height can be extended by 457 or 762 mm with the telescopic chute extension option.



ZF 85 IV

12° V-drive, direct mount marine transmission.

Maximum Input**

Duty	kW	hp	RPM
Pleasure	389	522	3500
Light	365	489	3500
Medium	311	416	3500
Continuous	232	311	3200

** Must not be exceeded

Description

- Reverse reduction marine transmission with hydraulically actuated multi-disc clutches .
- Suitable for high performance applications in luxury motoryachts, sport fishers, express cruisers etc .
- Compatible with all types of engines and propulsion systems, including waterjets and surface- piercing propellers, as applicable .
- Robust design also withstands continuous duty in workboat applications .
- Fully works tested, reliable and simple to install .
- Design, manufacture and quality control standards comply with ISO 9001 .

Features

- B/W connection integrated with casing .
- Case hardened and precisely ground gear teeth for long life and smooth running .
- Smooth and reliable hydraulic shifting with control lever for attachment of push-pull cable .
- Suitable for twin engine installations (same ratio and torque capacity in ahead or astern mode) .
- Compact, space saving design; 12° vee-angle and beveloid gear .
- Output shaft thrust bearing designed to take maximum propeller thrust astern and ahead .
- Oil drain plug .
- Lightweight and robust aluminum alloy casing (sea water resistant) .
- Replaceable oil filter .
- "SUPERSHIFT" clutch control .
- Integrated bosses for speed pick-up installation at output flange .

Options

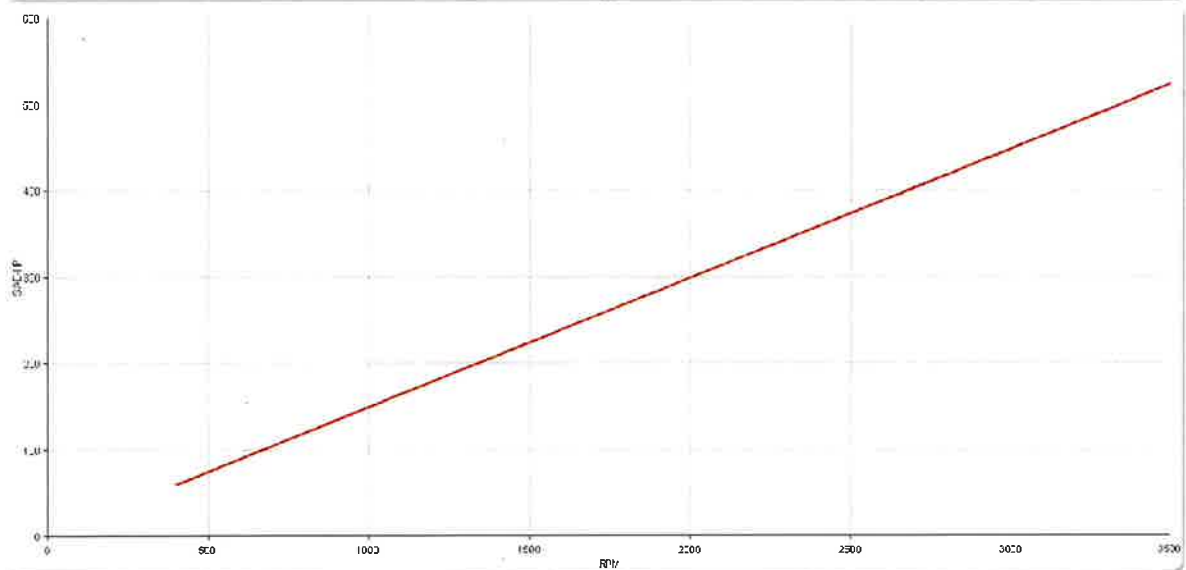
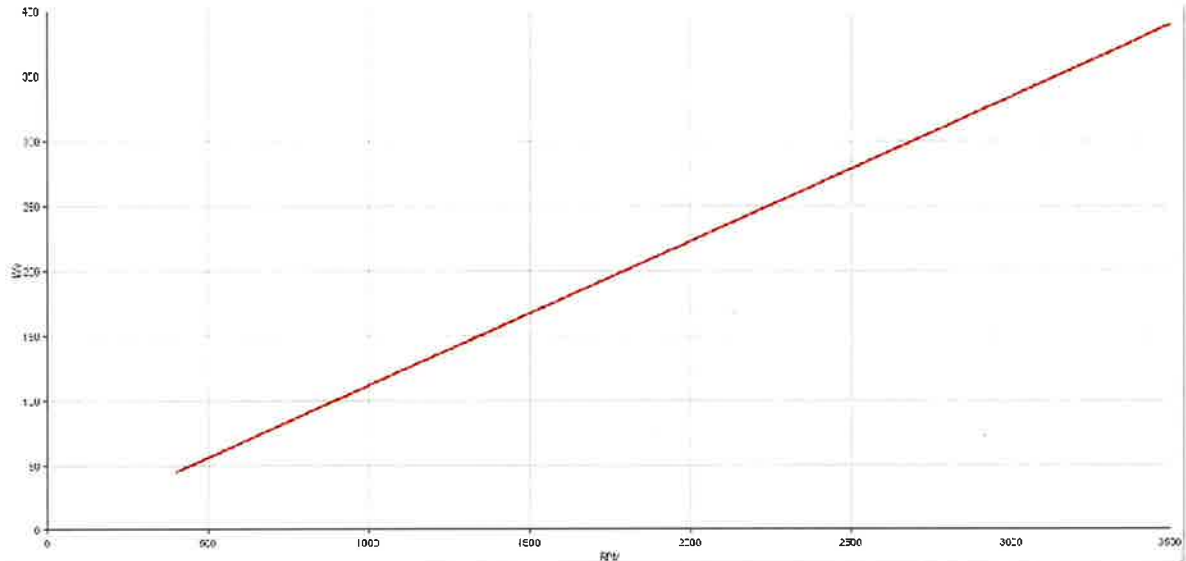
- Classification by all major Classification Societies on request .
- Control cable bracket for mounting of push-pull cable to the control lever .
- Engine-matched dual stage coupling .
- Mounting brackets .
- Oil cooler complete with fittings and flexible oil hoses .
- Propeller shaft flange .
- SAE «A» Power Take Off .
- SAE 2 and SAE 3 bell housings .
- Trolling valve (mechanical) for slow-speed drive .
- Thermostatic valve for better performance of trolling valve in cold sea water .
- Electric Trolling .
- Supershift (with Autotroll and Easidock) .

