



**VILLAGE OF WILMETTE
1200 Wilmette Ave
Wilmette, IL 60091**

Contract No. 19025

For:

Front-end Wheel Loader

With:

**West Side Tractor Sales Company
1560 N Old Rand Road
Wauconda, IL 60084**

Note: This cover sheet is an integral part of the contract documents, as are all of the following documents, and are a part of this contract as executed between the Village of Wilmette and West Side Tractor Sales Company. Do not detach any portion of this document. Invalidation could result.

1. The intent of the Agreement is to purchase a 2019 John Deere 624L 4WD Front-end Wheel Loader with a John Deere Powertech PVS 6.8L Turbo Diesel Engine rated at 203 HP ("Wheel Loader") per the Specification shown in Attachment One ("Attachment One") of this document. The Agreement is for the proposal offered by West Side Tractor Sales Company ("Vendor") to the Village of Wilmette ("Village"). This unit shall be built to last for a period of twenty (20) to twenty-two (22) years and both parts and service will be available for this unit during that period from the Vendor for this purchase.

2. This Addendum is made pursuant to the Bid dated May 22, 2019 attached as Attachment One and based on the Minnesota State bid discount. Together this Addendum, Certificate of Compliance and Attachment One shall comprise the Agreement between the parties.

3. Incorporation. This Addendum is incorporated into the Certificate of Compliance and Attachment One and the Agreement shall not be effective unless this Addendum is also executed by the Parties.

4. Total Contract Amount. The total amount of the Contract shall not exceed the following, including expenses.

Base Bid	\$ 302,931
Modification To Equipment:	
Replace Joystick Controls with Lever Controls	202
Additional Equipment:	
1. 5.25 YD Light Material Budget with Edge	9,662
2. Spare Tire and Rim, Mounted .	5,550
3. Auto Lube	6,455
4. Four (4) Corner LED Emergency Lighting and Customers Marker Lights	3,713
Warranty Three (3) yr/3,000 PT&H	1,345
Freight to Village	750
Minnesota State Bid Discount	(131,775)
Trade-in Credit	<u>(26,000)</u>
Net Contract Cost (not to exceed)	<u>\$ 172,833</u>

These prices include Product, Delivery and Warranty for the Wheel Loader with warranties and options as shown in Attachment One.

5. Delivery. Estimated delivery time for the Wheel Loader is no more than sixty (60) calendar days from the execution date of this Addendum and issuance of a Village Purchase Order. Delivery shall be when the Vendor is prepared to make delivery of the complete of the Wheel Loader to the Village at the Village's Public Works Yard, 711 Laramie, Wilmette, IL 60091.

6. Payment. Vendor shall submit invoices by email to AP@wilmette.com and must include the Village's Purchase Order number prominently displayed on page one (1) of the invoice. Invoices may also be sent by mail to the Village of Wilmette, Finance Department, 1200 Wilmette Ave., Wilmette, IL 60091-0440. Payment of invoices with the Village's Purchase Order number will be due within 30 days of receipt at either AP@wilmette.com or at the above mailing address. Invoices received without the Village's Purchase Order number will be due within 45 days of receipt at either AP@wilmette.com or at the above mailing address.

7. Tax exempt. The Village is a tax-exempt municipality. The Village's Department of Revenue Tax Exempt ID # is E9998-1106-07. Vendor shall not charge the Village any tax incurred by the Vendor for these services.

8. Title and Risk of Loss. Title to the Wheel Loader shall pass to Village upon completion of the delivery process and Final Acceptance by the Village no later than 30 calendar days after delivery to the Village's Public Works Yard, 711 Laramie, Wilmette, IL 60091. Vendor shall bear all risk of loss until title passes.

9. Warranties. Vendor agrees to provide warranty coverage per Attachment One, and to cooperate with Village in the event Village makes any warranty claim.

10. Scope of Work. The scope of Work sought by the Village shall include the provision of all required labor, materials, equipment and expertise related to the building and delivery of the Wheel Loader as outlined in Attachment One.

11. Coordination of Work. Vendor shall be in charge of and responsible for the coordination, scheduling, performance and sequence of all elements of the work required to build and deliver the Wheel Loader unless otherwise stated in Attachment One.

12. Supervision of Work. Vendor shall properly supervise the performance of the work so as to ensure its completion in a timely manner, safely, accurately, and in accordance with the requirements of the contract documents. Vendor shall be fully responsible and assumes liability for the acts and omissions of all persons directly or indirectly employed by, or working at the direction of, the Vendor in the completion of the work.

13. Quality of the Work. Vendor shall perform all work required of it under this Contract with that degree of skill, care and diligence normally shown by a Vendor performing work of a scope and purpose and magnitude comparable with the nature of the work to be provided under this Contract.

14. Limitation of Remedy. Village's liability to Vendor for breach of this Contract shall be limited to amounts due for acceptable goods and services already received or performed and not paid for, not to exceed the Total Contract Amount.

15. Relationship of the Parties. The Vendor shall act as an independent contractor in providing and performing all work. Nothing in or done pursuant to, this Contract shall be construed (1) to create the relationship of principal and agent, employer and employee, partners, or joint ventures between the Village and the Vendor; or (2) to create any relationship between the Village and any subcontractor of the Vendor.

16. No Collusion. The Vendor represents and certifies that this Contract is made by the Vendor without collusion with any other person, firm, or corporation. If at any time it shall be found that the Vendor has, in procuring this Contract, colluded with any other person, firm, or corporation, then the Vendor shall be liable to the Village for all loss or damage that the Village may suffer, and this Contract shall, at the Village's option, be null and void.

17. Licensure and Compliance with Laws. Vendor represents that it has all necessary licenses and permits to perform its services in the State of Illinois and the Village of Wilmette, and that at all times it shall comply with applicable law, including the Fair Debt Collection Practices Act. Vendor shall review and where appropriate certify its compliance with certain laws as provided for in the Certification of Compliance attached.

18. Amendment. No amendment or modification to the Contract shall be effective unless and until such amendment or modification is in writing, properly approved in accordance with applicable procedures, and executed by both the Village and the Vendor.

19. Assignment. The Contract may not be assigned by the Village or by the Vendor without the prior written consent of the other party.

20. Notice. Any required or permitted notices hereunder must be given in writing at the address of each party set forth below, or to such other address as either party may substitute by written notice to the other in the manner contemplated herein, by one of the following methods: hand delivery; registered, express, or certified mail, return receipt requested, postage prepaid; or nationally-recognized private express courier:

<u>Vendor</u>	<u>Village</u>	<u>with a copy to:</u>
West Side Tractor Sales Company	Director	Corporation Counsel
1560 N Old Rand Road	Engineering & Public Works	Village of Wilmette
Wauconda, IL 60084	711 Laramie Avenue	1200 Wilmette Ave
	Wilmette, IL 60091	Wilmette, IL 60091

21. Binding Effect. The terms of this Contract shall bind and inure to the benefit of the parties hereto and their agents, successors, and assigns.

22. No Third Party Beneficiaries. No claim as a third party beneficiary under the Contract by any person, firm, or corporation other than the Vendor shall be made, or be valid, against the Village.

23. Waiver. No waiver of any provision of the Contract shall be deemed to or constitute a waiver of any other provision of the Contract (whether or not similar) nor shall any such waiver be deemed to constitute a continuing waiver unless otherwise expressly provided in this Contract.

24. Vendor's Insurance Requirements. At the time of execution of the Agreement, Vendor shall furnish to the Village satisfactory proof of the required insurance coverage stated below. Such proof shall consist of certificates executed by the respective insurance companies together with executed copies of an "Additional Insured Endorsement" provided on standard Insurance Service Office ("ISO") forms which shall be made a part hereof. Use of "manuscript" or other non-standardized ISO forms is not acceptable. Said certificates shall expressly provide that, for the duration of the Agreement, the insurance policy shall not be suspended, cancelled, or reduced in coverage or amount. In addition, said certificates shall name the Village and its corporate authorities, officers, agents and employees as additional insured's on all required insurance policies.

Vendor shall procure and maintain without interruption from the time of the execution of the Contract until final payment, insurance against all claims for injury to or death of a person or persons or damage to property, which may arise wholly or in part from the performance of the work hereunder by Vendor or its subcontractors. The scope of coverage shall be at least as broad as, and shall be in amounts not less than, the following:

- a. Commercial General Liability, \$1,000,000 combined single limit per occurrence for personal bodily injury and property damage. The general aggregate shall be no less than \$2,000,000;
- b. Umbrella Coverage, \$2,000,000 per occurrence;
- c. Business Auto Liability, \$1,000,000 combined single limit for bodily injury and property damage;
- d. Workers Compensation – covering all liability of the Vendor arising under the Worker's Compensation Act and Workmen's Occupational Disease Act; Employers Liability \$1,000,000.00 (the policy shall include a 'waiver of subrogation'). All insurance required herein of Vendor shall be valid and enforceable policies, insured by insurers licensed and permitted to do business by the State of Illinois or surplus line carriers qualified to do business in the State of Illinois. All insurance carriers and surplus line carriers shall be rated A-, VII or better by A.M. Best Company; and,
- e. Goods in Transit - against all risk of all property in transit, regardless of transporter, with coverage amounts equal to or greater than invoice cost plus freight; or if there is no invoice, current replacement cost.

Vendor shall require all subcontractors not protected under the Vendor's policies to take out and maintain insurance of the same nature, in the same amounts and under the same terms as required herein of Vendor. Vendor shall confirm subcontractor compliance with the requirements stated herein prior to the performance of any work by a subcontractor.

Vendor expressly understands and agrees that any bonds or insurance policies required to be maintained shall in no way limit, to any extent, Vendor's responsibility to indemnify, keep and save harmless and defend the Village its officers, agents, employees, representatives and assigns. Vendor's insurance coverage shall be primary as respects to any insurance or self-insurance maintained by the Village, which insurance of the Village shall be excess of Vendor's insurance and shall not contribute with it.

25. **Performance and Payment Bonds.** The Vendor will be required to furnish Performance and Payment Bonds for one hundred (100%) percent of the contract sum. Said Bonds shall be in a form acceptable to the Village and must be deposited with the Village at the time of execution of the Contract.

Surety companies executing bonds must appear on the Treasury Department's most current list as published in Circular No. 570 and be authorized to transact business in the State of Illinois. Said bonds shall provide that they do not terminate upon delivery and Final Acceptance of the Wheel Loader by the Village, but shall be reduced to ten (10) percent of the Contract Amount upon final payment for a period of one (1) year. Failure to furnish the required bonds within the time specified may be cause for withdrawal of the award.

26. **Kotecki Waiver.** Vendor (and any subcontractor into whose subcontract this clause is incorporated) agrees to assume the entire liability for all personal injury claims suffered by its own employees and waives any limitation of liability defense based upon the Worker's Compensation Act and cases decided there under. Vendor agrees to indemnify and defend the Village from and against all such loss, expense, damage or injury, including reasonable attorneys' fees, which the Village may sustain as a result of personal injury claims by Vendor's employees, except to the extent those claims arise as a result of the Village's own negligence.

27. **General indemnification.** To the fullest extent permitted by law, the Vendor will indemnify, defend and hold harmless the Village, any other governmental agency providing funding for all or any portion of the Contract sum, and their officers, directors, employees, agents, affiliates and representatives, from and against any and all claims, demands, suits, liabilities, injuries (personal or bodily), property damage, causes of action, losses, expenses, damages or penalties, including, without limitation, court costs and attorneys' fees, arising or resulting from, or occasioned by or in connection with (i) the performance by the Vendor, its employees, agents and subcontractors, of the services and other duties and obligations under this Contract, (ii) any act or omission to act by the Vendor, its employees, agents and subcontractors, anyone directly or indirectly employed by them, their agents or anyone for whose acts they may be liable, and/or (iii) any breach, default, violation or nonperformance by the Vendor of any term, covenant, condition, duty or obligation provided in this Contract. This indemnification, defense and hold harmless obligation will survive the termination or expiration of this Contract, whether by lapse of time or otherwise. This indemnification obligation will not be limited (i) by a limitation on the amount or type of damages, compensation or benefits payable by or for the Vendor or any other party under workers' or workmen's compensation acts, disability benefit acts or other employee benefits acts, or (ii) pursuant to any common law or case law.

28. **Intellectual Property.** Vendor represents and warrants that it has the full legal power and authority to grant any and all licenses of materials used by the Vendor for this Agreement and hereby grants to the Village any and all such licenses and unrestricted use thereof. The Village shall own, without restriction or limitation, all text, graphics, designs, renderings, images, logos, social media posts, audio visual materials, tag lines, processes, ideas and any and all other content in any and all formats (collectively "Intellectual Property") created by or provided by Vendor, Vendor's employees or Vendor's independent contractors for purposes of fulfilling the terms of this Agreement. Vendor will ensure that all independent contractors have written agreements in place that transfers ownership of all Intellectual Property created by them or provided by them to the Village, without restriction or limitation.

Vendor represents and warrants that all Intellectual Property provided to the Village by Vendor will not infringe on any copyrights, trademark rights, patent rights, trade secrets or other rights of any third party. Vendor agrees to indemnify, defend and hold Village harmless from and against any loss, cost, damage, liability, or expense (including attorney's fees and other reasonable litigation expenses) suffered or incurred by Village in connection with any such infringement claim by any third party. If a claim is made or an action brought that the materials provided (or any component thereof) to the Village, infringes a third party patent, copyright, or trademark, or misappropriates any trade secret or other intellectual property right, then Vendor will defend Village from, in the manner and form determined in the sole discretion of the Village, and indemnify and hold harmless Village against, such claim and any resulting costs, damages and attorneys' fees arising out of or incurred as a result of such claim, together with all amounts finally awarded or agreed to in settlement. The Village shall have sole control of the defense and all related settlement negotiations at the Vendor's expense. Vendor agrees to cooperate fully in any investigation, defense or settlement of such claim or action.

If the Village is enjoined from using any Intellectual Property due to an actual or claimed infringement of any patent, trademark, or copyright or other property right or for any other reason, then at Vendor's option, Vendor shall promptly either: (i) procure for the Village, at Vendor's expense, the right to continue using the Intellectual Property; or (ii) replace or modify the Intellectual Property, at Vendor's expense, so that the Intellectual Property become non-infringing.

Vendor shall assist the Village in protecting its ownership of the Intellectual Property. Such assistance shall include, without limitation, providing such assistance as may be necessary for the Village to obtain registrations for its rights in and to any Intellectual Property solely in the name of Village and to enforce its rights in such Intellectual Property.

These Intellectual Property rights, representations, warrants and protections will survive the termination or expiration of this Agreement, whether by lapse of time or otherwise.

29. Geographical Information. All digital geographical information used in the performance of the Contract is the property of the Village, including all information obtained, collected, corrected or created by the Vendor in their completion or pursuit of the Contract.

30. Use of Village's Name, Employee Name(s) or Images. The Vendor shall not use or permit the use of the Village's name, Village Employee Name(s) or Village or Employee images or references to its Work in any advertising or promotional materials, regardless of media, without the express written consent of the Village.

31. Contract Termination. The Village reserves the right to terminate the contract in whole or in part, upon ten (10) calendar day's written notice to the Vendor. The Village further reserves the right to terminate the whole or any part of this contract, in the event of default by the Vendor. Default is defined as failure of the Vendor to perform any of the provisions of this contract or failure to make sufficient progress so as to endanger performance of this contract in accordance with its terms. The Vendor shall be liable for any related costs unless acceptable evidence is submitted to the Village that failure to perform the contract was due to cause beyond the control and without the fault or negligence of the Vendor. The Vendor will not be liable to perform if situations arise by reason of acts of God or the public enemy, acts of the Village, fires or floods.

32. No Liability of Public Officials. No official, employee or agent of the Village will be charged personally by the Vendor, or by any assignee, with any liability or expenses of defense or be personally liable to them under any term or provision of this Contract, or because of the Village's execution or attempted execution, or because of any breach hereof.

33. Change In Status. The Vendor shall notify the Village immediately of any change in its status resulting from any of the following: (a) Vendor is acquired by another party; (b) Vendor becomes insolvent; (c) Vendor, voluntary or by operation law, becomes subject to the provisions of any chapter of the Bankruptcy Act; (d) Vendor ceases to conduct its operations in normal course of business. The Village shall have the option to terminate its Contract with the Vendor immediately on written notice based on any such change in status.

34. Subletting of Contract. The Vendor may sublet portions of the work; however each subcontract must be approved by the Village in writing prior to commencement of work. Subcontractors shall conform, in all respects, to the applicable provisions specified herein for the Vendor and shall be subject to approval by the Village. Vendor shall not employ any subcontractor, either initially or as a substitute, against whom the Village has a reasonable objection.

Subcontractors shall be under the sole direction, authority and responsibility of the Vendor and Vendor shall take all steps necessary to ensure that subcontractors comply with the Contract requirements. The work to be done by the subcontractors shall be outlined in detail by the Vendor.

Vendor shall be fully responsible to the Village for any and all acts and omissions of the Vendor's suppliers, subcontractors and others performing or furnishing any of the Work directly or indirectly on behalf of the Vendor.

In no case shall such consent relieve the Vendor from its obligation or change the terms of the contract. At all times the Vendor shall maintain no less than fifty-one (51) percent of the dollar value of the contract by direct employees of the Vendor.

35. Illinois Freedom of Information Act. Vendor agrees to furnish all documentation related to this Contract and any documentation related to the Village required under an Illinois Freedom of Information Act (ILCS 140/1 et. seq.) ("FOIA") request within five (5) days after Village issues notice of such request. Vendor agrees to defend, indemnify and hold harmless the Village, and agrees to pay all reasonable costs connected therewith (including, but not limited to reasonable attorney's and witness fees, filing fees and any other expenses) for the Village to defend any and all causes, actions, causes of action, disputes, prosecutions, or conflicts arising from Vendor's actual or alleged violation of the FOIA or Vendor's failure to furnish all documentation related to a request within five (5) days after Village issues notice of a request.

Furthermore, should Vendor request that Village utilize a lawful exemption under FOIA in relation to any FOIA request thereby denying that request, Vendor agrees to pay all costs connected therewith (such as reasonable attorneys' and witness fees, filing fees and any other expenses) to defend the denial of the request. The defense shall include, but not be limited to, challenged or appealed denials of FOIA requests to either the Illinois Attorney General or a court of competent jurisdiction. Vendor agrees to defend, indemnify and hold harmless the Village, and agrees to pay all costs connected therewith (such as reasonable attorneys' and witness fees, filing fees and any other

expenses) to defend any denial of a FOIA request by Vendor's request to utilize a lawful exemption to the Village.

36. Conflict of Forms. In the event of a conflict between the terms in this Contract and the attached Exhibits to the Contract, the terms of the Contract shall control.

37. Governing Law and Venue. This Contract shall be governed by the laws of the State of Illinois. Venue for any and all actions to enforce this Contract shall be the Circuit Court of Cook County, Illinois.

38. Effective Date. The Contract shall be binding on the parties and effective only as of the date fully executed by both parties.

IN WITNESS WHEREOF, the Village of Wilmette, Illinois by Robert T. Bielinski, Village President, and the Vendor have hereunto set their hands to this Contract on the ____ day of _____, 2019.

THE VILLAGE OF WILMETTE, ILLINOIS

Accepted this ____ day of _____, 2019

Robert T. Bielinski, Village President

Attest: _____
Timothy J. Frenzer, Village Clerk

FOR THE CORPORATION

An officer duly authorized by the corporation shall sign here:

Accepted this 29th day of July, 2019
By [Signature] V.P.
Position/Title

By _____ Position/Title

WEST SIDE TRACTOR SALES CO
Print Company Name

An officer duly authorized should sign and attach corporate seal

expenses) to defend any denial of a FOIA request by Vendor's request to utilize a lawful exemption to the Village.

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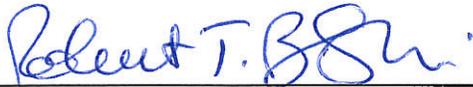
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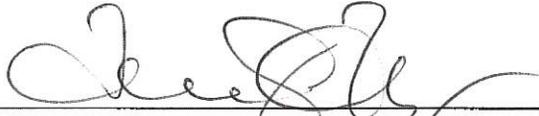
IN WITNESS WHEREOF, the Village of Wilmette, Illinois by Robert T. Bielinski, Village President, and the Vendor have hereunto set their hands to this Contract on the ____ day of _____, 2019.

THE VILLAGE OF WILMETTE, ILLINOIS

Accepted this ____ day of _____, 2019



Robert T. Bielinski, Village President

Attest: 
Timothy J. Frenzer, Village Clerk

FOR THE CORPORATION

An officer duly authorized by the corporation shall sign here:

Accepted this ____ day of _____, 2019

By Position/Title

By Position/Title

Print Company Name

An officer duly authorized should sign and attach corporate seal

CERTIFICATION OF COMPLIANCE

DESCRIPTION: Front-end Wheel Loader

having been duly sworn, depose and states as follows:

Having submitted an offer for the above goods and/or services, We hereby certify that: *(initial all that apply)*

PLEASE CHECK ALL APPLICABLE BOXES

BARRED FROM BIDDING: We are not barred from bidding on these goods and/or services as a result of a violation of either 720 ILCS 5/33E or of any similar statute of another state or a federal statute containing the same or similar elements.

SEXUAL HARASSMENT: We have a written sexual harassment policy in place in full compliance with 775 ILCS 5/2-105(A) (4).

PAYMENT OF TAXES: We are not delinquent in the payment of any tax administered by the Illinois Department of Revenue; or if we are, it: (a) is contesting its liability for the tax or the amount of tax in accordance with procedures established by the Approved Revenue Act; or (b) has entered into an agreement with the Department of Revenue for payment of all taxes due and is currently in compliance with that agreement.

EQUAL PAY ACT: Engineers, Contractors, and all subcontractors thereof, shall at all times comply with the provisions of the Illinois Equal Pay Act of 2003, 820 ILCS 112/1, *et seq.*

CONFINED SPACE ENTRY: We will comply with all requirements of 29 CFR Part 1910 Permit Required for Confined Spaces for General Industry; including Section 1910.146(c) (9) "In addition to complying with the permit space requirements that apply to all employers, each Engineer who is retained to perform permit space entry operations shall: (a) obtain any available information regarding permit space hazards and entry operations from the host employer; (b) coordinate entry operations with the host employer, when both host employer personnel and Engineer personnel will be working in or near permit spaces, as required by paragraph (d)(11); and (c) inform the host employer of the permit space program that the Engineer will follow and of any hazards confronted or created in permit spaces, either through a debriefing or during the entry operation."

DRUG-FREE WORKPLACE: We will comply with all requirements Pursuant to Chapter 30, Section 580/1 of the Illinois Compiled Statutes (30 ILCS 580/1) *et. Seq.* entitled "Drug Free Workplace Act"; we will provide a drug-free workplace by:

1) Publishing a statement:

- a) Notifying employees that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance, including cannabis, is prohibited in the grantee's or Engineer's workplace.
- b) Specifying the actions that will be taken against employees for violations of such prohibition.
- c) Notifying the employee that, as a condition of employment on such contract or grant, the employee will:
 - i) Abide by the terms of the statement; and
 - ii) Notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than 5 days after such conviction.

2) Establishing a drug free awareness program to inform employees about:

- a) the dangers of drug abuse in the workplace;
- b) the grantee's or Engineer's policy of maintaining drug free workplace;

- c) any available drug counseling, rehabilitation, and employee assistance program; and
 - d) the penalties that may be imposed upon employees for drug violations.
- 3) Making it a requirement to give a copy of the statement required by subsection (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.
 - 4) Notifying the contracting agency within 10 days after receiving notice under part (B) of paragraph (3) of subsection (a) from an employee or otherwise receiving actual notice of such conviction.
 - 5) Imposing a sanction on, or requiring the satisfactory participation in a drug assistance or rehabilitation program by any employee who is so convicted, as required by Section 5 (30 ILCS 580/5) of the Act.
 - 6) Assisting employees in selecting a course of action in the event drug counseling treatment and rehabilitation is required, and indicating that a trained referral team is in place.
 - 7) Making a good faith effort to continue to maintain a drug free workplace through implementation of this Section.
 - 8) Failure to abide by this certification shall subject the Engineer to the penalties provided in Section 6 (30 ILCS 580/6) of the Act.



NATIONAL SECURITY/USA PATRIOT ACT: We represent and warrant that, pursuant to the requirements of the USA Patriot Act and applicable Presidential Executive Orders, neither we nor any of our principals, shareholders, members, partners, or affiliates, as applicable, as a person or entity are named as a Specially Designated National and Blocked Person (as defined in Presidential Executive Order 13224) and that we are not acting, directly or indirectly, for or on behalf of a Specially Designated National and Blocked Person. We further represent and warrant that we and our principals, shareholders, members, partners, or affiliates, as applicable, are not, directly or indirectly, engaged in, and are not facilitating, the transactions contemplated by this Agreement on behalf of any person or entity named as a Specially Designated National and Blocked Person.

We further represent and warrant we are not acting, directly or indirectly, for or on behalf of any person, group, entity, or nation named by the United States Treasury Department as a Specially Designated National and Blocked Person, or for or on behalf of any person, group, entity, or nation designated in Presidential Executive Order 13224 as a person who commits, threatens to commit, or supports terrorism; and that we are not engaged in this transaction directly or indirectly on behalf of or facilitating this transaction directly or indirectly on behalf of, any such person, group, entity, or nation.

We hereby agree to defend, indemnify, and hold harmless the Village of Wilmette, its Corporate Authorities, and all Village of Wilmette elected or appointed officials, officers, employees, agents, representative, engineers, and attorneys, from and against any and all claims, damages, losses, risks, liabilities, and expenses (including reasonable attorneys' fees and costs) arising from or related to any breach of the foregoing representation and warrant.



EQUAL EMPLOYMENT OPPORTUNITY: In the event of the Engineer's non-compliance with the provisions of this Equal Employment Opportunity Clause, the Illinois Human Rights Act or the Rules and Regulations of the Illinois Department of Human Rights ("Department"), the Engineer may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and the contract may be cancelled or voided in whole or in part, and such other sanctions or penalties may be imposed or remedies invoked as provided by statute or regulation. During the performance of this contract, the Engineer agrees as follows:

- 1) That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, marital status, national origin or ancestry, citizenship status, age, physical or mental handicap unrelated to ability, military status, or an unfavorable discharge from military service; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.
- 2) That, if it hires additional employees in order to perform this contract or any portion thereof, it will determine the availability (in accordance with the Department's Rules) of minorities and women in the areas from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.
- 3) That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, sexual orientation, marital status, national origin or ancestry, citizenship status, age, physical or mental handicap unrelated to ability, military status, or an unfavorable discharge from military service.
- 4) That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Engineer's obligations under the Illinois Human Rights Act and the Department's Rules. If any such labor organization or representative fails or refuses to cooperate with the Engineer in its efforts to comply with such Act and Rules, the Engineer will promptly so notify the Department and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations thereunder.
- 5) That it will submit reports as required by the Department's Rules, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and the Department's Rules.
- 6) That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and the Department for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and the Department's Rules.
- 7) That it will include verbatim or by reference the provisions of this clause in every subcontract it awards under which any portion of the contract obligations are undertaken or assumed, so that such provisions will be binding upon such subcontractor. In the same manner as with other provisions of this contract, the Engineer will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply therewith. In addition, the Engineer will not utilize any subcontractor declared by the Illinois Human Rights Commission to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.



ILLINOIS PUBLIC WORKS EMPLOYMENT DISCRIMINATION ACT

- 1) **Discrimination in employment prohibited:** (a) No person shall be refused or denied employment in any capacity on the ground of unlawful discrimination, as that term is defined in the Illinois Human Rights Act, nor be subjected to unlawful discrimination in any manner, in connection with the contracting for or the performance of any work or service of any kind, by, for, on behalf of, or for the benefit of this State, or of any department, bureau, commission, board, or other political subdivision or agency thereof (b) The Illinois Human Rights Act applies to all contracts identified in subsection (a). 10/2. **Deemed incorporated in contract:** The provisions of this Act shall automatically enter into and become a part of each and every contract or other agreement hereafter entered into by, with, for, on behalf of, or for the benefit of this State, or of any department, bureau, commission, board, other political subdivision or agency, officer or agent thereof, providing for or relating to the performance of any of the said work or services or of any part thereof.
- 2) **Includes independent contractors, etc.:** The provisions of this Act also shall apply to all contracts entered into by or on behalf of all independent contractors, subcontractors, and any and all other persons, association or corporations, providing for or relating to the doing of any of the said work or the performance of any of the said services, or any part thereof.
- 3) **Deduction from compensation:** No Engineer, subcontractor, nor any person on his or her behalf shall, in any manner, discriminate against or intimidate any employee hired for the performance of work for the benefit of the State or for any department, bureau, commission, board, other political subdivision or agency, officer or agent thereof, on account of race, color, creed, sex, religion, physical or mental handicap unrelated to ability, or national origin; and there may be deducted from the amount payable to the Engineer by the State of Illinois or by any municipal corporation thereof, under this contract, a penalty of five dollars for each person for each calendar day during which such person was discriminated against or intimidated in violation of the provisions of this Act.
- 4) **Recovery by injured person:** Any person, agency, corporation or association who violates any of the provisions of this Act, or who aids, abets, incites or otherwise participates in the violation of any of the provisions, whether the violation or participation therein occurs through action in a private, public or in any official capacity, shall be guilty of a petty offense for each and every violation or participation therein with respect to each person aggrieved thereby, to be recovered by each such aggrieved person, or by any other person to whom such aggrieved person shall assign his cause of action, in the circuit court in the county in which the plaintiff or the defendant shall reside.
- 5) **Violations; punishment:** Any person who or any agency, corporation or association which shall violate any of the provisions of the foregoing sections, or who or which shall aid, abet, incite or otherwise participate in the violation of any of the said provisions, whether the said violation or participation therein shall occur through action in a private, in a public, or in any official capacity, shall also be deemed guilty of a petty offense for each and every said violation or participation or, in the case of non-corporate violators, or participators, of a Class B misdemeanor.
- 6) **To be inscribed in contract:** The provisions of this Act shall be printed or otherwise inscribed on the face of each contract to which it shall be applicable, but their absence therefrom shall in no wise prevent or affect the application of the said provisions to the said contract.
- 7) **Partial invalidity; construction:** The invalidity or unconstitutionality of any one or more provisions, parts, or sections of this Act shall not be held or construed to invalidate the whole or any other provision, part, or section thereof, it being intended that this Act shall be sustained and enforced to the fullest extent possible and that it shall be construed as liberally as possible to prevent refusals, denials, and discriminations of and with reference to the award of contracts and employment thereunder, on the ground of race, color, creed, sex, religion, physical or mental handicap unrelated to ability, or national origin.

PLEASE CHECK THE APPLICABLE BOX

There are no conflicts of interest: and in the event that a conflict of interest is identified anytime during the duration of this award, or reasonable time thereafter, you, your firm or your firm's ownership, management or staff will immediately notify the Village of Wilmette in writing.

There is an affiliation or business relationship between you, your management or staff, your firm, or your firm's ownership, and an employee, officer, or elected official of the Village of Wilmette who makes recommendations to the Village of Wilmette with respect to expenditures of money, employment, and elected or appointed positions. Provide any and all affiliations or business relationships that might cause a conflict of interest or any potential conflict of interest. Include the name of each Village of Wilmette affiliate with whom you, your firm, or your firm's ownership, management or staff, has an affiliation or a business relationship.

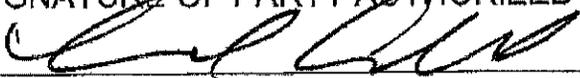
PLEASE CHECK THE APPLICABLE BOX

We have a good safety record with OSHA.

