

REQUEST FOR PROPOSALS

- 13. Award RFP-4245-05/BJC – Term Contract for the Lease of Landfill Equipment, to Nortrax Equipment Company Southeast, L.P., Orlando.**

**B.C.C. - SEMINOLE COUNTY, FL
RFP TABULATION SHEET**

RFP NUMBER: RFP-4245-05/BJC
RFP TITLE: Term Contract for the Lease of Landfill Equipment
DUE DATE: March 30, 2005, at 2:00 P.M.

ALL RFP'S ACCEPTED BY SEMINOLE COUNTY ARE SUBJECT TO THE COUNTY'S TERMS AND CONDITIONS AND ANY AND ALL ADDITIONAL TERMS AND CONDITIONS SUBMITTED BY THE PROPOSERS ARE REJECTED AND SHALL HAVE NO FORCE AND EFFECT. RFP DOCUMENTS FROM THE CONSULTANTS LISTED HEREIN ARE THE ONLY RFP'S RECEIVED TIMELY AS OF THE ABOVE OPENING DATE AND TIME. ALL OTHER RFP DOCUMENTS SUBMITTED IN RESPONSE TO THIS SOLICITATION, IF ANY, ARE HEREBY REJECTED AS LATE.

Page 1 of 1

Response 1	Response 2	Response 3
Al-jon, Inc. 14599 2 nd Avenue Ottumwa, IA 52501 (641) 682-4506 – Phone (888) 255-6681 – Fax Lesley R. Bailey	Nortrax Equipment Company 4333 John Young Parkway Orlando, Florida 32804 (813) 323-2149 – Phone (813) 655-4685 – Fax Robert B. Rainey	Ring Power Corporation 9797 Gibsonton Drive Riverview, Florida 33569 (813) 671-3700 – Phone (813) 671-3054 – Fax Clark Ricke
Conflict of Interest Statement	Conflict of Interest Statement	Conflict of Interest Statement
Proposer's Certification: Included	Proposer's Certification: Included	Proposer's Certification: Included
Compliance with Public Records Included	Compliance with Public Records Included	Compliance with Public Records Included
Technical Information: Included	Technical Information: Included	Technical Information: Included
Past Performance Information: Included	Past Performance Information: Included	Past Performance Information: Included

The evaluation criteria is as follows:

- Cost proposal
- Technical Specifications and acceptability
- Past Performance / References

Posted: 3/30/2005 (4:00 PM) by Betsy J. Cohen
Recommendation of Award: TBD

Equipment	Al-Jon, Inc.	Nortrax Equipment	Ring Power
4.5 Cubic Yard Wheel Loader w/tires			
Lease Cost per Week		\$1,269.00	
Lease Cost per Month		\$3,806.00	\$5,673.00
Lease Cost Annually		\$45,672.00	\$68,076.00
38,000 Lbs Track Type Bulldozer			
Lease Cost per Week		\$2,066.00	
Lease Cost per Month		\$6,164.00	\$8,418.00
Lease Cost Annually		\$73,968.00	\$101,016.00
61,000 Lbs Track Type Bulldozer			
Lease Cost per Week		\$4,435.00	
Lease Cost per Month		\$13,306.00	\$14,447.00
Lease Cost Annually		\$159,672.00	\$173,964.00
82,500 Lbs Track Type Bulldozer			
Lease Cost per Week		\$4,435.00	
Lease Cost per Month		\$13,306.00	\$15,761.00
Lease Cost Annually		\$159,672.00	\$189,132.00
80,000 Landfill Compactor			
Lease Cost per Week	\$2,630.71	\$3,385.00	
Lease Cost per Month	\$11,399.75	\$10,155.00	\$12,090.00
Lease Cost Annually	\$136,797.00	\$121,860.00	\$145,080.00
120,000 Landfill Compactor			
Lease Cost per Week	\$3,703.00	\$5,301.00	
Lease Cost per Month	\$16,046.34	\$15,903.00	\$18,990.00
Lease Cost Annually	\$192,556.08	\$190,836.00	\$203,880.00
76,000 Lbs Track Excavator			
Lease Cost per Week		\$2,367.00	
Lease Cost per Month		\$7,102.00	\$7,288.00
Lease Cost Annually		\$85,224.00	\$87,456.00
35-Ton 3-Axle Articulated Truck w/tires			
Lease Cost per Week		\$2,551.00	
Lease Cost per Month (X 2)		\$15,308.00	\$23,866.00
Lease Cost Annually		\$183,696.00	\$286,392.00
4.5 Cubic Yard Wheel Loader w/o tires			
Lease Cost per Week		\$1,269.00	
Lease Cost per Month		\$3,806.00	\$5,500.00
Lease Cost Annually		\$45,672.00	\$66,000.00
35-Ton 3-Axle Articulated Truck w/o tires			
Lease Cost per Week		\$2,551.00	
Lease Cost per Month (X 2)		\$15,308.00	\$23,000.00
Lease Cost Annually		\$183,696.00	\$276,000.00

David Gregory/Seminole
04/13/2005 06:17 PM

To Betsy Cohen
cc Frank Raymond/Seminole@Seminole
bcc
Subject Fw: Landfill equipment

Betsy:

I support Nortrax's proposal. I am signing all forms and sending back to you.

DG

David Gregory
Solid Waste Manager
Seminole County
407/665-2022

----- Forwarded by David Gregory/Seminole on 04/13/2005 06:18 PM -----

Greg Regan/Seminole

04/12/2005 08:29 AM

To David Gregory/Seminole@Seminole
cc
Subject Landfill equipment

*To: Betsy Cohen
F.R. Raymond
04-13-05*

Dave

After reviewing the equipment proposals it is my recommendation to go with Nortrax. Ring Power has provided us with good machines and service but having worked with Nortrax in the past (during which time they also provided good machines and service) I see no reason to go the additional money.

Greg Regan
Operations Manager
Env. Ser. / Solid Waste Div.
Office 407 349-5539
Fax 407 349-2152
GRegan@seminolecountyfl.gov

--****Florida has a very broad Public Records Law. Virtually all written communications to or from State and Local Officials and employees are public records available to the public and media upon request. Seminole County policy does not differentiate between personal and business emails. E-mail sent on the County system will be considered public and will only be withheld from disclosure if deemed confidential pursuant to State Law.****

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RFP-4245-05/BJC -- Term Contract for the Lease of Landfill Equipment

APPLICANT(S) NAME:

Al-jon, Inc., Ottumwa, IA

Nortrax Equipment Company, Orlando, Florida

Ring Power Corporation, Riverview, Florida

- Nortrax offered the low price technically acceptable offer.

QUALIFICATION COMMITTEE MEMBERS:

David Gregory

Describe strengths, weaknesses and deficiencies to support your assessment.

Criteria: Cost Proposal

Nortrax offered the lowest price proposal

Highly Acceptable

Criteria: Technical Requirements

Nortrax offered equipment met the minimum performance specifications as outlined by the County.

Acceptable

Criteria: Past Performance

References contacted by the County offered satisfactory recommendations. Additionally Nortrax has provided satisfactory service to the County in the past.

Overall Rating:

Highly Acceptable ()

Marginal ()

Acceptable

Unsatisfactory

(X)

RFP-4245-05/BJC – Term Contract for the Lease of Landfill Equipment

APPLICANT(S) NAME:

Al-jon, Inc., Ottumwa, IA

Nortrax Equipment Company, Orlando, Florida –

Ring Power Corporation, Riverview, Florida

QUALIFICATION COMMITTEE MEMBERS:

G. REGAN

Describe strengths, weaknesses and deficiencies to support your assessment.

Criteria: Cost Proposal

NORTRAX PROVIDED THE BEST PRICE PROPOSAL

Criteria: Technical Requirements

NORTRAX MEET ALL REQUIREMENTS

Criteria: Past Performance

NORTRAX MEET PERFORMANCE STANDARDS

Overall Rating:

Highly Acceptable ()

Marginal ()

Acceptable

Unsatisfactory

(X)

()

RFP-4245-05/BJC – Term Contract for the Lease of Landfill Equipment

APPLICANT(S) NAME:

Al-jon, Inc., Ottumwa, IA
Nortrax Equipment Company, Orlando, Florida
Ring Power Corporation, Riverview, Florida

QUALIFICATION COMMITTEE MEMBERS:

Frank Raymond

Paul Sager

Describe strengths, weaknesses and deficiencies to support your assessment.

Criteria: Cost Proposal

Nortrax is the lowest cost, which ever
items are chosen
Highly Acceptable

Criteria: Technical Requirements

All equipment appear first rate &
Highly Acceptable

Criteria: Past Performance

a total of 8 references were checked
(those listed by Nortrax - 4 plus 4 references
given by Ring Power as possible negative references)
All checked out as positive regarding
Equip and Service
Highly Acceptable

Overall Rating:

Highly Acceptable

Marginal

(1)
()

Acceptable

Unsatisfactory

()
()

TERM AGREEMENT FOR LEASE OF LANDFILL EQUIPMENT (RFP-4245-05/BJC)

THIS AGREEMENT is made and entered into this _____ day of _____, 20____, by and between **NORTRAX EQUIPMENT COMPANY SOUTHEAST, L.P.**, duly authorized to conduct business in the State of Florida, whose address is 4333 John Young Parkway, Orlando, Florida 32804, hereinafter called the "CONTRACTOR" and **SEMINOLE COUNTY**, a political subdivision of the State of Florida, whose address is Seminole County Services Building, 1101 East First Street, Sanford, Florida 32771, hereinafter called the "COUNTY".

W I T N E S S E T H:

WHEREAS, the COUNTY desires to retain the services of a competent and qualified contractor to provide landfill equipmet on a lease basis for Seminole County; and

WHEREAS, the COUNTY has requested and received expressions of interest for the retention of services of contractors; and

WHEREAS, the CONTRACTOR is competent and qualified to provide landfill equipment on a lease basis to the COUNTY and desires to provide services according to the terms and conditions stated herein,

NOW, THEREFORE, in consideration of the mutual understandings and covenants set forth herein, the COUNTY and the CONTRACTOR agree as follows:

SECTION 1. SERVICES.

(a) The COUNTY does hereby retain the CONTRACTOR to furnish landfill equipment as further described in the Scope of Services attached hereto as Exhibit "A" and made a part hereof. The equipment shall be specifically enumerated, described and depicted in the Purchase Orders authorizing performance of the specific task. This Agreement standing alone does not authorize the performance of any work or require the COUNTY to place any orders for work.

(b) In addition to providing the landfill equipment as described above, the CONTRACTOR also agrees to provide the following services.

(1) If a unit is down for three (3) days in a year basis, a replacement unit shall be furnished. This applies to the first incident of downtime for any piece of equipment during the course of the initial lease period.

(2) If a piece of equipment experiences the total accrued downtime of ten (10) days per year with a total of thirty (30) days for the three (3) year contract period, regardless of the number of incidents, then a deduction of Two Hundred Fifty and No/100 Dollars (\$250.00) per day, or the daily rental rate charged by the CONTRACTOR for that equipment, or the cost to the COUNTY to obtain, rent and return a similar piece of equipment from an outside source (whichever of these is the greater amount) will be assessed against the CONTRACTOR for each day. In the event that an outside unit is rented, however, this cost will be the entire cost assessed.