ZF 85 IV

Ratings

Pleasure Duty

RATIOS			MAX. TORQUE		POWER/RPM		MAXIMUM RATED POWER						MAX. RPM
'A' Pos	'B' Pos	Nm	ftlb	kW	hp	2800 rpm		3000 rpm		3300 rpm			
						kW	hp	kW	hp	kW	hp		
	1.644	1.638	1064	785	0.1114	0.1494	312	418	334	448	368	493	3500
	2.008	1.996	1064	785	0.1114	0.1494	312	418	334	448	368	493	3500
	2.493	2.468	1064	785	0.1114	0.1494	312	418	334	448	368	493	3500



"A" POS = continuous running position (normally AHEAD). "B" POS = reverse position. B/W = Borg Warner adaptor.

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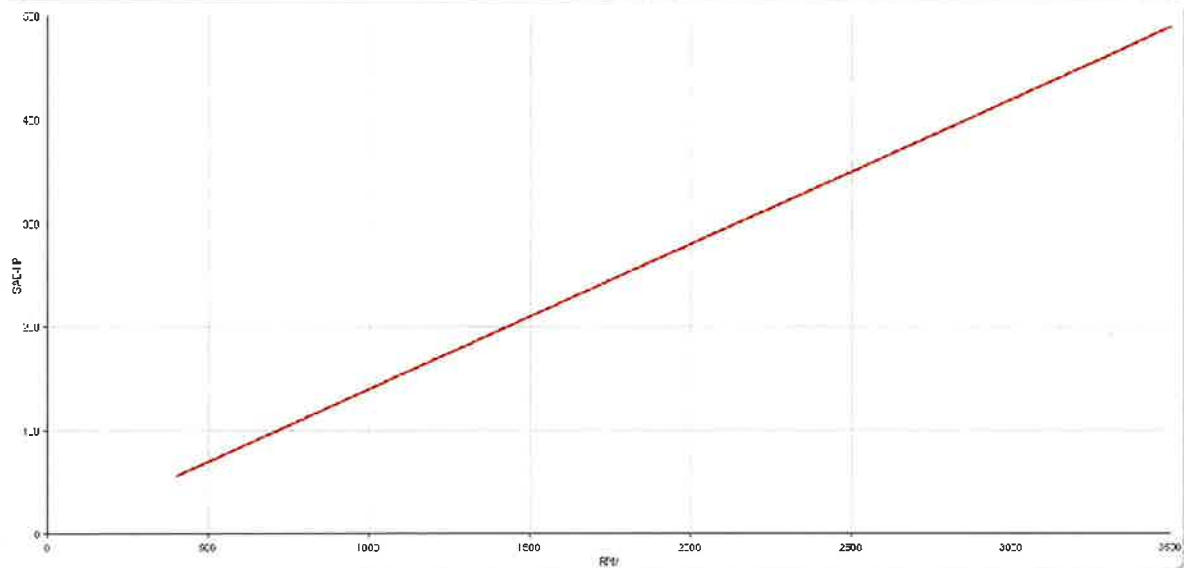
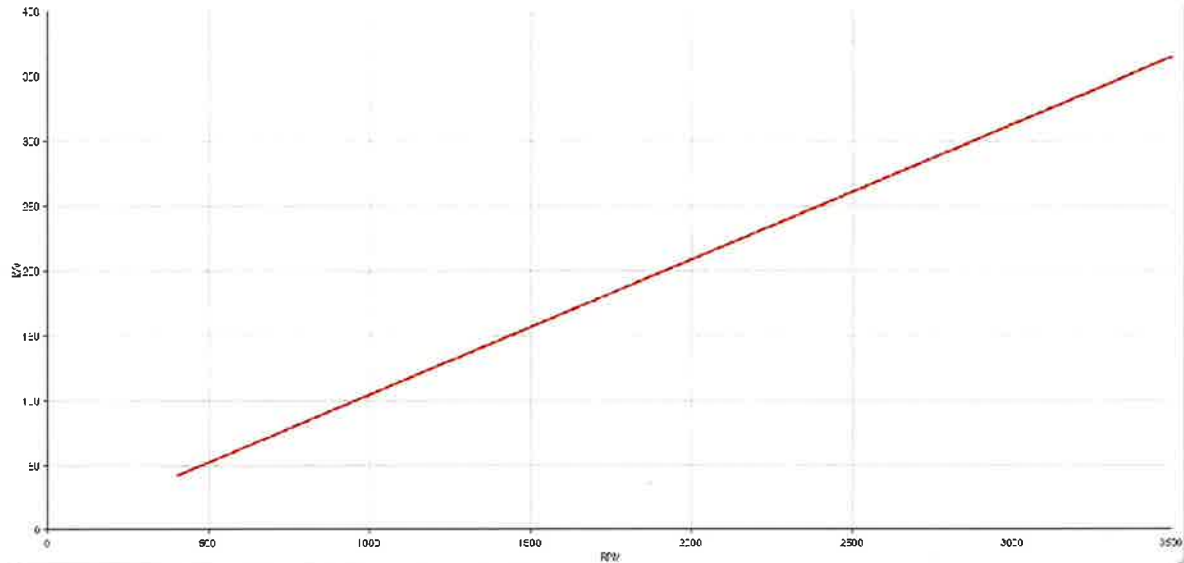
* Special Order Ratio

ZF 85 IV

Ratings

Light Duty

RATIOS			MAX. TORQUE		POWER/RPM		MAXIMUM RATED POWER						MAX. RPM
'A' Pos	'B' Pos	Nm	ftlb	kW	hp	2100 rpm		2500 rpm		2800 rpm			
	1.644	1.638	996	735	0.1043	0.1399	219	294	261	350	292	392	
	2.008	1.996	996	735	0.1043	0.1399	219	294	261	350	292	392	
	2.493	2.468	996	735	0.1043	0.1399	219	294	261	350	292	392	



"A" POS = continuous running position (normally AHEAD). "B" POS = reverse position. B/W = Borg Warner adaptor.