We have had an OSHA violation within the past 5 years. (Attach explanation)

Federal Employer Identification # (FEIN): 36-2484344
IL Secretary of State File #: 1974-124-9
IL Department of Employment Security #: 0244427
IL Department of Revenue Registration #: 0924-3003
IL Department of Professional Regulation #: _____

SIGNATURE OF PARTY AUTHORIZED TO EXECUTE THIS AGREEMENT

By: 
(Signature)

By: DAVID ADELI
(Print Name)

d/b/a _____

Business address: 1400 W Ogden Ave
Naperville IL 60563

Business Phone #: 630 355-7150

Cell Phone #: _____

E-Mail Address: dadel@aces-to-the-tractor.net

ATTACHMENT ONE
Vendor's Bid Dated May 22, 2019

Village Hall (Loader Quote)
1200 Wilmette Ave.

*West Side
Trekhs
John Doe*

Wilmette, Illinois 60091

RECEIVED
MAY 23 2019
9:49 AM
VILLAGE OF WILMETTE

Loader Quote

Attn: Cliff Ruemmler

Village of Wilmette

Checklist

1. Wilmette specification pages filled out along with trade value
2. State of Minnesota contract pages that show Minnesota State discounts
3. Contract Page showing contract number
4. Information and specification of unit quoted
5. Standard Warranty pages
6. Extended Warranty pages
7. COI pages (Upon approval)
8. Performance bond (not accepted on Minnesota bid)

WEST SIDE TRACTOR SALES CO

WEST SIDE
TRACTOR
SALES CO

CHRIS MAZZONI
SALES REPRESENTATIVE

OFFICE (847) 526-7700
CELL (630) 816-5001
FAX (847) 526-3565
cmazzoni@westsidetractorsales.com
www.westsidetractorsales.com

 **JOHN DEERE**

1560 N OLD RAND RD. WAUCONDA, IL 60084



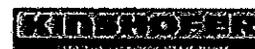
Village of Wilmette
 1200 Wilmette Ave.
 Wilmette, IL 60091

This quote is for a new John Deere 624L built to Wilmette specifications and using the Minnesota State bid discount (SEQ # 760-917)

2019 John Deere 624L 4WD Loader						
COUNTERSHAFT-TYPE POWERSHIFT™						
JOHN DEERE POWERTECH™ PVS 6.8L TURBO DIESEL ENGINE RATED 203HP						
<input checked="" type="checkbox"/>	590DW	624L WHEEL LOADER	\$ 222,482.00	<input type="checkbox"/>	5610 LEFT SIDE STEPS ONLY	IN BASE
<input type="checkbox"/>	924	JD POWERTECH ENGINE	\$ 23,451.00	<input type="checkbox"/>	5840 NO FORK FRAME	IN BASE
<input type="checkbox"/>	1010	STANDARD WHEEL LOADER	IN BASE	<input type="checkbox"/>	5940 NO TINES	IN BASE
<input type="checkbox"/>	1120	W/O AXLE DISC W/LUP	IN BASE	<input type="checkbox"/>	7140 PREMIUM LED LIGHT PACKAGE	\$ 1,449.00
<input type="checkbox"/>	1215	130 AMP ALTERNATOR	\$ 327.00	<input type="checkbox"/>	8220 REAR HITCH & COUNTERWEIGHT	IN BASE
<input type="checkbox"/>	1310	FLAT BLACK CURVED STACK	IN BASE	<input type="checkbox"/>	8240 REAR CAMERA ONLY	\$ 1,085.00
<input type="checkbox"/>	1430	AIR INTAKE W/PRECLEANER	\$ 667.00	<input type="checkbox"/>	8290 LEFT BEACON BRACKET ONLY	\$ 168.00
<input type="checkbox"/>	1520	AUTOMATIC REVERSING HYD FAN	\$ 1,650.00	<input type="checkbox"/>	8350 EXTERIOR MIRRORS-HEAT&POWER	\$ 712.00
<input type="checkbox"/>	1610	FUEL TANK W/STD FILTER	IN BASE	<input type="checkbox"/>	8370 RADIO - PREMIUM	\$ 850.00
<input type="checkbox"/>	170C	JDLINK ULT 5 YEAR SERVICE	IN BASE	<input type="checkbox"/>	8450 AC CHARGE	IN BASE
<input type="checkbox"/>	1910	PREMIUM CAB	\$ (512.00)	<input type="checkbox"/>	8561 HYD COUPLER-HIMS/ISO PATRN	\$ 5,709.00
<input type="checkbox"/>	1945	7" MONITOR W REAR DISPLAY	\$ 1,645.00	<input type="checkbox"/>	8860 CUTTING EDGE BOLT ON - LONG	\$ 1,003.00
<input type="checkbox"/>	1970	HYDRAU HYDRAULIC FLUID	IN BASE	<input type="checkbox"/>	8910 BUCKET - 3.0 CUBIC YARD	\$ 7,007.00
<input type="checkbox"/>	2020	HIGH LIFT ZBAR	\$ 4,400.00	<input type="checkbox"/>	9015 ENGINE BLOCK HEATER	\$ 243.00
<input type="checkbox"/>	2120	STEERING WHEEL ONLY	IN BASE	<input type="checkbox"/>	9043 ENVIRONMENTAL DRAIN & PORTS	\$ 410.00
<input type="checkbox"/>	2240	PREMIUM SEAT	\$ 1,295.00	<input type="checkbox"/>	9240 ENGINE COMPARTMENT LIGHT	\$ 180.00
<input type="checkbox"/>	2360	JOYSTICK CONTROLS	IN BASE	<input type="checkbox"/>	9055 THROTTLE LOCK	\$ 215.00
<input type="checkbox"/>	2403	THREE FUNCTION HYDRAULICS	\$ 2,231.00	<input type="checkbox"/>	9140 FIRE EXTINGUISHER	\$ 149.00
<input type="checkbox"/>	2510	RIDE CONTROL	\$ 4,015.00	<input type="checkbox"/>		\$ -
<input type="checkbox"/>	2605	ENGLISH DECALS & MANUALS	IN BASE	<input type="checkbox"/>		\$ -
<input type="checkbox"/>	2730	30 AMP CONVERTER	\$ 265.00	<input type="checkbox"/>		\$ -
<input type="checkbox"/>	2890	NO PAYLOAD SCALE	IN BASE	<input type="checkbox"/>		\$ -
<input type="checkbox"/>	3046	AXLE,STD REAR & HYD FRONT	IN BASE	<input type="checkbox"/>		\$ -
<input type="checkbox"/>	3120	MANUAL DIFFERENTIAL LOCK	IN BASE	<input type="checkbox"/>		\$ -
<input type="checkbox"/>	4421	20.5R25 L3 1STAR MI-3PC RADI	\$ 19,030.00	<input type="checkbox"/>		\$ -
<input type="checkbox"/>	5560	FULL FR & REAR FENDER & FLAP	\$ 2,805.00	<input type="checkbox"/>		\$ -
						Total List Price
						\$302,931.00

Minnesota State Bld Discount 43.50%

SEE BELOW

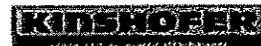




Total List Price	\$ 302,931.00
Minnesota State Bid Discount	<u>\$ 131,775.00</u>
Total List price with 43.50% removed	\$ 171,156.00
Add 5.25 YD Light Material Bucket with Edge	\$ 9,662.00
Add Spare Tire and Rim mounted	\$ 5,550.00
Add Auto Lube	\$ 6,455.00
Add (4) Corner LED Emergency Lighting and Customers marker lights	\$ 3,713.00
Freight to Customer	<u>\$ 750.00</u>
Total Price to Village of Wilmette	\$ 197,286.00
Add for additional Warranty 3 yr/3,000 PT&H Warranty	<u>\$ 1,345.00</u>
Total Price to Village of Wilmette	\$ 198,631.00
Trade of 2001 New Holland LW 170	<u>\$ 26,000.00</u>
Total Price to Village of Wilmette	<u>\$ 172,631.00</u>

This quote is valid for 30 days from the above date. Please contact West Side Tractor for any questions or concerns regarding this quote.

Chris Mazzoni
West Side Tractor Sales
Cell: (630) 816-5001
Off : (847) 526-7700
cmazzoni@westsidetractorsales.com
www.westsidetractorsales.com



#1

7714 938m

690 42.0

624/L
3.5 yr.
544L?

SPECIFICATIONS FOR CONSTRUCTION FOR Rubber Tired Wheel Loader

The following Specifications and other provisions together with the Special Provisions shall govern the construction of the proposed improvement and will be made a part of the Contract. Before submitting the proposal, bidders should read the Special Provisions and familiarize themselves with all requirements of same.

Submission of a Proposal implies that the bidder is fully conversant with all requirements of Standard Specifications, Special Provisions, and Standard Drawings. No claim for additional compensation will be considered or paid because of the CONTRACTOR's negligence or failure to be so informed.

DETAILED SPECIFICATIONS FOR RUBBER TIRED WHEEL LOADER

The following describes the type of equipment needed. Any equipment that substantially meets these requirements will be considered. These are minimum requirements, any deviations from the specification shall be explained on attachment "A".

MEETS SPECIFICATIONS (YES No)

- | | | |
|----------|-------|--|
| <u>X</u> | _____ | <u>OPERATING WEIGHT:</u> 30,000 minimum. Hydro-inflation, counterweights, or attachments cannot be included as part of the operating weight. |
| <u>X</u> | _____ | <u>ENGINE:</u> Six cylinder, four stroke turbo charged Tier IV diesel engine, 175 SAE Net horsepower Minimum. <ul style="list-style-type: none"> a. Engine shut down system for high coolant / low engine oil, high transmission temperature. b. Dual stage air cleaner with pre-cleaner. c. Spin-on oil filter. d. Two (2) spin-on fuel filters, one (1) with water separator. e. Intake manifold pre-heater. f. Engine oil cooler. g. Spark arresting muffler. h. Cold Weather Package. |
| <u>X</u> | _____ | <u>COOLING SYSTEM:</u> Heavy duty cooling system. <ul style="list-style-type: none"> a. Heavy -duty radiator. b. Fan guard and grille screen. c. Spin-on coolant filter. d. Extended life anti-freeze, good till -34 degrees. e. Coolant level sight gauge. f. Reversing Fan with manual override switch. |

MEETS SPECIFICATIONS

(YES No)

~~X~~ _____ **ELECTRICAL SYSTEM:** 24-volt electrical system.
a. Two (2) 700 CCA maintenance free batteries.
b. 120-amp heavy duty alternator.
c. Blade type multi-fused circuits.
d. Battery disconnect switch.
e. Dedicated 12 volt circuit for auxiliary radio and lighting.

~~X~~ _____ **TRANSMISSION:** Automatic Transmission.
a. Column mounted electrical control with forward and reverse positions. Additional switch located at loader control console.
5/3- b. Manual and automatic shift capabilities.
c. Four (4) forward and three (3) reverse gears minimum. Maximum forward speed; 24 ½ MPH, maximum reverse speed; 24 MPH.
d. Neutral safety switch.
e. Transmission oil cooler.
f. Transmission disconnect capability through the brake pedal, dash mounted switch, or second brake pedal, neutralizing the transmission and applying service brakes.
g. Fully automatic power shift 1-4.

~~X~~ _____ **DIFFERENTIAL & FINAL DRIVES:** Manufacturers standard.
a. Differential Lock.
b. Outboard or Inboard planetary final drives.

~~X~~ _____ **BRAKES:** Power assisted hydraulic brakes.
a. Four (4) wheel, hydraulically actuated, self-adjusting, wet disc type service brakes.
b. Wet disc type or output shaft mounted parking / emergency brake.
c. Parking / emergency brake shall engage automatically if service brake pressure is too low.

~~X~~ _____ **STEERING:** Hydraulic power steering, center pivot articulating.

~~X~~ _____ **AXLES:** Manufacturers standard.
a. Fixed front axle, oscillating rear axle.

~~X~~ _____ **FUEL TANK:** Fifty (50) gallon minimum with sending unit and gauge.

MEETS SPECIFICATIONS

(YES No)

X _____

HYDRAULICS: Open center system.

- a. Axial piston, vane type, or dual vane pump.
- b. Minimum Fifty (50) GPM flow.
- c. Minimum 2,900 PSI system pressure.
- d. Ten (10) micron spin-on filter in return line.
- e. Test ports, quick connect type.
- f. Hydraulic tank with fluid level sight gauge.
- g. Hydraulic oil cooler.

X _____

TIRES: Five (5) radial tires, four (4) mounted on machine and one (1) spare mounted on spare rim. Michelin 20.5 R25 (L3) XHA.

X _____

CAB & OPERATOR STATION: Isolation mounted, modular design, ROPS/FOPS certified..

- a. Lockable left, or left & right side access doors with sliding vent window / windows.
- b. Entrance handholds.
- c. Slip resistant steps.
- d. Floor mat.
- e. Cab insulation & headliner.
- f. Sun – visor.
- g. Two (2) interior rear view mirrors, two (2) exterior rear view mirrors.
- h. Foot throttle and locking hand throttle.
- i. Telescoping tilt steering with steering knob.
- j. Horn, dual electric.
- k. Key start and engine shut off. All locks on machine, keyed alike to ignition key.
- l. Gauges; engine oil, coolant, fuel, transmission temperature, hour meter, voltmeter, tachometer, and air filter restriction, all to be illuminated.
- m. Warning / indicator lights; alternator, engine oil pressure, coolant temperature, transmission oil filter, brake pressure, parking brake, hydraulic oil level, hydraulic oil temperature, axle oil temperature, high beams, turn signals, rotating beacon, preheating coil, and engine over speeding.
- n. Audible warning devices, backup alarm ; air cleaner restriction, parking brake, and engine / Transmission over speeding.
- o. Heated air suspension cloth seat with armrests and lumbar supports.
- p. Three (3”) inch seat belt with retractor.
- q. Interior dome light.
- r. Tinted safety glass.

MEETS SPECIFICATIONS
(YES No)

- s. Intermittent front windshield wipers, single speed rear windshield wiper and front and rear washers.
- t. Heater / Defroster / cab pressurizer utilizing filtered.
- u. Factory Air conditioning.
- v. AM/FM radio.
- w. Comfort Ride control system.
- x. Door and ignition locks, with four (4) sets of keys.
- y. Cab ladder rubber suspended.
- z. Backup Camera.

X _____

FENDERS: Factory installed front and rear fenders with mudflaps and tool box, installed on curb side, Manufacturers standard.

X _____

FRAME: Manufacturers standard with lifting and tie down lugs, draw bar hitch, and Steering frame transport lock.

X _____

LOADER: Front end loader to include.
a. Minimum dump height to be 9'3"@ 45 degree angle.
b. Bucket and boom lever detent.
c. Automatic, adjustable bucket leveling.
d. Bucket level indicator.
e. Automatic, adjustable boom kick out.
f. 21,000 LB. straight tipping load, minimum.
g. 17,000 LB. full turn tipping load, minimum
h. 24,000 LB. break out force, minimum.
i. **Long Boom (Extended Reach) Min. hinge pin height of 14 ft. 0 inches.**

X _____

COUNTERWEIGHT: The machine will be equipped with the appropriate counterweight to provide proper weight distribution and safe operation with all attachments provided.

X _____

AUTOMATIC GREASING SYSTEM: The machine will be equipped with an automatic greasing system. This system shall grease all pins on the boom and swivel points on the cab. The greasing system will only grease when the loader transmission is operational in forward or reverse.

X _____

ATTACHMENT COUPLER: A JRB Type quick hitch coupler system shall be installed on the machine to allow a variety of attachments to be used. Electronic quick coupler style for all attachments, including buckets. All new attachments provided with this machine must be able to be used on the Village's other Volvo loaders. The existing attachments used on these loaders must be able to be used on the new machine as well. Performance

MEETS SPECIFICATIONS

(YES NO)

of the attachments should not vary regardless of what machine they are installed on. The coupler shall include:

- a. 3rd function hydraulic control for pin type coupler.
- b. Locking control is to be accomplished from the operator's seat.
- c. Pin's are to remain locked via hydraulic pressure.

 X _____

STANDARD BUCKET: MINIMUM Three (3.0) cu. yd. general purpose bucket with bolt on reversible cutting edges.

 X _____

ATTACHMENTS: all makes and models on attachments. All attachments shall be delivered with the machine and have JRB Style Quick Coupler System.

 X _____

- a. 5.0 cu. yd. Light Material bucket with bolt on reversible Cutting edges.

 X _____

STANDARD LIGHTING: All lighting shall be LED Type factory installed only, with Protective guards to include:

Two (2) front mounted LED driving lights with protective guards..

- a. Two (2) front mounted LED work lights with protective guards.
- b. Two (2) rear mounted LED work lights with protective guards.
- c. Two (2) LED type rear stop/tail lights.
- d. Two (2) front and two (2) rear LED type turn signal lights with 4-way warning flashers and protective guards.
- e. Two (2) front and two (2) rear amber LED type parking lights.

 X _____

AUXILARY LIGHTING: THE FOLLOWING LIGHTING SHALL BE PURCHASED AND GIVEN TO THE AWARDED VENDOR FOR INSTALLATION.

All lighting shall be Dealer installed only, with protective guards to include:

- a. Two Whelen Engineering model # 01-06837845A60 alternating Amber oval LED lights with self-contained circuitry and power conversion shall be installed on the rear of the Loader, in unpainted, stainless steel housings securely mounted in rubber grommets. The switch to control these lights shall be the same switch that controls the rooftop on cab LED Beacon Light.

MEETS SPECIFICATIONS

(YES No)

- | | | |
|--------------|-------|--|
| <u> X </u> | _____ | <u>SAFETY EQUIPMENT</u> |
| <u> X </u> | _____ | a. Kidde model # 1-A: 10-ABC type 2-lb dry chemical fire extinguisher including bracket shall be provided and mounted. |
| <u> X </u> | _____ | b. Class C, 82-107 db. Electronic back-up alarm installed at rear of loader. |
| <u> X </u> | _____ | <u>PAINT:</u> The attachments shall be painted DuPont polyurethane enamel or approved equivalent. Paint must be factory applied base coat/clear coat Type only. |
| <u> X </u> | _____ | <u>RUSTPROOF AND UNDERCOATING:</u>
NONE |

OTHER REQUIREMENTS

MANUALS

One (1) complete set of operating, parts, and Service manuals shall be included for the loader and all related Attachments. The schematics shall include adequate illustrations, diagrams and other aids. Special attention shall be given to safety considerations for personnel and the equipment. A parts book supporting field repair and replacement of the various components of the delivered systems shall be furnished. This book shall include exploded or cutaway drawings of numerous components and assemblies with each drawing referencing a manufacturer's part number and description. One (1) parts manual and one (1) service manual shall be provided for each Attachment.

INSPECTIONS

The Vehicle Maintenance Superintendent shall inspect all components for proper construction, installation, and quality. One (1) inspection will be made on this unit, at the Dealer prior to delivery and One (1) a final inspection of the unit performed at the Village yard at time of Delivery.

PICK UP AND DELIVERY

The Vendor shall be responsible for transporting the Loader and all attachments from the vendor's facility to the Village of Wilmette Public Works Facility, located at 711 Laramie Avenue, Wilmette, IL. 60091 The vendor shall notify the Vehicle Maintenance Superintendent at least 48 hours in advance by telephone at (847)-853-7583.

INSTRUCTION, TRAINING & TESTING

The successful bidder shall arrange for a representative of the manufacturer of the attachments to instruct and test all mechanics and operators in the operation of the equipment after delivery. The

instruction period shall be of sufficient duration, a minimum of two (2) hours upon delivery, to fully familiarize the maintenance personnel. The instruction and testing shall be conducted by the manufacturer's field service technician and shall include component familiarization, theory of operation, equipment operation, field procedures, and techniques of use, troubleshooting, and safety procedures. **Training shall be conducted by Factory personnel only.**

PARTS AND SERVICE

Timely, responsive parts and service must be available with 80% of readily available parts available for next day delivery. **If vendor cannot provide common ordinary parts within 48 hours, said vendor will be responsible for all shipping charges associated with that order. The vendor shall not forward overnight shipping charges for parts that they cannot supply within the 48-hour time frame. If Village personnel request overnight shipping, the Village shall be responsible for such charges. In addition, the Village of Wilmette will not be responsible for paying freight in and freight out charges, on any parts ordered. This clause shall be in effect for the life of the equipment.**

FILTER LIST

The vendor shall provide a complete set of Filters and Fluids for the 500 and 1,000 hour service.

ACCESSORIES LIST

A list of all components, parts, and accessories used in the assembly of the unit shall accompany the attachments at time of delivery. All parts such as hydraulic valves, control cables, or accessories not listed in the parts manuals should be listed by part number, description, and manufacturer.

SAFETY CERTIFICATE

NONE

WARRANTIES AND GUARANTEES

The contractor will provide the Village with a Full Machine guarantees and warranties for 3/Year or 3,000 hour. All equipment installation shall be warranted for 100% parts, labor, and transportation for a minimum of one year with no limit on miles traveled or hours of use for the machine. In addition, if the unit fails to properly operate within one year after acceptance of the unit by the Village due to faulty labor, materials or equipment and not due to negligence on the part of Village personnel, the contractor will make such repairs as necessary to return the unit to proper operating condition, such repairs being at the expense of the contractor, including transport to and from the vendor's shop if required.

Quoted Pricing and Timing for Completion:

1. TOTAL COST FOR ONE COMPLETE RUBBER TIRED WHEEL LOADER:

In Dollars: \$ 197,286⁻

In Words: One hundred ninety seven, two hundred eighty six

WHEEL LOADER MAKE: JOHN DEERE Model: 624L.
Please provide descriptive literature with bid

STANDARD BUCKET MAKE: JOHN DEERE Model: GP SIZE: 3.0 yd³

LIGHT MATERIAL BUCKET MAKE: JOHN DEERE Model: LM SIZE: 5.25 yd³

Please provide descriptive literature with bid

2. OPTION: TOTAL COST FOR EXTENDED THREE YEAR WARRANTY FOR THE FOLLOWING:

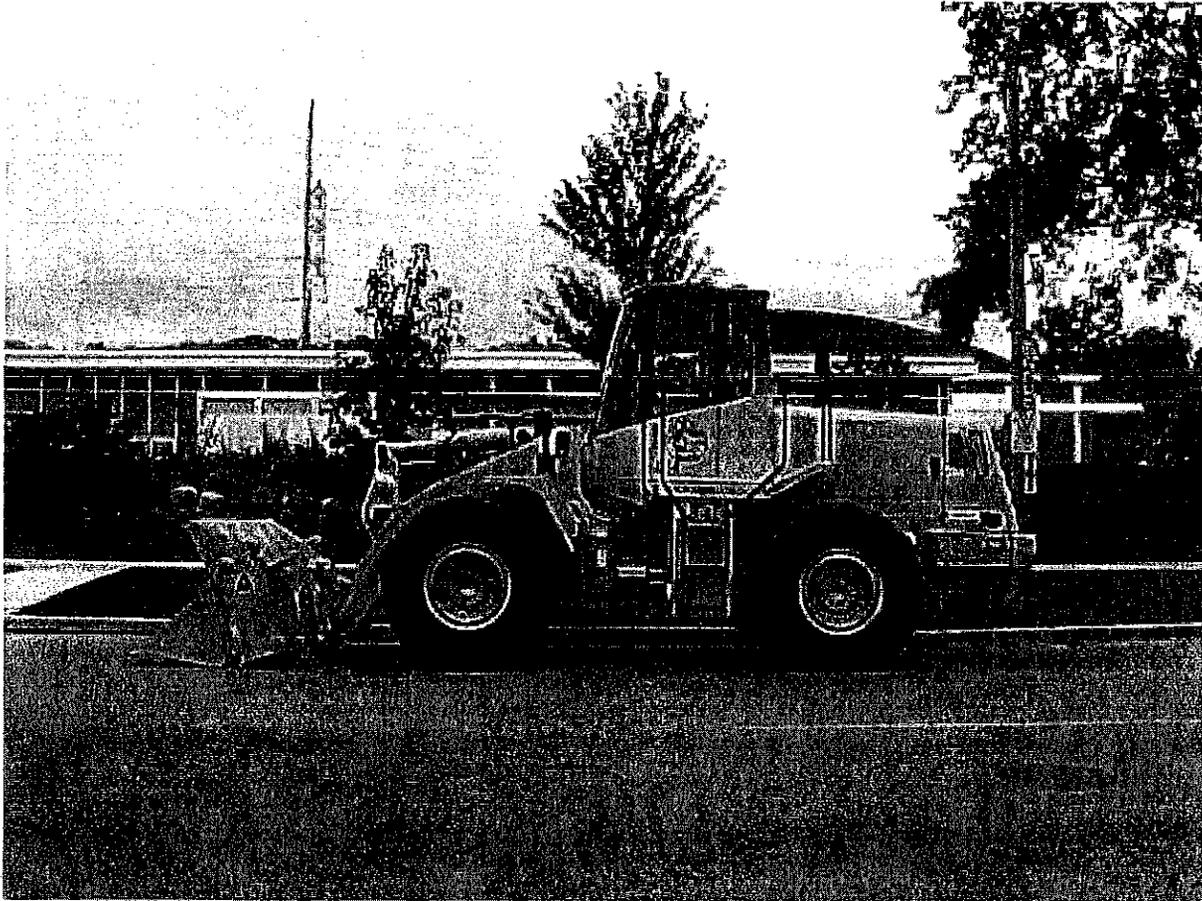
Extended Warranty for Powertrain, Hydraulic, and Major Component 3yr, 3,000 hr.
in Dollars: \$ 1345⁻

Please provide descriptive coverage literature

3. OPTION: TOTAL COST FOR A HYBRID LOADER:

in Dollars: \$ N/A
Please provide descriptive coverage literature

3. OPTION: TRADE IN VALUE FOR THE FOLLOWING:



This trade in will not be available for pick-up by the Vendor until 15 business days after delivery of the completed unit. The trade in vehicle may be viewed at the Public Works Maintenance Facility, 711 Laramie Ave., Wilmette, IL 60091 Monday thru Friday, during normal working hours of operation 7:00 A.M. to 3:00 P.M.

2001 New Holland LW 170 Rubber Tired Wheel Loader

Serial# 570142

Attachments:

- 1. Standard 3.0 Yard Bucket**
- 2. Dymax 5 1/4 Yard Bucket**
- 3. 4/1 Multipurpose Bucket**

TRADE-IN

The following unit may be used for trade-in allowance (at the option of the Village) and shall be part of any contract for this RFP. Radios and any other equipment not integral to the vehicle will be removed prior to being turned over to the Vendor. Any Village markings must be removed by the Village prior to releasing possession of the vehicle. Please indicate the trade-in value in the space provided in the Pricing of the RFP.

TRADE-IN ALLOWANCE:

In Dollars: \$ 26,000

In Words: Twenty Six Thousand dollars

4. DELIVERY TIME: 45-60 (in calendar days from time of order placement)

The above pricing and time for completion are to deliver as per the Specifications shown in this document in **Appendix One**. Vendor offering this proposal must demonstrate that they have the resources and capability to provide the materials and services as described herein. The above prices shall include all labor, materials, removal, overhead, profit, insurance and incidentals required to complete the Work.

DOCUMENTS

The following documents must accompany an invoice at time of delivery:

1. Manufacturers Certificate of Origin.
2. Odometer Disclosure Statements – Buyers and Sellers Copies.
3. State of Illinois Sales Tax Transaction Return # ST556 (out of state vendors must supply an
4. RUT-25 Sales Tax Document).
5. Invoice and Delivery Ticket or Packing Slip

THESE DOCUMENTS MUST ACCOMPANY THE INVOICE OR PAYMENT WILL BE WITHHELD UNTIL DOCUMENTS ARE PROVIDED. THE VILLAGE WILL MAKE APPLICATION FOR STATE LICENSES FOR THIS VEHICLE.

INFORMATION

Any additional information or clarification of the specifications may be obtained weekdays between the hours of 7:00 A.M and 3:00 P.M. by contacting:

Kurt Smith, Vehicle Maintenance Superintendent
Public Works Maintenance Facility
711 Laramie Ave., Wilmette, IL 60091
Tel: (847) 853-7583

#2

Admin Minnesota

Office of State Procurement

Room 112 Administration Bldg., 50 Sherburne Ave., St. Paul, MN 55155; Phone: 651.296.2600, Fax: 651.297.3996
Persons with a hearing or speech disability can contact us through the Minnesota Relay Service by dialing 711 or 1.800.627.3529.

CONTRACT RELEASE: L-331(5)

DATE: MARCH 25, 2019

PRODUCT/SERVICE: ARTICULATING WHEEL LOADERS AND RELATED ACCESSORIES

CONTRACT PERIOD: DECEMBER 1, 2017, THROUGH NOVEMBER 30, 2019

EXTENSION OPTIONS: UP TO 36 MONTHS

ACQUISITION MANAGEMENT SPECIALIST /BUYER (AMS): JEFFREY COMBS

PHONE: 651.201.2447 E-MAIL: jeffrey.combs@state.mn.us WEB SITE: www.mmd.admin.state.mn.us

NOTIFICATION OF MULTIPLE AWARDS

This release contains multiple awards for similar or like items. State Agencies and CPV members should review and compare all Contract Vendor's prices in order to ensure the best value for their potential purchase. Factors such as, but not limited to, cost, equipment warranty terms, vendor location, delivery lead times, available substitutes, selected options and current fleet and equipment or parts inventory levels all may contribute to the total cost/value of an individual purchase. Multiple vendors may be able to satisfy the requirements of the end user and it is important for the purchaser to review all Contracts and Contract prices before executing an order.

CONTRACT VENDOR

CONTRACT NO.

TERMS

DELIVERY

JOHN DEERE CONSTRUCTION
RETAIL SALES
1515 5th Avenue
Moline, IL 61265

134457

Net 30

120 DAYS ARO

CONTACT: Mark Deakyne
EMAIL: DeakyneMarkR@Johndeere.com

PHONE: 309.765.0294
FAX: 309.765.3358

VENDOR NO.: 0000257449-001

List of Authorized Distributors: [http://www.mmd.admin.state.mn.us/pdf/L-331\(5\)AuthorizedDistributor_List.Pdf](http://www.mmd.admin.state.mn.us/pdf/L-331(5)AuthorizedDistributor_List.Pdf)

L & L RENTAL
11481 Spudville Road
Hibbing, MN 55746

134459

NET 30

120 DAYS ARO

CONTACT: Kyle Lind
EMAIL: kyle@landrentalsinc.com

PHONE: 218.262.5232
FAX: 218.263.9734

VENDOR NO.: 0000207622-001

NUSS TRUCK AND EQUIPMENT
12540 Dupont Ave. South
Burnsville, MN 55337

134462

NET 30

60 - 120 DAYS ARO

CONTACT: Mike Sweeney
EMAIL: msweeney@nussgrp.com

PHONE: 952.894.9595
FAX: 952.894.1619

VENDOR NO.: 0000201150-005

Contract Release: L-331(5)

<u>CONTRACT VENDOR</u>	<u>CONTRACT NO.</u>	<u>TERMS</u>	<u>DELIVERY</u>
RDO EQUIPMENT COMPANY 12500 Dupont Ave. S Burnsville, MN 55337	134463	NET 30	60-90 DAYS ARO
VENDOR NO.: 0000199158-001	CONTACT: Jesse Miller EMAIL: jmiller@rdoequipment.com		PHONE: 612.202.6906 FAX: 952.890.7046

List of Authorized Distributors: [http://www.mmd.admin.state.mn.us/pdf/L-331\(5\)AuthorizedDistributorList.PdF](http://www.mmd.admin.state.mn.us/pdf/L-331(5)AuthorizedDistributorList.PdF)

ROAD MACHINERY & SUPPLIES 5633 West Hwy 13 Savage, MN 55378	134464	NET 30	30 DAYS
VENDOR NO.: 0000244135-002	CONTACT: Andy Schwandt (Metro Ops) EMAIL: aschwandt@rmseq.com CONTACT: Jon Anderson (North Ops) EMAIL: janderson@rmseq.com		PHONE: 952.895.7056 FAX: NA PHONE: 218.471.1080 FAX:

TITAN MACHINERY 6340 Co. Road 101E Shakopee, MN 55379	134465	NET 30	1-150 DAYS ARO
VENDOR NO.: 0000251892-018	CONTACT: Brenden Honebrink EMAIL: brenden.honebrink@titanmachinery.com		PHONE: 612.741.3321 FAX: 952.445.0365

List of Authorized Distributors: [http://www.mmd.admin.state.mn.us/pdf/L-331\(5\)AuthorizedDistributorList.PdF](http://www.mmd.admin.state.mn.us/pdf/L-331(5)AuthorizedDistributorList.PdF)

TRUEMAN WELTERS 1600 Hwy 55 E Buffalo, MN 55313	134467	NET 30	1-180 DAYS ARO
VENDOR NO.: 0000193702-001	CONTACT: Seth Strehler EMAIL: seth@welters.net		PHONE: 763.682.2200 FAX: 763.682.6141

ZIEGLER, INC. 901 W 94 th Street Bloomington, MN 55420	134468	NET 30	1-180 DAYS ARO
VENDOR NO.: 0000208585-001	CONTACT: Richard Ainess EMAIL: Richard.ainess@zieglercat.com		PHONE: 952.888.4121 FAX: 952.887.5820

CONTRACT USERS. This Contract is available to the following entities as indicated by the checked boxes below

- State agencies
- Cooperative Purchasing Venture (CPV) members

STATE AGENCY CONTRACT USE. State agencies should make every effort to use the Contract Vendor(s) listed. However, this Contract does not prohibit State agencies from using their delegated local purchasing authority to procure similar products and services from other vendors.