(3) In the event that any unit is down for an accrued twenty (20) days per year, the COUNTY, at its sole discretion, may require the CONTRACTOR to replace this equipment with a new unit, while the obligation for the use of the old unit (or similar replacement unit) remains until the new unit is provided. If the COUNTY elects to require a new unit, the COUNTY must notify the CONTRACTOR in writing of such election. The CONTRACTOR will have a maximum of one hundred twenty (120) days to provide the new unit to the COUNTY, during which time all obligations and penalties/deductions for the original unit or similar replacement will remain intact. After one hundred twenty (120) days, failure of the vendor to provide the new contractual and legal remedies that apply to breach available. Note that in the case of rubber tired equipment, the Contractor's obligation to provide the repaired unit, or

a similar unit, will be to provide this unit with serviceable tires included, whether the COUNTY elected to lease the unit with tires or not. If the vendor cannot supply the repaired unit, or similar unit within the allotted time and the COUNTY elects to obtain a unit from outside the lease, the Contractor's penalty cost will be for a rental unit that includes tires, whether the COUNTY has elected to lease the unit with tires or not.

(4) All rubber tired units must be priced with and without tires included upon delivery. When pricing with the tires, include the specific size, type, brand, plies, etc. that the responder intends to provide. Note that, if the COUNTY elects to lease the equipment with tires, the terms will be that the COUNTY must return the unit at the end of the lease with tires that are inflated and have twenty percent (20%) of the original tread remaining. If the tires are not sufficient, the COUNTY will pay twenty percent (20%) of the replacement value of tires originally supplied, as determined by written quote at the time of return.

SECTION 2. TERM. This Agreement shall take effect on the date of its execution by the COUNTY and shall run for a period of three (3) years and, at the sole option of COUNTY, may be renewed for one (1) successive period not to exceed three (3) years each. Expiration of the term of this Agreement shall have no effect upon Purchase Orders issued pursuant to this Agreement and prior to the expiration date. Obligations entered therein by both parties shall remain in effect until delivery and acceptance of the services/equipment authorized by the Purchase Order. The first three (3) months of the initial terms shall be considered probationary; during that period the COUNTY may terminate this Agreement at any time, with or without cause, immediately upon written notice to the CONTRACTOR.

SECTION 3. AUTHORIZATION FOR SERVICES. Authorization for performance of services by the CONTRACTOR under this Agreement shall be in the form of written Purchase Orders issued and executed by the COUNTY and signed by the CONTRACTOR. A sample Purchase Order is attached hereto as Exhibit "B". Each Purchase Order shall describe the services and/or equipment required and shall state the dates for commencement and completion of work and establish the amount and method of payment. The Purchase Orders will be issued under and shall incorporate the terms of this Agreement. The COUNTY makes no covenant or promise as to the number of available Purchase Orders, nor that, the CONTRACTOR will perform any Purchase Order for the COUNTY during the life of this Agreement. The COUNTY reserves the right to contract with other parties for the services contemplated by this Agreement when it is determined by the COUNTY to be in the best interest of the COUNTY to do so. The COUNTY Representative will give the Primary CONTRACTOR first opportunity to perform all available work. If the COUNTY Representative, at its sole discretion, determines the Primary CONTRACTOR cannot perform, the Secondary CONTRACTOR will be contacted to perform the required work.

SECTION 4. TIME FOR COMPLETION. The services to be rendered by the CONTRACTOR shall be commenced, as specified in such Purchase Orders as may be issued hereunder, and shall be completed within the time specified therein.

SECTION 5. COMPENSATION. The COUNTY agrees to compensate the CONTRACTOR for the services called for under this Agreement on a "Fixed Fee" basis, based on the Lease amount for each piece of equipment shown on Exhibit "C" attached hereto. The total annual compensation paid to the CONTRACTOR pursuant to this Agreement, including reimbursable expenses, shall not exceed the amount annually budgeted by the COUNTY for lease of landfill equipment.

SECTION 6. PAYMENT AND BILLING.

(a) The CONTRACTOR shall perform all work and supply all materials required by the Purchase Order but, in no event, shall the CONTRACTOR be paid more than the negotiated Fixed Fee amount stated within each Purchase Order.

(b) Payments shall be made by the COUNTY to the CONTRACTOR when requested, but not more than once monthly. Each Purchase Order shall be invoiced separately. CONTRACTOR shall render to COUNTY, at the close of each calendar month, an itemized invoice properly dated, describing any services rendered, the cost of the services, the name and address of the CONTRACTOR, Purchase Order Number, Contract Number and all other information required by this Agreement.

The original invoice shall be sent to:

Director of County Finance
Seminole County Board of County Commissioners
Post Office Box 8080
Sanford, Florida 32772

A duplicate copy of the invoice shall be sent to:

Seminole County Environmental Services Department
500 W. Lake Mary Boulevard
Sanford, Florida 32773

(d) Payment shall be made after review and approval by COUNTY within thirty (30) days of receipt of a proper invoice from the CONTRACTOR.

SECTION 7. GENERAL TERMS OF PAYMENT AND BILLING.

(a) Upon satisfactory completion of work required hereunder and, upon acceptance of the work by the COUNTY, the CONTRACTOR may invoice the COUNTY for the full amount of compensation provided for under the terms of this Agreement herein less any amount already paid by the COUNTY. The COUNTY shall pay the CONTRACTOR within thirty (30) days of receipt of proper invoice.

(b) The COUNTY may perform or have performed an audit of the records of the CONTRACTOR after final payment to support final payment hereunder. This audit would be performed at a time mutually agreeable to the CONTRACTOR and the COUNTY subsequent to the close of the final fiscal period in which the last work is performed. Total compensation to the CONTRACTOR may be determined subsequent to an audit as provided for in subsection (b) of this Section, and the total compensation so determined shall be used to calculate final payment to the CONTRACTOR. Conduct of this audit shall not delay final payment as provided by subsection (a) of this Section.

(c) The CONTRACTOR agrees to maintain all books, documents, papers, accounting records and other evidences pertaining to work performed under this Agreement in such a manner as will readily conform to the terms of this Agreement and to make such materials available at the CONTRACTOR's office at all reasonable times during the Agreement period and for five (5) years from the date of final payment under the contract for audit or inspection as provided for in subsection (b) of this Section.

(d) In the event any audit or inspection conducted after final payment, but within the period provided in paragraph (c) of this Section reveals any overpayment by the COUNTY under the terms of the Agreement, the CONTRACTOR shall refund such overpayment to the COUNTY within thirty (30) days of notice by the COUNTY.

SECTION 8. RESPONSIBILITIES OF THE CONTRACTOR. Neither the COUNTY'S review, approval or acceptance of, nor payment for, any of the services or materials required shall be construed to operate as a waiver of any rights under this Agreement nor of any cause of action arising out of the performance of this Agreement and the CONTRACTOR shall be and always remain liable to the COUNTY in accordance with applicable law for

any and all damages to the COUNTY caused by the CONTRACTOR's negligent or wrongful performance of any of the services furnished under this Agreement.

SECTION 9. TERMINATION.

(a) The COUNTY may, by written notice to the CONTRACTOR terminate this Agreement or any Purchase Order issued hereunder, in whole or in part, at any time, either for the COUNTY'S convenience or because of the failure of the CONTRACTOR to fulfill its Agreement obligations. Upon receipt of such notice, the CONTRACTOR shall immediately discontinue all services affected unless the notice directs otherwise, and deliver to the COUNTY all data, drawings, specifications, reports, estimates, summaries, and any and all such other information and materials of whatever type or nature as may have been accumulated by the CONTRACTOR in performing this Agreement, whether completed or in process.

(b) If the termination is for the convenience of the COUNTY, the CONTRACTOR shall be paid compensation for services performed to the date of termination.

(c) If the termination is due to the failure of the CONTRACTOR to fulfill its Agreement obligations, the COUNTY may take over the work and prosecute the same to completion by other Agreements or otherwise. In such case, the CONTRACTOR shall be liable to the COUNTY for all reasonable additional costs occasioned to the COUNTY thereby. The CONTRACTOR shall not be liable for such additional costs if the failure to perform the Agreement arises without any fault or negligence of the CONTRACTOR; provided, however, that the CONTRACTOR shall be responsible and liable for the actions of its subcontractors, agents, employees and persons and entities of a similar type or nature. Such causes may include acts of God or of the public enemy, acts of the COUNTY in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restric-

tions, strikes, freight embargoes, and unusually severe weather; but, in every case, the failure to perform must be beyond the control and without any fault or negligence of the CONTRACTOR.

(d) If, after notice of termination for failure to fulfill its Agreement obligations, it is determined that the CONTRACTOR had not so failed, the termination shall be conclusively deemed to have been effected for the convenience of the COUNTY. In such event, adjustment in the Agreement price shall be made as provided in subsection (b) of this Section.

(e) The rights and remedies of the COUNTY provided for in this Section are in addition and supplemental to any and all other rights and remedies provided by law or under this Agreement.

SECTION 10. AGREEMENT AND PURCHASE ORDER IN CONFLICT. Whenever the terms of this Agreement conflict with any Purchase Order issued pursuant to it, the Agreement shall prevail.

SECTION 11. EQUAL OPPORTUNITY EMPLOYMENT. The CONTRACTOR agrees that it will not discriminate against any employee or applicant for employment for work under this Agreement because of race, color, religion, sex, age, disability, or national origin and will take steps to ensure that applicants are employed, and employees are treated during employment, without regard to race, color, religion, sex, age, disability, or national origin. This provision shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.

SECTION 12. NO CONTINGENT FEES. The CONTRACTOR warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for the CONTRACTOR to solicit or secure

this Agreement and that it has not paid or agreed to pay any person, company, corporation, individual or firm, other than a bona fide employee working solely for the CONTRACTOR, any fee, commission, percentage, gift, or other consideration contingent upon or resulting from award or making of this Agreement. For the breach or violation of this provision, the COUNTY shall have the right to terminate the Agreement at its sole discretion, without liability and to deduct from the Agreement price, or otherwise recover, the full amount of such fee, commission, percentage, gift, or consideration.

SECTION 13. CONFLICT OF INTEREST.

(a) The CONTRACTOR agrees that it will not contract for or accept employment for the performance of any work or service with any individual, business, corporation or government unit that would create a conflict of interest in the performance of its obligations pursuant to this Agreement with the COUNTY.

(b) The CONTRACTOR agrees that it will neither take any action nor engage in any conduct that would cause any COUNTY employee to violate the provisions of Chapter 112, Florida Statutes, relating to ethics in government.

(c) In the event that CONTRACTOR causes or in any way promotes or encourages a COUNTY officer, employee, or agent to violate Chapter 112, Florida Statutes, the COUNTY shall have the right to terminate this Agreement.

SECTION 14. ASSIGNMENT. This Agreement, or any interest herein, shall not be assigned, transferred, or otherwise encumbered, under any circumstances, by the parties hereto without prior written consent of the other party and in such cases only by a document of equal dignity herewith.

SECTION 15. SUBCONTRACTORS. In the event that the CONTRACTOR, during the course of the work under this Agreement, requires the services of any subcontractors or other professional associates in connection with services covered by this Agreement, the CONTRACTOR must first secure the prior express written approval of the COUNTY. If subcontractors or other professional associates are required in connection with the services covered by this Agreement, CONTRACTOR shall remain fully responsible for the services of subcontractors or other professional associates.