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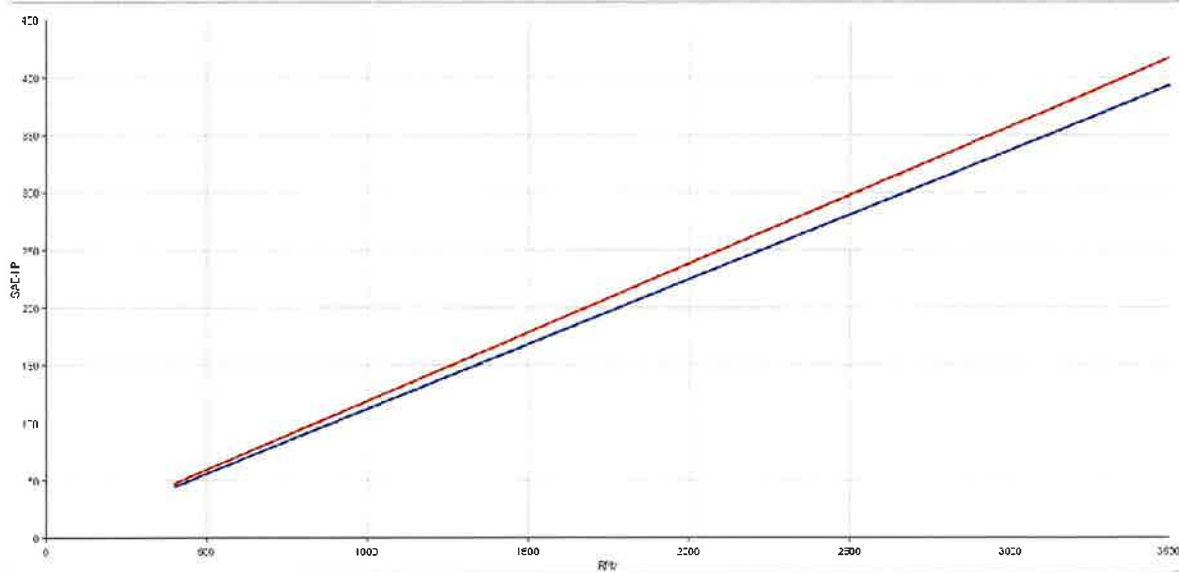
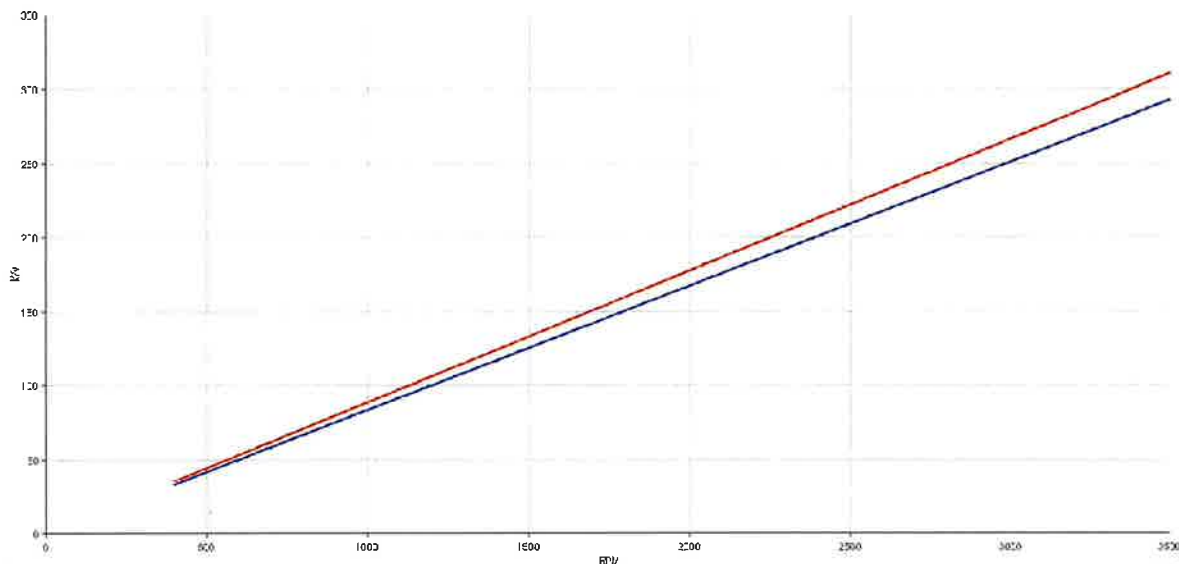
* Special Order Ratio

ZF 85 IV

Ratings

Medium Duty

RATIOS		MAX. TORQUE		POWER/RPM		MAXIMUM RATED POWER						MAX. RPM	
'A' Pos	'B' Pos	Nm	ftlb	kW	hp	2100 rpm		2500 rpm		2800 rpm			
						kW	hp	kW	hp	kW	hp		
	1.644	1.638	849	626	0.0889	0.1192	187	250	222	298	249	334	3500
	2.008	1.996	849	626	0.0889	0.1192	187	250	222	298	249	334	3500
	2.493	2.468	800	590	0.0838	0.1123	176	236	209	281	235	315	3500



"A" POS = continuous running position (normally AHEAD). "B" POS = reverse position. B/W = Borg Warner adaptor.