STATE AGENCY ORDERING INSTRUCTIONS. Orders are to be placed directly with the Contract Vendor. State agencies should use a Contract release order (CRO) or a blanket purchase order (BPC). The person ordering should include his or her name and phone number and email address.

CONTRACT FEEDBACK. If these commodities or service can be better structured to help you with your business needs, let us know. We solicit your comments and suggestions to improve all of our contracts so that they may better serve your

Contract Release: L-331(5)

business needs. If you have a need for which no contract currently exists, or you would like to be able to use an existing state contract that is not available to your entity, whether a state agency or CPV, please contact us. If you have specific comments or suggestions about an individual contract you can submit those via the Contract Feedback Form.
SPECIAL TERMS AND CONDITIONS

SCOPE. The purpose of this Contract is to provide Articulating Loaders, and related parts and accessories on an as needed basis for State agencies and Cooperative Purchasing Venture Members (CPV).

SHIPPING REQUIREMENTS. All shipments are to be FOB Destination.

DELIVERY CHARGES. Refer to the Contract Vendor Price Pages for specific delivery charges. Mileage distance will be the distance from the delivery starting point to the Customer's delivery point only. Mileage distances will be determined from <http://maps.yahoo.com>. The ordering agency may use the Contract Vendor delivery, may pick up the equipment, or may contract for delivery with anyone it chooses.

INSTALLATION SERVICES. No installation and/or mounting service charges will be allowed. Unless otherwise called for in the Equipment Specifications or the Price Schedule, the Contract Vendor MAY NOT add costs for any installation service. The price offered must include everything needed so the unit is complete and ready for immediate use by the operator from the cab.

EQUIPMENT SPECIFICATIONS. All equipment must meet the specifications as outlined in the Equipment Specifications section and comply with all federal and State safety codes in effect at the date of manufacture. Any equipment delivered that fails to meet the specifications will be replaced at no additional expense to the Customer.

The specification as defined by the OEM prevails unless otherwise modified by the specifications included in the Solicitation. All optional equipment ordered must be OEM unless otherwise stated in the Equipment Specification.

ORIGINAL EQUIPMENT MANUFACTURER (OEM) WARRANTY. The equipment offered must include the OEM standard warranty. The Contract Vendor shall be responsible for the cost of any inspections, adjustments, warranted parts, and labor charges to repair or replace warranted parts that are a result of equipment failure(s) during the warranty period. This shall be performed promptly unless otherwise mutually agreed by the Customer and the Contract Vendor. The warranty shall commence when the unit is put into service.

EQUIPMENT ORIENTATION. The cost of the equipment must include orientation to the end user that will familiarize the end user on how the equipment will operate, the mounting and removal of accessories and/or options and all operating and safety instruction.

PURCHASE OF RENTED EQUIPMENT. If there are options for the Customer to purchase rented equipment after the equipment has been received and rented, then the final equipment price will be based on the number of engine hours, or miles prior to delivery to the Customer. New rented equipment is defined as rented equipment with zero hours, or miles prior to the delivery to the Customer. Used rental or demo equipment is defined as rental or demo equipment owned and operated by the Contract Vendor with registered engine hours or miles prior to delivery to the Customer.

PURCHASE NEW RENTED EQUIPMENT. New rented equipment is defined as new equipment with zero engine hours, or miles prior to the delivery to the Customer and rented by the Customer prior to purchase. If there is an option to purchase new rental equipment, and if included on the Price Schedule, the Contract Vendor will indicate the percentage of the rental price paid to be applied to the final purchase price. This percent will be deducted from the contracted price for the equipment.

PURCHASE OF USED RENTED EQUIPMENT. Used rental equipment is defined as rental or demo equipment owned and operated by the Contract Vendor and rented by the Customer with registered engine hours or miles prior to delivery to the Customer. The rental equipment for sale must be the same make and model on contract. The manufacturer's warranty shall be transferred to the new owner. The Contract Vendor should consider all associated costs involved if the rental equipment is purchased and no additional interest or finance charges will be allowed.

Contract Release: L-331(5)

MISCELLANEOUS ITEMS. State agencies may purchase incidental miscellaneous parts, accessories and labor that is directly related to a specific item(s) included on the Contract. The total purchase order issued by a State agency for these types of items may not exceed \$5,000.00 for an individual purchase order. If the Customer's entity requires a lower threshold for competitive bidding other than \$5,000.00, they must follow their local entity's requirements. Any purchase order must be issued to the Contract Vendor.

REVISIONS.

- 03.20.2019 AMS changed to JAC from Chris Mish. Ziegler contract (134468) extended until November 30, 2019 with updated products and pricing.
- 02.13.2019 L&L Rental (134459) and Trueman Welters (134467) John Deere (134457) and Nuss (134462) and Titan (134465) contracts extended until November 30, 2019 with updated products and pricing. The remaining contracts will be open for ordering soon, upon final execution.
- 01.28.2019 AMS changed to Christina Mish from Chris Marquette. Contract term extended with updated pricing.

UNSPSC

22101528	Wheel Loader
78111808	Equipment Rental
25174800	Miscellaneous Parts, Attachments

ARTICULATING WHEEL LOADERS AND RELATED ACCESSORIES AND PRICING

- **Price Lists:** Contact the Contract Vendor to confirm the equipment brand, model and build specifications to satisfy your operational requirements. The Contract Vendor shall confirm the equipment brand, model and build specifications to the customer. Contracts were executed with either a fix price or percent discount off a list price. The pricing offered must match the prices in the price book found on the Minnesota Department of Transportation Maintenance Contracts link below.
- **Verifying Contract Prices:** Customers must calculate and confirm all contract prices when placing any order.

Follow these steps:

1. Confirm your equipment selection, delivery date, delivery method and location with the Contract Vendor.
2. Locate the required equipment in the table below and then refer to the contract price book link below.
3. Confirm the correct prices from the Contract Vendor to the State using the price book.
4. Contact the Contract Vendor if you identify any discrepancies.

Select the following link to the MnDOT Contract index.

Locate and select the Contract Name to access the Price Book Pages.

<http://www.dot.state.mn.us/maintenance/equipment/contracts/contracts.html>

JOHN DEERE – #134457

<u>BRAND</u>	<u>MODEL</u>
John Deere	204L
John Deere	244L
John Deere	304L
John Deere	324L
John Deere	344L

L & L RENTALS, INC. - #134459

<u>BRAND</u>	<u>MODEL</u>
Wacker Neuson	WL32
Wacker Neuson	WL34
Wacker Neuson	WL38
Wacker Neuson	WL52
Wacker Neuson	WL60
Wacker Neuson	WL60T

Contract Release: L-331(5)

TITAN MACHINERY - #134465

<u>BRAND</u>	<u>MODEL</u>
Case	21F
Case	121F
Case	221F
Case	321F
Case	521G
Case	621G
Case	621G Waste Handler
Case	721G
Case	721G Waste Handler
Case	821G
Case	921G
Case	1021G
Case	1121G

TRUEMAN WELTERS - #134467

<u>BRAND</u>	<u>MODEL</u>
New Holland	W50C TC
New Holland	W50C ZB
New Holland	W80C
New Holland	W80C HS

ZIEGLER INC. - #134468

<u>BRAND</u>	<u>MODEL</u>
Caterpillar	903D
Caterpillar	906M
Caterpillar	907M
Caterpillar	908M
Caterpillar	910M
Caterpillar	914M
Caterpillar	918M
Caterpillar	926M
Caterpillar	930M
Caterpillar	938M
Caterpillar	950GC
Caterpillar	950M
Caterpillar	962M
Caterpillar	966M
Caterpillar	972M
Caterpillar	980M

Company		RDO Equipment Co / McCoy		
Contact		Jesse Miller		
Phone		612 . 202 . 6906		
Catalog Date		October-18		
				Total Stat
Make	Model	Item Code	Item Description	John Deere List Price
John Deere	624KII	REF AT407942	Front Screen for Canopy or Cab	\$ 2,454
John Deere	624KII	REF AT341614	Front Tire Striker Bar	\$ 1,947
John Deere	624KII	REF AT447818	Hyd Operated Extreme Service Bottom Guards	\$ 5,860
John Deere	624KII	REF AT362678	Hydraulic Operated Extreme Service Bottom Guards	\$ 5,745
John Deere	624KII	REF AT407941	IT4 CAB SIDES AND REAR SCREEN PACKAGE	\$ 3,826
John Deere	624KII	REF AT348216	Rear Access Platform w/Steps & Hand Holds w/o 4th gear lock-out	\$ 5,563
John Deere	624KII	REF AT418683	Rear Access Platform with Steps & Hand Holds	\$ 5,563
John Deere	624KII	REF AT447820	Rear Access Platforms	\$ 5,793
John Deere	624KII	REF AT447822	T3 Waste Handler Package, Installed	\$ 24,458
John Deere	624KII	REF AT439717	Loadrite L2180 Payload Scale Referral Kit	\$ 11,190
John Deere	624KII	REF AT439715	Loadrite L2180 Payload Scale Referral Kit for Code 2810	\$ 11,190
John Deere	624L	7590DW	624L WHEEL LOADER	\$ 237,881
John Deere	624L	2605	English Decals and Manuals	No Added Cost
John Deere	624L	2610	Spanish Decals and Manuals	No Added Cost
John Deere	624L	2615	French Decals and Manuals	No Added Cost
John Deere	624L	0924	John Deere PowerTech Engine	\$ 25,890
John Deere	624L	1510	Standard Hydraulic Fan	No Added Cost
John Deere	624L	1520	Automatic Reversing Hydraulic Fan	\$ 1,822
John Deere	624L	1410	Standard Engine Air Intake System	No Added Cost
John Deere	624L	1430	Engine Air Intake System with Centrifugal Precleaner	\$ 736
John Deere	624L	1310	Flat Black Curved Stack	No Added Cost
John Deere	624L	1330	Chrome Curved Stack	\$ 444
John Deere	624L	1610	Standard Fuel Filter with Water Separator and Standard Fuel Fill	No Added Cost
John Deere	624L	1210	100 amp Alternator	No Added Cost
John Deere	624L	1215	130 amp Alternator	\$ 361
John Deere	624L	2708	8 Amp Converter	No Added Cost
John Deere	624L	2715	15 Amp Converter	\$ 127
John Deere	624L	2730	30 Amp Converter	\$ 292
John Deere	624L	7120	Halogen Work and Drive Lights	No Added Cost
John Deere	624L	7140	Premium LED Work and Drive Lights	\$ 1,600
John Deere	624L	2810	Loadrite L2180 Payload Scale with Cycle Counter	In Referral Price
John Deere	624L	2850	Embedded Payload Scale (EPS) with Cycle Counter	\$ 7,877
John Deere	624L	2870	No Payload Scale with Cycle Counter	\$ 131

Company	RDO Equipment Co / McCoy	 JD
Contact	Jesse Miller	
Phone	612 . 202 . 6906	
Catalog Date	October-18	

Make	Model	Item Code	Item Description	John Deere List Price
John Deere	624L	2890	No Payload Scale without Cycle Counter	No Added Cost
John Deere	624L	1110	5-Speed Powershift Transmission	\$ (4,306)
John Deere	624L	1120	5-Speed Powershift Transmission with Lock-up Torque Converter	No Added Cost
John Deere	624L	3046	Front Hydraulically Locking Differential and Rear Conventional	No Added Cost
John Deere	624L	3049	High Traction - Front & Rear Hydraulically Locking Differential Axles	\$ 2,708
John Deere	624L	3110	Automatic Differential Lock	\$ 1,578
John Deere	624L	3120	Manual Axle Differential Lock	No Added Cost
John Deere	624L	8220	Rear Hitch and Counterweight	No Added Cost
John Deere	624L	8230	Less Rear Hitch and Counterweight	\$ (1,408)
John Deere	624L	4000	Less Wheels and Tires	No Added Cost
John Deere	624L	4007	20.5x25 3pc. Rims Less Tires	\$ 3,501
John Deere	624L	4008	600/65R25 3pc. Rims Less Tires	\$ 3,516
John Deere	624L	4932	No Brand Preference	\$ 15,760
John Deere	624L	4413	Titan TGD2, 20.5R25 L2 Single Star Radial Tires with 3pc Rims	\$ 16,560
John Deere	624L	4412	Bridgestone VUT, 20.5R25 L2 Single Star Radial Tires with 3pc Rims	\$ 18,691
John Deere	624L	4411	Michelin XTLA, 20.5R25 L2 Single Star Radial Tires with 3pc Rims	\$ 20,185
John Deere	624L	4332	Firestone SRG, 20.5-25 16PR L3 Bias Tires with 3pc. Rims	\$ 15,544
John Deere	624L	4415	Michelin XSnoPlus, 20.5R25 L2 Radial Tires with 3pc Rims	\$ 22,025
John Deere	624L	5114	Michelin MegaXbib, 620/75R26 Agriculture Tires with 1pc Rims	\$ 21,325
John Deere	624L	4933	No Brand Preference	\$ 13,138
John Deere	624L	4323	Titan Loader, 20.5-25 L2 16PR Bias Tires with 3pc Rims	\$ 13,911
John Deere	624L	4322	Firestone SGG, 20.5-25 L2 16PR Bias Tires with 3pc Rims	\$ 14,470
John Deere	624L	4934	No Brand Preference	\$ 14,504
John Deere	624L	4423	Titan STL3, 20.5R25 L3 Single Star Radial Tires with 3pc Rims	\$ 15,346
John Deere	624L	4425	Bridgestone VJT, 20.5R25 L3 Single Star Radial Tires with 3pc Rims	\$ 18,371
John Deere	624L	4421	Michelin XHA2, 20.5R25 L3 Single Star Radial Tires with 3pc Rims	\$ 21,009
John Deere	624L	5530	Standard Front Fenders	No Added Cost
John Deere	624L	5540	Full Width Front Fenders	\$ 353
John Deere	624L	5550	Full Width Front and Rear Fenders	\$ 2,550
John Deere	624L	5560	Full Coverage Front and Rear Fenders with Mudflaps	\$ 3,097
John Deere	624L	5570	Less Fenders and Rear Platforms	No Added Cost
John Deere	624L	2010	Standard Z-BAR	No Added Cost
John Deere	624L	2020	High Lift Z-BAR	\$ 4,858
John Deere	624L	2026	High Lift Plus Z-BAR	\$ 6,911

Company		RDO Equipment Co / McCoy		
Contact		Jesse Miller		
Phone		612 . 202 . 6906		
Catalog Date:		October-18		
				Total Stat
Make	Model	Item Code	Item Description	John Deere List Price
John Deere	624L	2060	Tool Carrier Linkage	\$ 7,855
John Deere	624L	2350	Single Axis Lever Controls	\$ 225
John Deere	624L	2360	Joystick Controls	No Added Cost
John Deere	624L	2402	Two Function Hydraulics	No Added Cost
John Deere	624L	2403	Three Function Hydraulics	\$ 2,465
John Deere	624L	2404	Four Function Hydraulics	\$ 4,675
John Deere	624L	1970	Hydrau Hydraulic Fluid	No Added Cost
John Deere	624L	1975	Hydrau XR Hydraulic Fluid	\$ 275
John Deere	624L	2510	Ride Control	\$ 4,435
John Deere	624L	2520	Less Ride Control	No Added Cost
John Deere	624L	1905	Standard Cab	No Added Cost
John Deere	624L	1910	Premium Cab	\$ (565)
John Deere	624L	8450	Cab with Air A/C Charge	No Added Cost
John Deere	624L	2220	Deluxe Seat, Cloth with Air Suspension	No Added Cost
John Deere	624L	2240	Premium Seat, Heated and Ventilated with Heavy Duty Air	\$ 1,430
John Deere	624L	8310	Standard Exterior Mirrors	No Added Cost
John Deere	624L	8320	Heated Exterior Mirrors	\$ 465
John Deere	624L	8350	Remote Powered and Heated Exterior Mirrors	\$ 785
John Deere	624L	1940	7 inch Monitor	No Added Cost
John Deere	624L	1945	7 inch Monitor with Dedicated Rear Camera Display	\$ 1,815
John Deere	624L	1934	5 inch Monitor	\$ (225)
John Deere	624L	8235	Rear Camera and Rear Object Radar Detection	\$ 4,845
John Deere	624L	8240	Rear Camera	\$ 1,195
John Deere	624L	8250	No Rear Object Detection	No Added Cost
John Deere	624L	8275	Strobe Beacon with Left Beacon Bracket	\$ 305
John Deere	624L	8290	Left Beacon Bracket Only	\$ 185
John Deere	624L	8298	No Strobe Beacon or Left Beacon Bracket	No Added Cost
John Deere	624L	5610	Left Side Steps Only	No Added Cost
John Deere	624L	5620	Left And Right Side Steps	\$ 1,015
John Deere	624L	5670	Close Mounted Left Side Steps Only	No Added Cost
John Deere	624L	8360	Standard Radio	\$ 635
John Deere	624L	8370	Premium AM/FM/Weather Band (WB) with Bluetooth, Remote Aux	\$ 935
John Deere	624L	8380	No Radio	No Added Cost
John Deere	624L	2120	Steering Wheel Only	No Added Cost

Company		RDO Equipment Co / McCoy		
Contact		Jesse Miller		
Phone		612 . 202 . 6906		
Catalog Date		October-18		
				Total Stat
Make	Model	Item Code	Item Description	John Deere List Price
John Deere	624L	2130	Steering Wheel Only with Secondary Steering	\$ 3,148
John Deere	624L	170C	JDLink Ultimate Cellular - 5 Years	No Added Cost
John Deere	624L	170J	JDLink Ultimate Satellite - 5 Years	\$ 2,290
John Deere	624L	1010	Standard Wheel Loader	No Added Cost
John Deere	624L	1021	Waste Handler Configuration	No Added Cost
John Deere	624L	1030	Agriculture Material Handling Configuration	\$ (1,485)
John Deere	624L	8560	Hydraulic Coupler - JRB 416 Pattern	\$ 6,305
John Deere	624L	8561	Hydraulic Coupler - HI-Vis/ISO Pattern	\$ 6,305
John Deere	624L	8563	Field Coupler Ready: Pin Disconnect Plumbing	\$ 1,605
John Deere	624L	8565	Field Bucket Ready: Pins Only	\$ 657
John Deere	624L	8567	Factory Pin-on Bucket Ready	No Added Cost
John Deere	624L	5760	60 In (1524mm) Wide Fork Frame	\$ 4,661
John Deere	624L	5780	96 In (2438mm) Wide Fork Frame	\$ 7,931
John Deere	624L	5840	No Fork Frame	No Added Cost
John Deere	624L	5860	48 Inch (1219mm) Construction Tines	\$ 985
John Deere	624L	5870	60 Inch (1524mm) Construction Tines	\$ 1,259
John Deere	624L	5890	72 Inch (1829mm) Construction Tines	\$ 1,590
John Deere	624L	5940	No Tines	No Added Cost
John Deere	624L	8850	Bolt-on Cutting Edge	\$ 965
John Deere	624L	8860	Bolt-on Cutting Edge	\$ 1,107
John Deere	624L	8870	Bolt-on Teeth with Cutting Edge Segments	\$ 1,595
John Deere	624L	8880	Bolt-on Teeth with Cutting Edge Segments	\$ 1,825
John Deere	624L	8890	No Bucket Edge or Teeth	No Added Cost
John Deere	624L	8900	2.5 Cu. Yd. Bucket	\$ 6,665
John Deere	624L	8905	2.75 Cu. Yd. Bucket	\$ 7,215
John Deere	624L	8910	3.0 Cu. Yd. Bucket (Coupler)	\$ 7,735
John Deere	624L	8915	3.25 Cu. Yd. Bucket	\$ 7,995
John Deere	624L	8920	3.5 Cu. Yd. Bucket	\$ 8,545
John Deere	624L	8925	3.75 Cu. Yd. Bucket	\$ 9,385
John Deere	624L	8930	4.0 Cu. Yd. Light Material Bucket	\$ 10,995
John Deere	624L	8940	4.5 Cu. Yd. Light Material Bucket	\$ 11,985
John Deere	624L	8950	5.25 Cu. Yd. Light Material Bucket	\$ 13,355
John Deere	624L	8960	No Bucket	No Added Cost
John Deere	624L	9015	Engine Block Heater	\$ 265

Company	RDO Equipment Co / McCoy			
Contact	Jesse Miller			
Phone	612 . 202 . 6906			
Catalog Date	October-18			
				Total Stat
Make	Model	Item Code	Item Description	John Deere List Price
John Deere	624L	9043	Environmental Drains and Sampling Ports	\$ 453
John Deere	624L	9055	Throttle Lock	\$ 237
John Deere	624L	9240	Engine Compartment Light	\$ 199
John Deere	624L	9050	Wheel Spin Control System	\$ 541
John Deere	624L	9707	20.5R25 1 STAR L2 NO BRAND PREFERRED RADIAL TIRES WITH 3	No Added Cost
John Deere	624L	9708	20.5-25 L2 16PR BIAS NO BRAND PREFERRED WITH 3 PC RIMS	No Added Cost
John Deere	624L	9709	20.5R25 1 STAR L3 NO BRAND PREFERRED RADIAL TIRES WITH 3	No Added Cost
John Deere	624L	9115	Powered Cab Fresh Air Pre-Cleaner	\$ 1,043
John Deere	624L	9140	Fire Extinguisher	\$ 164
John Deere	624L	9210	Electrical Corrosion Prevention Package	\$ 1,573
John Deere	624L	9410	Transmission and Bottom Guards	\$ 2,138
John Deere	624L	9510	Lift Hooks	\$ 350
John Deere	624L	9520	License Plate Bracket	\$ 193
John Deere	624L	9525	Slow Moving Vehicle (SMV) Emblem	\$ 173
John Deere	624L	9800	Finish Paint - Decals Not Installed	No Added Cost
John Deere	624L	9909	Shipping Rust Preventive Coating - Non Export	\$ 259
John Deere	624L	99X9	Custom Job Placeholder	No Added Cost
John Deere	624L	BYT10596	2.5 Cu. Yd. Hi-Vis Coupler Bucket w/ Cutting Edge	\$ 6,490
John Deere	624L	BYT10623	2.5 Cu. Yd. Std. Coupler Bucket w/ Cutting Edge	\$ 6,490
John Deere	624L	BYT10597	2.75 Cu. Yd. Hi-Vis Coupler Bucket w/ Cutting Edge	\$ 6,952
John Deere	624L	BYT10625	2.75 Cu. Yd. Std. Coupler Bucket w/ Cutting Edge	\$ 6,952
John Deere	624L	BYT10604	3.0 Cu. Yd. Hi-Vis Coupler Bucket w/ Cutting Edge	\$ 7,397
John Deere	624L	BYT10626	3.0 Cu. Yd. Std. Coupler Bucket w/ Cutting Edge	\$ 7,397
John Deere	624L	BYT10608	3.25 Cu. Yd. Hi-Vis Coupler Bucket w/ Cutting Edge	\$ 7,736
John Deere	624L	BYT10627	3.25 Cu. Yd. Std. Coupler Bucket w/ Cutting Edge	\$ 7,736
John Deere	624L	BYT10613	3.5 Cu. Yd. Hi-Vis Coupler Bucket w/ Cutting Edge	\$ 8,203
John Deere	624L	BYT10628	3.5 Cu. Yd. Std. Coupler Bucket w/ Cutting Edge	\$ 8,203
John Deere	624L	BYT10616	3.75 Cu. Yd. Hi-Vis Coupler Bucket w/ Cutting Edge	\$ 8,919
John Deere	624L	BYT10629	3.75 Cu. Yd. Std. Coupler Bucket w/ Cutting Edge	\$ 8,919
John Deere	624L	BYT10778	4.00 Cu. Yd. Hi-Vis Coupler Light Material w/ Cutting Edge	\$ 10,290
John Deere	624L	BYT10779	4.00 Cu. Yd. Std. Coupler Light Material w/ Cutting Edge	\$ 10,290
John Deere	624L	BYT10777	4.50 Cu. Yd. Hi-Vis Coupler Light Material w/ Cutting Edge	\$ 11,126
John Deere	624L	BYT10780	4.50 Cu. Yd. Std. Coupler Light Material w/ Cutting Edge	\$ 11,126
John Deere	624L	BYT10776	5.25 Cu. Yd. Hi-Vis Coupler Light Material w/ Cutting Edge	\$ 12,294

Company		RDO Equipment Co / McCoy		
Contact		Jesse Miller		
Phone		612 . 202 . 6906		
Catalog Date		October 18		
				Total Stat
Make	Model	Item Code	Item Description	John Deere List Price
John Deere	624L	BYT10781	5.25 Cu. Yd. Std. Coupler Light Material w/ Cutting Edge	\$ 12,294
John Deere	624L	BYT10630	2.75 Cu. Yd. YD Pin-on Bucket w/ Cutting Edge	\$ 6,952
John Deere	624L	BYT10633	3.5 Cu. Yd. YD Pin-on Bucket w/ Cutting Edge	\$ 8,203
John Deere	624L	BYT10634	3.75 Cu. Yd. YD Pin-on Bucket w/ Cutting Edge	\$ 8,915
John Deere	624L	BYT10637	Hi-Vis Coupler	\$ 5,358
John Deere	624L	BYT10638	Standard JRB Coupler	\$ 5,358
John Deere	624L	BYT10664	60 in. (1.52 m) Coupler Fork Frame Carriage w/ (2) 48 in. (1.219	\$ 4,797
John Deere	624L	BYT10665	60 in. (1.52 m) Coupler Fork Frame Carriage w/ (2) 60 in. (1.52 m)	\$ 5,032
John Deere	624L	BYT11127	60 in. (1.52 m) Coupler Fork Frame Carriage w/ (2) 72 in. (1.83 m)	\$ 5,314
John Deere	624L	BYT10662	60 in. (1.52 m) Hi-Vis Coupler Fork Frame Carriage w/ (2) 48 in.	\$ 4,797
John Deere	624L	BYT10663	60 in. (1.52 m) Hi-Vis Coupler Fork Frame Carriage w/ (2) 60 in.	\$ 5,032
John Deere	624L	BYT11128	60 in. (1.52 m) Hi-Vis Coupler Fork Frame Carriage w/ (2) 72 in.	\$ 5,314
John Deere	624L	BYT10840	96 in. (2.44 m) Coupler Fork Frame Carriage w/ (2) 60 in. (1.52 m)	\$ 7,811
John Deere	624L	BYT11129	96 in. (2.44 m) Coupler Fork Frame Carriage w/ (2) 72 in. (1.83 m)	\$ 8,092
John Deere	624L	BYT10841	96 in. (2.44 m) Hi-Vis Coupler Fork Frame Carriage w/ (2) 60 in.	\$ 7,811
John Deere	624L	BYT11130	96 in. (2.44 m) Hi-Vis Coupler Fork Frame Carriage w/ (2) 72 in.	\$ 8,092
John Deere	644K	7660T	644K LOADER	\$ 301,250
John Deere	644K	0810	Standard Gathering Group	No Added Cost
John Deere	644K	2605	English Labels and Decals	No Added Cost
John Deere	644K	2610	Spanish Labels and Decals	No Added Cost
John Deere	644K	2615	French Labels and Decals	No Added Cost
John Deere	644K	0924	John Deere PowerTech Engine	\$ 43,365
John Deere	644K	1510	Standard Fan Drive	No Added Cost
John Deere	644K	1520	Reversing Fan Drive	\$ 1,797
John Deere	644K	1410	Air Intake system without Precleaner Engine	No Added Cost
John Deere	644K	1430	Air Intake System with Centrifugal Precleaner Engine	\$ 659
John Deere	644K	1310	Engine Exhaust with Flat Black Curved Stack	No Added Cost
John Deere	644K	1330	Engine Exhaust with Chrome Curved Stack	\$ 367
John Deere	644K	1610	Standard Fuel Filter & Water Separator	No Added Cost
John Deere	644K	1620	Severe Duty Fuel Filter & Water Separator with Heater	\$ 1,042
John Deere	644K	1211	100 amp Alternator - FT4	\$ 294
John Deere	644K	1215	130 amp Alternator	\$ 625
John Deere	644K	2708	24 Volt to 12 Volt - 8 Amp Converter	No Added Cost
John Deere	644K	2715	24 Volt to 12 Volt - 15 Amp Converter	\$ 123

471.345 UNIFORM MUNICIPAL CONTRACTING LAW.

Subdivision 1. **Municipality defined.** For purposes of this section, "municipality" means a county, town, city, school district or other municipal corporation or political subdivision of the state authorized by law to enter into contracts.

Subd. 2. **Contract defined.** A "contract" means an agreement entered into by a municipality for the sale or purchase of supplies, materials, equipment or the rental thereof, or the construction, alteration, repair or maintenance of real or personal property.

Subd. 3. **Contracts over \$175,000.** If the amount of the contract is estimated to exceed \$175,000, sealed bids shall be solicited by public notice in the manner and subject to the requirements of the law governing contracts by the particular municipality or class thereof. With regard to repairs and maintenance of ditches, the provisions of section 103E.705, subdivisions 5, 6, and 7, apply.

Subd. 3a. **Contracts over \$175,000; best value alternative.** As an alternative to the procurement method described in subdivision 3, municipalities may award a contract for construction, alteration, repair, or maintenance work to the vendor or contractor offering the best value under a request for proposals as described in section 16C.28, subdivision 1, paragraph (a), clause (2), and paragraph (c).

Subd. 4. **Contracts exceeding \$25,000 but not \$175,000.** If the amount of the contract is estimated to exceed \$25,000 but not to exceed \$175,000, the contract may be made either upon sealed bids or by direct negotiation, by obtaining two or more quotations for the purchase or sale when possible, and without advertising for bids or otherwise complying with the requirements of competitive bidding. All quotations obtained shall be kept on file for a period of at least one year after receipt thereof.

Subd. 4a. **Contracts exceeding \$25,000 but not \$175,000; best value alternative.** As an alternative to the procurement method described in subdivision 4, municipalities may award a contract for construction, alteration, repair, or maintenance work to the vendor or contractor offering the best value under a request for proposals as described in section 16C.28, subdivision 1, paragraph (a), clause (2), and paragraph (c).