SECTION 16. INDEMNIFICATION OF COUNTY. The CONTRACTOR agrees to hold harmless, indemnify the COUNTY, its commissioners, officers, employees, and agents against any and all claims, losses, damages or lawsuits for damages, arising from, allegedly arising from or related to the provision of services hereunder by the CONTRACTOR.

SECTION 17. INSURANCE.

(a) GENERAL. The CONTRACTOR shall at the CONTRACTOR's own cost, procure the insurance required under this Section.

(1) Prior to commencement of work pursuant to this Agreement, the CONTRACTOR shall furnish the COUNTY with a Certificate of Insurance signed by an authorized representative of the insurer evidencing the insurance required by this Section (Workers' Compensation/Employer's Liability, Commercial General Liability, and Business Auto). The COUNTY, its officials, officers, and employees shall be named additional insured under the Commercial General Liability policy. The Certificate of Insurance shall provide that the COUNTY shall be given not less than thirty (30) days written notice prior to the cancellation or restriction of coverage. Until such time as the insurance is no longer required to be maintained by the CONTRACTOR, the CONTRACTOR shall provide the COUNTY with a renewal or replacement

Certificate of Insurance not less than thirty (30) days before expiration or replacement of the insurance for which a previous certificate has been provided.

(2) The Certificate shall contain a statement that it is being provided in accordance with the Agreement and that the insurance is in full compliance with the requirements of the Agreement. In lieu of the statement on the Certificate, the CONTRACTOR shall, at the option of the COUNTY submit a sworn, notarized statement from an authorized representative of the insurer that the Certificate is being provided in accordance with the Agreement and that the insurance is in full compliance with the requirements of the Agreement.

(3) In addition to providing the Certificate of Insurance, if required by the COUNTY, the CONTRACTOR shall, within thirty (30) days after receipt of the request, provide the COUNTY with a certified copy of each of the policies of insurance providing the coverage required by this Section.

(4) Neither approval by the COUNTY nor failure to disapprove the insurance furnished by a CONTRACTOR shall relieve the CONTRACTOR of the CONTRACTOR's full responsibility for performance of any obligation including CONTRACTOR indemnification of COUNTY under this Agreement.

(b) INSURANCE COMPANY REQUIREMENTS. Insurance companies providing the insurance under this Agreement must meet the following requirements:

(1) Companies issuing policies other than Workers' Compensation must be authorized to conduct business in the State of Florida and prove same by maintaining Certificates of Authority issued to the companies by the Department of Insurance of the State of Florida. Policies for Workers' Compensation may be issued by companies authorized

as a group self-insurer by Section 440.57, Florida Statutes.

(2) In addition, such companies other than those authorized by Section 440.57, Florida Statutes, shall have and maintain a Best's Rating of "A" or better and a Financial Size Category of "VII" or better according to A.M. Best Company.

(3) If, during the period which an insurance company is providing the insurance coverage required by this Agreement, an insurance company shall: 1) lose its Certificate of Authority, 2) no longer comply with Section 440.57, Florida Statutes, or 3) fail to maintain the requisite Best's Rating and Financial Size Category, the CONTRACTOR shall, as soon as the CONTRACTOR has knowledge of any such circumstance, immediately notify the COUNTY and immediately replace the insurance coverage provided by the insurance company with a different insurance company meeting the requirements of this Agreement. Until such time as the CONTRACTOR has replaced the unacceptable insurer with an insurer acceptable to the COUNTY the CONTRACTOR shall be deemed to be in default of this Agreement.

(c) SPECIFICATIONS. Without limiting any of the other obligations or liability of the CONTRACTOR, the CONTRACTOR shall, at the CONTRACTOR's sole expense, procure, maintain and keep in force amounts and types of insurance conforming to the minimum requirements set forth in this subsection. Except as otherwise specified in the Agreement, the insurance shall become effective prior to the commencement of work by the CONTRACTOR and shall be maintained in force until the Agreement completion date. The amounts and types of insurance shall conform to the following minimum requirements.

(1) Workers' Compensation/Employer's Liability.

(A) The CONTRACTOR's insurance shall cover the CONTRACTOR for liability which would be covered by the latest edition of

the standard Workers' Compensation Policy, as filed for use in Florida by the National Council on Compensation Insurance, without restrictive endorsements. The CONTRACTOR will also be responsible for procuring proper proof of coverage from its subcontractors of every tier for liability which is a result of a Workers' Compensation injury to the subcontractor's employees. The minimum required limits to be provided by both the CONTRACTOR and its subcontractors are outlined in subsection (c) below. In addition to coverage for the Florida Workers' Compensation Act, where appropriate, coverage is to be included for the United States Longshoremen and Harbor Workers' Compensation Act, Federal Employers' Liability Act and any other applicable federal or state law.

(B) Subject to the restrictions of coverage found in the standard Workers' Compensation Policy, there shall be no maximum limit on the amount of coverage for liability imposed by the Florida Workers' Compensation Act, the United States Longshoremen's and Harbor Workers' Compensation Act, or any other coverage customarily insured under Part One of the standard Workers' Compensation Policy.

(C) The minimum amount of coverage under Part Two of the standard Workers' Compensation Policy shall be:

\$100,000.00	(Each Accident)
\$100,000.00	(Disease-Policy Limit)
\$100,000.00	(Disease-Each Employee)

(2) Commercial General Liability.

(A) The CONTRACTOR's insurance shall cover the CONTRACTOR for those sources of liability which would be covered by the latest edition of the standard Commercial General Liability Coverage Form (ISO Form CG 00 01), as filed for use in the State of Florida by the Insurance Services Office, without the attachment of restrictive endorsements other than the elimination of Coverage C, Medical Payment and the elimination of coverage for Fire Damage Legal Liability.

(B) The minimum limits to be maintained by the CONTRACTOR (inclusive of any amounts provided by an Umbrella or Excess policy) shall be as follows:

	<u>LIMITS</u>
General Aggregate	\$Three (3) Times the Each Occurrence Limit
Personal & Advertising Injury Limit	\$300,000.00
Each Occurrence Limit	\$300,000.00

(3) Business Auto Policy.

(A) The CONTRACTOR'S insurance shall cover the CONTRACTOR for those sources of liability which would be covered by Part IV of the latest edition of the standard Business Auto Policy (ISO Form CA 00 01), as filed for use in the State of Florida by the Insurance Services Office, without the attachment of restrictive endorsements. Coverage shall include owned, non-owned and hired autos.

(B) The minimum limits to be maintained by the CONTRACTOR (inclusive of any amounts provided by an Umbrella or Excess policy) shall be per accident combined single limit for bodily injury liability and property damage liability. If the coverage is subject to an aggregate, the CONTRACTOR shall maintain separate aggregate limits of coverage applicable to claims arising out of or in connection with the work under this Agreement. The separate aggregate limits to be maintained by the CONTRACTOR shall be a minimum of three (3) times the per accident limit required and shall apply separately to each policy year or part thereof.

(C) The minimum amount of coverage under the Business Auto Policy shall be:

LIMITS

Each Occurrence Bodily
Injury and Property Damage
Liability Combined

\$300,000.00

(d) COVERAGE. The insurance provided by CONTRACTOR pursuant to this Agreement shall apply on a primary basis and any other insurance or self-insurance maintained by the COUNTY or the COUNTY'S officials, officers, or employees shall be excess of and not contributing with the insurance provided by or on behalf of the CONTRACTOR.

(e) OCCURRENCE BASIS. The Workers' Compensation Policy and the Commercial General Liability required by this Agreement shall be provided on an occurrence rather than a claims-made basis.

(f) OBLIGATIONS. Compliance with the foregoing insurance requirements shall not relieve the CONTRACTOR, its employees or agents of liability from any obligation under a Section or any other portions of this Agreement. It shall also be the responsibility of the CONTRACTOR to ensure that all of its subcontractors performing services under this Agreement are in compliance with the insurance requirements of this Agreement as defined above.

SECTION 18. ALTERNATIVE DISPUTE RESOLUTION.

(a) In the event of a dispute related to any performance or payment obligation arising under this Agreement, the parties agree to exhaust COUNTY protest procedures prior to filing suit or otherwise pursuing legal remedies. COUNTY procedures for proper invoice and payment disputes are set forth in Section 55.1, "Prompt Payment Procedures," Seminole County Administrative Code.

(b) CONTRACTOR agrees that it will file no suit or otherwise pursue legal remedies based on facts or evidentiary materials that were not presented for consideration in the COUNTY protest procedures set forth in subsection (a) above of which the CONTRACTOR had knowledge and

failed to present during the COUNTY protest procedures.

(c) In the event that COUNTY protest procedures are exhausted and a suit is filed or legal remedies are otherwise pursued, the parties shall exercise best efforts to resolve disputes through voluntary mediation. Mediator selection and the procedures to be employed in voluntary mediation shall be mutually acceptable to the parties. Costs of voluntary mediation shall be shared equally among the parties participating in the mediation.

SECTION 19. REPRESENTATIVES OF THE COUNTY AND THE CONTRACTOR.

(a) It is recognized that questions in the day-to-day conduct of performance pursuant to this Agreement will arise. The COUNTY, upon request by the CONTRACTOR, shall designate in writing and shall advise the CONTRACTOR in writing of one (1) or more of its employees to whom all communications pertaining to the day-to-day conduct of this Agreement shall be addressed. The designated representative shall have the authority to transmit instructions, receive information and interpret and define the COUNTY'S policy and decisions pertinent to the work covered by this Agreement.

(b) The CONTRACTOR shall, at all times during the normal work week, designate or appoint one or more representatives of the CONTRACTOR who are authorized to act in behalf of and bind the CONTRACTOR regarding all matters involving the conduct of the performance pursuant to this Agreement and shall keep the COUNTY continually and effectively advised of such designation.

SECTION 20. ALL PRIOR AGREEMENTS SUPERSEDED. This document incorporates and includes all prior negotiations, correspondence, conversations, agreements or understandings applicable to the matters contained herein and the parties agree that there are no commitments, agreements or understandings concerning the subject matter of this

Agreement that are not contained or referred to in this document. Accordingly, it is agreed that no deviation from the terms hereof shall be predicated upon any prior representations or agreements, whether oral or written.

SECTION 21. MODIFICATIONS, AMENDMENTS OR ALTERATIONS. No modification, amendment or alteration in the terms or conditions contained herein shall be effective unless contained in a written document executed with the same formality and of equal dignity herewith.

SECTION 22. INDEPENDENT CONTRACTOR. It is agreed that nothing herein contained is intended or should be construed as in any manner creating or establishing a relationship of co-partners between the parties, or as constituting the CONTRACTOR (including its officers, employees, and agents) the agent, representative, or employee of the COUNTY for any purpose, or in any manner, whatsoever. The CONTRACTOR is to be and shall remain forever an independent contractor with respect to all services performed under this Agreement.

SECTION 23. EMPLOYEE STATUS. Persons employed by the CONTRACTOR in the performance of services and functions pursuant to this Agreement shall have no claim to pension, workers' compensation, unemployment compensation, civil service or other employee rights or privileges granted to the COUNTY'S officers and employees either by operation of law or by the COUNTY.