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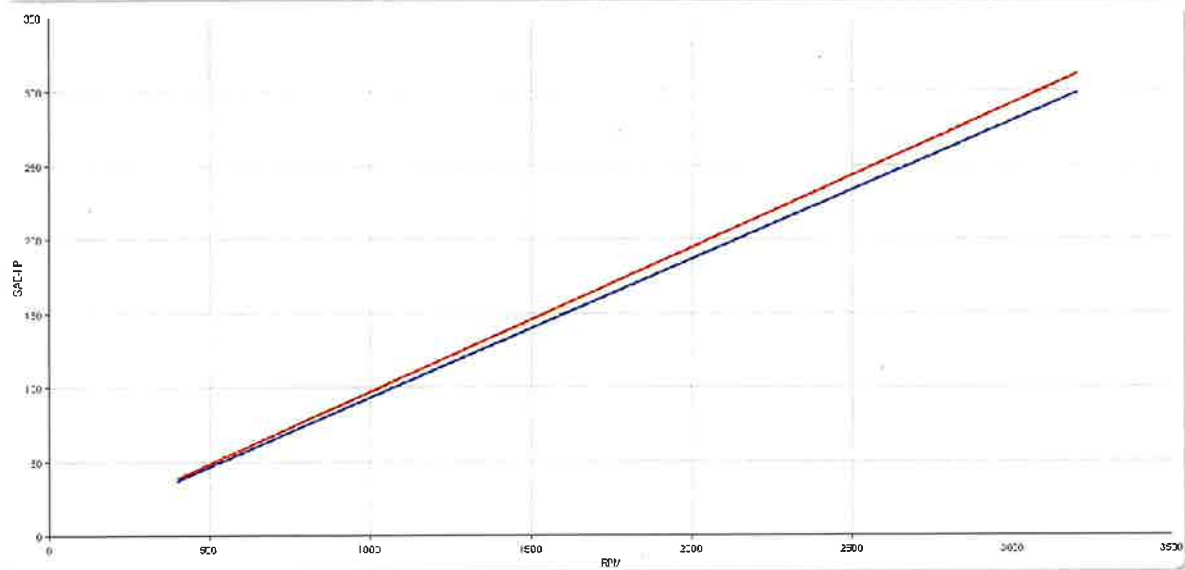
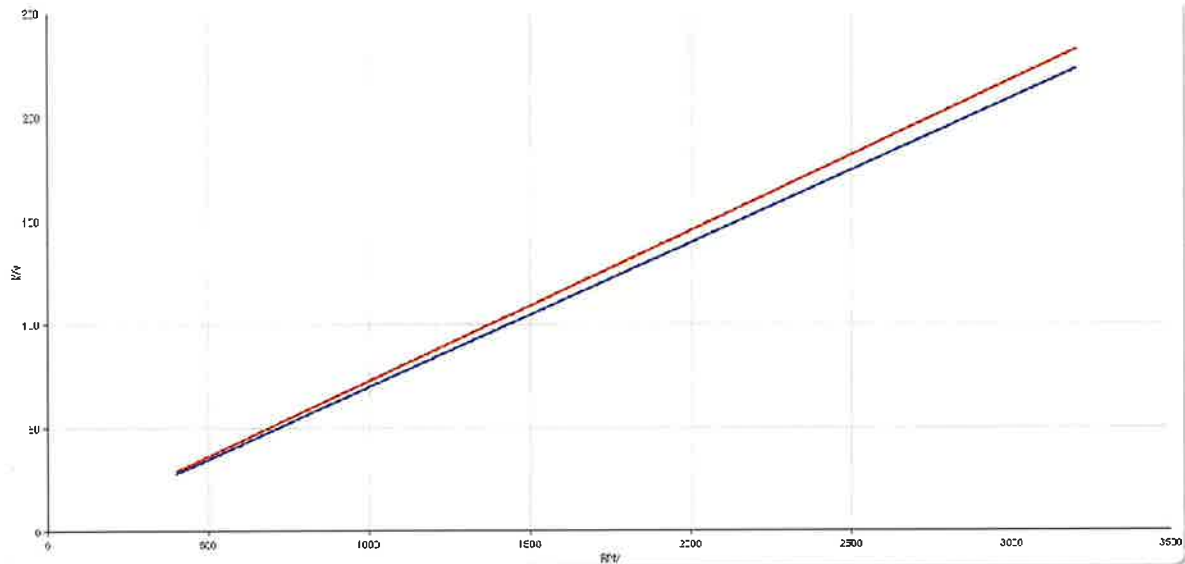
* Special Order Ratio

ZF 85 IV

Ratings

Continuous Duty

RATIOS		MAX. TORQUE		POWER/RPM		MAXIMUM RATED POWER						MAX. RPM	
'A' Pos	'B' Pos	Nm	ftlb	kW	hp	1800 rpm		2100 rpm		2400 rpm			
						kW	hp	kW	hp	kW	hp		
	1.644	1.638	693	511	0.0726	0.0973	131	175	152	204	174	234	3200
	2.008	1.996	693	511	0.0726	0.0973	131	175	152	204	174	234	3200
	2.493	2.468	665	490	0.0696	0.0934	125	168	146	196	167	224	3200



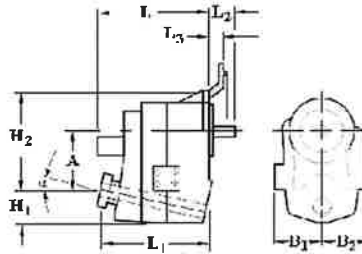
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* Special Order Ratio

ZF 85 IV

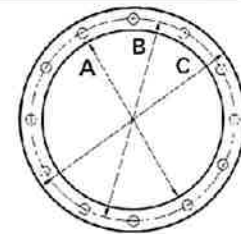
Dimensions



mm (inches)										
Angle	A	B ₁	B ₂	H ₁	H ₂	L	L ₁	L ₂	L ₃	Bell Hsg.
12.0	246 (9.69)	190 (7.48)	190 (7.48)	132 (5.20)	389 (15.3)	370 (14.6)	375 (14.8)	76.0 (2.99)	11.0 (0.43)	3
Weight kg (lb)						Oil Capacity Litre (US qt)				
86.0 (189)						7.00 (7.40)				

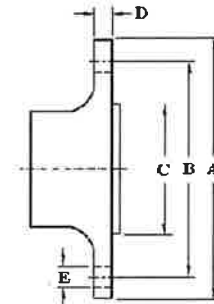
SAE Bell Housing Dimensions

SAE No.	A		B		C		Bolt Holes		
							No.	Diameter	
	mm	in	mm	in	mm	in		mm	in
2	447.68	17.625	466.73	18.375	488.95	19.25	12	10.32	13/32



Output Coupling Dimensions

A		B		C		D		Bolt Holes		
								No.	Diameter (E)	
mm	in	mm	in	mm	in	mm	in		mm	in
146	5.75	121	4.75	76.2	3.00	16.0	0.63	6	13.0	0.51