Subd. 5. **Contracts \$25,000 or less.** If the amount of the contract is estimated to be \$25,000 or less, the contract may be made either upon quotation or in the open market, in the discretion of the governing body. If the contract is made upon quotation it shall be based, so far as practicable, on at least two quotations which shall be kept on file for a period of at least one year after their receipt. Alternatively, municipalities may award a contract for construction, alteration, repair, or maintenance work to the vendor or contractor offering the best value under a request for proposals as described in section 16C.28, subdivision 1, paragraph (a), clause (2), and paragraph (c).

Subd. 5a. **County or town rental contracts.** If the amount of a county or town contract for the rental of equipment is estimated to be \$60,000 or less, the contract may, in the discretion of the county or town board, be made by direct negotiation by obtaining two or more quotations for the rental when possible and without advertising for bids or otherwise complying with the requirements of competitive bidding. All quotations shall be kept on file for a period of at least one year after their receipt.

Subd. 5b. **Water tank service contracts.** (a) A municipality may, by direct negotiation or through the solicitation of requests for proposals, enter into a multiyear professional service contract for the engineering, repair, and maintenance of a water storage tank and appurtenant facilities owned, controlled, or operated by the municipality, if the contract contains:

(1) a provision that the municipality is not required to make total payments in a single year that exceed the water utility charges received by the municipality for that year;

other hospitals or ambulance services either through one of the hospitals or ambulance services or through another entity, may be purchased without regard to the competitive bidding requirements of this section, if the following conditions are met:

- (1) the hospital's or ambulance service's governing authority authorizes the arrangement;
- (2) the shared services purchasing program purchases items available from more than one source on the basis of competitive bids or competitive quotations of prices; and
- (3) the arrangement authorizes the hospital's or ambulance service's governing authority or its representatives to review the purchasing procedures to determine compliance with these requirements.

The shared services purchasing program may award contracts to more than one bidder if doing so does not decrease the service level or diminish the effects of competition.

Subd. 11. Fuel contracts for generation of municipal power. Notwithstanding the amount of the contract, any contract entered into by a municipality for the purchase of fuel required for the generation of power from municipal power plants shall be governed by subdivision 4.

Subd. 12. Procurement from rehabilitation facilities. Nothing in this section prohibits a municipality from adopting a resolution, rule, regulation, or ordinance that on an annual basis designates and sets aside for awarding to rehabilitation facilities as described in section 268A.06 a percentage of the value of its anticipated total procurement of goods and services, including construction, and which uses either a negotiated price or bid contract procedure in the awarding of a procurement contract under a set-aside program as allowed in this subdivision, provided that any award based on a negotiated price shall not exceed by more than five percent the municipality's estimated price for the goods and services if they were purchased on the open market and not under the set-aside program.

Subd. 13. Energy efficiency projects. The following definitions apply to this subdivision.

(a) "Energy conservation measure" means a training program or facility alteration designed to reduce energy consumption or operating costs and includes:

- (1) insulation of the building structure and systems within the building;
- (2) storm windows and doors, caulking or weatherstripping, multiglazed windows and doors, heat absorbing or heat reflective glazed and coated window and door systems, additional glazing, reductions in glass area, and other window and door system modifications that reduce energy consumption;
- (3) automatic energy control systems;
- (4) heating, ventilating, or air conditioning system modifications or replacements;
- (5) replacement or modifications of lighting fixtures to increase the energy efficiency of the lighting system without increasing the overall illumination of a facility, unless an increase in illumination is necessary to conform to the applicable state or local building code for the lighting system after the proposed modifications are made;
- (6) energy recovery systems;
- (7) cogeneration systems that produce steam or forms of energy such as heat, as well as electricity, for use primarily within a building or complex of buildings;
- (8) energy conservation measures that provide long-term operating cost reductions; and

Subd. 14. **Damage awards.** In any action brought challenging the validity of a municipal contract under this section, the court shall not award, as any part of its judgment, damages, or attorney's fees, but may award an unsuccessful bidder the costs of preparing an unsuccessful bid.

Subd. 15. **Cooperative purchasing.** (a) Municipalities may contract for the purchase of supplies, materials, or equipment by utilizing contracts that are available through the state's cooperative purchasing venture authorized by section 16C.11. For a contract estimated to exceed \$25,000, a municipality must consider the availability, price and quality of supplies, materials, or equipment available through the state's cooperative purchasing venture before purchasing through another source.

(b) If a municipality does not utilize the state's cooperative purchasing venture, a municipality may contract for the purchase of supplies, materials, or equipment without regard to the competitive bidding requirements of this section if the purchase is through a national municipal association's purchasing alliance or cooperative created by a joint powers agreement that purchases items from more than one source on the basis of competitive bids or competitive quotations.

Subd. 16. **Reverse auction.** Notwithstanding any other procedural requirements of this section, a municipality may contract to purchase supplies, materials, and equipment using an electronic purchasing process in which vendors compete to provide the supplies, materials, or equipment at the lowest selling price in an open and interactive environment. A municipality may not use this process to contract for services, as defined by section 16C.02, subdivision 17, or a service contract, as defined by section 16C.02, subdivision 7a. Nothing in this subdivision must be construed to prohibit a municipality from adopting a resolution, rule, regulation, or ordinance relating to minimum labor standards under subdivision 7, or procurement from economically disadvantaged persons under subdivision 8.

Subd. 17. **Electronic sale of surplus supplies, materials, and equipment.** Notwithstanding any other procedural requirements of this section, a municipality may contract to sell supplies, materials, and equipment which is surplus, obsolete, or unused using an electronic selling process in which purchasers compete to purchase the surplus supplies, materials, or equipment at the highest purchase price in an open and interactive environment.

Subd. 18. **Electronic bidding.** Notwithstanding any other procedural requirements of this section, vendors may submit bids, quotations, and proposals electronically in a form and manner required by the municipality. A municipality may allow bid, performance, or payment bonds, or other security, to be furnished electronically.

Subd. 19. **Town road construction and maintenance.** Notwithstanding any other procedural requirements of this section, a town may contract for the construction or maintenance of a town road by agreeing to the terms of an existing contract between a vendor and a county for road construction or maintenance on an adjoining road if the existing county contract was made in conformance with all applicable procedural requirements.

Subd. 20. **Solicitations to small business enterprises or veteran-owned small businesses.** A contract, as defined in subdivision 2, estimated not to exceed \$250,000 may be made pursuant to the provisions of subdivision 4 provided that a business that is directly solicited is: (1) certified as a small business enterprise by a county designated small business certification program; or (2) certified by the commissioner of administration as a small business that is majority-owned and operated by a veteran or a service-disabled veteran. This subdivision applies only to county boards.

History: 1969 c 934 s 1; 1973 c 123 art 5 s 7; 1973 c 226 s 1,2; 1974 c 510 s 1; 1977 c 182 s 1-3; 1980 c 462 s 4; 1983 c 42 s 1-3; 1983 c 301 s 211; 1984 c 413 s 1; 1985 c 172 s 129; 1Sp1985 c 13 s 347; 1986

Membership Application

Please provide the information requested below and mail, email or fax it to:

Office of State Procurement
Attention: Sherry Brown
112 Administration Building
50 Sherburne Avenue
St. Paul MN 55155

Email: sherry.brown@state.mn.us
Fax: 651.297.3996

A membership permit number and security access code will be sent to you following receipt and processing of your application.

ORGANIZATION NAME

ADDRESS

CITY STATE ZIP

CONTACT NAME

TELEPHONE FAX

CONTACT EMAIL

AUTHORIZED NAME (PLEASE PRINT)

AUTHORIZED SIGNATURE

Eligibility based on (please circle):

471.59 16C.23 43A.50
309.50 145.9268 16C.03

June 2018

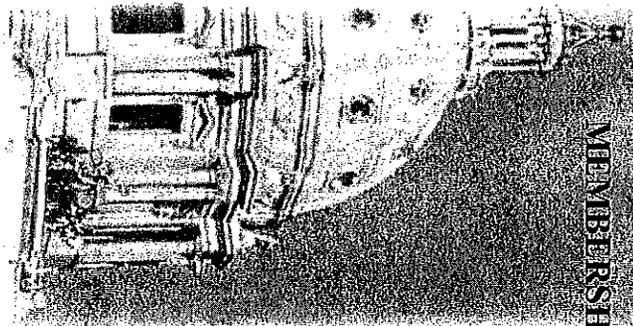
Cooperative Purchasing Venture
Office of State Procurement
112 Administration Building
50 Sherburne Avenue
St. Paul MN 55155

MEMBERSHIP IS FREE

Cooperative Purchasing Venture (CPV)

Membership Application

MEMBERSHIP IS FREE



**STATE OF MINNESOTA
EQUIPMENT SPECIFICATION**

SPECIFICATION: 760-917

September, 2017

1.0 SCOPE

ARTICULATING WHEEL LOADER

This unit shall be the most currently advertised production model as modified per specifications and approved by Mn/DOT. Unit shall be furnished with all standard equipment advertised whether or not specifically called for here - except where the item is replaced by optional over standard equipment or conflicting equipment is specified. The unit shall be complete and ready to operate with all equipment required for immediate operation and meeting all applicable codes and standards.

2.0 ARTICULATING WHEEL LOADER REQUIREMENTS

- 2.1 Articulating wheel loader shall have backup alarm.
- 2.2 Articulating wheel loader shall have an operator warning system.
- 2.3 Articulating wheel loader shall have inside-cab gauges or electronic monitoring which include fuel, hydraulic oil temp, engine coolant temp, hour meter, transmission oil temp, tachometer, engine oil pressure and voltmeter/alternator.
- 2.4 Unit shall have inside cab rear view mirror and outside West Coast mirrors.
- 2.5 Cab shall have ROPS and seatbelt.
- 2.6 Unit shall have front and rear windshield washer and wiper system.
- 2.7 Unit shall have cab heater with window defroster.
- 2.8 Unit shall have road and work lights.
- 2.9 Unit shall have parking brake.
- 2.10 Unit shall have vandal-proof caps and engine compartment.
- 2.11 Unit shall have hydraulic steering.
- 2.12 Frame/steering shall be articulating with safety lock.
- 2.13 Engine shall be liquid cooled diesel type.
- 2.14 Unit shall have engine coolant heater with weather-proof plug.
- 2.15 Unit shall have cold starting aid system.
- 2.16 When offering attachments such as buckets with quick couplers, 4 in 1 buckets, wing plows, etc., price must include everything needed so unit is complete, installed, ready to be used and operable from the cab.
- 2.17 Manufacturer's standard color acceptable, lead free paint.
- 2.18 Articulating wheel loader shall be delivered with one complete additional set of OEM air and fluid filters.
- 2.19 Each articulating wheel loader shall be supplied with one set of parts, service, repair and operations manuals.
- 2.20 Vendor to ensure equipment meets all current federal and Minnesota safety codes.
- 2.21 The Contract Vendor to give adequate instruction in mounting and removal, operation, safety and maintenance of supplied equipment before payment will be made.

#3

Price quote for: **Articulating Wheel Loaders**

Vendor Name: **RDO Equipment Company / McCoy Construction & Forestry**
 Contact Person: **Jesse Miller**
 Street Address: **12500 Dupont Avenue South**
 P.O. Box:
 City, State, Zip: **Burnsville, MN 55404**
 Phone #: **612.202.6906**
 Toll Free #: **800.950.3298**
 Fax #: **952.890.7046**
 Email Address: **jmiller@rdoequipment.com**

Version of Excel used: 2016

PERCENTAGE DISCOUNT PRICING

1.0	MANUFACTURER	John Deere
1.1	Model	624L
2.0	DATE AND ID. OF PRICE LIST	Oct-18
3.0	PERCENTAGE DISCOUNT FROM PRICE LIST	
3.1	Deere Order Codes not beginning with AT	43.50%
3.2	Deere Order Codes beginning with AT (Unless otherwise noted, these items do not include freight to dealer or installation due to the vast range of costs associated with them.)	41.50%
3.3	Deere Order Codes beginning with REF (Unless otherwise noted, these items do not include freight to dealer or installation due to the vast range of costs associated with them.)	
		30.00%
3.4	Deere Order Codes beginning with AT - Installation freight rate per loaded mile:	\$ 6.00
3.5	Deere Order Codes beginning with AT - Installation labor rate per hour:	\$ 134.00
4.0	PRICE FOR ADDITIONAL SERVICE MANUAL	\$ 200.00
4.1	PRICE FOR ADDITIONAL PARTS MANUAL	\$ 450.00
4.2	PRICE FOR ADDITIONAL OPERATIONS MANUAL	\$ 150.00

5.0 PERFORMANCE/ WARRANTY OPTIONS

Use this section to offer performance/warranty options, number these items starting with 5.1, 5.2, etc.

(Specify years, miles or hours extended term covers.)

5.1	Comprehensive 24 Month 1000 Hours	\$ 900
5.2	Comprehensive 24 Month 1500 Hours	\$ 1,096
5.3	Comprehensive 24 Month 2000 Hours	\$ 1,294
5.4	Comprehensive 24 Month 2500 Hours	\$ 1,515
5.5	Comprehensive 24 Month 3000 Hours	\$ 1,736
5.6	Comprehensive 24 Month 4000 Hours	\$ 1,914
5.7	Comprehensive 24 Month 5000 Hours	\$ 2,118
5.8	Comprehensive 24 Month 6000 Hours	\$ 4,386
5.9	Comprehensive 24 Month 7000 Hours	\$ 5,463
5.10	Comprehensive 24 Month 7500 Hours	\$ 5,743
5.11	Comprehensive 24 Month 8000 Hours	\$ 6,020
5.12	Comprehensive 24 Month 9000 Hours	\$ 7,073
5.13	Comprehensive 24 Month 10000 Hours	\$ 8,088
5.14	Comprehensive 24 Month 12000 Hours	\$ 9,246
5.15	Comprehensive 36 Month 1000 Hours	\$ 1,395
5.16	Comprehensive 36 Month 1500 Hours	\$ 1,451
5.17	Comprehensive 36 Month 2000 Hours	\$ 1,509
5.18	Comprehensive 36 Month 2500 Hours	\$ 1,819
5.19	Comprehensive 36 Month 3000 Hours	\$ 2,130
5.20	Comprehensive 36 Month 4000 Hours	\$ 2,840
5.21	Comprehensive 36 Month 5000 Hours	\$ 3,778
5.22	Comprehensive 36 Month 6000 Hours	\$ 6,711
5.23	Comprehensive 36 Month 7000 Hours	\$ 8,391
5.24	Comprehensive 36 Month 7500 Hours	\$ 8,823

(Typed Responses Required)

5.89	Power Train And Hydraulics 24 Month 12000 Hours	\$	5,836
5.90	Power Train And Hydraulics 36 Month 1000 Hours	\$	880
5.91	Power Train And Hydraulics 36 Month 1500 Hours	\$	916
5.92	Power Train And Hydraulics 36 Month 2000 Hours	\$	953
5.93	Power Train And Hydraulics 36 Month 2500 Hours	\$	1,149
5.94	Power Train And Hydraulics 36 Month 3000 Hours	\$	1,345
5.95	Power Train And Hydraulics 36 Month 4000 Hours	\$	1,793
5.96	Power Train And Hydraulics 36 Month 5000 Hours	\$	2,385
5.97	Power Train And Hydraulics 36 Month 6000 Hours	\$	4,236
5.98	Power Train And Hydraulics 36 Month 7000 Hours	\$	5,296
5.99	Power Train And Hydraulics 36 Month 7500 Hours	\$	5,569
5.100	Power Train And Hydraulics 36 Month 8000 Hours	\$	5,840
5.101	Power Train And Hydraulics 36 Month 9000 Hours	\$	6,705
5.102	Power Train And Hydraulics 36 Month 10000 Hours	\$	7,673
5.103	Power Train And Hydraulics 36 Month 12000 Hours	\$	8,780
5.104	Power Train And Hydraulics 48 Month 1000 Hours	\$	1,889
5.105	Power Train And Hydraulics 48 Month 1500 Hours	\$	2,060
5.106	Power Train And Hydraulics 48 Month 2000 Hours	\$	2,233
5.107	Power Train And Hydraulics 48 Month 2500 Hours	\$	2,376
5.108	Power Train And Hydraulics 48 Month 3000 Hours	\$	2,520
5.109	Power Train And Hydraulics 48 Month 4000 Hours	\$	3,016
5.110	Power Train And Hydraulics 48 Month 5000 Hours	\$	3,433
5.111	Power Train And Hydraulics 48 Month 6000 Hours	\$	4,849
5.112	Power Train And Hydraulics 48 Month 7000 Hours	\$	6,756
5.113	Power Train And Hydraulics 48 Month 7500 Hours	\$	7,833
5.114	Power Train And Hydraulics 48 Month 8000 Hours	\$	8,909
5.115	Power Train And Hydraulics 48 Month 9000 Hours	\$	9,736
5.116	Power Train And Hydraulics 48 Month 10000 Hours	\$	11,145
5.117	Power Train And Hydraulics 48 Month 12000 Hours	\$	12,756
5.118	Power Train And Hydraulics 60 Month 1000 Hours	\$	2,145
5.119	Power Train And Hydraulics 60 Month 1500 Hours	\$	2,429
5.120	Power Train And Hydraulics 60 Month 2000 Hours	\$	2,713
5.121	Power Train And Hydraulics 60 Month 2500 Hours	\$	3,040
5.122	Power Train And Hydraulics 60 Month 3000 Hours	\$	3,369
5.123	Power Train And Hydraulics 60 Month 4000 Hours	\$	3,688
5.124	Power Train And Hydraulics 60 Month 5000 Hours	\$	4,040
5.125	Power Train And Hydraulics 60 Month 6000 Hours	\$	6,413
5.126	Power Train And Hydraulics 60 Month 7000 Hours	\$	7,939
5.127	Power Train And Hydraulics 60 Month 7500 Hours	\$	8,766
5.128	Power Train And Hydraulics 60 Month 8000 Hours	\$	9,594
5.129	Power Train And Hydraulics 60 Month 9000 Hours	\$	10,713
5.130	Power Train And Hydraulics 60 Month 10000 Hours	\$	12,873
5.131	Power Train And Hydraulics 60 Month 12000 Hours	\$	15,468
5.132	Power Train And Hydraulics 72 Month 3000 Hours	\$	3,705
5.133	Power Train And Hydraulics 72 Month 4000 Hours	\$	4,058
5.134	Power Train And Hydraulics 72 Month 5000 Hours	\$	4,445
5.135	Power Train And Hydraulics 72 Month 6000 Hours	\$	7,054
5.136	Power Train And Hydraulics 72 Month 7000 Hours	\$	8,733
5.137	Power Train And Hydraulics 72 Month 7500 Hours	\$	9,643
5.138	Power Train And Hydraulics 72 Month 8000 Hours	\$	10,553
5.139	Power Train And Hydraulics 72 Month 9000 Hours	\$	11,784
5.140	Power Train And Hydraulics 72 Month 10000 Hours	\$	14,160
5.141	Power Train And Hydraulics 72 Month 12000 Hours	\$	17,016
5.142	Power Train And Hydraulics 84 Month 4000 Hours	\$	4,463
5.143	Power Train And Hydraulics 84 Month 5000 Hours	\$	4,890
5.144	Power Train And Hydraulics 84 Month 6000 Hours	\$	7,760
5.145	Power Train And Hydraulics 84 Month 7000 Hours	\$	9,605
5.146	Power Train And Hydraulics 84 Month 7500 Hours	\$	10,606
5.147	Power Train And Hydraulics 84 Month 8000 Hours	\$	11,608
5.148	Power Train And Hydraulics 84 Month 9000 Hours	\$	12,963
5.149	Power Train And Hydraulics 84 Month 10000 Hours	\$	15,576
5.150	Power Train And Hydraulics 84 Month 12000 Hours	\$	18,716

6.0 **NEW EQUIPMENT RENTAL PROGRAM**
If rental programs are available on the new equipment

Price quote for: **Articulating Wheel Loaders**

Vendor Name: **RDO Equipment Company / McCoy Construction & Forestry**
 Contact Person: **Jesse Miller**
 Street Address: **12500 Dupont Avenue South**
 P.O. Box:
 City, State, Zip: **Burnsville, MN 55404**
 Phone #: **612.202.6906**
 Toll Free #: **800.950.3298**
 Fax #: **952.890.7046**
 Email Address: **jmiller@rdoequipment.com**

Version of Excel used: 2016

PERCENTAGE DISCOUNT PRICING

1.0	MANUFACTURER	John Deere
1.1	Model	644K
2.0	DATE AND ID. OF PRICE LIST	Oct-18
3.0	PERCENTAGE DISCOUNT FROM PRICE LIST	
3.1	Deere Order Codes not beginning with AT	44.75%
3.2	Deere Order Codes beginning with AT (Unless otherwise noted, these items do not include freight to dealer or installation due to the vast range of costs associated with them.)	42.75%
3.3	Deere Order Codes beginning with REF (Unless otherwise noted, these items do not include freight to dealer or installation due to the vast range of costs associated with them.)	30.00%
3.4	Deere Order Codes beginning with AT - Installation freight rate per loaded mile:	\$ 6.00
3.5	Deere Order Codes beginning with AT - Installation labor rate per hour:	\$ 134.00
4.0	PRICE FOR ADDITIONAL SERVICE MANUAL	\$ 200.00
4.1	PRICE FOR ADDITIONAL PARTS MANUAL	\$ 350.00
4.2	PRICE FOR ADDITIONAL OPERATIONS MANUAL	\$ 150.00
5.0	PERFORMANCE/ WARRANTY OPTIONS	
	Use this section to offer performance/warranty options, number these items starting with 5.1, 5.2, etc.	
	(Specify years, miles or hours extended term covers.)	
5.1	Comprehensive 24 Month 1000 Hours	\$ 1,634
5.2	Comprehensive 24 Month 1500 Hours	\$ 1,998
5.3	Comprehensive 24 Month 2000 Hours	\$ 2,360
5.4	Comprehensive 24 Month 2500 Hours	\$ 2,756
5.5	Comprehensive 24 Month 3000 Hours	\$ 3,151
5.6	Comprehensive 24 Month 4000 Hours	\$ 3,489
5.7	Comprehensive 24 Month 5000 Hours	\$ 3,851
5.8	Comprehensive 24 Month 6000 Hours	\$ 5,499
5.9	Comprehensive 24 Month 7000 Hours	\$ 7,278
5.10	Comprehensive 24 Month 7500 Hours	\$ 7,710
5.11	Comprehensive 24 Month 8000 Hours	\$ 8,144
5.12	Comprehensive 24 Month 9000 Hours	\$ 9,660
5.13	Comprehensive 24 Month 10000 Hours	\$ 11,048
5.14	Comprehensive 24 Month 12000 Hours	\$ 12,634
5.15	Comprehensive 36 Month 1000 Hours	\$ 2,244
5.16	Comprehensive 36 Month 1500 Hours	\$ 2,334
5.17	Comprehensive 36 Month 2000 Hours	\$ 2,425
5.18	Comprehensive 36 Month 2500 Hours	\$ 2,919
5.19	Comprehensive 36 Month 3000 Hours	\$ 3,411
5.20	Comprehensive 36 Month 4000 Hours	\$ 4,551
5.21	Comprehensive 36 Month 5000 Hours	\$ 5,738
5.22	Comprehensive 36 Month 6000 Hours	\$ 7,746
5.23	Comprehensive 36 Month 7000 Hours	\$ 10,249
5.24	Comprehensive 36 Month 7500 Hours	\$ 11,005

#4

L-SERIES
LOADERS



JOHN DEERE

524L / 544L / 624L

VERSATILITY MEETS
CAPABILITY

ASPIRE TO GO



MORE
SPACIOUS
CAB*



EASY-TO-USE
ELECTROHYDRAULIC
CONTROLS



NEW
FRONT-END
FEATURES

*Compared to our K Series models.

THE NEW L-SERIES

HIGHER.





ELEVATE YOUR EXPECTATIONS.

Combining new front-end features that dramatically boost productivity with an all-new cab and controls, our 524L, 544L, and 624L Loaders redefine your expectations of what a utility loader can do. Enhancements over previous models include near-parallel lift, a more spacious cab, ergonomic controls, and new bucket and linkage designs. Plus a host of details that improve uptime, including reimaged electrical and hydraulic routing, for performance and reliability that can elevate your operation to a higher level.

NEW FRONT-END FEATURES AND MORE **MEET THE NEW FRONT-RUNNERS.**

L-Series Loaders lead the way with new production-boosting features up front, along with a host of other enhancements that help dramatically increase performance.

More performance up front

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

Enhanced production buckets

A wide selection of enhanced production buckets with integrated spill guards, curved side cutters, and greater rollback delivers better bucket-fill performance and material retention.

Redesigned cab

New operator station is more spacious and comfortable, and features extra legroom, an improved HVAC system, additional storage, and a more adjustable seat. Or opt for a premium cab with a larger monitor and a heated and ventilated premium seat.

New EH controls

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



8° OF PARALLELISM
VS. 21° ON K-SERIES

GO ABOVE AND BEYOND LOAD MORE.

Boasting near-parallel lift along with new High-Lift Plus and Tool Carrier configurations, these versatile loaders put more productivity within reach.

Standard Z-Bar with parallel lift

Lift path on all Z-Bar linkages has been improved to near parallel for better load-leveling capability. This boosts productivity by minimizing load rollback, reducing material spillage, and requiring fewer manual adjustments.

New Tool Carrier configuration

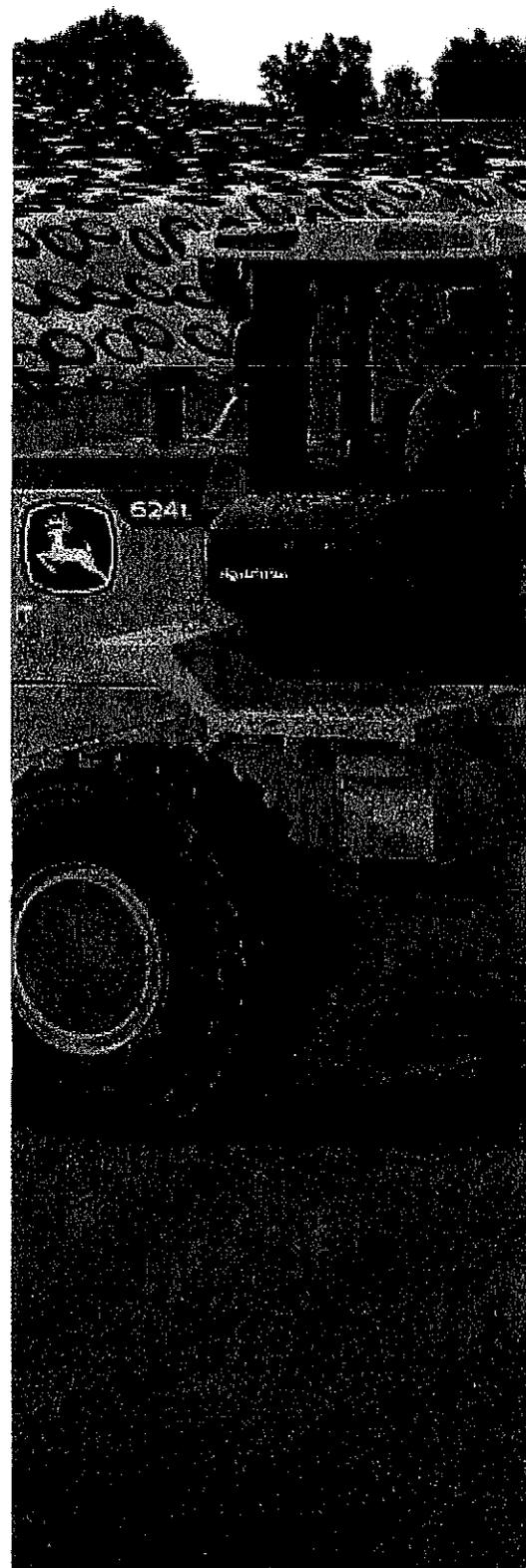
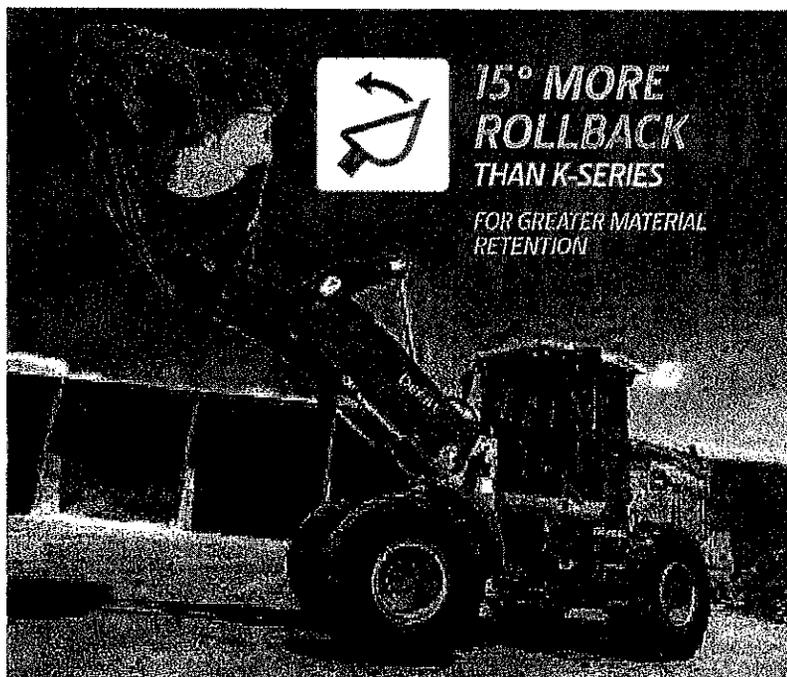
Tool Carrier configuration on the 524L and 624L enables a clear view of the coupler and forks, making it easier to quickly move pipes, logs, and pallets.