SECTION 24. SERVICES NOT PROVIDED FOR. No claim for services furnished by the CONTRACTOR not specifically provided for herein shall be honored by the COUNTY.

SECTION 25. PUBLIC RECORDS LAW. CONTRACTOR acknowledges COUNTY'S obligations under Article I, Section 24, Florida Constitution and Chapter 119, Florida Statutes, to release public records to members of the public upon request. CONTRACTOR acknowledges that COUNTY is required

to comply with Article I, Section 24, Florida Constitution and Chapter 119, Florida Statutes, in the handling of the materials created under this Agreement and that said statute controls over the terms of this Agreement.

SECTION 26. COMPLIANCE WITH LAWS AND REGULATIONS. In providing all services pursuant to this Agreement, the CONTRACTOR shall abide by all statutes, ordinances, rules, and regulations pertaining to, or regulating the provisions of, such services, including those now in effect and hereafter adopted. Any violation of said statutes, ordinances, rules, or regulations shall constitute a material breach of this Agreement, and shall entitle the COUNTY to terminate this Agreement immediately upon delivery of written notice of termination to the CONTRACTOR.

SECTION 27. NOTICES. Whenever either party desires to give notice unto the other, it must be given by written notice, sent by registered or certified United States mail, with return receipt requested, addressed to the party for whom it is intended at the place last specified and the place for giving of notice shall remain such until it shall have been changed by written notice in compliance with the provisions of this Section. For the present, the parties designate the following as the respective places for giving of notice, to-wit:

FOR COUNTY:

Environmental Services Department
500 W. Lake Mary Blvd.
Sanford, FL 32773

FOR CONTRACTOR:

Nortrax Equipment Company Southeast, L.P.
4333 John Young Parkway
Orlando, FL 32804

SECTION 28. RIGHTS AT LAW RETAINED. The rights and remedies of the COUNTY, provided for under this Agreement, are in addition and

supplemental to any other rights and remedies provided by law.

IN WITNESS WHEREOF, the parties hereto have made and executed this Agreement on the date below written for execution by the COUNTY.

NORTRAX EQUIPMENT COMPANY
SOUTHEAST, L.P.

Witness

By: _____

Witness

Date: _____

WITNESSES:

SEMINOLE COUNTY, FLORIDA

By: _____
J. KEVIN GRACE, County Manager

Date: _____

For the use and reliance
of Seminole County only.

Within authority of Resolution
No. 93-R-71 adopted February 23,
1993.

Approved as to form and
legal sufficiency.

County Attorney
AC/lpk
4/14/05
rfp-4245

Attachments:

- Exhibit "A"- Scope of Services
- Exhibit "B"- Sample Purchase Order
- Exhibit "C"- Lease Schedule

PERFORMANCE BOND
(100% of the annual cost of the agreement)
Seminole County Contract No. RFP-4245-05/BJC

KNOW ALL MEN BY THESE PRESENTS: that

(Name of CONTRACTOR)

(Address of CONTRACTOR)

Contractor's Telephone Number: _____

a _____, hereinafter
(Corporation, Partnership or Individual)

called Principal, and _____
(Name of Surety)

(Address of Surety)

Surety's Telephone Number: _____

hereinafter called Surety, are held and firmly bound unto SEMINOLE COUNTY, 1101 East First Street, Sanford, Florida 32771, hereinafter called COUNTY, in the sum of _____ (\$_____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents. The sum shall not be less than one hundred percent (100%) of the Annual Cost of the Agreement.

Seminole County's Telephone Number: (407) _____. THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain Agreement with the COUNTY, dated the _____ day of _____, 20____, a copy of which is hereto attached and made a part hereof for the term contract for Lease of Landfill Equipment.

General description of the Work: Seminole County is requesting proposals for a term contract for the lease of equipment to be utilized for the County's Landfill operations. Technical specifications are included in the solicitations. Authorization for performance of services/delivery by the Contractor under this agreement shall be in the form of written Release Orders issued and executed by the County on an as-needed basis.

This Bond is being entered into to satisfy the requirements of Section 255.05, Florida Statutes and the Agreement referenced above, as the same may be amended.

NOW, THEREFORE, the condition of this obligation is such that if Principal:

1. Promptly and faithfully performs its duties, all the covenants, terms, conditions, and agreements of said Agreement including, but not limited to the insurance provisions, guaranty period and the warranty provisions, in the time and manner prescribed in the Agreement, and

2. Pays COUNTY all liquidated damages, losses, damages, delay damages, expenses, costs and attorneys' fees, including costs and attorney's fees on appeal that COUNTY sustains resulting directly or indirectly from any breach or default by Principal under the Agreement, and

3. Satisfies all claims and demands incurred under the Agreement, and fully indemnifies and holds harmless the COUNTY from all costs and damages which it may suffer by reason or failure to do so, then this bond is void; otherwise it shall remain in full force and effect.

The coverage of this Performance Bond is co-equal with each and every obligation of the Principal under the above referenced Agreement and the Contract Documents of which the Agreement is a part.

In the event that the Principal shall fail to perform any of the terms, covenants and conditions of the Agreement and the Contract Documents of which the Agreement is a part during the period in which this Performance Bond is in effect, the Surety shall remain liable to the COUNTY for all such loss or damage (including reasonable attorneys' fees and costs and attorneys' fees and costs on appeal) resulting from any failure to perform.

In the event that the Surety fails to fulfill its obligations under this Performance Bond, then the Surety shall also indemnify and hold the COUNTY harmless from any and all loss, damage, cost and expense, including reasonable attorneys' fees and costs for all trial and appellate proceedings, resulting from the Surety's failure to fulfill its obligations hereunder. This subsection shall survive the termination or cancellation of this Performance Bond.

The Surety stipulates and agrees that its obligation is to perform the Principal's Work under the Agreement under the Bond. The following preventative options by the Surety are encouraged; however, preventative options shall not be considered performance under the Bond: (i) Surety's financing of the Principal to keep Principal from defaulting under the Contract Documents, and (ii) Surety's offers to COUNTY to buy back the Bond. The Surety agrees that its obligation under the bond is to: (i) take over performance of the Principal's Work and be the completing Surety even if performance of the Principal's Work exceeds the Principal's Contract Price or (ii) re-solicit and re-let the Principal's Work to a completing contractor with Surety remaining liable for the completing contractor's performance of the Principal's Work and furnishing adequate funds to complete the Work. The Surety acknowledges that its cost of completion upon default by the Principal may exceed the Contract Price. In any event, the Principal's Contract Time is of the essence and applicable delay damages are not waived by COUNTY.

The Surety, for value received, hereby stipulates and agrees that its obligations hereunder shall be direct and immediate and not conditional or contingent upon COUNTY's pursuit of its remedies against Principal, shall remain in full force and effect notwithstanding (i) amendments or modifications to the Agreement entered into by COUNTY and Principal without the Surety's knowledge or consent (ii) the discharge of Principal as a result of any proceeding initiated under the Bankruptcy Code of 1978, as the same may be amended, or any similar state or federal law, or any limitation of the liability of Principal or its estate as a result of any such proceeding. The filing of bankruptcy by the principal shall be an automatic default under the Agreement.

Any changes in or under the Agreement and Contract Documents and compliance or noncompliance with any formalities connected with the Agreement or the changes therein shall not affect Surety's obligations under this Bond and Surety hereby waives notice of any such changes. Further, Principal and Surety acknowledge that the Sum of this Bond shall increase or decrease in accordance with Amendments (unilateral or directive amendments and bilateral amendments) or other modifications to the Agreement and Contract Documents.

This Performance Bond is intended to comply with the requirements of Section 255.05, Florida Statutes, as amended, and additionally, to provide contract rights more expansive than as required by statute.

IN WITNESS WHEREOF, this instrument is executed this the _____ day of _____, 20____.

ATTEST:

By _____
(Principal) Secretary

Name _____
(Print)

(Corporate Seal)

Company Address

Witness to Principal

Witness to Principal

ATTEST:

By _____
(Surety) Secretary

Name _____
(Type)

(Corporate Seal)

Witness as to Surety

Name _____
(Type)

Witness as to Surety

Principal (Contractor)

By _____

Name _____
(Print)

Name: _____
(Print)

Name: _____
(Print)

Surety

Phone No. _____

Fax No. _____

By _____
Attorney-in-fact

Name _____
(Type)

Name _____
(Type)

Address _____

Phone No. _____
Fax No. _____

NOTE: Date of the Bond must not be prior to date of Agreement. If CONTRACTOR is a joint venture, all venturers shall execute the Bond. If CONTRACTOR is Partnership, all partners shall execute the Bond.

IMPORTANT: Surety companies executing Bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State of Florida, unless otherwise specifically approved in writing by COUNTY.

ATTACH a certified copy of Power-of-Attorney appointing individual Attorney-in-Fact for execution of Performance Bond on behalf of Surety.

EXHIBIT A**Section 5
Price Proposal**

PROJECT: **RFP-4245-05/BJC – TERM CONTRACT FOR THE LEASE OF LANDFILL EQUIPMENT**

Name of Proposer: Nortrax Equipment Company-Southeast L.P.

Mailing Address: 4333 John Young Parkway

Street Address: Same

City/State/Zip: Orlando, FL 32804

Phone Number: (813) 323-2149

FAX Number: (813) 655-4685

Pursuant to and in compliance with the Request for Proposals, Instructions to Proposers, and the other documents relating thereto, the undersigned Proposer, having familiarized himself with the terms of the Contract Documents, local conditions affecting the performance of the Work, and the cost of the Work at the places where the Work is to be done, hereby proposes and agrees to provide Lease of Landfill Equipment on an as needed basis including all of the labor, material, and tools, equipment, and all transportation services necessary in connection with the required services, all in strict conformity Contract Documents, including Addenda Nos. 1 through 1, on file at the Purchasing Division for the amount hereinafter set forth.

The undersigned, as Proposer, declares that the only persons or parties interested in this proposal as principals are those named herein; that this proposal is made without collusion with any person, firm or corporation; and he proposes and agrees, if the proposal is accepted, that he/she will execute an Agreement with the COUNTY in the form set forth in the Contract Documents; that he/she will furnish Insurance Certificates, that he is aware that failure to properly comply with the requirements set out in the "Instructions to Proposers" and elsewhere in the Contract Documents may result in a finding that the Proposer is non-responsive and may cause a forfeiture of the Proposal Security, if applicable.

Total Price proposal: \$ 3,061,800.00 (without Alternate Price Proposal)

Performance Bond: \$ 4,100.00 (Include the cost for providing Performance Bond on a year basis despite the Bond will be required for the entire contract period).