Duty Definitions

- PLEASURE DUTY DEFINITION** Highly intermittent operation with very large variations in engine speed and power
Average engine operating 500 hours/year
hours limit: 300 hours/year for mechanical gearboxes
Typical hull forms: Planing.
Typical applications: Private, non-commercial, non-charter sport/leisure activities.
- LIGHT DUTY DEFINITION** Intermittent operation with large variations in engine speed and power
Average engine operating 2500 hours/year
hours limit: (for hydraulic gearboxes smaller than the ZF 650 series, 2000 hours/year).
Typical hull forms: Planing and semi-displacement.
Typical applications: Private and charter, sport/leisure activities, naval and police activities.
- MEDIUM DUTY DEFINITION** Intermittent operation with some variations in engine speed and power
Average engine operating 4000 hours/year.
hours limit: 3500 hours/year for gearboxes smaller than ZF 2000 series and workboat ZF W2700 series.
Typical hull forms: Semi-displacement and displacement
Typical applications: Charter and commercial craft (example: crew boats and fast ferries), and naval and police activities.
- CONTINUOUS DUTY DEFINITION** Continuous operation with little or no variations in engine speed and power
Average engine operating Unlimited
hours limit:
Typical hull forms: Displacement.
Typical applications: Heavy duty commercial vessels, tugs, fishing boats.

Duty Ratings

Ratings apply to marine diesel engines at the indicated speeds. At other engine speeds, the respective power capacity (kW) of the transmission can be obtained by multiplying the Power/Speed ratio by the speed.

Approximate conversion factors:

- 1 kW = 1.36 metric hp
- 1 kW = 1.34 U.S. hp (SAE)
- 1 U.S. hp = 1.014 metric hp
- 1 Nm = 0.74 lb.ft.

Ratings apply to right hand turning engines, i.e. engines having counterclockwise rotating flywheels when viewing the flywheel end of the engine. These ratings allow full power through forward and reverse gear trains, unless otherwise stated.

Contact your nearest ZF Sales and Service office for ratings applicable to gas turbines, gasoline (petrol) engines, as well as left hand turning engines, and marine transmissions for large horsepower capacity engines.

Ratings apply to marine transmissions currently in production or in development and are subject to change without prior notice.

NOTE: THE MAXIMUM RATED INPUT POWER MUST NOT BE EXCEEDED (SEE RESPECTIVE RATINGS IN THE TECHNICAL DATA SHEETS)

Safe Operating Notice

The safe operation of ZF products depends upon adherence to technical data presented in our brochures. Safe operation also depends upon proper installation, operation and routine maintenance and inspection under prevailing conditions and recommendations set forth by ZF. Damage to transmission caused by repeated or continuous emergency manoeuvres or abnormal operation is not covered under warranty. It is the responsibility of users and not ZF to provide and install guards and safety devices, which may be required by recognized safety standards of the respective country (e.g. for U.S.A. the Occupational Safety Act of 1970 and its subsequent provisions).

Monitoring Notice

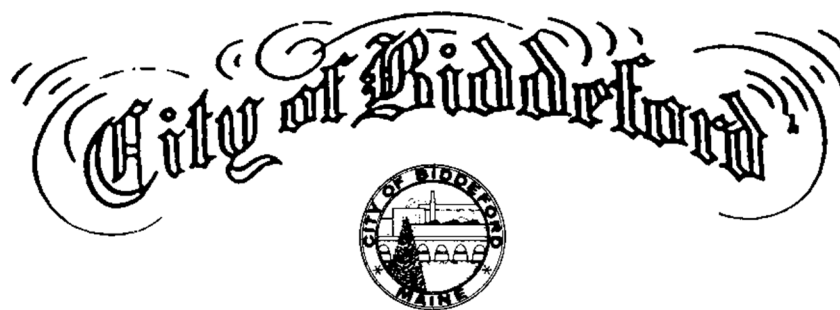
The safe operation of ZF products depends upon adherence to ZF monitoring recommendations presented in our operating manuals, etc. It is the responsibility of users and not ZF to provide and install monitoring devices and safety interlock systems as may be deemed prudent by ZF. Consult ZF for details and recommendations.

Torsional Responsibility and Torsional Couplings

The responsibility for ensuring torsional compatibility rests with the assembler of the drive and driven equipment. ZF can accept no liability for gearbox noise caused by vibrations or for damage to the gearbox, the flexible coupling or to other parts of the drive unit caused by this kind of vibration. Contact ZF for further information and assistance. ZF recommends the use of a torsional limit stop for single engine powered boats, wherein loss of propulsion power can result in loss of control. It is the buyer's responsibility to specify this option, which can result in additional cost and a possible increase in installation length.

ZF can accept no liability for personal injury, loss of life, or damage or loss of property due to the failure of the buyer to specify a torsional limit stop. ZF selects torsional couplings on the basis of nominal input torque ratings and commonly accepted rated engine governed speeds. Consult ZF for details concerning speed limits of standard offering torsional couplings, which can be less than the transmission limit. Special torsional couplings may be required for Survey Society Ice Classification requirements.





2022.79

IN BOARD OF CITY COUNCIL..SEPTEMBER 20, 2022

BE IT ORDERED, that the City Manager be authorized to enter into an agreement with United Construction & Forestry for one 2022 John Deere Loader and one RPM Snow Blower in the amount of \$465,540 to be used as Snow Removal Equipment (SRE) at the Biddeford Municipal Airport. Funding will breakdown as follows: \$400,000 through Maine Department of Transportation Grant; \$65,540 from FY22 Capital Improvement Projects Fund.

Note: The Finance Committee will consider this item at their September 20, 2022 meeting and make a recommendation to the Council.



Finance Committee/City Council

Meeting Date: 9/20/2022
Meeting Time: 5:00 pm/6:00 pm

Agenda Item No: 9.e
Item Description: 2022.82) Authorization/Purchase Grader

Submitted by: Jeff Demers, Public Works Director
Jerry Court, DPW Garage Manager

Supporting Information/Documentation:

- Source well bidding
- John Deere 672G Grader
- Grader wing
- Winter tires

Executive Summary:

The Public Works Department is seeking approval to purchase (1) John Deere motor grader 672G. (1) Henke 12' postless Grader wing. (1) set of Winter tires through New England truck tire.