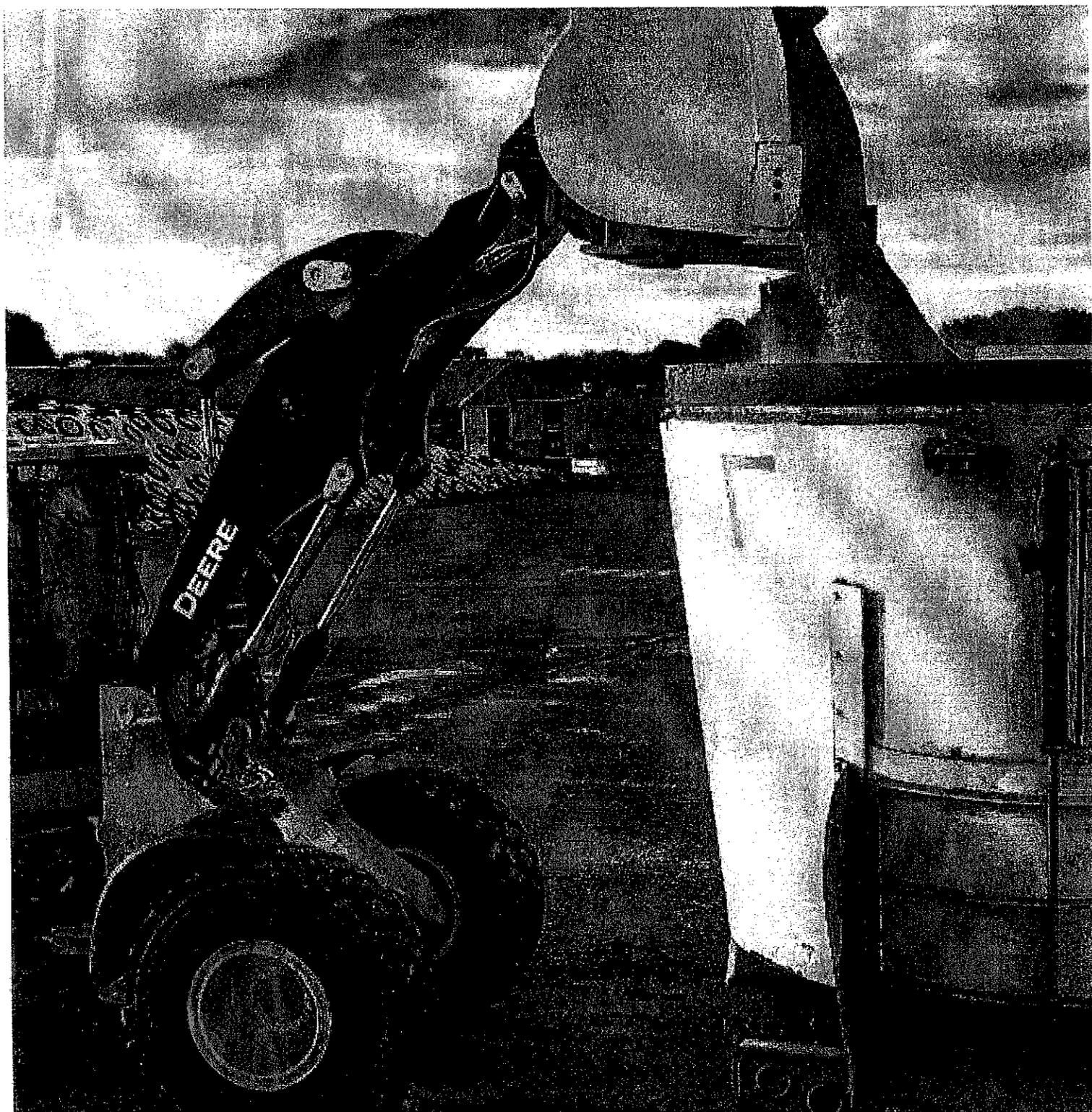
Improved visibility to front tool

Cross-tube and boom geometry of the Z-Bar linkage has been streamlined to provide a better view to the front attachment.

New High-Lift Plus configuration

Need even more reach for dumping into higher feeders, hoppers, trucks, and wagons? New High-Lift Plus configuration provides an additional 24 in. in hinge-pin height over standard lift height and 12 in. over the High-Lift model. All three lift heights feature near-parallel lift.





TAKE PRODUCTIVITY TO
NEW HEIGHTS.

TONS OF COMFORT

TAKE A LOAD OFF.

With redesigned cab and controls, more storage and power ports, and a better HVAC system, L-Series Loaders make it easy to work harder with less effort.

Get in and get comfortable

All-new cab boasts three-in. more legroom than previous models. Joystick controls, foot pedals, and sealed-switch module are all ergonomically placed for optimal comfort and convenience. Additional 12-volt and USB power ports and mounting points keep all your devices charged up and within easy reach.

Stowaway storage

HVAC system has been relocated outside the cab to provide more storage area. There's plenty of space for a powered cooler, along with a handy 12-volt outlet. There's also a Thermos® holder with a Velcro® strap, plus a conveniently placed cupholder. There are even coat hooks.

Sit back and relax

Updated in stain-resistant cloth, the standard high-back air-ride seat is even more adjustable, for daylong comfort and support. Or choose the optional heated and ventilated premium seat (standard in the premium cab) with heavy-duty air suspension and adjustable seat pan for even more comfort.

Keep things cool

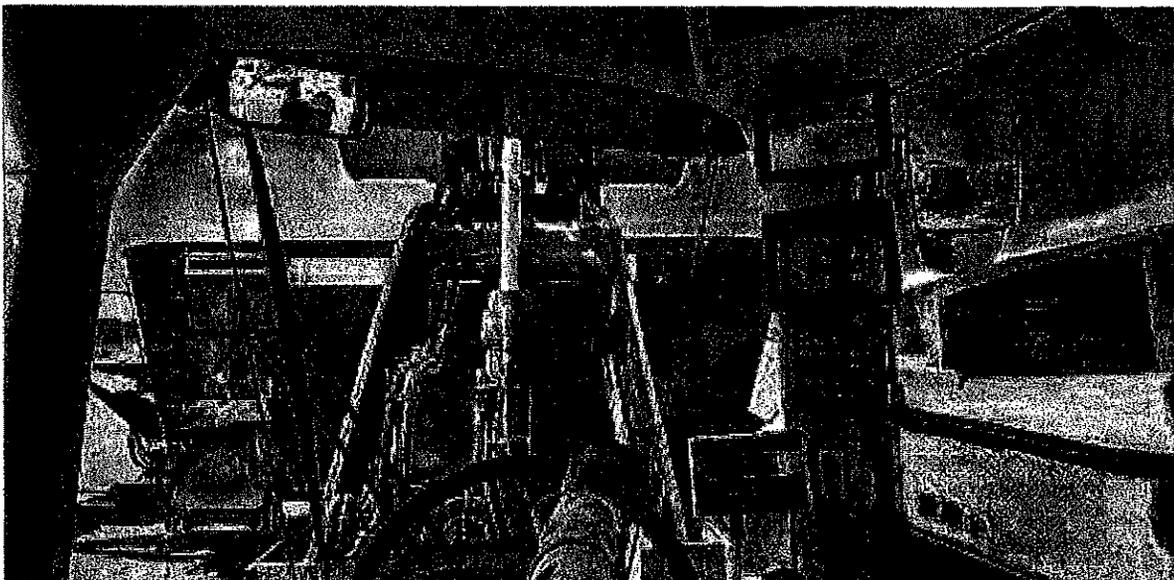
HVAC system is easier to maintain, with convenient filter and service locations. The brushless motor is more reliable and provides infinite fan speeds, quieter operation, and improved airflow. Blower vent behind the seat further improves airflow and defrosts the rear window. Premium cab features automatic temperature control (ATC).

See more, do more

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

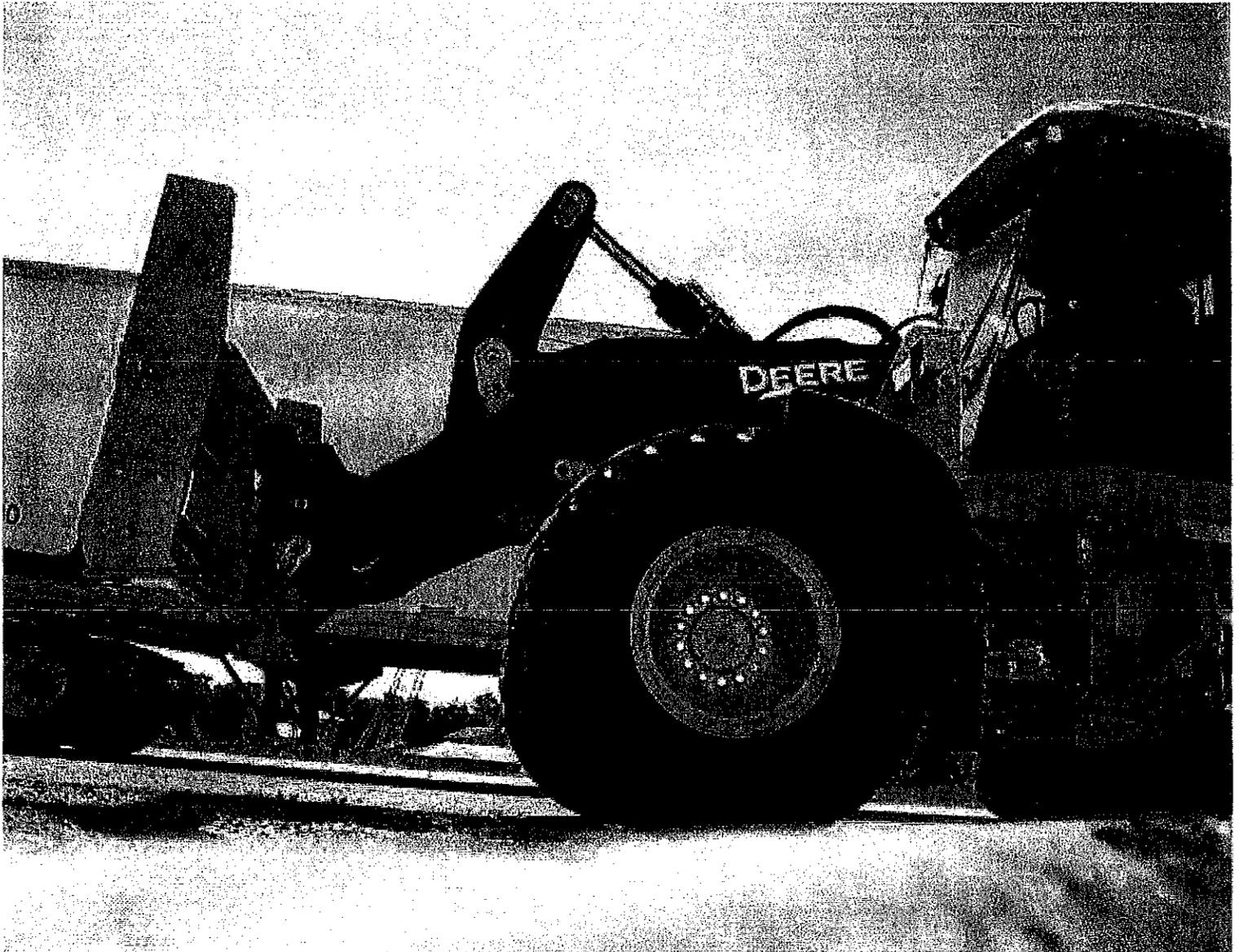
Multi-language color LCD display

A large seven-in. in-cab display with easy-on-the-eyes clarity enables intuitive push-button access to key info. Opt for a rearview camera to display the activity behind the machine on the LCD screen. Add a dedicated seven-in. rearview display to see the action behind and still have access to vital machine data at all times.





**3-IN. MORE
LEGROOM**
THAN K-SERIES CABS



MORE PRODUCTIVITY, HANDS DOWN

GET IN TOUCH WITH YOUR PRODUCTIVE SIDE.

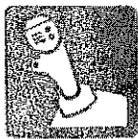
With redesigned joysticks and expanded, customizable electrohydraulic (EH) controls, maximum productivity is close at hand in an L-Series Loader.

Integrated joystick control

Operators can easily control up to six functions without removing their hand from the ergonomically designed joystick. A larger F-N-R button provides convenient direction and full-range gear changes. Two industry-exclusive multifunction buttons can each be programmed to handle any of 10 functions selected through the monitor.

Single-axis controls

New low-effort, short-throw control includes two multifunction buttons on the bucket lever that can be programmed to handle any of 10 functions.



2 INDUSTRY- EXCLUSIVE MULTIFUNCTION JOYSTICK BUTTONS

Expanded EH functionality

Operators can easily enable the following EH functions using the multifunction buttons and adjust them through the monitor:

- **Soft or hard hydraulic stops** for both the boom and bucket can be enabled to prolong machine life or temporarily disabled when the application calls for it.
- **Hydraulic-function flow** can be used to customize flow for specific attachments without needing special plumbing or valves.
- **Bucket vibrate** creates a slight vibration when dumping loose materials into hoppers or feeders, or when sprinkling rock over pipe.
- **EH Precision mode** allows fine metering of the bucket and boom when precise movement is required, for example, laying pipe, moving heavy objects such as road barriers, or placing manholes.
- **Attachment configuration** allows settings such as hydraulic flow and responsiveness for up to 10 different attachments to be conveniently stored.

New SSM functionality

Sealed-switch module (SSM) has been repositioned under the monitor so it's in the operator's line of sight. Updated or new functions include:

- **Return-to-dig** now allows leveling of the bucket from both dump and curl positions, for quick and easy leveling.
- **Constant-flow hydraulics** allow the operator to continuously run attachments without having to hold a lever or roller at full stop.
- **Throttle lock** maintains a specified rpm so the operator can warm up a machine, run a continuous-flow attachment, or road the machine without having to hold the throttle pedal down.

TIGHTFISTED

EASYGOING ABOUT EVERYTHING BUT THE BOTTOM LINE.

Reliable electrical and hydraulic systems

Routing for electrical wire harnesses and hydraulic hoses has been improved over the K-Series to reduce rubbing and eliminate leak points, boosting durability and reliability.

Same-side ground-level service

All daily service points including fuel are conveniently grouped on the left side of the machine for easy access.

Innovative Quad-Cool™ system

Quad-Cool places the radiator, air-conditioner condenser, intercooler, and hydraulic, transmission, and axle coolers (standard on the 624L, optional on the 524L and 544L) in a unique boxed configuration that's isolated from engine heat, boosting efficiency and durability.

Diagnostic messaging

Easy-to-navigate LCD monitor displays diagnostic messages if problems occur and even offers possible solutions to help get you back up and running quickly.

Efficient cooling

Hydraulically driven fan runs only as needed for better cooling and fuel efficiency. Optional programmable fan automatically reverses at predetermined intervals to eject debris from the radiator and cooler cores. Or set individual cleaning cycles through the monitor.



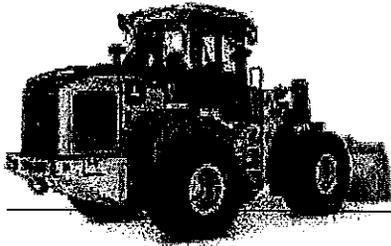
Get valuable insight with
JOHN DEERE WORKSIGHT™

John Deere WorkSight is an exclusive suite of telematics solutions that increases uptime while lowering operating costs. At its heart, JDLink™ machine monitoring provides real-time utilization data and alerts to help you maximize productivity and efficiency while minimizing downtime. Remote diagnostics enable your dealer to read codes and record performance data without a trip to the jobsite.

Keep downtime down with
JOHN DEERE ULTIMATE UPTIME

John Deere Ultimate Uptime, featuring John Deere WorkSight, is a customizable support solution available exclusively from your Deere dealer. This flexible offering maximizes equipment availability with standard John Deere WorkSight capabilities that can help prevent future downtime and speed repairs when needed. In addition to the base John Deere WorkSight features, our dealers work with you to build an uptime package that meets the specific needs of your machine, fleet, project, and business, including customized maintenance and repair agreements, onsite parts availability, extended warranties, fluid sampling, response-time guarantees, and more.

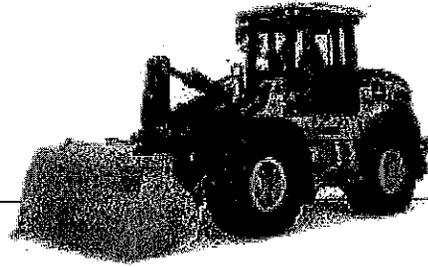




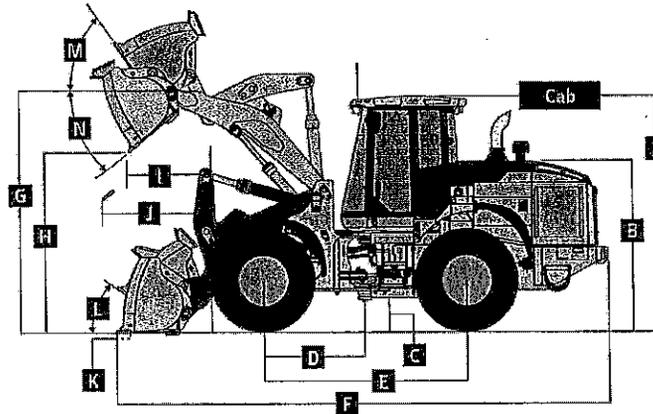
524L SPECIFICATIONS

Engine				
Manufacturer and Model	John Deere PowerTech™ PVS 6068		Gross Peak Torque (ISO 9249)	713 Nm (526 ft.-lb.) at 1,400 rpm
Non-Road Emission Standard	EPA Final Tier 4/EU Stage V		Net Torque Rise	60%
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)	113 kW (152 hp) at 1,800 rpm		Air Cleaner	Under-hood, dual-element dry type, restriction indicator in cab monitor for service
Gross Peak Power (ISO 9249)	120 kW (161 hp) at 1,800 rpm			
Net Peak Torque (ISO 9249)	683 Nm (504 lb.-ft.) at 1,100 rpm			
Cooling				
Fan Drive	Hydraulically driven, proportionally controlled, fan aft of coolers			
Electrical				
Electrical System	24 volt with 100-amp alternator (optional 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; Quick-Shift 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			
	<i>Standard 5-Speed</i>			
Maximum Travel Speeds (with 20.5 R 25 tires)				
	<i>Forward</i>		<i>Reverse</i>	
Range 1	5.6 km/h (3.5 mph)		5.9 km/h (3.6 mph)	
Range 2	11.0 km/h (6.8 mph)		11.6 km/h (7.2 mph)	
Range 3	17.0 km/h (10.6 mph)		27.0 km/h (16.8 mph)	
Range 4	25.6 km/h (15.9 mph)		N/A	
Range 5	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, sealed wet multi disc			
Tires/Wheels (see page 10 for complete tire adjustments)				
	<i>Tread Width</i>		<i>Width Over Tires</i>	
Michelin 20.5 R 25, 1 Star L-3 XHA2	1952 mm (76.8 in.)		2546 mm (100.2 in.)	
Serviceability				
Refill Capacities				
Fuel Tank (with lockable cap)	220 L (58 gal.)	Axle Oil (each)		
Cooling System	29.9 L (31.6 qt.)	Front	16.6 L (17.5 qt.)	
Diesel Exhaust Fluid (DEF)	15.6 L (16.5 qt.)	Rear	18 L (19 qt.)	
Engine Oil with Vertical Spin-On Filter	19.5 L (20.6 qt.)	Hydraulic Reservoir and Filter	82.1 L (21.7 gal.)	
Transmission Reservoir with Vertical Filter	21 L (22.2 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	178 L/m (47 gpm)			
System Relief Pressure (loader and steering)	24 994 kPa (3,625 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)	5.0 m (16 ft. 5 in.)			
Hydraulic Cycle Times				
	<i>Z-Bar / High-Lift / High-Lift Plus</i>		<i>Tool Carrier</i>	
Raise	6.1 sec.		5.8 sec.	
Dump	2.0 sec.		2.2 sec.	
Lower (power down)	4.0 sec.		3.5 sec.	
Total	12.1 sec.		11.5 sec.	

524L SPECIFICATIONS



Dimensions and Specifications with Pin-On Bucket 524L Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS / TOOL CARRIER



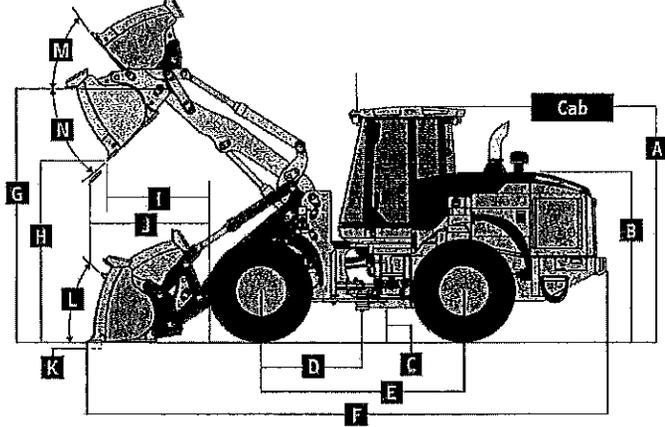
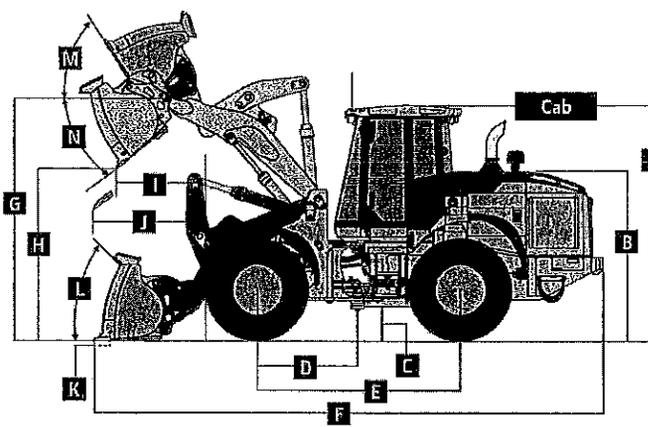
524L Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS LOADERS WITH PIN-ON BUCKET WITH BOLT-ON EDGE

	Z-Bar 2.1-m ³ (2.75 cu. yd.) general purpose	Z-Bar 2.3-m ³ (3.0 cu. yd.) general purpose	High-Lift 2.1-m ³ (2.75 cu. yd.) general purpose	High-Lift Plus 2.1-m ³ (2.75 cu. yd.) general purpose
Dimensions with Bucket with Bolt-On Edge				
A Height to Top of Cab	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)
B Hood Height	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)
C Ground Clearance	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)
D Length from Centerline to Front Axle	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)
E Wheelbase	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)
F Overall Length, Bucket on Ground	7.37 m (24 ft. 2 in.)	7.45 m (24 ft. 5 in.)	7.80 m (25 ft. 7 in.)	8.10 m (26 ft. 7 in.)
G Height to Hinge Pin, Fully Raised	3.81 m (12 ft. 6 in.)	3.81 m (12 ft. 6 in.)	4.17 m (13 ft. 8 in.)	4.42 m (14 ft. 6 in.)
H Dump Clearance, 45 deg., Full Height	2.78 m (9 ft. 1 in.)	2.72 m (8 ft. 11 in.)	3.14 m (10 ft. 4 in.)	3.39 m (11 ft. 1 in.)
I Reach, 45-deg. Dump, Full Height	0.99 m (3 ft. 3 in.)	1.04 m (3 ft. 5 in.)	1.09 m (3 ft. 7 in.)	1.12 m (3 ft. 8 in.)
J Reach, 45-deg. Dump, 213-mm (7 ft. 0 in.) Clearance	1.44 m (4 ft. 9 in.)	1.47 m (4 ft. 10 in.)	1.81 m (5 ft. 11 in.)	2.03 m (6 ft. 8 in.)
K Maximum Digging Depth	102 mm (4.0 in.)	108 mm (4.3 in.)	193 mm (7.6 in.)	198 mm (7.8 in.)
L Maximum Rollback at Ground Level	44 deg.	44 deg.	48 deg.	49 deg.
M Maximum Rollback, Boom Fully Raised	60 deg.	60 deg.	60 deg.	61 deg.
N Maximum Bucket Dump Angle, Fully Raised	50 deg.	50 deg.	46 deg.	45 deg.
Loader Clearance Circle, Bucket Carry Position	11.40 m (37 ft. 5 in.)	11.42 m (37 ft. 6 in.)	11.68 m (38 ft. 4 in.)	12.08 m (39 ft. 7 in.)
Specifications with Bucket with Bolt-On Edge				
Capacity, Heaped	2.1 m ³ (2.75 cu. yd.)	2.3 m ³ (3.0 cu. yd.)	2.1 m ³ (2.75 cu. yd.)	2.1 m ³ (2.75 cu. yd.)
Capacity, Struck	1.7 m ³ (2.26 cu. yd.)	1.9 m ³ (2.53 cu. yd.)	1.7 m ³ (2.26 cu. yd.)	1.7 m ³ (2.26 cu. yd.)
Bucket Weight with Bolt-On Cutting Edge	1056 kg (2,327 lb.)	1095 kg (2,415 lb.)	1056 kg (2,327 lb.)	1056 kg (2,327 lb.)
Bucket Width	2.55 m (8 ft. 4 in.)	2.55 m (8 ft. 4 in.)	2.55 m (8 ft. 4 in.)	2.55 m (8 ft. 4 in.)
Breakout Force	11,070 kg (24,406 lb.)	10,285 kg (22,674 lb.)	10,952 kg (24,145 lb.)	11,059 kg (24,381 lb.)
Tipping Load, Straight, No Tire Deflection	10,297 kg (22,702 lb.)	10,172 kg (22,426 lb.)	8667 kg (19,107 lb.)	7967 kg (17,564 lb.)
Tipping Load, Straight, with Tire Deflection	9753 kg (21,502 lb.)	9630 kg (21,230 lb.)	8253 kg (18,195 lb.)	7614 kg (16,786 lb.)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	8955 kg (19,742 lb.)	8840 kg (19,489 lb.)	7496 kg (16,526 lb.)	6860 kg (15,123 lb.)
Tipping Load, 40-deg. Full Turn, with Tire Deflection	8259 kg (18,208 lb.)	8145 kg (17,957 lb.)	6963 kg (15,351 lb.)	6390 kg (14,088 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, No Tire Deflection (conforms to ISO 14397-1)*	4477 kg (9,871 lb.)	4420 kg (9,745 lb.)	3748 kg (8,263 lb.)	3430 kg (7,562 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, with Tire Deflection (conforms to ISO 14397-1)*	4130 kg (9,104 lb.)	4073 kg (8,978 lb.)	3482 kg (7,675 lb.)	3195 kg (7,044 lb.)
Operating Weight	13,123 kg (28,931 lb.)	13,163 kg (29,018 lb.)	13,341 kg (29,412 lb.)	13,457 kg (29,667 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.

*Rated operating capacity based on Deere attachments only.

Dimensions and Specifications with HI-Vis Coupler and Hook-On Bucket
 524L Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS / TOOL CARRIER



524L Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS LOADERS WITH HI-VIS COUPLER AND HOOK-ON BUCKET WITH BOLT-ON EDGE

524L TOOL-CARRIER LOADER WITH HI-VIS COUPLER AND HOOK-ON BUCKET WITH BOLT-ON EDGE

	Z-Bar 2.1-m ³ (2.75 cu. yd.) general purpose	Z-Bar 3.1-m ³ (4.0 cu. yd.) light material	High-Lift 2.1-m ³ (2.75 cu. yd.) general purpose	High-Lift 3.1-m ³ (4.0 cu. yd.) light material	High-Lift Plus 1.9-m ³ (2.5 cu. yd.) general purpose	High-Lift Plus 3.1-m ³ (4.0 cu. yd.) light material	Tool Carrier 1.9-m ³ (2.75 cu. yd.) general purpose	Tool Carrier 3.1-m ³ (4.0 cu. yd.) light material
Dimensions with Bucket with Bolt-On Edge								
A Height to Top of Cab	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)
B Hood Height	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)
C Ground Clearance	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)
D Length from Centerline to Front Axle	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)
E Wheelbase	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)
F Overall Length, Bucket on Ground	7.52 m (24 ft. 8 in.)	7.65 m (25 ft. 1 in.)	7.95 m (26 ft. 1 in.)	8.08 m (26 ft. 6 in.)	8.15 m (26 ft. 9 in.)	8.37 m (27 ft. 6 in.)	7.77 m (25 ft. 6 in.)	7.80 m (25 ft. 7 in.)
G Height to Hinge Pin, Fully Raised	3.81 m (12 ft. 6 in.)	3.81 m (12 ft. 6 in.)	4.17 m (13 ft. 8 in.)	4.17 m (13 ft. 8 in.)	4.42 m (14 ft. 6 in.)	4.42 m (14 ft. 6 in.)	3.89 m (12 ft. 9 in.)	3.89 m (12 ft. 9 in.)
H Dump Clearance, 45 deg., Full Height	2.68 m (8 ft. 10 in.)	2.60 m (8 ft. 6 in.)	3.04 m (10 ft. 0 in.)	3.04 m (9 ft. 9 in.)	2.96 m (9 ft. 9 in.)	3.21 m (10 ft. 6 in.)	2.79 m (9 ft. 2 in.)	2.70 m (8 ft. 10 in.)
I Reach, 45-deg. Dump, Full Height	1.09 m (3 ft. 7 in.)	1.19 m (3 ft. 11 in.)	1.19 m (3 ft. 11 in.)	1.29 m (4 ft. 3 in.)	1.17 m (3 ft. 10 in.)	1.33 m (4 ft. 4 in.)	1.34 m (4 ft. 5 in.)	1.44 m (4 ft. 9 in.)
J Reach, 45-deg. Dump, 213-m (7 ft. 0 in.) Clearance	1.50 m (4 ft. 11 in.)	1.55 m (5 ft. 1 in.)	1.87 m (6 ft. 2 in.)	1.92 m (6 ft. 4 in.)	2.06 m (6 ft. 9 in.)	2.16 m (7 ft. 1 in.)	1.81 m (5 ft. 11 in.)	1.86 m (6 ft. 1 in.)
K Maximum Digging Depth	108 mm (4.2 in.)	111 mm (4.4 in.)	199 mm (7.8 in.)	202 mm (7.9 in.)	196 mm (7.7 in.)	207 mm (8.1 in.)	100 mm (3.9 in.)	102 mm (4.0 in.)
L Maximum Rollback at Ground Level	44 deg.	44 deg.	48 deg.	48 deg.	49 deg.	49 deg.	50 deg.	50 deg.
M Maximum Rollback, Boom Fully Raised	60 deg.	60 deg.	60 deg.	60 deg.	61 deg.	61 deg.	55 deg.	55 deg.
N Maximum Bucket Dump Angle, Fully Raised	50 deg.	50 deg.	46 deg.	46 deg.	45 deg.	45 deg.	46 deg.	46 deg.
Loader Clearance Circle, Bucket Carry Position	11.44 m (37 ft. 7 in.)	11.80 m (38 ft. 9 in.)	11.78 m (38 ft. 8 in.)	12.22 m (40 ft. 1 in.)	12.02 m (39 ft. 6 in.)	12.54 m (41 ft. 2 in.)	11.24 m (36 ft. 11 in.)	12.04 m (39 ft. 6 in.)
Specifications with Bucket with Bolt-On Edge								
Capacity, Heaped	2.1 m ³ (2.75 cu. yd.)	3.1 m ³ (4.0 cu. yd.)	2.1 m ³ (2.75 cu. yd.)	3.1 m ³ (4.0 cu. yd.)	1.9 m ³ (2.5 cu. yd.)	3.1 m ³ (4.0 cu. yd.)	2.1 m ³ (2.75 cu. yd.)	3.1 m ³ (4.0 cu. yd.)
Capacity, Struck	1.7 m ³ (2.26 cu. yd.)	2.6 m ³ (3.4 cu. yd.)	1.7 m ³ (2.26 cu. yd.)	2.6 m ³ (3.4 cu. yd.)	1.5 m ³ (1.96 cu. yd.)	2.6 m ³ (3.4 cu. yd.)	1.7 m ³ (2.26 cu. yd.)	2.6 m ³ (3.4 cu. yd.)
Bucket Weight with Bolt-On Cutting Edge	1454 kg (3,205 lb.)	1693 kg (3,711 lb.)	1454 kg (3,205 lb.)	1683 kg (3,711 lb.)	1385 kg (3,052 lb.)	1683 kg (3,711 lb.)	1437 kg (3,167 lb.)	1656 kg (3,651 lb.)
Bucket Width	2.55 m (8 ft. 4 in.)	2.89 m (9 ft. 6 in.)	2.55 m (8 ft. 4 in.)	2.89 m (9 ft. 6 in.)	2.55 m (8 ft. 4 in.)	2.89 m (9 ft. 6 in.)	2.55 m (8 ft. 4 in.)	2.89 m (9 ft. 6 in.)
Breakout Force	9604 kg (21,173 lb.)	8569 kg (18,891 lb.)	9500 kg (20,945 lb.)	8475 kg (18,684 lb.)	10,383 kg (22,891 lb.)	8559 kg (18,870 lb.)	10,660 kg (23,501 lb.)	9109 kg (20,081 lb.)
Tipping Load, Straight, No Tire Deflection	9483 kg (20,906 lb.)	9168 kg (20,212 lb.)	7969 kg (17,568 lb.)	7672 kg (16,913 lb.)	7436 kg (16,394 lb.)	7032 kg (15,504 lb.)	8691 kg (19,160 lb.)	8385 kg (18,486 lb.)
Tipping Load, Straight, with Tire Deflection	8967 kg (19,769 lb.)	8637 kg (19,041 lb.)	7575 kg (16,700 lb.)	7260 kg (16,006 lb.)	7092 kg (15,635 lb.)	6672 kg (14,709 lb.)	8259 kg (18,208 lb.)	7938 kg (17,500 lb.)