Company customary response time after notification for:

A) Parts: 8-24 Hours

B) Service: 4-8 Hours

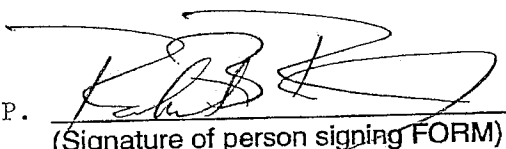
Quantity	Description	Lease Cost per Week	Lease Cost per Month	Lease Cost Annually
1	4.5 Cubic Yard Wheel Loader – With Tires	\$1,269.00	\$ 3,806.00	\$45,672.00
1	38,000 Lbs Track Type Bulldozer LGP Landfill Use	\$2,055.00	\$ 6,164.00	\$73,968.00
1	61,000 Lbs Track Type Bulldozer Landfill Use	\$4,435.00	\$ 13,306.00	\$159,672.00
1	82,500 Lbs Track Type Bulldozer Landfill Use	\$4,435.00	\$ 13,306.00 ¹	\$159,672.00
1	80,000 Lbs Landfill Compactor	\$3,385.00	\$ 10,155.00	\$121,860.00
1	120,000 Lbs Landfill Compactor	\$5,301.00	\$ 15,903.00	\$190,836.00
1	76,000 Lbs Track Excavator	\$2,367.00	\$ 7,102.00	\$85,224.00
2	35-Ton Three Axle Articulated Truck – With Tires	\$2,551.00	\$ ^{Each} 7,654.00/ ^{Two} 15,308.00	\$ 183,696.00
TOTAL PRICE PROPOSAL FOR THE EQUIPMENT				\$ 1,020,600.00

Alternate Bid Proposal:

Quantity	Description	Lease Cost per Week	Lease Cost per Month	Lease Cost Annually
1	4.5 Cubic Yard Wheel Loader – Without Tires	\$1,269.00	\$ 3,806.00	\$45,672.00
2	35-Ton Three Axle Articulated Truck – Without Tires	\$ 2,551.00	\$ 7,654.00/ 15,308.00	\$ 183,696.00

IN WITNESS WHEREOF, PROPOSER has hereunto executed this FORM this 29th day of March, 2005.

Nortrax Equipment Company-Southeast L.P.
(Name of PROPOSER)


(Signature of person signing FORM)

Robert B. Rainey
(Printed name of person signing FORM)

Governmental Sales Manager
(Title of person signing FORM)



SEMINOLE COUNTY

**Department of Fiscal Services
Purchasing and Contracts Division**

1101 East First Street
Room 3208

Sanford, FL 32771

Phone: 407-665-7116; Fax: 407-665-7956

To: PROSPECTIVE PROPOSERS AND ALL OTHERS CONCERNED
From: Betsy J. Cohen, CPPB, Purchasing Supervisor
Subject: RFP-4245-05/BJC – Term Contract for the Lease of Landfill Equipment
Due Date: March 30, 2005 @ 2:00 PM

ADDENDUM #1

Total pages: 3

The information included in this Addendum revises, clarifies, or supplements the specifications and other provisions of the contract documents and is considered part and parcel to the RFP Package.

Failure to acknowledge receipt of this addendum on the submittal may result in disqualification of your bid response.

Signature on File

Betsy J. Cohen, CPPB
Purchasing Supervisor

(1) Page #2 of the RFP Documents – Section 1 – General Description of Services. Lease and Maintenance Section has been revised as follows:

Lease and Maintenance:

The County is looking for a three-year Lease including full maintenance and warranty for the lease equipment. The Contractor shall provide the County with one operator's manual per piece of equipment.

The Proposer must comply with the following requirements:

- A) If the unit is down for three (3) days in a year-basis, a replacement unit shall be furnished. This applies to the first incident of downtime for any piece of equipment during the course of the initial lease period.
- B) If a piece of equipment experiences the total accrued downtime of 10 days per year with a total of 30 days for the three (3) year contract-period, regardless of the number of incidents, then a deduction of \$250 per day, or the daily rental rate charged by the vendor for that equipment, or the cost to the County to obtain, rent and return a similar piece of equipment from an outside source, (whichever of these is the greater amount) will be assessed against the vendor for each day. In the event that an outside unit is rented, however, this cost will be the entire cost assessed.
- C) In the event that any unit is down for an accrued 20 days in a year-basis, the County, at its sole discretion, may require the vendor to replace this equipment with a new unit, while the obligation for the use of the old unit (or similar replacement unit) remains until the new unit is provided. If the County elects to require a new unit, the County must notify the vendor in writing of such election. The Contractor will have a maximum of 120 days to provide the new unit to the County, during which time all obligations and penalties/deductions for the original unit or similar replacement will remain intact. After 120 days, failure of the vendor to provide the new unit to the County will be deemed as a breach of contract, and the County will have all contractual and legal remedies that apply to breach available. Note that in the case of rubber tired equipment, the Contractor's obligation to provide the repaired unit, or a similar unit, will be to provide this unit with serviceable tires included, whether the County elected to lease the unit with tires or not. If the vendor cannot supply the repaired unit, or similar unit within the allotted time and the County elects to obtain a unit from outside the lease, the Contractor's penalty cost will be for a rental unit that includes tires, whether the County has elected to lease the unit with tires or not.
- D) All rubber tired units must be priced with and without the tires included upon delivery. When pricing with the tires, include the specific size, type, brand, plies, etc. that the responder intends to provide. Note that, if the County elects to lease the equipment with tires, the terms will be that the County must return the unit at the end of the lease with tires that are inflated and have 20% of the original tread remaining. If the tires are not sufficient, the County will pay 20% of the replacement value of tires originally supplied, as determined by written quote at the time of return.

(2) Specifications are meant to establish basic guidelines. Applicants must indicate in the space provided in the package, any and all exceptions deviating from the specifications provided. The Evaluation Committee will evaluate all proposed equipment based on the overall components and performance of the equipment.

Addendum #1
RFP-4245-05/BJC
March 21, 2005

(3) All pieces of equipment must be pre-wire to accept County's radio. This specification governs over previous specification in the RFP documents regarding same function.

(4) Page – Specifications 15-14:

5 (A) (a) should read:

Minimum operating weight, including ROPS cab, landfill blade and 48 inches wheels will be 80,000 lbs.

(5) Page – Specifications 15-1:

1 (C) (k) – delete - Should be continuation of (j).

(6) Page – Specifications 15-9:

3 (F) (k) – Should read:

Front & rear striker bars

(7) Page – Specifications 15-12:

4 (F) (h) should read:

Shoes shall be standard width of 22"...

The following is the historical information of the last 2 years regarding hourly usage:

Estimated Hours:

735's (X 2) = 1600 (avg)

950G = 2150

D8R = 2330

D6R = 2300

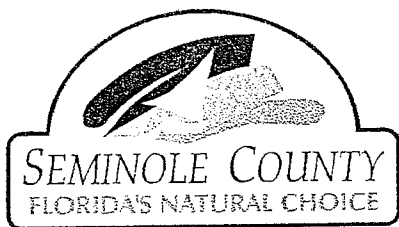
330CL = 1460

826 = approx 2300 hours

D7R = 2300

END OF ADDENDUM #1





SEMINOLE COUNTY

**Department of Fiscal Services
Purchasing and Contracts Division**

1101 East First Street

Room 3208

Sanford, FL 32771

Phone: 407-665-7116; Fax: 407-665-7956

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RFP-4245-05/BJC
March 21, 2005

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D6R = 2300

330CL = 1460

826 = approx 2300 hours

D7R = 2300

END OF ADDENDUM #1



1) **ONE 4.5 CUBIC YARD WHEEL LOADER**

This machine shall be a new, currently advertised standard production Wheel Loader.

A. General machine configuration:

- a. Basic operating weight **shall** be no less than 41,820 lbs. Comparably equipped weight includes lubricants, coolant, full fuel tank, operator, general purpose bucket with bolt-on cutting edge, 23.5x25, 12 PR (L-2) tires and ROPS cab.
- b. Machine **shall** be equipped with the following:
 1. two [2] 4.5 material-handling buckets, one with bolt on bucket cutting edge, other with rubber bolt on blade, with hydraulic quick coupler, and full width QC stacking rake.
 2. The unit will be with or without tires, the rims shall be for 23.5x25 12 PR tires.
 3. Four fronts and two rear working lights, two rear stop and taillights.
 4. Back-up alarm.
 5. Shall have auto reversing fan with cab override.

B. General operating specifications and dimensions

- a. Full turn static tipping load shall be at least 23,500lb. Machine shall be equipped with material handling bucket and bolt-on cutting edge; without optional counterweight or tire ballast.
- b. Breakout force shall be measured 4 inches behind tip of bucket cutting edge in accordance with SAE J732C. It **shall** not be less than 31,000lb.
- c. Dump height at full lift and 45 degree discharge **shall** be minimum of 9 ft. 2in. when bucket is equipped with bolt-on cutting edge.
- d. Reach at full lift and 45 degree discharge shall be a minimum 4 ft. 4 in. when bucket is equipped with bolt-on cutting edge.
- e. Bucket **shall** have a maximum width of 9 ft. 7 in. when bucket is equipped with bolt-on cutting edge.
- f. Minimum bucket rack back angle shall be at least 45 degrees in carry Position.
- g. Overall machine length with bucket on ground **shall** be no more than 27 ft. 3 in. when bucket is equipped with bolt-on cutting edge.
- h. Machine ground clearance shall not be less than 16 inches.
- i. Fuel tank refill capacity **shall** not be less than 68 gallons.

C. Engine

- a. Engine **shall** be designed and built by the machine manufacturer.
- b. Fully equipped, six cylinder, four stroke diesel type with all necessary operating accessories.
- c. Engine shall have individual unit-type fuel injectors.
- d. **Shall** have displacement of not less than 7.2 liter.
- e. Engine shall be turbocharged and maintain full rated horsepower to a minimum of 7,500 ft. altitude.
- f. Engine air cleaner shall be dual element dry-type with a service indicator and the air intake system shall include a precleaner.
- g. Wheel loader **shall** be equipped with an electronically controlled air inlet heater as an alternative to ether for cold weather starting.

- h. Machine shall be equipped with 24 volt electric system for starting and operating, with a 70 amp. alternator.
- i. An electrical disconnect switch shall be standard.
- j. Radiator core shall be repairable/replaceable in sections rather than as a
- k. Complete unit.

D. Transmission / power train

- a. Transmission and other major power train components, such as the axles, **shall** be designed and manufactured by the equipment manufacture.
- b. Automatic transmission shall be of powershift design, capable of making speed and direction changes at full speed without engine deceleration.
- c. Transmission shall automatically select gears above first. The operator shall be able to select the highest gear to which the transmission will automatically shift.
- d. Machine **shall** have a lift-lever mounted, transmission gear kickdown button capable of making 4th to 3rd, 3rd to 2nd, and 2nd to 1st gear shift.
- e. Both speed and direction changes **shall** be actuated by a single control lever mounted on the steering column.
- f. Transmission shall also offer fully manual shifting for 1st, 2nd, 3rd and 4th gear.
- g. Machine shall have a transmission sight gauge showing transmission fluid level.
- h. Machine **shall** have four speeds forward and four speeds reverse.
- i. Power train **shall** use a vertically mounted spin-on filter to minimize oil spillage during filter change.
- j. A single-stage, single-phase torque converter **shall** be standard.
- k. Final drives shall be planetary design.
- l. Rear axle **shall** not have less than 26 degrees total oscillation.

E. Brakes

- a. Machine shall have oil disc-type, adjustment-free service brakes which are inboard mounted and sealed from water, mud and dust.
- b. Machine **shall** have two brake pedals. Activation switch allows left brake pedal to switch between a brake / neutralizer or brake only function.
- c. Machine shall have audible alarm and **red** light to warn the operator if the service brake actuating pressure drops below a safe operating level.
- d. If service brake actuating pressure drops below a safe operating level, the secondary brake shall be applied automatically.
- e. Service brake actuation shall be of independent front and rear hydraulic circuits providing effective braking in the event of partial system malfunction.