Detailed Review:

Public Works is requesting to purchase a new 2022 John-Deere grader and wing. Source well was used as the bidding process. Staff is recommending purchasing a set of winter tires through New England truck tire. The reason for the separate tire purchase is due to the fact that the grader comes stock with summer tires. The city will be saving a total of \$4,092.00 purchasing the winter tires through new England tire.

Public works is looking for the authorization from finance and council to move forward with the purchase of one grader from United Construction.

Funding Source:

John Deere Grader, wing and tires are being funded by the 2022 Capital Improvement plan.

Staff Recommendation:

Staff is recommending the purchase through United Construction for a total price of

- Grader New \$337,000 – Trade \$28,000 Total sum = \$309,000
- Grader Wing for snow plowing \$24,938
- Winter tires (New England truck tire) \$8908.70

Grand Total = \$342,846.70

FORM E**CONTRACT ACCEPTANCE AND AWARD**

(Top portion of this form will be completed by Sourcewell if the vendor is awarded a contract. The vendor should complete the vendor authorized signatures as part of the RFP response.)

Sourcewell Contract #: 032119-JDC

Proposer's full legal name: John Deere Construction Retail Sales

Based on Sourcewell's evaluation of your proposal, you have been awarded a contract. As an awarded vendor, you agree to provide the products and services contained in your proposal and to meet all the terms and conditions set forth in this RFP, in any amendments to this RFP, and in any exceptions that are accepted by Sourcewell.

The effective date of the Contract will be May 13, 2019 and will expire on May 13, 2023 (no later than the later of four years from the expiration date of the currently awarded contract or four years from the date that the Sourcewell Chief Procurement Officer awards the Contract). This Contract may be extended for a fifth year at Sourcewell's discretion.

Sourcewell Authorized Signatures:

DocuSigned by:

Jeremy Schwartz

Jeremy Schwartz
(NAME PRINTED OR TYPED)

COED2A139D06489
SOURCEWELL DIRECTOR OF OPERATIONS AND
PROCUREMENT/CPO SIGNATURE

DocuSigned by:

Chad Coquette

Chad Coquette
(NAME PRINTED OR TYPED)

7E42B8F817A84CC...
SOURCEWELL EXECUTIVE DIRECTOR/CEO SIGNATURE

Awarded on May 10, 2019

Sourcewell Contract # 032119-JDC

Vendor Authorized Signatures:

The Vendor hereby accepts this Contract award, including all accepted exceptions and amendments.

Vendor Name John Deere Construction Retail Sales

Authorized Signatory's Title Manager, Contract Sales

Mark Oliver

VENDOR AUTHORIZED SIGNATURE

Mark Oliver

(NAME PRINTED OR TYPED)

Executed on 10 May, 2019

Sourcewell Contract # 032119-JDC

Proposal Opening Record

Date of opening: March 22, 2019

The public opening of all responses received to the Request For Proposal #032119 for the procurement of HEAVY CONSTRUCTION EQUIPMENT WITH RELATED ACCESSORIES, ATTACHMENTS, AND SUPPLIES was witnessed by the following individuals:

Carol Jackson, Sourcewell
Sheila Christoffersen, Sourcewell
Kim Austin, Sourcewell
Steff Haataja, Sourcewell
Greg Grunig, Sourcewell
Craig West, Sourcewell
James Voelker, Sourcewell
Michael Munoz, Sourcewell
Scott Carr, Sourcewell
Chris Robinson, Sourcewell
Josh Meech, Sourcewell

Responses were received from the following:

BOMAG Americas, Inc. - received 3/21/19 at 11:25:14 AM

Proposer deemed responsive

Caterpillar Inc. – received 3/15/19 at 11:08:37 AM

Proposer deemed responsive

CNH Industrial America LLC – received 3/15/19 at 11:08:27 AM

Proposer deemed responsive

Doggett Heavy Machinery - received 3/20/19 at 11:48:28 AM

Proposer deemed Level-One Non-Responsive

Form A not completed

Form C not signed

Form P not completed

Doosan Infracore North America, LLC – received 3/19/19 at 11:33:03 AM

Proposer deemed responsive

Dynapac North America LLC – received 3/20/19 at 11:05:58 AM

Proposer deemed responsive

Certificate of Insurance omitted

Grove U.S. L.L.C. (dba Manitowac) - received 3/19/19 at 11:17:18 AM

Proposer deemed responsive

Hyundai Construction Equipment Americas, Inc. – received 3/20/19 at 11:05:26 AM

Proposer deemed responsive

John Deere Construction Retail Sales - received 3/19/19 at 11:17:12 AM

Proposer deemed responsive

Kobelco Construction Machinery USA, Inc. – received 3/12/19 at 11:55:55 AM

Proposer deemed responsive

Komatsu America Corp. – received 3/19/19 at 11:32:55 AM

Proposer deemed responsive

Link Belt Cranes - received 3/21/19 at 11:25:06 AM

Proposer deemed responsive

Roadtec, Inc – received 3/19/19 at 11:32:46 AM

Proposer deemed responsive

Volvo Construction Equipment North America, LLC – received 3/18/19 at 11:45:54 AM

Proposer deemed responsive

Addendum One omitted

Volvo Construction Equipment North America, LLC – received 3/20/19 at 11:48:32 AM

Proposer deemed responsive

Addendum One added to original proposal

Wirtgen America, Inc. – received 3/20/19 at 11:05:34 AM

Proposer deemed responsive

Proposals are evaluated first on level-one responsiveness and that determination is noted above. Level-one responsiveness requires, among other things, that the response be received before the deadline for the submission and that the response include completed copies (with signatures) of the requested forms.

Proposers that are deemed level-one responsive must provide any missing documentation or remedy a noted deficiency within a reasonable time in order to remain responsive. Respondents must not provide additional substantive information when sending missing documentation.

DocuSigned by:
James Voelker
15F6CCFFA61E4A0...

James Voelker, CPCM, CFCM, Procurement Lead Analyst

DocuSigned by:
Carol Jackson
6EE63AEDED5F46E...