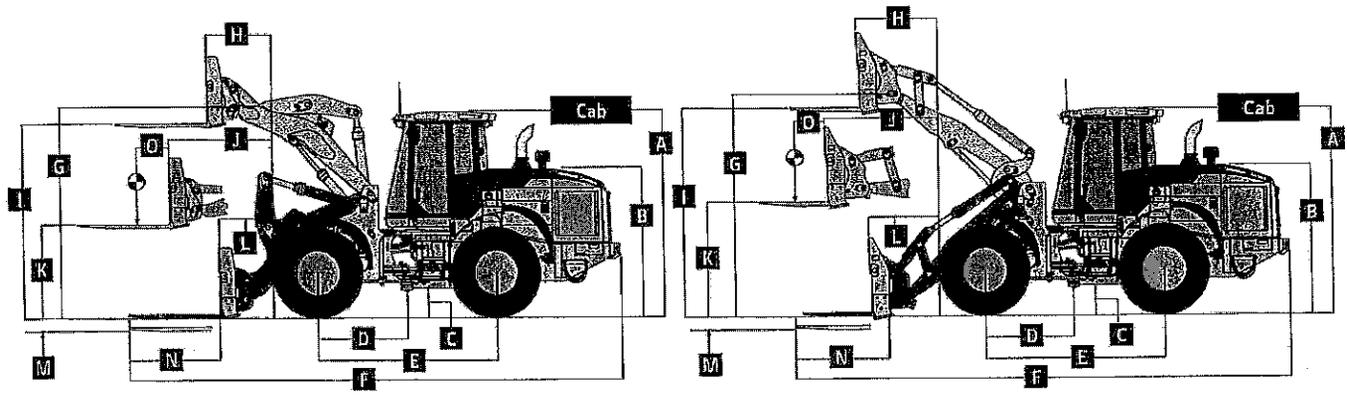
Dimensions and Specifications with HI-VIS Coupler and Hook-On Bucket (continued)

	524L Z-BAR/HIGH-LIFT/HIGH-LIFT PLUS/TOOL CARRIER							
	Z-Bar	Z-Bar	High-Lift	High-Lift	High-Lift Plus	High-Lift Plus	Tool Carrier	Tool Carrier
	2.1-m ³ (2.75 cu. yd.)	3.1-m ³ (4.0 cu. yd.)	2.1-m ³ (2.75 cu. yd.)	3.1-m ³ (4.0 cu. yd.)	1.9-m ³ (2.5 cu. yd.)	3.1-m ³ (4.0 cu. yd.)	2.1-m ³ (2.75 cu. yd.)	3.1-m ³ (4.0 cu. yd.)
Specifications with Bucket with Bolt-On Edge (continued)	general purpose	light material	general purpose	light material	general purpose	light material	general purpose	light material
Tipping Load, 40-deg. Full Turn, No Tire Deflection	8199 kg (18,075 lb.)	7888 kg (17,391 lb.)	6841 kg (15,082 lb.)	6548 kg (14,436 lb.)	6360 kg (14,021 lb.)	5965 kg (13,150 lb.)	7503 kg (16,541 lb.)	7203 kg (15,880 lb.)
Tipping Load, 40-deg. Full Turn, with Tire Deflection	7539 kg (16,621 lb.)	7206 kg (15,886 lb.)	6327 kg (13,949 lb.)	6033 kg (13,300 lb.)	5919 kg (13,049 lb.)	5493 kg (12,110 lb.)	6936 kg (15,291 lb.)	6633 kg (14,623 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, No Tire Deflection (conforms to ISO 14397-1)*	4099 kg (9,037 lb.)	3944 kg (8,695 lb.)	3421 kg (7,541 lb.)	3274 kg (7,218 lb.)	3180 kg (7,011 lb.)	2982 kg (6,575 lb.)	3752 kg (8,271 lb.)	3602 kg (7,940 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, with Tire Deflection (conforms to ISO 14397-1)*	3770 kg (8,310 lb.)	3603 kg (7,943 lb.)	3164 kg (6,974 lb.)	3017 kg (6,650 lb.)	2960 kg (6,525 lb.)	2747 kg (6,055 lb.)	3468 kg (7,646 lb.)	3317 kg (7,312 lb.)
Operating Weight	13 541 kg (29,853 lb.)	13 770 kg (30,359 lb.)	13 760 kg (30,335 lb.)	13 989 kg (30,841 lb.)	13 806 kg (30,438 lb.)	14 105 kg (31,097 lb.)	13 390 kg (29,520 lb.)	13 610 kg (30,004 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.

*Rated operating capacity based on Deere attachments only.

Dimensions and Specifications with HI-VIS Coupler and Hook-On Construction Forks



524L Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS LOADERS WITH HI-VIS COUPLER AND HOOK-ON CONSTRUCTION FORKS

524L 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
	1.22-m (48 in.)	1.52-m (60 in.)						
Dimensions with Forks	tine length							
A Height to Top of Cab	3.33 m (10 ft. 11 in.)							
B Hood Height	2.375 m (7 ft. 9 in.)							
C Ground Clearance	0.40 m (15.7 in.)							
D Length from Centerline to Front Axle	1.45 m (4 ft. 9 in.)							
E Wheelbase	2.93 m (9 ft. 7 in.)							
F Overall Length, Forks on Ground	7.94 m (26 ft. 1 in.)	8.24 m (27 ft. 1 in.)	8.37 m (27 ft. 5 in.)	8.68 m (28 ft. 6 in.)	8.68 m (28 ft. 5 in.)	8.97 m (29 ft. 5 in.)	8.13 m (26 ft. 8 in.)	8.44 m (27 ft. 8 in.)
G Height to Pinge Pin, Fully Raised	3.81 m (12 ft. 6 in.)	3.81 m (12 ft. 6 in.)	4.17 m (13 ft. 8 in.)	4.37 m (14 ft. 8 in.)	4.42 m (14 ft. 6 in.)	4.42 m (14 ft. 6 in.)	3.89 m (12 ft. 9 in.)	3.89 m (12 ft. 9 in.)
H Reach, Fully Raised	0.82 m (32 in.)	0.82 m (32 in.)	0.92 m (3 ft. 0 in.)	0.92 m (3 ft. 0 in.)	0.96 m (3 ft. 2 in.)	0.96 m (3 ft. 2 in.)	1.08 m (3 ft. 7 in.)	1.08 m (3 ft. 7 in.)
I Fork Height, Fully Raised	2.72 m (8 ft. 11 in.)	2.72 m (8 ft. 11 in.)	3.08 m (10 ft. 1 in.)	3.08 m (10 ft. 1 in.)	3.08 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.66 m (12 ft. 0 in.)	3.66 m (12 ft. 0 in.)
J Maximum Reach, Fork Level	1.54 m (5 ft. 1 in.)	1.54 m (5 ft. 1 in.)	1.87 m (6 ft. 2 in.)	1.87 m (6 ft. 2 in.)	2.08 m (6 ft. 10 in.)	2.08 m (6 ft. 10 in.)	1.81 m (5 ft. 11 in.)	1.81 m (5 ft. 11 in.)
K Fork Height, Maximum Reach	1.24 m (4 ft. 1 in.)	1.83 m (6 ft. 0 in.)	1.83 m (6 ft. 0 in.)					
L Reach, Ground Level	1.01 m (3 ft. 4 in.)	1.01 m (3 ft. 4 in.)	1.41 m (4 ft. 8 in.)	1.41 m (4 ft. 8 in.)	1.66 m (5 ft. 5 in.)	1.66 m (5 ft. 5 in.)	1.17 m (3 ft. 10 in.)	1.17 m (3 ft. 10 in.)
M Depth Below Ground	119 mm (4.5 in.)	119 mm (4.5 in.)	209 mm (8 in.)	209 mm (8 in.)	214 mm (8 in.)	214 mm (8 in.)	154 mm (6 in.)	154 mm (6 in.)
N Tine Length	1.22 m (48 in.)	1.52 m (60 in.)	1.22 m (48 in.)	1.52 m (60 in.)	1.22 m (48 in.)	1.52 m (60 in.)	1.22 m (48 in.)	1.52 m (60 in.)
O Load Position, 50% Tine Length	0.61 m (24 in.)	0.76 m (30 in.)	0.61 m (24 in.)	0.76 m (30 in.)	0.61 m (24 in.)	0.76 m (30 in.)	0.61 m (24 in.)	0.76 m (30 in.)

Dimensions and Specifications								
With Hi-Vi [®] Coupler and Hook-On								
Construction Forks (continued)								
	524L Z-BAR		HIGH-LIFT		HIGH-LIFT PLUS		TOOL CARRIER	
	Z-Bar	Z-Bar	High-Lift	High-Lift	High-Lift Plus	High-Lift Plus	Tool Carrier	Tool Carrier
	1.22-m (48 in.)	1.52-m (60 in.)						
Specifications with Forks	tine length							
Tipping Load, Straight, No Tire Deflection	6990 kg (15,411 lb.)	6574 kg (14,494 lb.)	6101 kg (13,451 lb.)	5760 kg (12,698 lb.)	5701 kg (12,569 lb.)	5393 kg (11,889 lb.)	6504 kg (14,339 lb.)	6135 kg (13,525 lb.)
Tipping Load, Straight, with Tire Deflection	6801 kg (14,994 lb.)	6393 kg (14,094 lb.)	5943 kg (13,102 lb.)	5616 kg (12,381 lb.)	5538 kg (12,209 lb.)	5250 kg (11,574 lb.)	6333 kg (13,962 lb.)	5976 kg (13,175 lb.)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	6050 kg (13,338 lb.)	5681 kg (12,524 lb.)	5246 kg (11,566 lb.)	4943 kg (10,898 lb.)	4877 kg (10,752 lb.)	4604 kg (10,149 lb.)	5619 kg (12,388 lb.)	5289 kg (11,660 lb.)
Tipping Load, 40-deg. Full Turn, with Tire Deflection	5796 kg (12,778 lb.)	5442 kg (11,998 lb.)	5013 kg (11,052 lb.)	4728 kg (10,423 lb.)	4674 kg (10,304 lb.)	4401 kg (9,703 lb.)	5385 kg (11,872 lb.)	5085 kg (11,210 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, with Tire Deflection (conforms to ISO 14397-1 and SAE J1197)*	2898 kg (6,389 lb.)	2721 kg (5,999 lb.)	2507 kg (5,526 lb.)	2364 kg (5,212 lb.)	2337 kg (5,152 lb.)	2201 kg (4,851 lb.)	2693 kg (5,936 lb.)	2543 kg (5,605 lb.)
Rated Operating Load, Rough Terrain, 50% Full-Turn Tipping Load, with Tire Deflection (conforms to EN474-3) [†]	3478 kg (7,667 lb.)	3265 kg (7,199 lb.)	3008 kg (6,631 lb.)	2837 kg (6,254 lb.)	2804 kg (6,183 lb.)	2641 kg (5,822 lb.)	3231 kg (7,123 lb.)	3051 kg (6,726 lb.)
Rated Operating Load, Firm and Level Ground, 80% Full-Turn Tipping Load, with Tire Deflection (conforms to EN474-3) [†]	4637 kg (10,222 lb.)	4354 kg (9,598 lb.)	4010 kg (8,841 lb.)	3782 kg (8,339 lb.)	3739 kg (8,244 lb.)	3521 kg (7,762 lb.)	4308 kg (9,498 lb.)	4068 kg (8,968 lb.)
Operating Weight	13 366 kg (29,468 lb.)	13 427 kg (29,601 lb.)	13 585 kg (29,950 lb.)	13 646 kg (30,084 lb.)	13 701 kg (30,206 lb.)	13 762 kg (30,339 lb.)	13 206 kg (29,114 lb.)	13 266 kg (29,246 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.

Adjustments to Operating Weights and Tipping Loads with Buckets

Adjustments to operating weights, tipping loads, and tires are based on Z-Bar machine with pin-on 2.1-m³ (2.75 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*
Add (+) or deduct (-) kg (lb.) as indicated

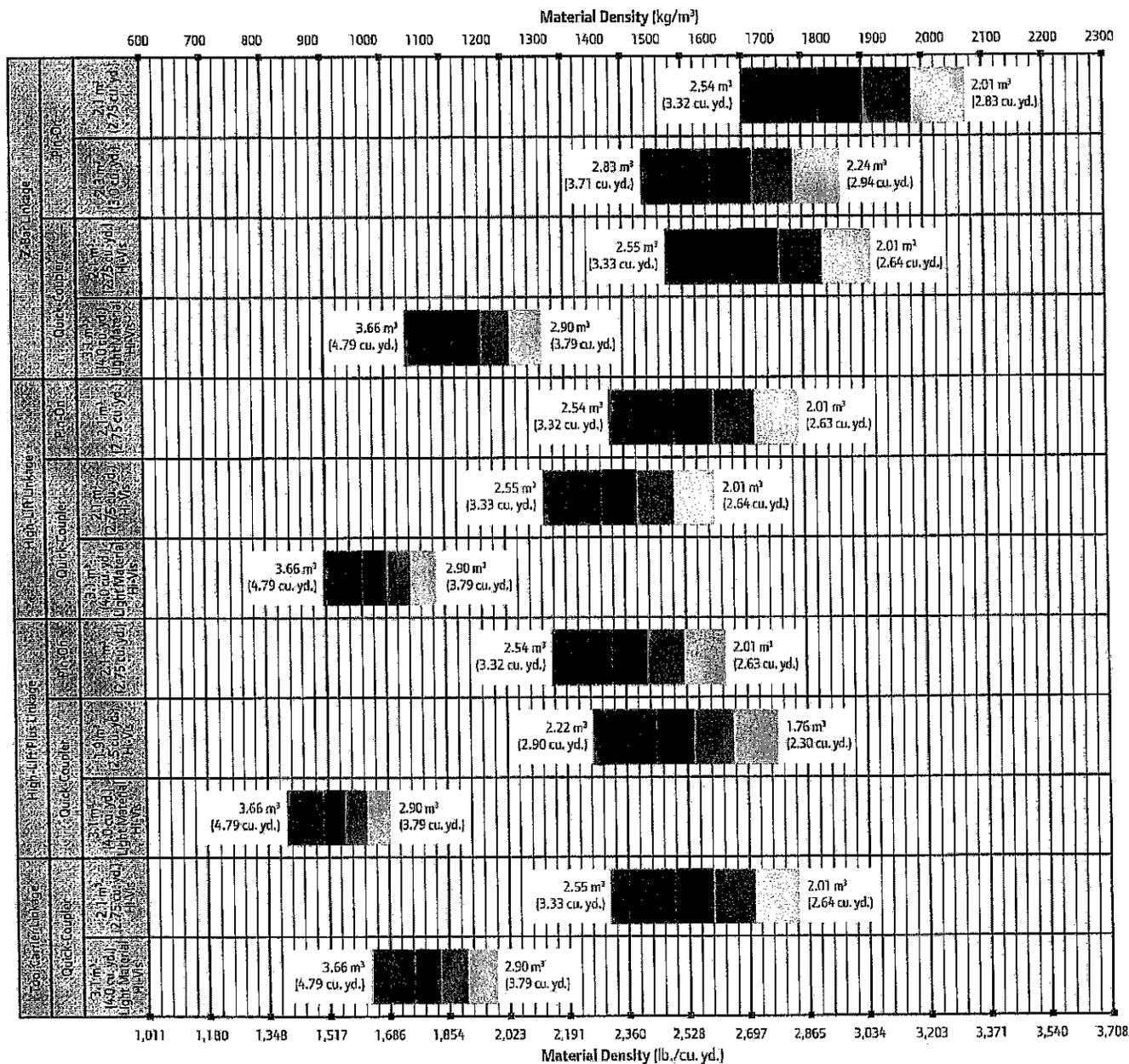
for loaders with 3-piece rims	Operating Weight	Tipping Load,		Tread Width	Width Over Tires	Vertical Height
		Straight	40-deg. Full Turn			
Michelin 20.5 R 25, 1 Star L-3 XHA2	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	0 mm (0 in.)	0 mm (0 in.)	0 mm (0 in.)
Bridgestone 20.5 R 25, 1 Star L-3 VJ1	+4 kg (+9 lb.)	+3 kg (+6 lb.)	+3 kg (+6 lb.)	0 mm (0 in.)	+2 mm (+0.1 in.)	-41 mm (-1.6 in.)
Titan 20.5 R 25, 1 Star L-3 STL3	+11 kg (+23 lb.)	+8 kg (+17 lb.)	+7 kg (+15 lb.)	0 mm (0 in.)	-7 mm (-0.3 in.)	-5 mm (-0.2 in.)
Michelin 20.5 R 25, 1 Star L-2 XTLA	-152 kg (-335 lb.)	-109 kg (-241 lb.)	-96 kg (-212 lb.)	0 mm (0 in.)	+4 mm (+0.2 in.)	-11 mm (-0.4 in.)
Bridgestone 20.5 R 25, 1 Star L-2 VJ1	-65 kg (-144 lb.)	-47 kg (-104 lb.)	-41 kg (-91 lb.)	0 mm (0 in.)	+3 mm (+0.1 in.)	-10 mm (-0.4 in.)
Titan 20.5 R 25, 1 Star L-2 TGD2	-85 kg (-188 lb.)	-61 kg (-135 lb.)	-54 kg (-119 lb.)	0 mm (0 in.)	-7 mm (-0.3 in.)	-10 mm (-0.4 in.)
Titan 20.5-25, 16 PR L-2	-245 kg (-541 lb.)	-176 kg (-389 lb.)	-155 kg (-343 lb.)	0 mm (0 in.)	+8 mm (+0.3 in.)	-2 mm (-0.1 in.)
Firestone 20.5-25, 16 PR L-2 SGG LD	-280 kg (-617 lb.)	-201 kg (-443 lb.)	-177 kg (-391 lb.)	0 mm (0 in.)	+5 mm (+0.2 in.)	-1 mm (0 in.)
Titan 20.5-25, 12 PR L-2	-266 kg (-587 lb.)	-191 kg (-422 lb.)	-169 kg (-372 lb.)	0 mm (0 in.)	+8 mm (+0.3 in.)	-2 mm (-0.1 in.)
Firestone 20.5-25, 16 PR L-3 SRG LD	-276 kg (-608 lb.)	-198 kg (-437 lb.)	-175 kg (-385 lb.)	0 mm (0 in.)	+8 mm (+0.3 in.)	+3 mm (+0.1 in.)
Michelin 20.5 R 25, 1 Star L2 SNO-PLUS	-96 kg (-212 lb.)	-69 kg (-152 lb.)	-61 kg (-134 lb.)	0 mm (0 in.)	+6 mm (+0.2 in.)	-16 mm (-0.6 in.)
Michelin 620/75R26 MegaXbib [‡]	-189 kg (-417 lb.)	-136 kg (-300 lb.)	-120 kg (-264 lb.)	+187 mm (+7.4 in.)	+247 mm (+9.7 in.)	+23 mm (+0.9 in.)
CaCl ₂ in 20.5-25, L-3 Rear Tires, 75% Fill	+825 kg (+1,820 lb.)	+1185 kg (+2,613 lb.)	+1045 kg (+2,304 lb.)	N/A	N/A	N/A

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

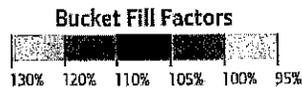
[†]Equipped with 1-piece rims.

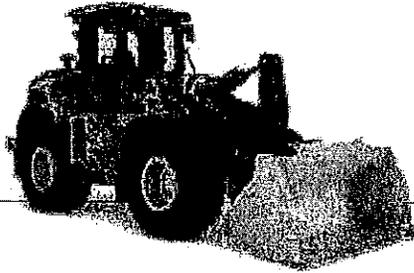
[‡]Requires 8-deg. rear axle stops.

Bucket Selection Guides 524L-Z-BAR/HIGH-LIFT/HIGH-LIFT PLUS/TOOL CARRIER



LOOSE MATERIALS	kg/m ³	lb./cu. yd.	LOOSE MATERIALS	kg/m ³	lb./cu. yd.
Chips, pulpwood	288	486	Limestone, coarse, sized	1570	2,646
Cinders (coal, ashes, clinkers)	673	1,134	Limestone, mixed sizes	1682	2,835
Clay and gravel, dry	1602	2,700	Limestone, pulverized or crushed	1362	2,295
Clay, compact, solid	1746	2,943	Sand, damp	2083	3,510
Clay, dry in lump loose	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	1314	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
Granite, broken	1538	2,592	Stone or gravel, 18.75-mm (0.75 in.) size	1602	2,700
Gypsum	2275	3,834			

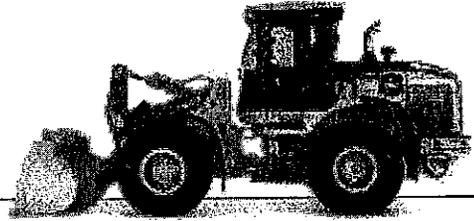




544L SPECIFICATIONS

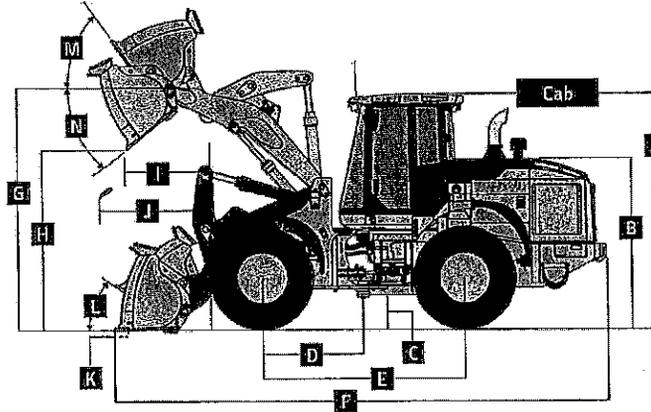
Engine				
Manufacturer and Model	John Deere PowerTech™ PVS 6068		Gross Peak Torque (ISO 9249)	770 Nm (568 ft.-lb.) at 1,600 rpm
Non-Road Emission Standard	EPA Final Tier 4/EU Stage V		Net Torque Rise	47%
Cylinders	6		Fuel System (electronically controlled)	High-pressure common rail
Valves Per Cylinder	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)	123 kW (166 hp) at 1,700 rpm		Air Cleaner	Under-hood, dual-element dry type, restriction indicator in cab monitor for service
Gross Peak Power (ISO 9249)	130 kW (174 hp) at 1,700 rpm			
Net Peak Torque (ISO 9249)	740 Nm (546 lb.-ft.) at 1,100 rpm			
Cooling				
Fan Drive	Hydraulically driven, proportionally controlled, fan aft of coolers			
Electrical				
Electrical System	24 volt with 100-amp alternator (optional 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			
	<i>Standard 5-Speed with Lockup Torque Converter</i>		<i>Optional 5-Speed without Lockup Torque Converter</i>	
Maximum Travel Speeds (with 20.5 R 25 tires)				
Range 1	Forward 6.1 km/h (3.7 mph)	Reverse 5.9 km/h (3.6 mph)	Forward 5.6 km/h (3.5 mph)	Reverse 6.0 km/h (3.7 mph)
Range 2	12.0 km/h (7.4 mph)	12.7 km/h (7.8 mph)	11.2 km/h (7.0 mph)	11.9 km/h (7.3 mph)
Range 3	18.6 km/h (11.5 mph)	29.4 km/h (18.3 mph)	17.4 km/h (10.8 mph)	27.6 km/h (17.1 mph)
Range 4	27.9 km/h (17.3 mph)	N/A	26.2 km/h (16.2 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, sealed wet multi disc			
Tires/Wheels (See page 24 for complete tire adjustment)				
	<i>Tread Width</i>	<i>Width Over Tires</i>		
Michelin 20.5 R 25, 1 Star L-3 XHA2	1950 mm (76.8 in.)	2546 mm (100.2 in.)		
Serviceability				
Refill Capacities				
Fuel Tank (with lockable cap)	298 L (79 gal.)	Axle Oil (each)		
Cooling System	29.9 L (31.6 qt.)	Front	16.6 L (17.5 qt.)	
Diesel Exhaust Fluid (DEF)	15.6 L (16.5 qt.)	Rear	18 L (19 qt.)	
Engine Oil with Vertical Spin-On Filter	19.5 L (20.6 qt.)	Hydraulic Reservoir and Filter	82.1 L (21.7 gal.)	
Transmission Reservoir with Vertical Filter	21 L (22.2 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	220 L/m (58 gpm)			
System Relief Pressure (loader and steering)	25 166 kPa (3,650 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)	5.0 m (16 ft. 5 in.)			
Hydraulic Cycle Times	<i>Z-Bar / High-Lift / High-Lift Plus</i>			
Raise	5.5 sec.			
Dump	2.2 sec.			
Lower (power down)	3.5 sec.			
Total	11.2 sec.			

544L SPECIFICATIONS



Dimension and Specifications
with Pin-On Bucket

544L Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS

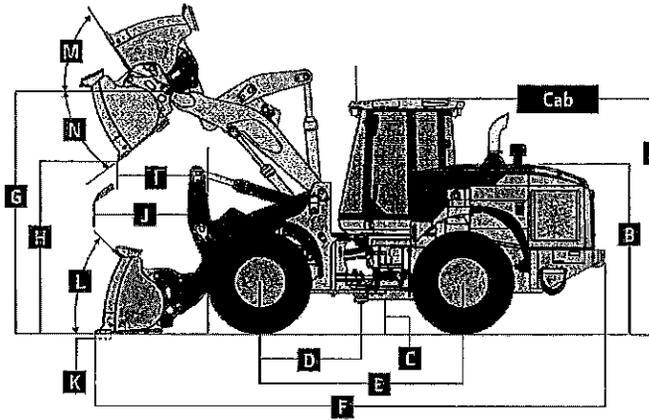


544L Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS LOADERS WITH PIN-ON BUCKET WITH BOLT-ON EDGE

	Z-Bar 2.3-m ³ (3.0 cu. yd.) general purpose	Z-Bar 2.5-m ³ (3.25 cu. yd.) general purpose	High-Lift 2.1-m ³ (2.75 cu. yd.) general purpose	High-Lift 2.3-m ³ (3.0 cu. yd.) general purpose	High-Lift Plus 2.1-m ³ (2.75 cu. yd.) general purpose	High-Lift Plus 2.3-m ³ (3.0 cu. yd.) general purpose
Dimensions with Bucket with Bolt-On Edge						
A Height to Top of Cab	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)
B Hood Height	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)
C Ground Clearance	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)
D Length from Centerline to Front Axle	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)
E Wheelbase	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)
F Overall Length, Bucket on Ground	7.49 m (24 ft. 7 in.)	7.49 m (24 ft. 7 in.)	7.80 m (25 ft. 7 in.)	7.88 m (25 ft. 10 in.)	8.17 m (26 ft. 10 in.)	8.25 m (27 ft. 1 in.)
G Height to Hinge Pin, Fully Raised	3.89 m (12 ft. 9 in.)	3.89 m (12 ft. 9 in.)	4.17 m (13 ft. 8 in.)	4.17 m (13 ft. 8 in.)	4.49 m (14 ft. 9 in.)	4.49 m (14 ft. 9 in.)
H Dump Clearance, 45 deg., Full Height	2.80 m (9 ft. 2 in.)	2.80 m (9 ft. 2 in.)	3.14 m (10 ft. 4 in.)	3.09 m (10 ft. 2 in.)	3.47 m (11 ft. 4 in.)	3.41 m (11 ft. 2 in.)
I Reach, 45-deg. Dump, Full Height	1.01 m (3 ft. 4 in.)	1.01 m (3 ft. 4 in.)	1.09 m (3 ft. 7 in.)	1.14 m (3 ft. 9 in.)	1.13 m (3 ft. 8 in.)	1.19 m (3 ft. 11 in.)
J Reach, 45-deg. Dump, 2.13 m (7 ft. 0 in.) Clearance	1.51 m (4 ft. 11 in.)	1.51 m (4 ft. 11 in.)	1.81 m (5 ft. 11 in.)	1.84 m (6 ft. 0 in.)	2.10 m (6 ft. 11 in.)	2.14 m (7 ft. 0 in.)
K Maximum Digging Depth	0.1 m (4 in.)	0.1 m (4 in.)	0.19 m (8 in.)	0.2 m (8 in.)	0.2 m (8 in.)	0.2 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.	61 deg.	61 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	11.46 m (37 ft. 7 in.)	11.58 m (38 ft. 0 in.)	11.68 m (38 ft. 4 in.)	11.7 m (38 ft. 5 in.)	12.16 m (39 ft. 11 in.)	12.20 m (40 ft. 0 in.)
Specifications with Bucket with Bolt-On Edge						
Capacity, Heaped	2.3 m ³ (3.0 cu. yd.)	2.5 m ³ (3.25 cu. yd.)	2.1 m ³ (2.75 cu. yd.)	2.3 m ³ (3.0 cu. yd.)	2.1 m ³ (2.75 cu. yd.)	2.3 m ³ (3.0 cu. yd.)
Capacity, Struck	1.9 m ³ (2.5 cu. yd.)	2.1 m ³ (2.7 cu. yd.)	1.7 m ³ (2.3 cu. yd.)	1.9 m ³ (2.5 cu. yd.)	1.7 m ³ (2.3 cu. yd.)	1.9 m ³ (2.5 cu. yd.)
Bucket Weight with Bolt-On Cutting Edge	1095 kg (2,415 lb.)	1131 kg (2,493 lb.)	1056 kg (2,327 lb.)	1095 kg (2,415 lb.)	1056 kg (2,327 lb.)	1095 kg (2,415 lb.)
Bucket Width	2.54 m (8 ft. 4 in.)	2.68 m (8 ft. 10 in.)	2.55 m (8 ft. 4 in.)	2.54 m (8 ft. 4 in.)	2.55 m (8 ft. 4 in.)	2.54 m (8 ft. 4 in.)
Breakout Force	13,166 kg (29,026 lb.)	13,145 kg (28,979 lb.)	13,983 kg (30,827 lb.)	13,005 kg (28,672 lb.)	14,198 kg (31,168 lb.)	13,149 kg (28,988 lb.)
Tipping Load, Straight, No Tire Deflection	11,139 kg (24,557 lb.)	11,097 kg (24,464 lb.)	9,699 kg (21,384 lb.)	9,591 kg (21,145 lb.)	8,630 kg (19,026 lb.)	8,537 kg (18,820 lb.)
Tipping Load, Straight, with Tire Deflection	10,533 kg (23,221 lb.)	10,491 kg (23,129 lb.)	9,231 kg (20,351 lb.)	9,120 kg (20,106 lb.)	8,244 kg (18,175 lb.)	8,145 kg (17,957 lb.)
Tipping Load, 40-deg., Full Turn, No Tire Deflection	9,653 kg (21,281 lb.)	9,612 kg (21,190 lb.)	8,374 kg (18,460 lb.)	8,274 kg (18,241 lb.)	7,410 kg (16,336 lb.)	7,323 kg (16,145 lb.)
Tipping Load, 40-deg., Full Turn, with Tire Deflection	8,865 kg (19,544 lb.)	8,823 kg (19,451 lb.)	7,755 kg (17,097 lb.)	7,650 kg (16,865 lb.)	6,891 kg (15,192 lb.)	6,807 kg (15,007 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, No Tire Deflection (conforms to ISO 14397-1)*	4,827 kg (10,641 lb.)	4,806 kg (10,595 lb.)	4,187 kg (9,230 lb.)	4,137 kg (9,120 lb.)	3,705 kg (8,166 lb.)	3,662 kg (8,073 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, with Tire Deflection (conforms to ISO 14397-1)*	4,433 kg (9,772 lb.)	4,412 kg (9,726 lb.)	3,878 kg (8,548 lb.)	3,825 kg (8,433 lb.)	3,446 kg (7,596 lb.)	3,404 kg (7,503 lb.)
Operating Weight	13,844 kg (30,520 lb.)	13,879 kg (30,598 lb.)	13,992 kg (30,847 lb.)	14,032 kg (30,935 lb.)	14,178 kg (31,257 lb.)	14,218 kg (31,345 lb.)