F. Steering

- a. Machine shall have center-point articulation and at least 40 degree with neutralizer, articulated steering.
- b. Machine shall have full hydraulic load sensing steering circuit.
- c. Machine turning radius **shall** not exceed 238 inches as measured at the outside of tires.

G. Bucket two

- a. One Loader bucket shall include an integral spill plate and bolt-on bottom wear Plate with quick coupler, other bucket shall include bolt on rubber blade w/quick coupler, and QC full width stacking rake..

H. Front and rear frames

- a. Loader linkage **shall** be z-bar type for high breakout force.
- b. Loader lift arms **shall** be constructed of one solid plate to provide good strength and visibility.
- c. Rear frame **shall** be of modular design to absorb shock loads and resist twisting and bending.
- d. Machine shall be equipped with a rear towing and retrieval connection.
- e. Articulation joint **shall** have a single mechanical locking device to prevent frame articulation while servicing or transporting machine.

I. Hitch

- a. Articulation joint **shall** have double tapered roller bearings in the upper and lower hitch for long life.

J. Hydraulics

- a. Hydraulic system shall be fully filtered and completely sealed.
- b. Hydraulic pressure taps shall be provided for checking pressure in the hydraulic implement and steering systems.
- c. Steering hydraulic system shall have a dedicated pump and be independent of the implement hydraulics.
- d. Hydraulic cycle time **shall** be no more than 10.7 seconds, measured with a rated bucket load.
- e. Loader shall have automatic bucket positioner and lift kickout. Bucket positioner and lift kickoff shall be adjustable to different bucket angles and lift heights, respectively.
- f. Locking devices shall be capable of temporarily disabling the levers which controls the transmission.

K. Operator's compartment

- a. Integral ROPS cab shall be standard.
- b. Cab shall be sound suppressed and meet both current OSHA and MSHA standards for operator sound.
- c. Cab operator sound level **shall** be no more then 80dBA with doors and windows closed.
- d. Cab shall include a heater/defroster.
- e. Cab **shall** not have any curved glass. All glass will be rubber mounted for ease of replacement (each panel to be in separate frame with debris guard)
- f. Cab shall have pressurized and filtered air circulation system.
- g. Cab shall be mounted on the rear frame of the machine.

- h. Machine **shall** be equipped with a multilevel warning system which will signal machine and component malfunctions. System should differentiate between major and minor malfunctions. Warning system **shall** record occurrences of periodic malfunctions.
- i. Steering wheel and transmission control lever **shall** be adjustable as a single unit.
- j. Operator's seat **shall** be a cloth-covered suspension-type with adjustments, for height, weight, fore/aft and suspension dampening. Seat **shall** include adjustable armrests on left and right.
- k. Cab **shall** be pre-wired with electric voltage converter, speakers and antenna for installation of a radio.
- l. Operator's compartment **shall** include a 3 inch wide seat belt which is retractable and non-cinching.
- m. Cab **shall** have windshield wipers with an in-the-blade washer delivery system for the front and rear windows. Front wiper **shall** have intermittent capability and sun screen.
- n. Cab **shall** have internally-mounted rear-view mirrors.

L. Attachments (optional equipment)

- a. Power train guards for landfill use (driveshaft, axle seal, crankcase, hydraulic tank, fuel tank, headlight, steering cylinder).
- b. Air conditioning system for the operator's compartment that uses environmentally safe R134a refrigerant.

Proposers must include in the space provided, any and all exceptions for the 4.5 Cubic Yard Wheeler Loader: Indicate the Category and Subcategory when addressing exceptions.

EXCEPTIONS: This unit offered is a DEERE 644J Waste Handler Loader with the Deere Standard Waste Handler Package, JRB Coupler, JRB Buckets and Rake. Specifications match the class size and equipment desired as indicated by these specifications. Since this was presented as a recommended spec there are too many minor differences to list them all. The unit offered will perform with or exceed the specifications.
For the unit supplied with tires we would offer the 23.5 X 25 20PR-L3 as the preferred tire for this operation.

(Please include additional pages as necessary under this section)

1 8 0 S A E N E T H O R S E P O W E R



JOHN DEERE

J

LOADER

644J



WASTE HANDLER

Specifications

Engine	644J WH
Type	John Deere PowerTech™ 6081H with altitude-compensating turbocharger and aftercooler; meets EPA Tier II non-road emissions regulations
Rated Power	180 SAE net hp (134 kW) / 205 SAE gross hp (153 kW) @ 2,200 rpm
Cylinders	6
Displacement	496 cu. in. (8.1 L)
Maximum Net Torque	745 lb.-ft. (1010 Nm) @ 1,300 rpm
Lubrication	pressure system with full-flow spin-on filter and cooler
Fuel Consumption, Typical	2.9 to 5.0 gal./hr. (10.9 to 18.8 L/h)
Cooling Fan	blower type, hydraulically driven, reversible swing out
Electrical System	24 volt with 80-amp alternator
Batteries (two 12 volt)	750 CCA; reserve capacity: 150 min. — standard / 950 CCA; reserve capacity: 200 min. — optional
Air Cleaner	dual safety element dry type; restriction indicator for service

Transmission		
Type	single-stage, single-phase torque converter; countershaft-type powershift with computer control	
Controls	smooth shifts under any power condition provided by computer-controlled electronic shift with individual electronic control over each clutch pack, one low-effort twist-grip shift lever, quick-shift button on hydraulic lever, automatic shift feature is selectable to shift between gears 1-3 or 2-3	
Travel Speeds*	Forward	Reverse
Gear 1	5.3 mph (8.5 km/h)	5.5 mph (8.9 km/h)
Gear 2	9.1 mph (14.6 km/h)	9.6 mph (15.4 km/h)
Gear 3	17.1 mph (27.5 km/h)	17.8 mph (28.6 km/h)
*Equipped with 23.5-25 solid rubber tires.		

Axles	
Final Drives	heavy-duty planetary, mounted inboard
Differentials	conventional front and rear — standard; hydraulic locking front, conventional rear — optional; dual locking front and rear — optional; limited-slip front and rear — optional
Rear Axle Oscillation, Stop to Stop	18 degrees
Minimum Rise and Fall, Single Wheel	13.4 in. (340 mm)

Brakes (conform to SAE J1473, ISO3450)	
Service Brakes	inboard-mounted hydraulic wet disc, bathed in cooling oil, long life self-adjusting
Parking Brake	automatically spring-applied, hydraulically released, wet disc bathed in cooling oil

Hydraulic System	
Pump (loader and steering)	variable-displacement, axial piston pump; closed-center, pressure-compensating system
Maximum Flow	68 gpm (257 L/min.) @ 1,000 psi (6895 kPa) and 2,200 rpm
Pressure	loader and steering relief 3,600 psi (24 850 kPa)
Loader Controls	two-function valve; single- or dual-lever fingertip controls; control lever lockout feature; optional third- and fourth-function valve with auxiliary lever
Hydraulic Cycle Times	10.6 total sec.
Raise	6.2 sec.
Dump	1.4 sec.
Lower	3.0 sec. (float down) / 3.5 sec. (power down)

Maximum Lift Capacity			
SAE Heaped Capacity	5.0-cu.-yd. (3.8 m³) standard lip	6.0-cu.-yd. (4.6 m³) standard lip	7.0-cu.-yd. (5.4 m³) standard lip
Lift at Ground Level	30,813 lb. (13 974 kg)	29,626 lb. (13 436 kg)	28,475 lb. (12 914 kg)
Lift at Maximum Height	15,993 lb. (7253 kg)	15,435 lb. (7000 kg)	15,124 lb. (6859 kg)

Steering (conforms to SAE J1511)**644J WH**

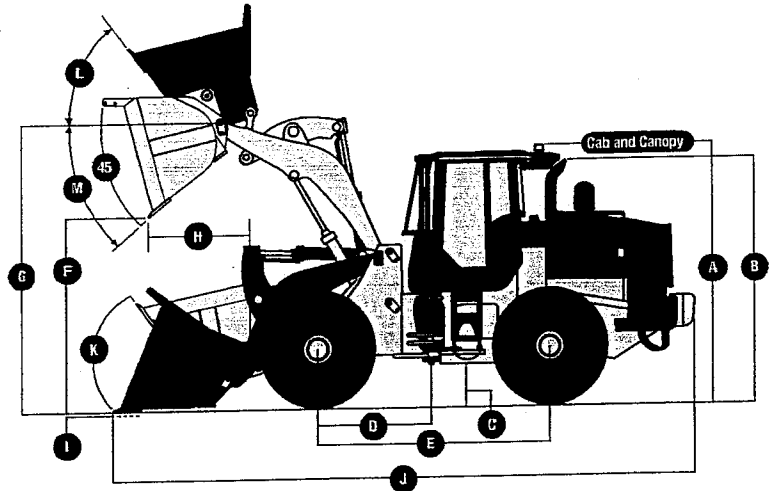
Type	power, fully hydraulic
Pressure	3,600 psi (24 850 kPa) relief
Articulation Angle	80-degree arc (40 degrees each direction)
Turning Radius (measured to centerline of outside tire)	18 ft. 0 in. (5500 mm)

Tires

Standard	Tread Width	Width Over Tires	Change In Vertical Height
23.5-25 Solid Rubber Tires	85.4 in. (2170 mm)	113.1 in. (2874 mm)	0 in. (0 mm)
L-5 radial or bias ply tires available.			
Both tire types require 9-degree axle stops.			

Capacities (U.S.)

Fuel Tank (with ground-level fueling)	90 gal. (341 L)
Cooling System	31 qt. (29 L)
Engine Lubrication, Including Full-Flow Spin-On Filter	26 qt. (25 L)
Powershift Transmission, Including Vertical Cartridge Filter	27 qt. (26 L)
Differential (each axle)	
Front	29 qt. (27 L)
Rear	29 qt. (27 L)
Loader Hydraulic Reservoir and Filters	31 gal. (117 L)
Parking Brake	0.63 qt. (0.6 L)

**Dimensions with Pin-On Type Waste Buckets**

Bucket Lip Capacity (equipped with bolt-on cutting edges)