Carol Jackson, Procurement Analyst III

Quote Id: 27348892

30 August 2022

JERRY COURT
CITY OF BIDDEFORD
PUBLIC WORKS DEPARTMENT
BIDDEFORD, ME 04005

Thank you for the opportunity to quote a new 2022 John Deere 672G
AWD Motor Grader IN STOCK.

Included in the quote attached:

Full machine standard factory warranty for 12 months unlimited hours

72 Month / 3,000 Hours of Powertrain Plus hydraulics Extended Warranty

FULL TEST or TECHNICAL Manuals on USB (what our techs have)

Delivery to HP Fairfield for Wing install and transportation back to City of
Biddeford. (HP FAIRFIELD PLOW QUOTE NOT INCLUDED IN THIS
QUOTE)

JDLINK Unlimited

Operator training and Operators Manual

Transportation of trade grader to Westbrook

Thank you and I look forward to earning your business,
Peter Sanborn 207-274-0896

PETER SANBORN
207-773-3777
United Construction & Forestry

Quote Summary

Prepared For:

JERRY COURT
CITY OF BIDDEFORD
JERRY COURT
PUBLIC WORKS DEPARTMENT
371 Hill St
BIDDEFORD, ME 04005
Mobile: 207-282-1579
Jerry.court@biddefordmaine.org

Prepared By:

PETER SANBORN
United Construction & Forestry
396 County Road
Westbrook, ME 04092
Phone: 207-773-3777
peter.sanborn@ucfne.com

Quote Id: 27449826

Created On: 16 September 2022

Last Modified On: 16 September 2022

Expiration Date: 23 September 2022

Equipment Summary

	Selling Price	Qty	Extended
2022 JOHN DEERE 672G MOTOR GRADER with 6WD - 1DW672GPJNF715832	\$ 337,000.00 X	1 =	\$ 337,000.00
PTH extended Warranty 72 Months/3000 Hours	\$ 0.00 X	1 =	\$ 0.00

Equipment Total
\$ 337,000.00
Trade In Summary

	Qty	Each	Extended
1988 CATERPILLAR 140G - 72V11135	1	\$ 28,000.00	\$ 28,000.00
PayOff			\$ 0.00
Total Trade Allowance			\$ 28,000.00

Trade In Total
\$ 28,000.00
Quote Summary

Equipment Total	\$ 337,000.00
Trade In	\$ (28,000.00)
Filing / Origination Fees	\$ 0.00
SubTotal	\$ 309,000.00
Est. Service Agreement Tax	\$ 0.00
Total	\$ 309,000.00
Down Payment	(0.00)
Rental Applied	(0.00)
Balance Due	\$ 309,000.00

Salesperson : X _____

Accepted By : X _____

Selling Equipment

Quote Id: 27348892

Customer: CITY OF BIDDEFORD

2022 JOHN DEERE 672G MOTOR GRADER with 6WD - 1DW672GPJNF715832

Hours: 3

Stock Number: 298000

Code	Description	Qty
8450T	JOHN DEERE 672G MOTOR GRADER	1

Standard Options - Per Unit

170K	JDLINK	1
1020	ELECTRO HYDRAULIC CONTROLS	1
1140	9.0L ENG,EPA FINAL TIER IV	1
1240	ALTERNATOR 200 AMP	1
1310	QUICK SERVICE GROUP	1
1410	STANDARD FUEL LINES	1
1610	HYDRAULIC PUMP DISCONNECT	1
1830	BLACK EXHAUST STACK	1
1910	BLADE IMPACT ABSORPTION SYST	1
2080	14'X27"X1" MB (8" CE X3/4")	1
2575	NOT TOPCON READY	1
2605	ENGLISH LABELS & DECALS	1
2775	NO TOPCON RADIO INSTALLATION	1
2820	SNGL INPUT W/ SLIP CLUTCH	1
4924	17.5R25 G2/L2 1*NBP 3PC RIM	1
5060	EH LOW CAB W/ WINDOWS	1
5520	NO AUTOSHIFT TRANSMISSION	1
5710	TRANS VALVE SOLENOID GUARD	1
5830	HYDRAU ALL SEASON XR	1
6030	NO CAB PRECLEANER	1
6140	PREM POST/CONT FAB EH CNTRLS	1
6590	EH FRT W 1AUX/MID W 3AUX	1
6650	EH PLACE HOLDER	1
6750	NO FRONT MOUNTED ATTACHMENTS	1
6850	NO REAR MOUNTED ATTACHMENTS	1
7160	DLX LIGHTING PKG W/HAL +8XTR	1
7820	NO FRONT FENDERS	1
8120	CONVERTER, 25 AMP 24V TO 12V	1
8220	MIRRORS, EXTERNAL HEATED	1
8310	LOWER FRONT INT WIPER/WASHER	1
8415	RADIO AM/FM/WB BLUETOOTH	1
8510	A/C - CHARGE	1

Selling Equipment

Quote Id: 27348892

Customer: CITY OF BIDDEFORD

8720	NO SOUND ABSORPTION PKG	1
8830	REAR CAMERA (R4)	1
9210	PEDAL DECELERATOR	1
9220	FIRE EXTINGUISHER	1
9280	SMV SIGN WITH BRACKET	1
9295	LH FLIP DOWN BEACON BRACKET	1
9360	HEATER ENG COOLANT	1
9370	ETHER AID - LESS CANISTER	1
9724	L2 1* NBP 3PC RIM	1

Dealer Attachments

MAXAM MS202 SNOWXTRA 2* TL	6
17.5R25 RADIAL SNOW TIRES - INSTALLED	

Value Added Services

PTH extended Warranty 72
Months/3000 Hours

Other Charges

Freight	1
Setup	1
freight to HP Fairfield and to customer	1
Snow Tires Installed	1
Discount	1
PDI	1

Trade In

Quote Id: 27348892

Customer: CITY OF BIDDEFORD

1988 CATERPILLAR 140G	
SN# 72V11135	
Machine Details	
Description	Net Trade Value
1988 CATERPILLAR 140G	\$ 28,000.00
SN# 72V11135	
Your Trade In Description	
Additional Options	
Hour Meter Reading	9178



CENTRAL MAINE
 9 Green SVP.O. Box 188
 Skowhegan, ME 04976
 P: (207) 474-9836
 F: (207) 474-6526
 Toll Free (800) 356-2813

Sales Quote

IMPORTANT: All invoices are due and payable in U.S. Dollars in Guadalupe County, Texas, or where indicated below. No goods to be returned without our written permission. Goods must be returned transportation charges pre-paid. A handling charge will be made on all returned goods. **LATE CHARGE:** A late charge of 1.5% of any past due balance of the dealers account as of the last day of the month will be billed as of the 15th day of the following month if payment has not been received by that date.