*Rated operating capacity based on Deere attachments only.

Dimensions and Specifications with HI-VIS Coupler and Hook-On Bucket



544L Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS LOADERS WITH HI-VIS COUPLER AND HOOK-ON BUCKET WITH BOLT-ON EDGE

	Z-Bar 2.3-m ³ (3.0 cu. yd.) general purpose	Z-Bar 2.5-m ³ (3.25 cu. yd.) general purpose	Z-Bar 3.4-m ³ (4.5 cu. yd.) light material	High-Lift 2.1-m ³ (2.75 cu. yd.) general purpose	High-Lift 2.3-m ³ (3.0 cu. yd.) general purpose	High-Lift 3.1-m ³ (4.0 cu. yd.) light material	High-Lift Plus 1.9-m ³ (2.5 cu. yd.) general purpose	High-Lift Plus 3.1-m ³ (4.0 cu. yd.) light material
Dimensions with Bucket with Bolt-On Edge								
A Height to Top of Cab	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)	3.33 m (10 ft. 11 in.)
B Hood Height	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)	2.375 m (7 ft. 9 in.)
C Ground Clearance	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)	0.40 m (15.7 in.)
D Length from Centerline to Front Axle	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)	1.45 m (4 ft. 9 in.)
E Wheelbase	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)	2.93 m (9 ft. 7 in.)
F Overall Length, Bucket on Ground	7.56 m (24 ft. 10 in.)	7.64 m (25 ft. 1 in.)	7.83 m (25 ft. 8 in.)	7.95 m (26 ft. 1 in.)	7.95 m (26 ft. 1 in.)	8.08 m (26 ft. 6 in.)	8.23 m (27 ft. 0 in.)	8.45 m (27 ft. 9 in.)
G Height to Hinge Pin, Fully Raised	3.89 m (12 ft. 9 in.)	3.89 m (12 ft. 9 in.)	3.89 m (12 ft. 9 in.)	4.17 m (13 ft. 8 in.)	4.17 m (13 ft. 8 in.)	4.17 m (13 ft. 8 in.)	4.49 m (14 ft. 9 in.)	4.49 m (14 ft. 9 in.)
H Dump Clearance, 45 deg., Full Height	2.76 m (9 ft. 1 in.)	2.70 m (8 ft. 10 in.)	2.58 m (8 ft. 6 in.)	3.04 m (10 ft. 0 in.)	3.04 m (10 ft. 0 in.)	2.95 m (9 ft. 9 in.)	3.43 m (11 ft. 3 in.)	3.28 m (10 ft. 9 in.)
I Reach, 45-deg. Dump, Full Height	1.06 m (3 ft. 6 in.)	1.12 m (3 ft. 8 in.)	1.25 m (4 ft. 1 in.)	1.19 m (3 ft. 11 in.)	1.29 m (3 ft. 11 in.)	1.29 m (4 ft. 3 in.)	1.17 m (3 ft. 10 in.)	1.33 m (4 ft. 5 in.)
J Reach, 45-deg. Dump, 2.13-m (7 ft. 0 in.) Clearance	1.54 m (5 ft. 1 in.)	1.56 m (5 ft. 1 in.)	1.62 m (5 ft. 4 in.)	1.87 m (6 ft. 2 in.)	1.87 m (6 ft. 2 in.)	1.92 m (6 ft. 4 in.)	2.13 m (7 ft. 0 in.)	2.23 m (7 ft. 4 in.)
K Maximum Digging Depth	0.1 m (4 in.)	0.11 m (4 in.)	0.11 m (5 in.)	0.2 m (8 in.)	0.2 m (8 in.)	0.2 m (8 in.)	0.2 m (8 in.)	0.21 m (8 in.)
L Maximum Rollback at Ground Level	44 deg.	44 deg.	44 deg.	48 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.	61 deg.	61 deg.
N Maximum Bucket Dump Angle, Fully Raised	48 deg.	48 deg.	48 deg.	46 deg.	46 deg.	46 deg.	45 deg.	45 deg.
Loader Clearance Circle, Bucket Carry Position	11.60 m (38 ft. 1 in.)	11.60 m (38 ft. 0 in.)	11.88 m (39 ft. 0 in.)	11.78 m (38 ft. 8 in.)	11.86 m (39 ft. 1 in.)	12.22 m (40 ft. 1 in.)	12.12 m (39 ft. 9 in.)	12.62 m (41 ft. 5 in.)
Specifications with Bucket with Bolt-On Edge								
Capacity, Heaped	2.3 m ³ (3.0 cu. yd.)	2.5 m ³ (3.25 cu. yd.)	3.4 m ³ (4.5 cu. yd.)	2.1 m ³ (2.75 cu. yd.)	2.3 m ³ (3.0 cu. yd.)	3.1 m ³ (4.0 cu. yd.)	1.9 m ³ (2.5 cu. yd.)	3.1 m ³ (4.0 cu. yd.)
Capacity, Struck	1.9 m ³ (2.4 cu. yd.)	2.1 m ³ (2.7 cu. yd.)	2.9 m ³ (3.8 cu. yd.)	1.9 m ³ (2.4 cu. yd.)	1.9 m ³ (2.4 cu. yd.)	2.5 m ³ (3.3 cu. yd.)	1.6 m ³ (2.1 cu. yd.)	2.5 m ³ (3.3 cu. yd.)
Bucket Weight with Bolt-On Cutting Edge	1489 kg (3,283 lb.)	1537 kg (3,388 lb.)	1747 kg (3,850 lb.)	1454 kg (3,205 lb.)	1489 kg (3,283 lb.)	1683 kg (3,711 lb.)	1385 kg (3,052 lb.)	1683 kg (3,711 lb.)
Bucket Width	2.68 m (8 ft. 10 in.)	2.68 m (8 ft. 10 in.)	2.68 m (8 ft. 10 in.)	2.55 m (8 ft. 4 in.)	2.55 m (8 ft. 4 in.)	2.89 m (9 ft. 6 in.)	2.55 m (8 ft. 4 in.)	2.89 m (9 ft. 6 in.)
Breakout Force	12,307 kg (27,131 lb.)	11,539 kg (25,439 lb.)	10,013 kg (22,074 lb.)	12,179 kg (26,849 lb.)	12,155 kg (26,797 lb.)	10,907 kg (24,045 lb.)	13,305 kg (29,333 lb.)	11,028 kg (24,313 lb.)
Tipping Load, Straight, No Tire Deflection	10,362 kg (22,844 lb.)	10,250 kg (22,597 lb.)	9912 kg (21,853 lb.)	8963 kg (19,759 lb.)	8910 kg (19,642 lb.)	8663 kg (19,099 lb.)	8085 kg (17,825 lb.)	7679 kg (16,614 lb.)
Tipping Load, Straight, with Tire Deflection	9789 kg (21,581 lb.)	9675 kg (21,330 lb.)	9321 kg (20,549 lb.)	8508 kg (18,757 lb.)	8460 kg (18,651 lb.)	8199 kg (18,076 lb.)	7713 kg (17,004 lb.)	7290 kg (15,774 lb.)

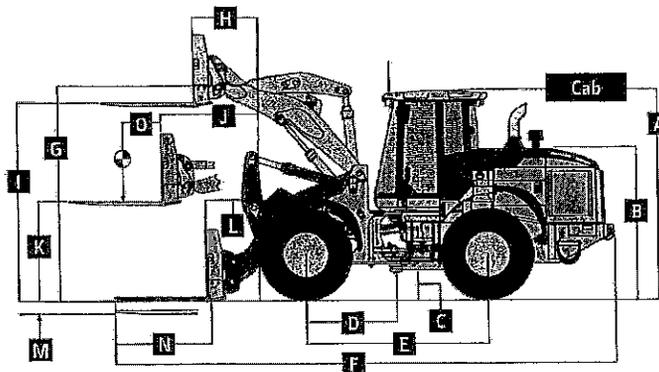
Dimensions and Specifications with Hi-Vis Coupler and Hook-On Bucket (continued)

	544L Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS							
	Z-Bar	Z-Bar	Z-Bar	High-Lift	High-Lift	High-Lift	High-Lift Plus	High-Lift Plus
	2.3-m ³ (3.0 cu. yd.)	2.5-m ³ (3.25 cu. yd.)	3.4-m ³ (4.5 cu. yd.)	2.1-m ³ (2.75 cu. yd.)	2.3-m ³ (3.0 cu. yd.)	3.1-m ³ (4.0 cu. yd.)	1.9-m ³ (2.5 cu. yd.)	3.1-m ³ (4.0 cu. yd.)
Specifications with Bucket with Bolt-On Edge (continued)	general purpose	general purpose	light material	general purpose	general purpose	light material	general purpose	light material
Tipping Load, 40-deg. Full Turn, No Tire Deflection	8931 kg (19,690 lb.)	8827 kg (19,459 lb.)	8499 kg (18,736 lb.)	7686 kg (16,945 lb.)	7635 kg (16,833 lb.)	7390 kg (16,293 lb.)	6899 kg (15,209 lb.)	6501 kg (14,040 lb.)
Tipping Load, 40-deg. Full Turn, with Tire Deflection	8181 kg (18,036 lb.)	8073 kg (17,798 lb.)	7731 kg (17,044 lb.)	7083 kg (15,615 lb.)	7035 kg (15,510 lb.)	6771 kg (14,927 lb.)	6393 kg (14,094 lb.)	5988 kg (13,284 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, No Tire Deflection (conforms to ISO 14397-1)*	4466 kg (9,845 lb.)	4413 kg (9,730 lb.)	4249 kg (9,368 lb.)	3843 kg (8,473 lb.)	3818 kg (8,417 lb.)	3695 kg (8,146 lb.)	3449 kg (7,604 lb.)	3251 kg (7,202 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, with Tire Deflection (conforms to ISO 14397-1)*	4091 kg (9,018 lb.)	4037 kg (8,899 lb.)	3866 kg (8,522 lb.)	3542 kg (7,808 lb.)	3518 kg (7,755 lb.)	3386 kg (7,464 lb.)	3197 kg (7,047 lb.)	2994 kg (6,642 lb.)
Operating Weight	14 258 kg (31,433 lb.)	14 305 kg (31,538 lb.)	14 515 kg (32,000 lb.)	14 411 kg (31,771 lb.)	14 446 kg (31,849 lb.)	14 641 kg (32,277 lb.)	14 528 kg (32,029 lb.)	14 827 kg (32,827 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.

**Rated operating capacity based on Deere attachments only.*

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



544L Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS LOADERS WITH HI-VIS COUPLER AND HOOK-ON CONSTRUCTION FORKS

	Z-Bar	Z-Bar	High-Lift	High-Lift	High-Lift Plus	High-Lift Plus
Dimensions with Forks	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.)
A Height to Top of Cab	3.33 m (10 ft. 11 in.)					
B Hood Height	2.375 m (7 ft. 9 in.)					
C Ground Clearance	0.40 m (15.7 in.)					
D Length from Centerline to Front Axle	1.45 m (4 ft. 9 in.)					
E Wheelbase	2.93 m (9 ft. 7 in.)					
F Overall Length, Forks on Ground	8.29 m (27 ft. 2 in.)	8.59 m (28 ft. 2 in.)	8.68 m (28 ft. 6 in.)	8.98 m (29 ft. 6 in.)	9.04 m (29 ft. 8 in.)	9.35 m (30 ft. 8 in.)
G Height to Hinge Pin, Fully Raised	3.89 m (12 ft. 9 in.)	3.89 m (12 ft. 9 in.)	4.17 m (13 ft. 8 in.)	4.17 m (13 ft. 8 in.)	4.49 m (14 ft. 9 in.)	4.49 m (14 ft. 9 in.)
H Reach, Fully Raised	0.80 m (31 in.)	0.80 m (31 in.)	0.92 m (3 ft. 0 in.)	0.92 m (3 ft. 0 in.)	0.97 m (3 ft. 2 in.)	0.97 m (3 ft. 2 in.)
J Fork Height, Fully Raised	2.79 m (9 ft. 2 in.)	2.79 m (9 ft. 2 in.)	3.08 m (10 ft. 1 in.)	3.08 m (10 ft. 1 in.)	3.40 m (11 ft. 2 in.)	3.40 m (11 ft. 2 in.)
I Maximum Reach, Fork Level	1.57 m (5 ft. 2 in.)	1.57 m (5 ft. 2 in.)	1.87 m (6 ft. 2 in.)	1.87 m (6 ft. 2 in.)	2.14 m (7 ft. 0 in.)	2.14 m (7 ft. 0 in.)
K Fork Height, Maximum Reach	1.24 m (4 ft. 1 in.)					
L Reach, Ground Level	1.05 m (3 ft. 5 in.)	1.05 m (3 ft. 5 in.)	1.41 m (4 ft. 8 in.)	1.41 m (4 ft. 8 in.)	1.73 m (5 ft. 8 in.)	1.73 m (5 ft. 8 in.)
M Depth Below Ground	0.11 m (4 in.)	0.11 m (4 in.)	0.21 m (8 in.)	0.21 m (8 in.)	0.21 m (8 in.)	0.22 m (8 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.)
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.)

Dimensions and Specifications With H-Vis Coupler and Hoop-On Construction Forks (continued)						
	544L Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS					
	Z-Bar	Z-Bar	High-Lift	High-Lift	High-Lift Plus	High-Lift Plus
	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.)
Specifications with Forks	tine length	tine length	tine length	tine length	tine length	tine length
Tipping Load, Straight, No Tire Deflection	7263 kg (16,013 lb.)	6852 kg (15,107 lb.)	6480 kg (14,287 lb.)	6132 kg (13,520 lb.)	5909 kg (13,027 lb.)	5604 kg (12,355 lb.)
Tipping Load, Straight, with Tire Deflection	7068 kg (15,582 lb.)	6669 kg (14,703 lb.)	6309 kg (13,909 lb.)	5973 kg (13,168 lb.)	5751 kg (12,679 lb.)	5451 kg (12,017 lb.)
Tipping Load, 40-deg. Full Turn, No Tire Deflection	6261 kg (13,804 lb.)	5897 kg (13,001 lb.)	5556 kg (12,249 lb.)	5248 kg (11,569 lb.)	5033 kg (11,096 lb.)	4763 kg (10,501 lb.)
Tipping Load, 40-deg. Full Turn, with Tire Deflection	5991 kg (13,208 lb.)	5649 kg (12,454 lb.)	5319 kg (11,726 lb.)	5031 kg (11,091 lb.)	4830 kg (10,648 lb.)	4566 kg (10,066 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, with Tire Deflection (conforms to ISO 14397-1 and SAE J1197)*	2996 kg (6,604 lb.)	2825 kg (6,227 lb.)	2660 kg (5,863 lb.)	2516 kg (5,546 lb.)	2415 kg (5,324 lb.)	2283 kg (5,033 lb.)
Rated Operating Load, Rough Terrain, 60% Full-Turn Tipping Load, with Tire Deflection (conforms to EN474-3)*	3595 kg (7925 lb.)	3389 kg (7472 lb.)	3191 kg (7036 lb.)	3019 kg (6,655 lb.)	2898 kg (6,389 lb.)	2740 kg (6,040 lb.)
Rated Operating Load, Firm and Level Ground, 80% Full-Turn Tipping Load, with Tire Deflection (conforms to EN474-3)*	4793 kg (10,566 lb.)	4519 kg (9,963 lb.)	4255 kg (9,381 lb.)	4025 kg (8,873 lb.)	3864 kg (8,519 lb.)	3653 kg (8,053 lb.)
Operating Weight	14 108 kg (31,103 lb.)	14 168 kg (31,236 lb.)	14 297 kg (31,520 lb.)	14 357 kg (31,652 lb.)	14 483 kg (31,930 lb.)	14 544 kg (32,063 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.

Adjustments to Operating Weights and Tipping Loads with Buckets

Adjustments to operating weights, tipping loads, and tires are based on Z-Bar machine with pin-on 2.3-m³ (3.0 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*

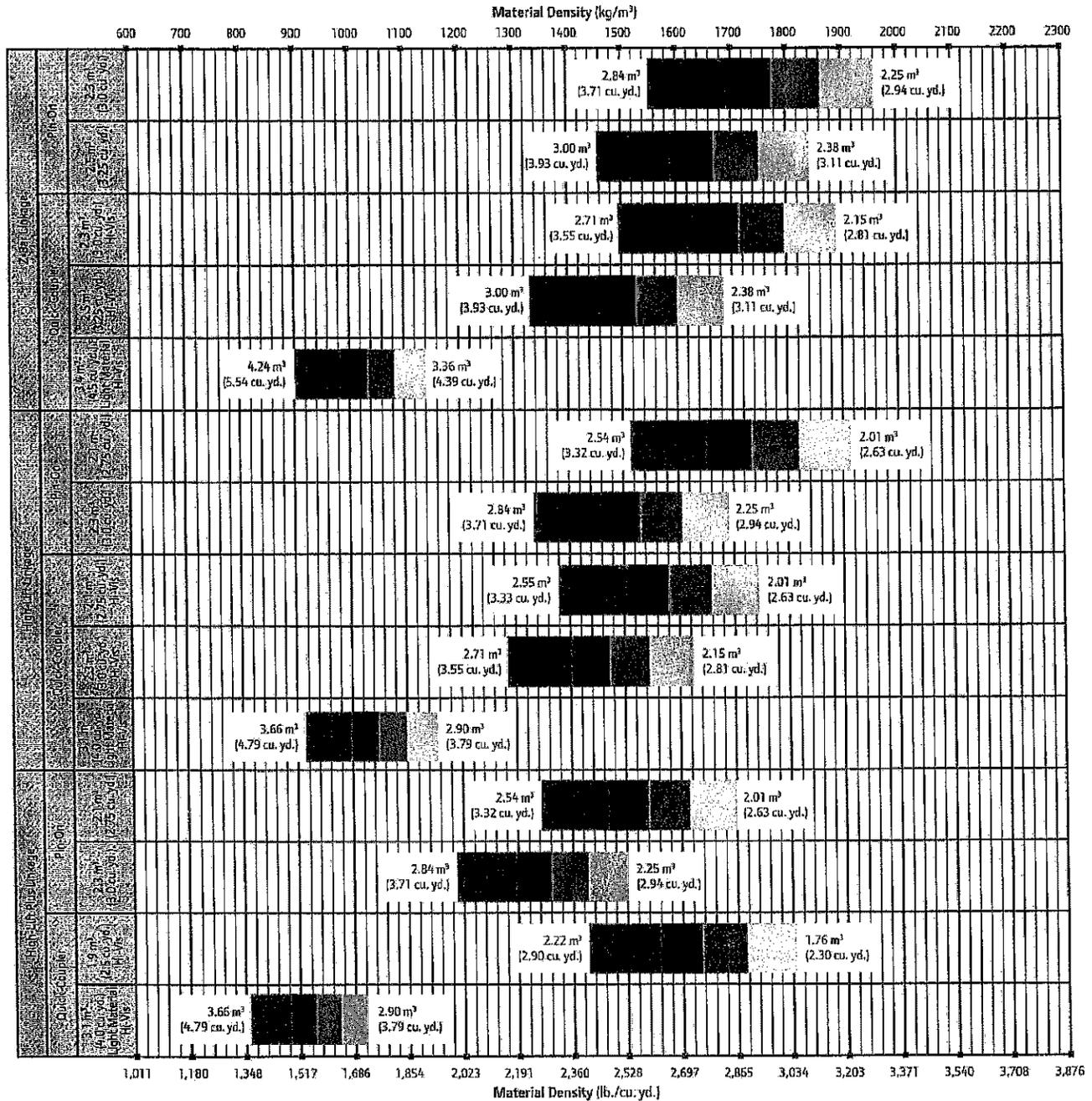
Add (+) or deduct (-) kg (lb.) as indicated for loaders with 3-piece rims	Tipping Load			Tread Width	Width Over Tires	Vertical Height
	Operating Weight	Straight	40-deg. Full Turn			
Michelin 20.5 R 25, 1 Star L-3 XHA2	0 kg (0 lb.)	0 kg (0 lb.)	0 kg (0 lb.)	0 mm (0 in.)	0 mm (0 in.)	0 mm (0 in.)
Bridgestone 20.5 R 25, 1 Star L-3 VJ1	+4 kg (+9 lb.)	+3 kg (+6 lb.)	+2 kg (+5 lb.)	0 mm (0 in.)	+2 mm (+0.1 in.)	-41 mm (-1.6 in.)
Titan 20.5 R 25, 1 Star L-3 STL3	+11 kg (+23 lb.)	+7 kg (+16 lb.)	+7 kg (+14 lb.)	0 mm (0 in.)	-7 mm (-0.3 in.)	-5 mm (-0.2 in.)
Michelin 20.5 R 25, 1 Star L-2 XTLA	-152 kg (-335 lb.)	-107 kg (-235 lb.)	-94 kg (-207 lb.)	0 mm (0 in.)	+4 mm (+0.2 in.)	-11 mm (-0.4 in.)
Bridgestone 20.5 R 25, 1 Star L-2 VUT	-65 kg (-144 lb.)	-46 kg (-101 lb.)	-40 kg (-89 lb.)	0 mm (0 in.)	+3 mm (+0.1 in.)	-10 mm (-0.4 in.)
Titan 20.5 R 25, 1 Star L-2 TGD2	-85 kg (-188 lb.)	-60 kg (-132 lb.)	-53 kg (-116 lb.)	0 mm (0 in.)	-7 mm (-0.3 in.)	-10 mm (-0.4 in.)
Titan 20.5-25, 16 PR L-2	-245 kg (-541 lb.)	-172 kg (-379 lb.)	-152 kg (-335 lb.)	0 mm (0 in.)	+8 mm (+0.3 in.)	-2 mm (-0.1 in.)
Firestone 20.5-25, 16 PR L-2 SGG LD	-280 kg (-617 lb.)	-196 kg (-433 lb.)	-173 kg (-382 lb.)	0 mm (0 in.)	+5 mm (+0.2 in.)	-1 mm (0 in.)
Titan 20.5-25, 12 PR L-2	-266 kg (-587 lb.)	-187 kg (-412 lb.)	-165 kg (-363 lb.)	0 mm (0 in.)	+8 mm (+0.3 in.)	-2 mm (-0.1 in.)
Firestone 20.5-25, 16 PR L-3 SRG LD	-276 kg (-608 lb.)	-194 kg (-427 lb.)	-171 kg (-375 lb.)	0 mm (0 in.)	+8 mm (+0.3 in.)	+3 mm (+0.1 in.)
Michelin 20.5 R 25, 1 Star L2 SNO-PLUS	-96 kg (-212 lb.)	-67 kg (-148 lb.)	-59 kg (-131 lb.)	0 mm (0 in.)	+6 mm (+0.2 in.)	-16 mm (-0.6 in.)
Michelin 620/76R26 MegaXbib SM	-189 kg (-417 lb.)	-133 kg (-293 lb.)	-117 kg (-258 lb.)	+187 mm (+7.4 in.)	+247 mm (+9.7 in.)	+23 mm (+0.9 in.)
Michelin 750/65R26 MegaXbib SM	+55 kg (+121 lb.)	+38 kg (+85 lb.)	+34 kg (+75 lb.)	+322 mm (+12.7 in.)	+521 mm (+20.5 in.)	+36 mm (+1.4 in.)
CaCl ₂ in 20.5-25 L-3 Rear Tires, 75% Fill	+825 kg (+1,820 lb.)	+1157 kg (+2,551 lb.)	+1020 kg (+2,250 lb.)	N/A	N/A	N/A

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

SMEquipped with 1-piece rims.

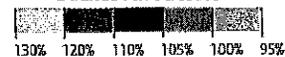
SMRequires 8-deg. rear axle stops.

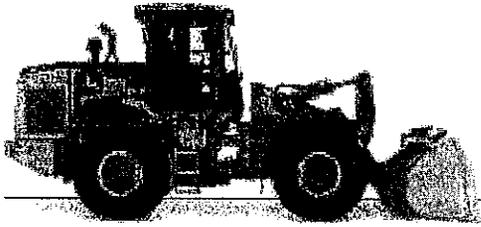
Bucket Selection Guides 544L Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS



LOOSE MATERIALS	kg/m ³	lb./cu. yd.	LOOSE MATERIALS	kg/m ³	lb./cu. yd.
Chips, pulpwood	288	486	Limestone, coarse, sized	1570	2,646
Cinders (coal, ashes, clinkers)	673	1,134	Limestone, mixed sizes	1682	2,835
Clay and gravel, dry	1602	2,700	Limestone, pulverized or crushed	1362	2,295
Clay, compact, solid	1745	2,943	Sand, damp	2083	3,510
Clay, dry in lump loose	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	1314	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
Granite, broken	1538	2,592	Stone or gravel, 18.75-mm (0.75 in.) size	1602	2,700
Gypsum	2275	3,834			

Bucket Fill Factors

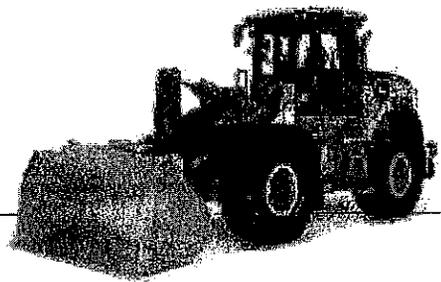




624L SPECIFICATIONS

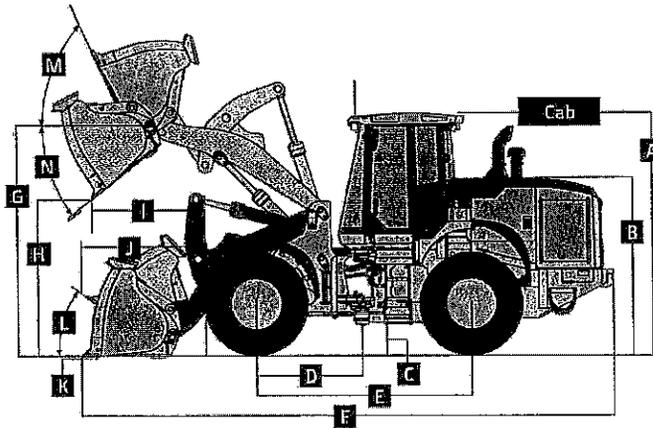
Engine			
624L Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS / TOOL CARRIER			
Manufacturer and Model	John Deere PowerTech™ PVX 6068	Gross Peak Torque (ISO 9249)	923 Nm (681 ft.-lb.) at 1,500 rpm
Non-Road Emission Standard	EPA Final Tier 4 / EU Stage V	Net Torque Rise	58% standard
Cylinders	6	Fuel System (electronically 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)			
	<i>Forward</i>	<i>Reverse</i>	
Range 1	7.0 km/h (4.3 mph)	6.6 km/h (4.1 mph)	6.3 km/h (3.9 mph)
Range 2	12.1 km/h (7.5 mph)	12.8 km/h (7.9 mph)	11.4 km/h (7.0 mph)
Range 3	18.7 km/h (11.6 mph)	20.7 km/h (12.9 mph)	17.5 km/h (10.8 mph)
Range 4	29.1 km/h (18.1 mph)	N/A	27.2 km/h (16.9 mph)
Range 5	40.0 km/h (24.8 mph)	N/A	40.0 km/h (24.8 mph)
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 22 for complete tire adjustments)			
	<i>Tread Width</i>	<i>Width Over Tires</i>	
Michelin 20.5 R 25, 1 Star I-3 XHA2	2053 mm (80.8 in.)	2657 mm (104.6 in.)	
Serviceability			
Refill Capacities			
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.)		
Hydraulic Cycle Times			
	<i>Z-Bar / High-Lift / High-Lift Plus</i>	<i>Tool Carrier</i>	
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.	

624L SPECIFICATIONS



Dimensions and Specifications
with Pin-On Bucket

624L Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS / TOOL CARRIER



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

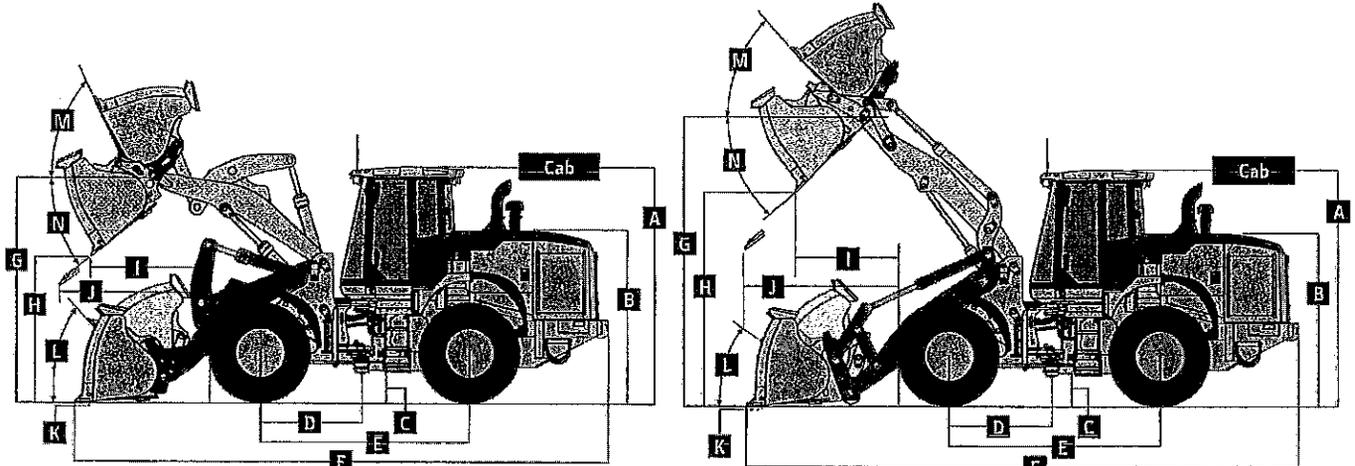
	Z-Bar 2.7-m ³ (3.5 cu. yd.) general purpose	Z-Bar 2.9-m ³ (3.75 cu. yd.) general purpose	High-Lift 2.7-m ³ (3.5 cu. yd.) general purpose	High-Lift 2.9-m ³ (3.75 cu. yd.) general purpose	High-Lift Plus 2.7-m ³ (3.5 cu. yd.) general purpose	High-Lift Plus 2.9-m ³ (3.75 cu. yd.) general purpose
A Height 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	776 m (25 ft. 6 in.)	783 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.)	2.80 m (9 ft. 2 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 (27,416 lb.)	12,345 kg (27,216 lb.)	10,563 kg (23,287 lb.)	10,488 kg (23,122 lb.)	9,792 kg (21,588 lb.)	9,723 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.)	9,595 kg (21,153 lb.)	9,530 kg (21,010 lb.)	8,837 kg (19,483 lb.)	8,778 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.)	8,820 kg (19,445 lb.)	8,754 kg (19,299 lb.)	8,145 kg (17,957 lb.)	8,091 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.)

*Rated operating capacity based on Deere attachments only.

624L

Dimensions and Specifications with HI-Vis Coupler and Hook-On Bucket

624L Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS / TOOL CARRIER



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

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

	Z-Bar 2.7-m ³ (3.5 cu. yd.) general purpose	Z-Bar 4.0-m ³ (5.25 cu. yd.) light material	High-Lift 2.5-m ³ (3.25 cu. yd.) general purpose	High-Lift 3.4-m ³ (4.5 cu. yd.) light material	High-Lift Plus 2.3-m ³ (3.0 cu. yd.) general purpose	High-Lift Plus 3.1-m ³ (4.0 cu. yd.) light material	Tool Carrier 2.7-m ³ (3.5 cu. yd.) general purpose	Tool Carrier 3.4-m ³ (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.)	0.12 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.)