Capacity, Heaped SAE	5.0-cu.-yd. (3.8 m ³) standard lip	6.0-cu.-yd. (4.6 m ³) standard lip	7.0-cu.-yd. (5.4 m ³) standard lip
Capacity, Struck SAE	4.0-cu.-yd. (3.1 m ³) standard lip	5.0-cu.-yd. (3.8 m ³) standard lip	5.7-cu.-yd. (4.4 m ³) standard lip
A Height to Top of Cab and Canopy	11 ft. 5 in. (3467 mm)	11 ft. 5 in. (3467 mm)	11 ft. 5 in. (3467 mm)
B Height to Top of Exhaust	11 ft. 3 in. (3417 mm)	11 ft. 3 in. (3417 mm)	11 ft. 3 in. (3417 mm)
C Ground Clearance	20.8 in. (528 mm)	20.8 in. (528 mm)	20.8 in. (528 mm)
D Length from Centerline to Front Axle	63 in. (1600 mm)	63 in. (1600 mm)	63 in. (1600 mm)
E Wheelbase	126 in. (3200 mm)	126 in. (3200 mm)	126 in. (3200 mm)
F Dump Height	11 ft. 5 in. (3479 mm)	10 ft. 11 in. (3331 mm)	10 ft. 7.5 in. (3237 mm)
G Height to Hinge Pin, Fully Raised	15 ft. 4 in. (4661 mm)	15 ft. 4 in. (4661 mm)	15 ft. 4 in. (4661 mm)
H Dump Reach	46.0 in. (1167 mm)	52.9 in. (1343 mm)	57.3 in. (1455 mm)
I Maximum Digging Depth	7.5 in. (190 mm)	7.5 in. (190 mm)	7.5 in. (190 mm)
J Overall Length	27 ft. 6 in. (8372 mm)	28 ft. 3 in. (8601 mm)	28 ft. 8 in. (8747 mm)
K Maximum Rollback at Ground Level	35 degrees	35 degrees	35 degrees
L Maximum Rollback at Full Height	40.8 degrees	40.8 degrees	40.8 degrees
M Maximum Dump Angle, Full Height	44 degrees	44 degrees	44 degrees
Bucket Width	114.2 in. (2900 mm)	114.2 in. (2900 mm)	114.2 in. (2900 mm)
Breakout Force, SAE J732C	30,270 lb. (13 728 kg)	25,258 lb. (11 455 kg)	22,760 lb. (10 322 kg)
Tipping Load, Straight	31,434 lb. (14 256 kg)	30,420 lb. (13 796 kg)	29,307 lb. (13 291 kg)
Tipping Load, 40-Degree Full Turn, SAE	26,553 lb. (12 042 kg)	25,607 lb. (11 613 kg)	24,610 lb. (11 161 kg)
Reach, 45-Degree Dump, 7-ft. (2.13 m) Clearance	78.6 in. (1996 mm)	82.1 in. (2086 mm)	84.2 in. (2138 mm)
Loader Clearance Circle, Bucket In Carry Position	43 ft. 8 in. (13 321 mm)	44 ft. 3 in. (13 479 mm)	44 ft. 7 in. (13 582 mm)
Operating Weight	50,223 lb. (22 777 kg)	50,874 lb. (23 072 kg)	51,304 lb. (23 267 kg)

Loader operating information is based on a machine with all standard equipment; waste handler complete protection package; 23.5-25 solid rubber tires; high-lift boom; ROPS cab; differential lock front axle with standard rear axle; two-spool valve with two-lever control; heater and defroster; 175-lb. (79 kg) operator; and full fuel tank. This information is affected by tire size, ballast, and different attachments.

644J WASTE HANDLER

Key: ● Standard equipment ▲ Optional equipment

*See your John Deere dealer for further information.

644J Engine

- Meets EPA Tier II non-road emissions regulations
- Antifreeze, -34°F (-37°C)
- Coolant recovery tank
- Engine oil cooler
- Environmentally friendly engine oil drain
- Fan guard
- Muffler, under hood with large exhaust stack
- Quick-release fuel filter and water separator
- Airscreen group: Low-profile perforated hood-mounted air-inlet screen / Engine side shield inlet screens, perforated/corrugated / Engine air-intake precleaner / Engine rubber baffle
- ▲ Swing-out fan with heavy-duty rear grille
- ▲ Reversing fan, hydraulic, auto control with manual override
- ▲ Engine air heater (for cold starts)
- ▲ Ether start aid (for cold starts)
- ▲ Chrome exhaust stack

Power Train

- Torque converter, powershift transmission, computer-controlled electronic soft shift, automatic shift and quick-shift features included
- Conventional-type differentials, front and rear
- ▲ Front and rear axles with hydraulic locking differentials
- ▲ Front and rear axles with limited-slip differentials
- ▲ Front axle with hydraulic locking differential

Hydraulic System

- Automatic boom height kickout control
- ▲ Automatic boom return-to-carry control
- Automatic bucket return-to-dig control
- Hydraulic lever lockout
- Hydraulic system oil cooler (for continuous running attachments and extreme temperatures)
- Reservoir sight gauge
- Spin-on hydraulic filters, vertical mounting
- Two-function hydraulic valve with joystick control
- ▲ Two-function hydraulic valve with two levers and adjustable wristrest
- ▲ Three-function hydraulic valve with joystick control and auxiliary lever for third function
- ▲ Three-function hydraulic valve with two levers, adjustable wristrest, and auxiliary lever for third function
- ▲ Four-function hydraulic valve with dual joystick controls
- ▲ Two- to three-function valve hydraulic conversion kit
- ▲ Three- to four-function valve hydraulic conversion kit
- ▲ Ride control, automatic type

Electrical

- 24-volt electrical system
- Alternator, high capacity, 80 amps and 24 volts
- Alternator trash covers

644J Electrical (cont.)

- Batteries, standard (2), 12 volt with 750 CCA, 150-min. rated reserve
- ▲ Batteries, high capacity (2), 12 volt with 950 CCA, 200-min. rated reserve
- Deluxe monitor and alarm system, multifunction computerized electronic: Audible and visual warnings include: Message center display (12-character message board) / Analog instruments (engine coolant temperature, transmission oil temperature, fuel level, speedometer, engine oil pressure, hydraulic oil temperature) / Digital instruments (engine rpm, selectable battery voltage or odometer, transmission gear indicator, hourmeter) / Operator warning lights (coolant level, engine oil pressure, engine air filter, battery voltage, transmission filter restriction, brake pressure, hydraulic oil temperature, hydraulic oil filter, fasten seat belt, park brake actuated) / Indicator lights (turn signals, warning flashers, work lights) / Built-in diagnostics (fault code retrieval, message center) / Push-button selection (three clutch cut-off adjustments, two automatic transmission sequences, two quick-shift button sequences)
- Horn, with push button in center of steering wheel (conforms to SAE J994, J1446)
- Lights (conform to SAE J99): High-intensity halogen driving with guards / Turn signals and flashers / Stop and taillights / Work lights, high-intensity halogen, front (2) and rear (2)
- Radio-ready cab: Fused 24-volt radio electrical lead, and fused lead for optional Deere 5-amp and 10-amp voltage converters
- ▲ Radio-ready cab: 24- to 12-volt radio converter, 5 amp with receptacle / 24- to 12-volt radio converter, 10 amp with receptacle / 24-volt AM/FM stereo radio with clock
- ▲ Strobe light wired to master electrical disconnect switch
- Reverse warning alarm, self-adjusting (conforms to SAE J994, J1446)

Operator's Station

- Cab (conforms to SAE J1040C APR88): ROPS/FOPS / Air conditioner/Heater/Defroster / Multi-plane isolation mounted for noise/vibration reduction / Front and rear windshield washers and intermittent wipers / Tinted safety glass
- Cup holder, personal cooler holder
- Handholds and steps, ergonomically located and slip resistant (conform to SAE J185)
- Rearview mirrors, outside (2) and inside (2) (conform to SAE J985)
- Rubber floor mat
- Seat belt, 3 in. (76 mm), with retractor
- Seat, deluxe cloth covered with deep foam, high back, mechanical suspension, adjustable for weight-height, fore-aft position, backrest tilt, and armrest angle

644J Operator's Station (cont.)

- ▲ Seat, air suspension, deluxe cloth covered
- ▲ Seat backrest extension
- Steering wheel, textured with spinner knob
- Storage compartment for operator's manual and other items
- Tilt steering column
- ▲ Sun visor for cab

Waste Handler Package

- Waste handler guards: Articulation guards / Axle seal guards / Boom cylinder and hydraulic lines guard / Bucket cylinder hydraulic lines, zerk, and sensor guard / Drive-shaft guard / Extreme-duty front loader frame cover with handles / Extreme-duty transmission side guards / Lower boom and bucket grease-fitting guards / Rear loader frame cover
- Cab floor-mounted lockable master electrical disconnect switch
- Extreme-duty cab entry steps
- ▲ Extreme-duty hydraulic bottom guards (fuel tank, loader frame, engine frame)
- Full-frontal cab window guard (high-visibility version not designed to SAE J1084)
- Rear-access platforms with step and handhold
- ▲ Rear roof-mounted air-conditioner condenser with manually activated reversible electric fans

Loader Linkage

- ▲ High-lift boom
- Loader boom service locking bar (conforms to SAE J38)
- Z-bar loader linkage provides "high bucket breakout"

Buckets and Attachments

- ▲ Full line of construction utility forks, pallet forks, extendible boom with hook, and other attachments for couplers*
- ▲ Hydraulic control system for quick-coupler locking pins, includes all controls in cab, lines, and valves
- ▲ Loadrite™ weighing system*
- ▲ Quick-coupler which accepts JRB attachments*

Tires

- ▲ 23.5 R 25
- ▲ L-5 radial or bias ply
- ▲ Less wheels and tires
- ▲ Multi-piece rims

Other

- Articulation locking bar (conforms to SAE J276)
- Counterweight, built-in
- Drawbar, with locking pin
- Vandal protection, includes lockable engine enclosure, rear grille, and fuel fill
- ▲ License-plate bracket
- ▲ Lift and tie-down hooks
- ▲ Secondary steering



JOHN DEERE

DKA644JW/Litho in U.S.A. (04-08)

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 70 020, using No. 2-D fuel at 35 API gravity. No derating is required up to 10,000-ft (3050 m) altitude. Gross power is without cooling fan.

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on a unit with all standard equipment, waste handler protection package, high-lift boom, 23.5-25 solid rubber tires, ROPS cab, full fuel tank, and 175-lb. (79 kg) operator.



2) **ONE 38,000 LB. TRACK TYPE BULLDOZER LGP LANDFILL USE**

A. Base machine

- a. The machine will have a minimum operating weight of 38,000 lbs. with standard equipment.
- b. The machine will have a track gauge of at least 85 inches with a length of track on the ground of at least 121 inches.
- c. The overall length of the tractor when equipped with VPAT blade shall not exceed 212 inches.
- d. The overall width of the tractor when equipped with a VPAT blade shall not exceed 161 inches with the blade straight and 146 inches with the blade fully angled.
- e. The track roller frame will be attached to the tractor by a pivot shaft and pinned equalizer oscillation system.
- f. Track oscillation at the front idlers will be at least 10.5 inches.
- g. Ground clearance will be at least 21 inches when measured from the face of the track shoe- per SAE J1234 standard.

B. Engine

- a. Four stroke diesel, six cylinder, SAE J1349 net flywheel power shall be at least 145 hp.
- b. Engine **shall** have a turbocharger providing full flywheel hp to a minimum of 7,500 ft. before altitude duration.
- c. Engine air cleaner shall have a service indicator.
- d. Machine shall be equipped with a water separator.

C. Transmission/Powertrain

- a. Fingertip controlled for both direction and speed changes.
- b. Have a forward ground speed of at least 6.40 MPH.
- c. Have a reverse ground speed of at least 7.90 MPH.
- d. Planetary type power shift transmission capable of making repeated speed and directional changes at full throttle, with (3) speeds forward and (3) reverse. Both speed and directional changes shall be actuated by a single lever.