CUSTOMER NO	823158	TERRITORY	390	PAGE 1
ORDER DATE	08/29/2022	CUSTOMER PO	79297HOLSTON	
QUOTE DATE	08/29/2022	SHIPPED VIA		
SALES ORDER	6653746 - SQ	FREIGHT TERMS	EXW- CUSTOMER FRT ACCOUNT	
		EX2	DIRECT BILL TRANSFER AT ORIGIN	
PAYMENT TERMS	Net 30 Days from Invoice Date	CODE	002	
DELIVERY INSTRUCTIONS:				
			REQUESTED SHIP DATE	08/29/2022

SOLD TO:
 CITY OF BIDDEFORD CHP
 371 HILL ST
 BIDDEFORD ME 04005-4335

SHIP TO:
 CITY OF BIDDEFORD CHP
 371 HILL ST
 BIDDEFORD ME 04005-4335

DESCRIPTION/REMARKS							
HENKE PLHW-FL12 - 12' POSTLESS HYDRAULIC GRADER WING							
12' MOLDBOARD LENGTH, 3/16" THICK HIGH TENSILE STEEL ROLLED PLATE W/ BOX paneled design, LEADING END HEIGHT OF 28" & DISCHARGE END HEIGHT OF 38"							
POSTLESS MOTOR GRADER WING DESIGN WILL ALLOW FOR 26" OF BENCHING HEIGHT WHILE GIVING THE OPERATOR IMPROVED VISIBILITY FROM THE CAB & INCLUDES 6" OF MECHANICAL FLOAT, MUDROC VALVE THAT PREVENTS DAMAGE TO MOLDBOARD STOW CYLINDER THAT COULD OCCUR WHEN MACHINE ARTICULATES							
PUSH-BEAM MOUNT TO REAR RIPPER - Please verify at time of order							
SINGLE, NON-HYDRAULIC, SPRING-CUSHIONED PUSH-BEAM W/ MANUAL ADJUSTMENT FOR SWATH CONTROL							
INCLUDES PIPE BRACES, POST ATTACH PLATE, WING SAFETY CHAIN, HARDWARE BAG, UNIVERSAL HOSE KIT, 3/4" X 6" SAE 1084 HIGH CARBON STEEL CUTTING EDGE							
INSTALLED & PAINTED - POST & REAR PAINTED JD GRAY - MOLDBOARD & PUSHBEAM PAINTED JD YELLOW							
LEAD TIME IS 60-90 DAYS QUOTE VALID FOR 30 DAYS							
SIGNATURE _____							
PRINT _____ DATE _____							
STEVE HOLSTON 207-468-8453 SteveHolston@HPFairfield.com							
ITEM NUMBER	BRANCH	DESCRIPTION	PICK SLIP# LOT/SERIAL	QUANTITY SHIPPED	LIST PRICE	DISC%	EXTENDED AMOUNT
WINGSYSHPF	9335	WING SYSTEM QUOTE		1	24,938.00	0	24,938.00

REMARKS	NET DUE	CASH DISC.	IF PAID BY	SUB-TOTAL	24,938.00
	24,938.00	0.00	09/28/2022	FREIGHT & HANDLING	0.00
				SALES TAX	0.00
				TOTAL(USD)	24,938.00
				PREPAID AMOUNT	

IMPORTANT: Alamo Group or affiliates (Alamo Group) shall not be liable to any person for any claim for injuries or damages which claim for injuries or damages arises out of or which results from the repair of this product by a person or firm other than Alamo Group. Repair parts are intended for use only on equipment manufactured or sold by Alamo Group. Our general conditions of purchase are available at this address: <https://www.alamo-group.com/terms>



1:22 PM

Reprint

Page 1 of 1

ORDER NBR	CUSTOMER
132562-02	3893
ORDER DATE	Whse
9/8/2022	02
Standard Order	

** Acknowledgement **

Remit to: 38 Rainbow Lane, Sanford ME 04073

SOLD TO:
BIDDEFORD DPW
 371 HILL STREET
 BIDDEFORD, ME 04005

SHIP TO:
BIDDEFORD DPW
 371 HILL STREET
 BIDDEFORD, ME 04005

Attn: KARA COTE
 Phone: 207-282-1579

Fax: 207-286-9395

Attn: KARA COTE
 Phone: 207-282-1579

FLEET NUMBER		MILEAGE		CUST P. O.		TERMS		W/O #			
						NET 1st 10th					
VIN		VEHICLE DESCRIPTION		LICENSE		TECH I D		SALES I D		WRITTEN BY	
		grader				ZREIN		ZREIN		RBRAG	
Item Number / Description						QTY	Unit Price	EXCISE TAX	Extension		
OLAB OTR LABOR						4	\$164.95	\$0.00	\$659.80 N		
FSC FUEL SURCHARGE						1	\$21.50	\$0.00	\$21.50 G		
PTS OR25T O-Rings MISC PARTS						6	\$20.00	\$0.00	\$120.00 G		
TOLL TOLL CHARGES						2	\$4.00	\$0.00	\$8.00 G		
MIL MILEAGE CHARGE						32	\$1.75	\$0.00	\$56.00 N		
99466 17.5R25 SNO PLUS M&S						6	\$2,185.60	\$0.00	\$13,113.60 G		
04118 17.5R25 XTLA G2, L2 *						-6	\$921.20	\$0.00	(\$5,527.20) G		
DM 17.5R25 MOUNT AND DISMOUNT						6	\$75.00	\$0.00	\$450.00 N		
SS SHOP SUPPLY SHOP SUPPLY						1	\$7.00	\$0.00	\$7.00 N		

Subtotal: \$8,908.70
 5.5% Sales Tax: \$0.00

Received by: _____ PRINT NAME

Signature _____

TOTAL: \$8,908.70