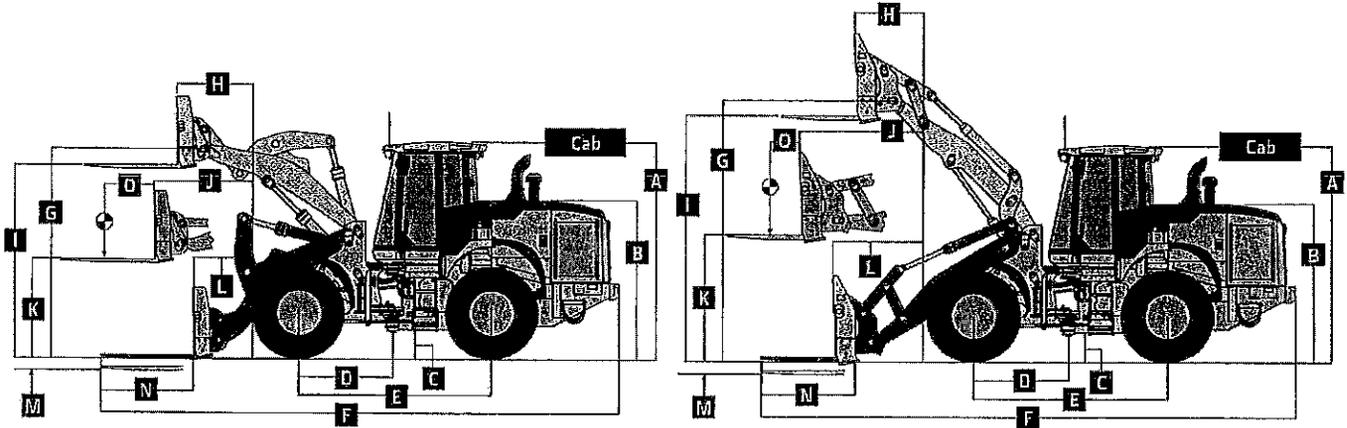
Dimensions and Specifications With Hi-Vis coupler and Hook-On Bucket (continued)								
	624L Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS / TOOL CARRIER							
	Z-Bar	Z-Bar	High-Lift	High-Lift	High-Lift Plus	High-Lift Plus	Tool Carrier	Tool Carrier
	2.7-m ³	4.0-m ³	2.5-m ³	3.4-m ³	2.3-m ³	3.1-m ³	2.7-m ³	3.4-m ³
	(3.5 cu. yd.)	(5.25 cu. yd.)	(3.25 cu. yd.)	(4.5 cu. yd.)	(3.0 cu. yd.)	(4.0 cu. yd.)	(3.5 cu. yd.)	(4.5 cu. yd.)
Specifications with Bucket with Bolt-On Edge	general purpose	light material	general purpose	light material	general purpose	light material	general purpose	light material
Capacity, Heaped	2.7 m ³ (3.5 cu. yd.)	4.0 m ³ (5.25 cu. yd.)	2.5 m ³ (3.25 cu. yd.)	3.4 m ³ (4.5 cu. yd.)	2.3 m ³ (3.0 cu. yd.)	3.1 m ³ (4.0 cu. yd.)	2.7 m ³ (3.5 cu. yd.)	3.4 m ³ (4.5 cu. yd.)
Capacity, Struck	2.17 m ³ (2.8 cu. yd.)	3.46 m ³ (4.53 cu. yd.)	2.1 m ³ (2.7 cu. yd.)	2.9 m ³ (3.8 cu. yd.)	1.9 m ³ (2.4 cu. yd.)	2.6 m ³ (3.4 cu. yd.)	1.9 m ³ (2.4 cu. yd.)	2.9 m ³ (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 (23,731 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.)	9 779 kg (21,559 lb.)	9 547 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.)	9 600 kg (21,164 lb.)	9 294 kg (20,490 lb.)	9 042 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.)	9 130 kg (20,127 lb.)	8 690 kg (19,158 lb.)	8 348 kg (18,405 lb.)	8 120 kg (17,581 lb.)	9 993 kg (22,031 lb.)	9 939 kg (21,912 lb.)
Tipping Load, 40-deg. Full Turn, with Tire Deflection	9 663 kg (21,303 lb.)	9 273 kg (20,443 lb.)	8 385 kg (18,486 lb.)	7 911 kg (17,441 lb.)	7 686 kg (16,945 lb.)	7 437 kg (16,032 lb.)	9 108 kg (20,080 lb.)	9 006 kg (19,855 lb.)
Rated Operating Load, 50% Full-Turn Tipping Load, No Tire Deflection (conforms to ISO 14397-II)*	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.)
Rated Operating Load, 50% Full-Turn Tipping Load, with Tire Deflection (conforms to ISO 14397-I)*	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.)
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 PVX 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.

624L

Dimensions and Specifications with Hi-Vis Coupler and Hook-On Construction Forks 624L Z-BAR / HIGH-LIFT / HIGH-LIFT PLUS / TOOL CARRIER



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

624L 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	1.83-m	1.52-m	1.83-m	1.52-m	1.83-m	1.52-m	1.83-m
	(60 in.)	(72 in.)	(60 in.)	(72 in.)	(60 in.)	(72 in.)	(60 in.)	(72 in.)
	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.)	0.96 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	2.87 m (9 ft. 5 in.)	2.87 m (9 ft. 5 in.)	3.23 m (10 ft. 7 in.)	3.23 m (10 ft. 7 in.)	3.49 m (11 ft. 5 in.)	3.49 m (11 ft. 5 in.)	3.72 m (12 ft. 2 in.)	3.72 m (12 ft. 2 in.)
J Maximum Reach, Fork Level	1.60 m (5 ft. 3 in.)	1.60 m (5 ft. 3 in.)	1.96 m (6 ft. 5 in.)	1.96 m (6 ft. 5 in.)	2.16 m (7 ft. 1 in.)	2.16 m (7 ft. 1 in.)	1.80 m (5 ft. 11 in.)	1.80 m (5 ft. 11 in.)
K Fork Height, Maximum Reach	1.27 m (4 ft. 2 in.)	1.27 m (4 ft. 2 in.)	1.27 m (4 ft. 2 in.)	1.27 m (4 ft. 2 in.)	1.27 m (4 ft. 2 in.)	1.27 m (4 ft. 2 in.)	1.80 m (5 ft. 11 in.)	1.80 m (5 ft. 11 in.)
L Reach, Ground Level	1.08 m (3 ft. 6 in.)	1.08 m (3 ft. 6 in.)	1.51 m (4 ft. 11 in.)	1.51 m (4 ft. 11 in.)	1.74 m (5 ft. 9 in.)	1.74 m (5 ft. 9 in.)	1.21 m (4 ft. 0 in.)	1.21 m (4 ft. 0 in.)
M Depth Below Ground	0.1 m (4 in.)	0.1 m (4 in.)	0.2 m (8 in.)	0.2 m (8 in.)	0.2 m (8 in.)	0.2 m (8 in.)	0.17 m (7 in.)	0.17 m (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.)

Dimensions and Specifications with HI-VIS Coupler and Hook-On Construction Forks (continued)								
	624L Z-BAR/HIGH-LIFT/HIGH-LIFT PLUS/TOOL CARRIER							
	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.)
Specifications with Forks	tine length	tine length	tine length	tine length	tine length	tine length	tine length	tine length
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 (13,869 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 PVX 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.

Adjustments to Operating Weights and Tipping Loads with Buckets						
624L 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-m ³ (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*						
Add (+) or deduct (-) kg (lb.) as indicated						
	Operating Weight	Tipping Load		Tread Width	Width Over Tires	Vertical Height
for loaders with 3-piece rims		Straight	40-deg. Full Turn			
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.)	-4 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 PRL-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 [†]	+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 [‡]	-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 [‡]	+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, 1-3 Rear Tires, 75% Fill	+825 kg (+1,820 lb.)	+193 kg (+426 lb.)	+1051 kg (+2,318 lb.)	N/A	N/A	N/A

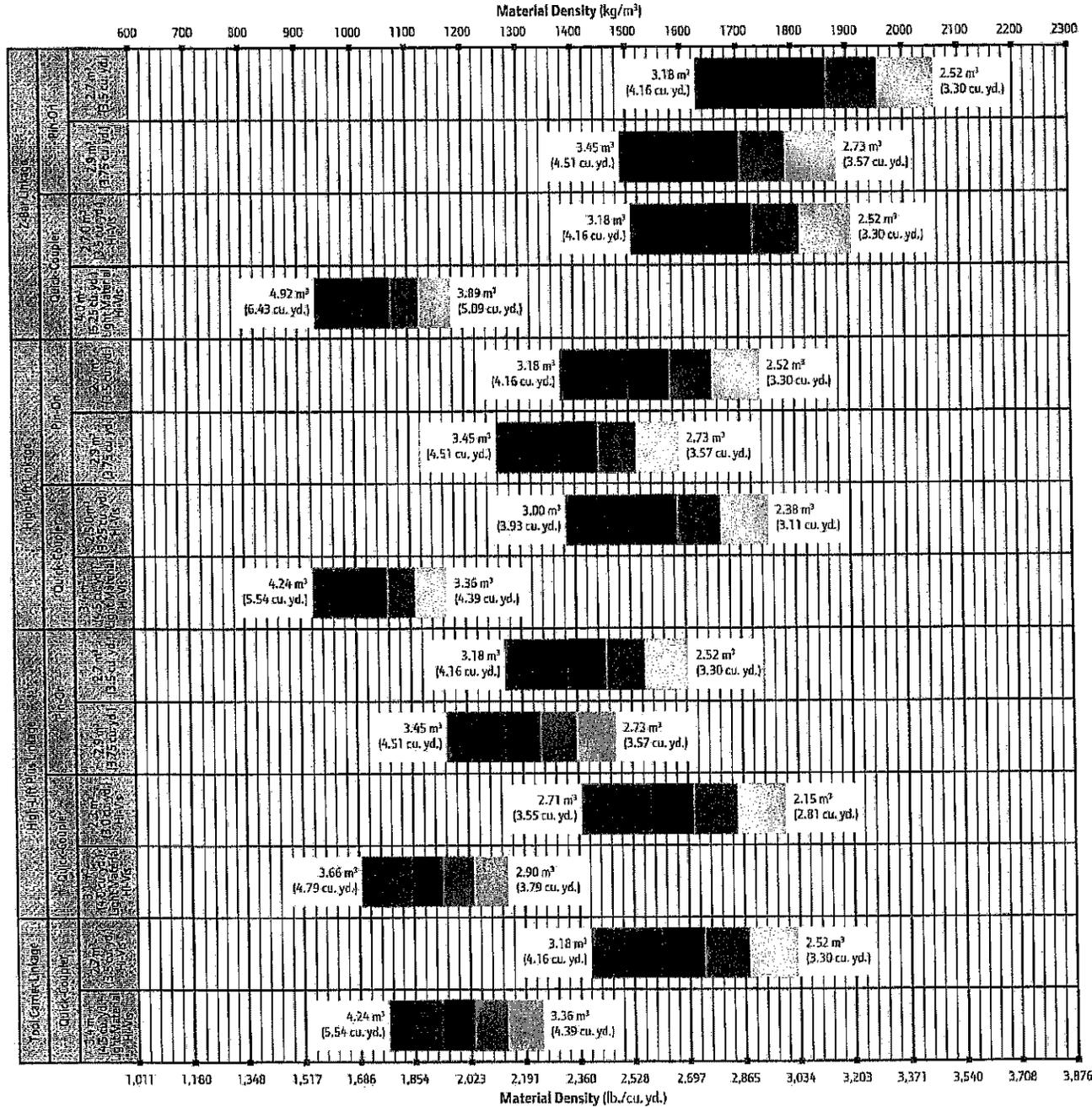
*May change based on vehicle configuration, weight, or tire-pressure adjustments.

[†]CaCl₂ not recommended.

[‡]Equipped with 1-piece rims.

[§]Requires 8-deg. rear axle stops.

Bucket Selection Guides 624L Z BAR / HIGH-LIFT / HIGH-LIFT PLUS / TOOL CARRIER



LOOSE MATERIALS		kg/m³	lb./cu. yd.	LOOSE MATERIALS		kg/m³	lb./cu. yd.
Chips, pulpwood	288	486	Limestone, coarse, sized	1570	2,546		
Cinders (coal, ashes, clinkers)	673	1,134	Limestone, mixed sizes	1682	2,835		
Clay and gravel, dry	1602	2,700	Limestone, pulverized or crushed	1362	2,295		
Clay, compact, solid	1745	2,943	Sand, damp	2083	3,510		
Clay, dry in lump loose	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	1314	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		
Granite, broken	1538	2,592	Stone or gravel, 18.75-mm (0.75 in.) size	1602	2,700		
Gypsum	2275	3,834					

Bucket Fill Factors



Additional equipment

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

524 544 624 Engine

- ● ● Wet-sleeve cylinder liners
- ● ● Automatic glow plugs for cold start
- ● ● Programmable auto-idle and auto shutdown
- ● ● Selected idle adjustment from 900–1,250 rpm
- ● ● Starter 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
- ▲ ▲ ▲ Engine-block heater (recommended for cold starts below –23 deg. C [–10 deg. F])
- ▲ ▲ ▲ Centrifugal engine air pre-cleaner
- ▲ ▲ ▲ Throttle lock

Powertrain

- ● ● 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 lockup torque converter
- ▲ ▲ 5-speed transmission with non-lockup torque converter
- ● ● Front locking differential
- ▲ ▲ ▲ Rear locking differential
- ● ● Brake retractors and adjusters
- ▲ ▲ ▲ Automatic differential lock
- ● ● Axle oil temperature sensing
- ▲ ▲ ▲ Wheel-spin control

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
- ● ● Integral 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

524 544 624 Hydraulics

- ● ● 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
- ● ● 2 programmable multifunction buttons
- ● ● 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
- ▲ ▲ ▲ Hydra™ 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)
- ▲ ▲ ▲ Integrated cycle counter with 5 categories
- ● ● Indicator lights: Standard and selected options / Amber caution and red stop

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 units 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.

Additional equipment (cont.)

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

524 544 624 Electrical (continued)

- ● ● 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 76-mm (3 in.) cab power ports
- ▲ ▲ ▲ 24- to 12-volt, 15- or 30-amp converter and 76-mm (3 in.) cab power ports

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)
- ● ● 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
- ● ● 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
- ● ● 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
- ▲ ▲ ▲ Beacon bracket with strobe beacon
- ▲ ▲ ▲ Rearview camera
- ▲ ▲ ▲ Rearview camera and radar object-detection system
- ▲ ▲ ▲ Dedicated 178-mm (7 in.) rear camera display
- ● ● LOADRITE™ L2180™ Payload Scale Ready
- ▲ ▲ ▲ LOADRITE L2180 Payload Scale

524 544 624 Operator's Station (continued)

- ▲ ▲ ▲ Embedded payload scale
- ▲ ▲ ▲ 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
- ▲ ▲ ▲ Worksite Pro™ hydraulic coupler which accepts JRB-pattern attachments
- ▲ ▲ ▲ Hi-Vis hydraulic coupler which accepts Euro-pattern attachments (ISO)
- ▲ ▲ ▲ Full line of Deere hook-on buckets and forks
- 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
- ● ● Vential 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
- ● ● DEF and ground-level fueling
- ● ● 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 mudflaps
- ▲ ▲ ▲ Less wheels and tires with 8-deg. axle stops
- ▲ ▲ ▲ Rims less tires
- ▲ ▲ ▲ Transmission side-frame and bottom guards
- ▲ ▲ ▲ Lift eyes
- ▲ ▲ ▲ License-plate bracket and light
- ▲ ▲ ▲ Special guarding for waste applications

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 units 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



DKALULDR Litho in U.S.A. (19-04)

JohnDeere.com

#5

Warranty Quick Reference Card* October 2011 – US/Canada ONLY

**This Quick Reference Card is for REFERENCE only. For the most up-to-date policies please consult the appropriate section of the Service Administration Manual (SAM), available on DealerNet/Pathways. Please see the John Deere Warranty System User's Guide for claim instructions.*

***Paper copies of this document are uncontrolled and may be outdated.*

BASIC WARRANTY PLATFORMS

All Construction, Forestry, and Commercial Worksite

Products *Except those listed separately below
12 mos/unlimited hrs

110 TLB - 12 mos/1000 hrs

Warranty administered through Ag & Turf division.

Forestry Attachments - 12 mos/2000 hrs

Pull Scrapers & Frontier Equipment

6 mos/unlimited hrs, 90 days rental applications (Frontier Equipment Only)

Scraper Tractors - 24 mos/2000 hrs

Mining Shovels

EX1200: 12 mos/ 3000 hrs

EX1900: 12 mos/4000 hrs

EX2500, EX3600, EX5500, & EX8000: 12 mos/5000 hrs

Rigid Frame Trucks

< 130 Tons: 12 mos/2500 hrs

=> 130 Tons: 12 mos/5000 hrs

REIMBURSEMENT for Machines

Construction, Forestry & CWP Equipment (does not apply to 110TLB)

Basic & StructurALL Warranty

Parts @ MDP + 15%

Labor + 10%

Extended Warranty

Parts @ List

Labor + 20%

\$200 deductible (Comprehensive claims)

\$750 deductible (Scraper Tractors Only – all claims)

Mining Equipment - Mining Shovels & RFTs

Basic Warranty

Parts at MDP + 15%

Labor + 10%

Travel (Max \$450)

Standard Hours Extension

Parts at MDP + 15%

Labor + 10%

No Travel

Extended Warranty

Parts at MDP + 15%

Labor + 10%

No Travel

StructurALL

3 yrs/10,000 hrs – Begins at the same time as basic, starts/stops for rentals just like basic.

Not applicable for: machines in Severe or Extreme Duty applications as defined in SAM, Mining Equipment, Scraper Tractors, Pull Scrapers, & CWP Equipment. See SAM Section I Standard Warranty, Subsection 40.50 for all limitations.

ENGINE EMISSIONS

5 yrs/3000 hours - Refer to JDPS SAM for terms & conditions.

UNDERCARRIAGE

Factory Installed - Does not apply to Scraper Tractors, High Speed Dozers, or Mining Equipment

3 yrs/4000 hrs for non-rubberized wear parts only

Parts reimbursement is pro-rated for wear, see SAM for complete details. Reimbursement for bench labor only.

Dedicated Rubber Track Machines

(Compact Track Loaders & Tracked Excavators)

Rubber Track – 12 mos, unlimited hrs

HSD Factory Installed

Rubber Track – 12 mos/1000 hrs

Claims need pre-approval – see SAM.

See SAM for reimbursement rules.

PDC-Stocked Undercarriage Parts

Dealer Installed - 3 yrs/4000 hrs, Parts & Labor

Over-the-Counter (customer installed) - 1 yr/1500 hrs, Parts Only

ATTACHMENTS

If factory-installed, attachment carries machine Basic Warranty – exceptions are outlined in SAM Section I subsection 55.10.

PRODUCT IMPROVEMENT PROGRAMS (PIPs)

See individual PIP Bulletins & SAM Section II: PIPs for PIP information.

FACTORY-INSTALLED ENGINES

Original Engines in JD or TJ Branded Equipment
See SAM Section I Standard Warranty, Subsection 50.10.

Other Engines
Cummins, Detroit Diesel, MTU -- Supplier Warranty
*Isuzu, Nissan, Mercedes, Liebherr
*12 mos/ unlimited -Submit thru Deere (Use PIN of machine)

PARTS WARRANTY

All New Service Parts (unless listed separately below):
C&F/CWP - 90Days, Mining - 6 months.

New Major Components (see list in SAM)
Dealer Installed - 12 mos/1500 hours; Customer Installed - 90 Days

Repower Engine in John Deere Equipment
24 mos/2000 hrs, unlimited hrs 1st year. If greater than 2000 hrs 1st year - NO 2nd year warranty. See JDPS SAM for reimbursement.

New John Deere Engine Warranty (OEM)
24 mos/2000 hrs. Unlimited hrs 1st year. If greater than 2000 hrs 1st year - NO 2nd year warranty. See JDPS SAM for reimbursement.

John Deere Reman Basic & Complete Engines, Short Blocks and Complete Block Assemblies (CBAs)
12 mos/unlimited hours

Injection pumps & nozzles
Original Equipment - 12 mos/unlimited hrs. Service Parts - All new or JD Reman fuel components - 12 mos/unlimited hrs.

New Piston/Liner Kits
12mos/1500 hrs

Reman components
(JDM) (Eaton, Sauer Danfoss, Linde) - 12 mos/1500 hrs; Engine related components - 12 mos/unlimited hrs

C&F Hydraulic & Drivetrain Components (PRG)
Dealer Installed - 12 mos/1500 hrs; Customer Installed - 90 days

PEP (Mining, Power Exchange Program, PRG)
Dealer Installed - 12 mos/unlimited hrs; Customer Installed - 90 days/unlimited hrs

John Deere Reman A/C Compressors
Dealer Installed - 12 mos/unlimited hrs; Customer Installed - 90days/unlimited hrs

REIMBURSEMENT FOR PARTS (UNLESS OTHERWISE STATED ABOVE)

Travel Time and Mileage not covered. Other Credits must be documented & explained. No additive applied to outside invoices.

New Service Parts:
Parts @ MDP + 15%; Labor + 10% on dealer-installed components only.

New Reman Parts:
Parts @ Dealer net minus core value +15%; Labor + 10% on dealer-installed components only.

BATTERIES

Strong Box Batteries - File Battery claim

90 days or full replacement period *After 90 days or full replacement period*
Battery @ MDP Battery pro-rated at list
Labor 0.5hr +10%

Other Factory-Installed Batteries

File as service parts on machine warranty claim

ITEMS COVERED BY SEPARATE WARRANTIES

Please see SAM Section I Standard Warranty Subsection 65 for details.

Radios, other than Hitachi-branded Radios
Tires

AirIQ
Expander Pins
AFEX Fire Suppression Systems
Value Parts Inc. Undercarriage

#6

Component	Engine Only	Power Train	Power Train + Hydraulics	Comprehensive	Mainframe (Mining Only)
ENGINE - C&F and GWP ONLY					
Engine and All Components within	X	X	X	X	
Cylinder head and gasket	X	X	X	X	
Diesel Particulate Filter (DPF)	X	X	X	X	
ECU	X	X	X	X	
Electronic engine-speed-control system	X	X	X	X	
Engine block	X	X	X	X	
Engine mounts and support				X	
Engine oil cooler and aftercooler	X	X	X	X	
Engine oil lines				X	
Engine speed controls & linkages				X	
Engine speed controls & linkages - Excavators		X	X	X	
Filter mount				X	
Flywheel housing and gasket	X	X	X	X	
Front and rear engine seals	X	X	X	X	
Front damper	X	X	X	X	
Fuel lines				X	
Fuel tank and associated parts				X	
Fuel transfer pump & gasket				X	
Hydraulic actuator	X	X	X	X	
Injection nozzles	X	X	X	X	
Injection pump and gasket	X	X	X	X	
Manifolds and gaskets	X	X	X	X	
Oil filler tube				X	
Oil pan and gasket	X	X	X	X	
Pressure/temperature sensors and sending units	X	X	X	X	
Pressure/temperature sensors and sending units -EGR system manifold	X	X	X	X	
Pulleys				X	
Radiator and hoses				X	
Ring gear and flywheel	X	X	X	X	
Rocker arm cover and gasket	X	X	X	X	
Thermostats	X	X	X	X	
Timing gear cover	X	X	X	X	
Turbocharger and gaskets	X	X	X	X	
Water piping				X	
Water pump and gaskets	X	X	X	X	
ENGINE - For Selected Products With Hitachi Engines - EX1200, EX1900, EX3600 ONLY					
Camshaft		X	X		
Connecting rods		X	X		
Crankshaft		X	X		
Cylinder block		X	X		
Cylinder head and cover		X	X		
Fly wheel housing		X	X		
Fly wheel, vibration damper		X	X		
Oil pan (sump)		X	X		
Oil pan adapter		X	X		
Oil pump		X	X		
Rocker arm		X	X		
Timing gears and timing gear case		X	X		

Component	Engine Only	Power Train	Power Train + Hydraulics	Comprehensive	Mainframe (Mining Only)
EXCAVATORS: Hitachi Mining ONLY					
Main control valve		X	X		
Main/swing hydraulic pumps (excludes pilot and lubrication oil pumps)		X	X		
Propel transmissions (excludes sprockets)		X	X		
Pump transmissions		X	X		
Swing bearing		X	X		
Swing control valve (breakage only, excludes o-rings and seals)		X	X		
Swing motors		X	X		
Swing transmissions		X	X		
Travel motors		X	X		
TRANSMISSION/AXLES/HYDROSTATICS: C&F and CWP ONLY					
Accumulator and related relief valves (transmission)			X	X	
Axle(s) and differentials(s)		X	X	X	
Clutch housing (except dry clutch disk)		X	X	X	
Control rods				X	
Hydraulic Differential lock valve & associated parts			X	X	
Differential lock valve & associated parts				X	
Driveshaft with universal joints		X	X	X	
Electronic and/or hydraulic control valves		X	X	X	
Excavator rotary manifold		X	X	X	
External oil lines				X	
Filler tubes (transmission)				X	
Filter screens				X	
Final drive		X	X	X	
Front wheel-drive sensors (not wiring harness)		X	X	X	
Hydrostatic system components including: Propel motor, hydrostatic/hydraulic pump and related control valves powering propel and/or swing function (not dig function)		X	X	X	
Hydraulic-front-wheel-drive axle and wheel assembly (including drive pump and motor, electric control, solenoid control valve, and divider valve)		X	X	X	
Mechanical-front-wheel-drive differential/axle assembly with its driveshaft, universal joint and control		X	X	X	
Transmission Oil cooler			X	X	
Power take off clutch housing (Scraper Tractor Only)	X	X			
Pump and valve controller		X	X	X	
Reverser with control valve		X	X	X	
Sending units and sensors				X	
Shift-control linkage				X	
Splitter drive		X	X	X	
Swing motor and brake		X	X	X	
Swing gearbox and bearings		X	X	X	
Torque converter		X	X	X	
Tracked Feller-Buncher rotary manifold		X	X	X	
Transfer drive		X	X	X	
Transmission		X	X	X	

Component	Engine Only	Power Train	Power Train + Hydraulics	Comprehensive	Mainframe (Mining Only)
HYDRAULICS - C&F and CWP ONLY					
Control & load holding valves			X	X	
Cylinder packing kits			X	X	
Hydraulic cylinders			X	X	
Hydraulic oil cooler			X	X	
Hydraulic pumps & motors & related control valves			X	X	
Hydraulic reservoir			X	X	
Locking pin cylinder			X	X	
Pilot controls			X	X	
HYDRAULICS - Hitachi Mining ONLY					
Cylinder packing kits			X		
Hydraulic cylinders			X		
Steering Cylinder			X		
Hoist Cylinder			X		
Struts			X		
Transmission oil cooler			X		
Hydraulic tank			X		
BRAKES - C&F and CWP ONLY					
Brake accumulator (Articulated Dump Truck Only)			X	X	
Brake accumulator (Non ADT)			X	X	
Brake pump			X	X	
Brake valve			X	X	
Pressure reducing valve			X	X	
Unloading valve			X	X	
Brake pressure sensors			X	X	
Wet park brake pinion shaft, bearing, and bearing quill (motor graders only)		X	X	X	
Wet service brakes		X	X	X	
Wet steering brakes and clutches		X	X	X	
ELECTRO-HYDRAULICS - C&F and CWP ONLY					
Actuators (Drive Function)		X	X	X	
Controllers (Drive Function)		X	X	X	
Sensors (Drive Function)		X	X	X	
Actuators (Hydraulic Function)			X	X	
Controllers (Hydraulic Function)			X	X	
Sensors (Hydraulic Function)			X	X	
ELECTRICAL - C&F and CWP ONLY					
Alternator				X	
Gauges				X	
Indicators				X	
Instruments				X	
Sensors				X	
Sensors- Rotary		X	X	X	
Starter				X	
Starter (Scraper Tractor Only)	X				
Starter drive				X	
Starter solenoid				X	
Switches				X	
Voltage regulator				X	
Wiper motors				X	
Wiring harnesses				X	

Component	Engine Only	Power Train	Power Train + Hydraulics	Comprehensive	Mainframe (Mining Only)
FACTORY INSTALLED AIR, C&F and GWP ONLY					
Accumulator				X	
Clutch				X	
Compressor				X	
Condenser				X	
Dryer				X	
Evaporator				X	
Expansion valve				X	
Heater hose				X	
Pulley				X	
Seals & gaskets				X	
Temperature control programmer				X	
OTHER, C&F and GWP ONLY					
Bucket linkages				X	
Circle drive gearbox				X	
Fan & fan drive				X	
Fan Pumps & Motors (Hydraulic)			X	X	
Motor grader circle				X	
Scarifier & ripper linkages				X	
Waste-Handler Package hydraulic valves, pumps, & motors (Loaders only)			X	X	
Winch – factory installed only				X	
STEERING, C&F and GWP ONLY					
Axles				X	
Crossover relief valve			X	X	
Priority valve			X	X	
Secondary steering system components				X	
Spindles & supports				X	
Steering linkage				X	
Steering pump			X	X	
Steering valves and cylinders			X	X	
Tie rod & tie rod ends				X	
STRUCTURES (Must be submitted as a Structural Special Allowance) - C&F and GWP ONLY					
Arm				X	
Articulation joint (incl. pins & bushings)				X	
Bin frame				X	
Boom				X	
Car body				X	
C-frame				X	
Circle frame				X	
Dipperstick				X	
Draft frame				X	
Engine frame				X	
Equipment frame				X	
Forklift mast & frame				X	
Grapple arch and grapple boom				X	
Loader arm				X	
Loader frame				X	
Mainframe				X	
Moldboard lift arm				X	
Rollover protection structure (ROPS)				X	
Side frame				X	

Component	Engine Only	Power Train	Power Train + Hydraulics	Comprehensive	Mainframe (Mining Only)
Swing frame				X	
Track frame				X	
X-frame				X	
Z-bar				X	
PNEUMATIC COMPONENTS - Articulated Dump Truck Only					
Airline hoses & lines & fittings				X	
Air components of brake systems				X	
Dump body				X	
Four way protection valve				X	
Unloading valve				X	
ELECTRIC DRIVE COMPONENTS - 644K HYBRID					
Generator		X	X	X	
Electric Motor		X	X	X	
Power Electronics Inverter (DLR)		X	X	X	
Brake Resistor		X	X	X	
Motor Cable Assembly		X	X	X	
Generator Cable Assembly		X	X	X	
Brake Resistor Cable Assembly		X	X	X	
MECHANICAL DRIVE TRUCKS - Hitachi Mining ONLY					
Differential		X	X		
Engine coupler		X	X		
Planetaries		X	X		
Rear axle housing		X	X		
Rear axle shafts		X	X		
Rear wheel bearings		X	X		
Rear wheel seals		X	X		
Transmission		X	X		
Transmission ECU		X	X		
Wet disc brakes		X	X		
HITACHI MINING SHOVELS					
Boom					X
Arm					X
Car body					X
Mainframe					X
HITACHI RIGID FRAME TRUCKS					
Mainframe (see note below*)					X
*Hitachi Rigid Frame Truck mainframe warranty covers only the mainframe part and specifically does not cover the following components: cab, trailing arm, rear axle housing, travel device housing, rear axle link, body (vessel).					
ID Link / ZX Link - When Factory / Port Installed					
Controllers (GTT, GTL, MIG, MTG or SAT)		X	X	X	
Harnesses				X	
Cellular or satellite antennas				X	

END OF DOCUMENT