D. Undercarriage

- a. Roller frame attached to the tractor by a pivot shaft and pinned equalizer bar.
- b. Lifetime lubricated carrier roller.
- c. Eight track rollers per side.
- d. Capability of replacing worn sprocket segments without breaking track.
- e. LGP minimum 34 inches shoe standard.
- f. Tractor will be equipped with heavy duty sealed and lubricated track.
- g. A split master link will be used for breaking the track.
- h. Minimum shoe width will be 34 inches with a maximum ground pressure of 4.45 psi when equipped to spec.
- i. All idlers and track/carrier rollers will be lifetime lubricated.
- j. Track sag will be hydraulically adjusted.

- k. Track links will be strutted.
- l. Machine to be high final drive configuration.

E. Hydraulic and Controls

- a. A fully enclosed protected system.
- b. A load sensing, variable displacement piston pump which adjusts hydraulic flow to match implement demands
- c. A single lever dozer control for lift, tilt and angle functions on VPAT blade.
- d. The hydraulic system shall be fully filtered, self contained and airtight to prevent accidental contamination.
- e. The system use pressure-compensated, stacked type implement control valve for main implement system which automatically adjust hydraulic flow to implement loads.
- f. he tractor will be equipped with a sight gauge for checking the hydraulic fluid level.

F. Electrical system

- a. 24 volt system with diagnostic connector for trouble shooting starting and charging circuits.

G. Steering/Brakes

- a. The steering system will consist of multiple-disc, oil cooled, hydraulically actuated and self adjusting steering clutches and brakes.
- b. Finger tip control of transmission and steering clutches.
- c. The service brake will be actuated by a single pedal mounted below the dash.

H. Final drive

- a. The machine will be equipped with single reduction planetary final drives.
- b. The sprockets will consist of bolt on segments for replacement ease.
- c. Modular final drive will allow final drive repair with simple breaking of track.

I. Work tool

- a. The machine will be equipped with variable pitch, power, angle, tilt (VPAT) bulldozer.
- b. The bulldozer will have a minimum blade capacity of 4.1 cubic yards per **SAE J1265**.
- c. A minimum dig depth of 17.0 inches and capable of angling hydraulically controlled by a single and capable of manually changing blade pitch.

J. Cab

- a. The ROPS cab shall be sound suppressed and meet current OSHA and MSHA standards for operator sound.
- b. The front and rear windshield will be equipped with washer/wiper.
- c. The cab have an interior mounted rearview mirror, air pressurizer, sun visor, heater, gauges, and indicators (including fuel gauge) which monitor critical

operational systems of the machine and alert the operator when potential problems occur.

- d. A floor mounted decelerator pedal will be included.
- e. Machine will have standard factory air conditioning and lunch box storage

K. Other standard equipment

- a. Vandalism protection, locking caps or compartments, for hydraulic tank, radiator, electric air inlet heater, water separator, crankcase, transmission filter, spout and transmission dipstick, and fuel tank.
- b. Front and rear working lights shall be provided.
- c. Hinged, heavy duty radiator guard and tracking guide, crankcase guard, radiator core protection grid.
- d. Front warning horn.
- e. Front pull hook.

L. Dozer blade

- a. Maximum 161 inches wide.
- b. Minimum 76 inches high with a trash rack.
- c. Maximum 23.5 inches tilt.
- d. Minimum 40.3 inches lift above ground.
- e. Minimum 17 inches drop below ground, digging depth.

M. Landfill equipment:

- a. Heavy duty, swing-out radiator guard.
- b. Fuel tank guard, 10mm thick.
- c. Extreme service crankcase guards.
- d. Final drive & idler seal guards.
- e. Trash radiator, 6 fins per inch.
- f. Fenders, 10mm thick.
- g. Lift cylinder lines guard.
- h. Pre-cleaner guard.
- i. Reversible fan.
- k. Pre-cleaner with pre-screener.

Proposers must include in the space provided, any and all exceptions for 38,000 Lb. Track Type Bulldozer LGP Landfill Use: Indicate the Category and Subcategory when addressing exceptions.

EXCEPTIONS: We are offering a DEERE 750J Hydrostatic dozer with LGP
undercarriage and all hydraulic blade. The unit will meet or exceed
the intent of these specs.

(Please include additional pages as necessary under this section)

1 4 5 - 1 5 5 S A E N E T H O R S E P O W E R

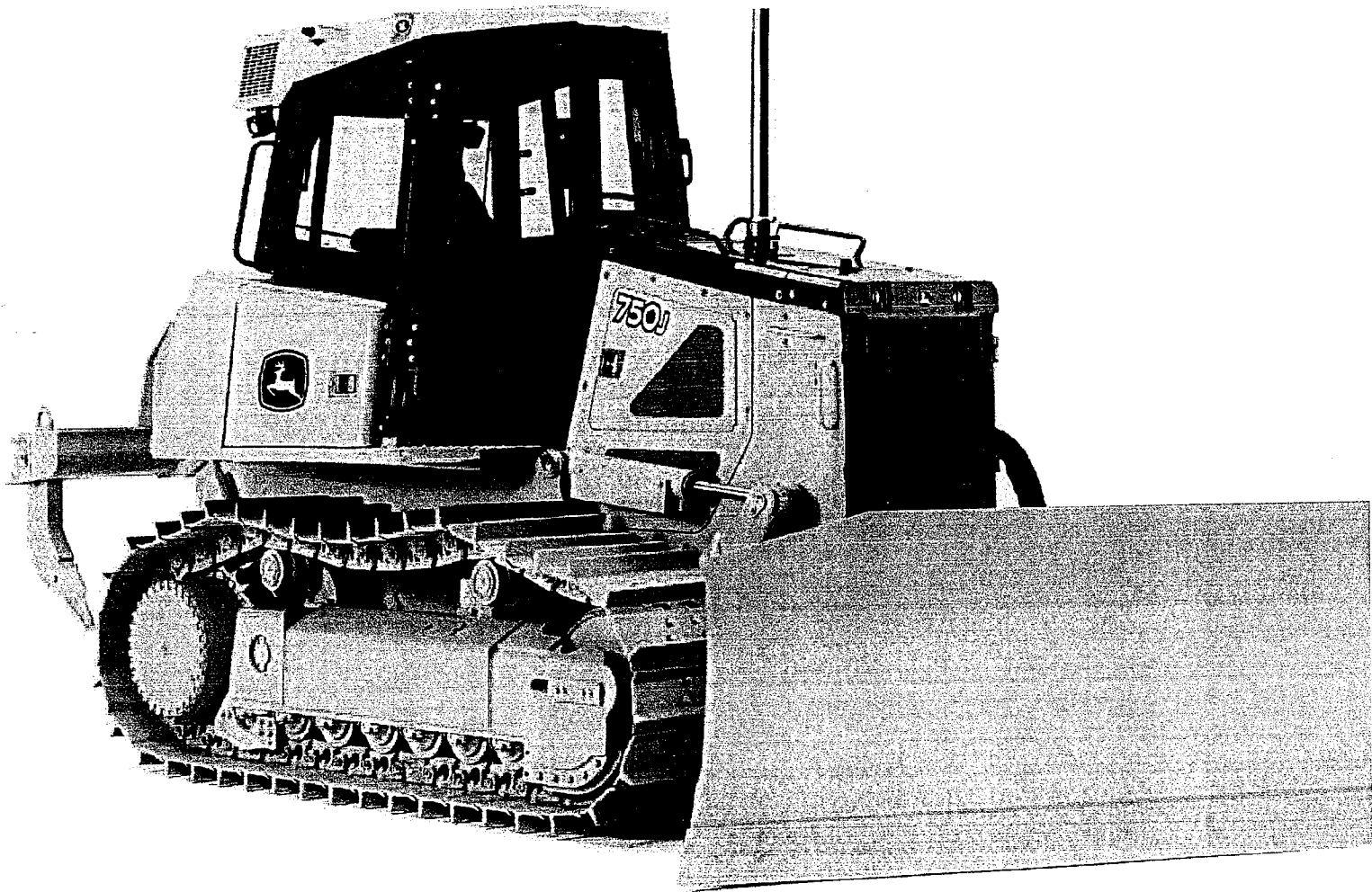


JOHN DEERE

J

DOZER

750J



J-SERIES



Specifications

750J

Engine	750J	750J LT	750J WT	750J LGP
Type	John Deere PowerTech™ 6068H with turbocharger and air-to-air after-cooler; meets Tier II non-road emissions regulations	John Deere PowerTech 6068H with turbocharger and air-to-air after-cooler; meets Tier II non-road emissions regulations	John Deere PowerTech 6068H with turbocharger and air-to-air after-cooler; meets Tier II non-road emissions regulations	John Deere PowerTech 6068H with turbocharger and air-to-air after-cooler; meets Tier II non-road emissions regulations
Rated Power @ 2,100 rpm	145 SAE net hp (108 kW) / 157 SAE gross hp (117 kW)	145 SAE net hp (108 kW) / 157 SAE gross hp (117 kW)	145 SAE net hp (108 kW) / 157 SAE gross hp (117 kW)	155 SAE net hp (116 kW) / 168 SAE gross hp (125 kW)
Cylinders	6	6	6	6
Displacement	414 cu. in. (6.8 L)	414 cu. in. (6.8 L)	414 cu. in. (6.8 L)	414 cu. in. (6.8 L)
Maximum Net Torque @ 1,400 rpm	500 lb.-ft. (680 Nm)	500 lb.-ft. (680 Nm)	500 lb.-ft. (680 Nm)	540 lb.-ft. (730 Nm)
Lubrication	pressure system with full-flow spin-on filter and oil-to-water cooler	pressure system with full-flow spin-on filter and oil-to-water cooler	pressure system with full-flow spin-on filter and oil-to-water cooler	pressure system with full-flow spin-on filter and oil-to-water cooler
Air Cleaner	dual-stage dry type with safety element, precleaner, and underhood restriction indicator	dual-stage dry type with safety element, precleaner, and underhood restriction indicator	dual-stage dry type with safety element, precleaner, and underhood restriction indicator	dual-stage dry type with safety element, precleaner, and underhood restriction indicator
Electrical System	24 volt with 80-amp alternator	24 volt with 80-amp alternator	24 volt with 80-amp alternator	24 volt with 80-amp alternator
Batteries (two 12-volt)	950 cold-cranking amps, 190-min. reserve capacity	950 cold-cranking amps, 190-min. reserve capacity	950 cold-cranking amps, 190-min. reserve capacity	950 cold-cranking amps, 190-min. reserve capacity
Cooling Fan	variable-speed suction	variable-speed suction	variable-speed suction	variable-speed suction
Cooling Fan Filter, Return Oil	10 micron	10 micron	10 micron	10 micron

Transmission

Automatic, dual-path, hydrostatic drive; load-sensing feature automatically adjusts speed and power to match changing load conditions; each individually controlled track is powered by a variable-displacement piston pump and motor combination; travel speeds (forward and reverse) infinite to 6.3 mph (0 to 10 km/h); ground-speed selection buttons on single-lever steering and direction control; independently selectable reverse speed ratios 80%, 100%, 115%, or 130% of forward ground speed; decelerator pedal controls ground speed to dead stop

Type	dual-path hydrostatic
System Relief Pressure	6,650 psi (45 850 kPa)
Filter, Charge Oil	10 micron
Cooling	oil-to-air
Travel Speeds (forward and reverse)	0–6.3 mph (0–10 km/h) / 6.8 mph (11 km/h) max. (optional)

Final Drives

Double-reduction, planetary final drives transfer torque loads over three gear sets; mounted independently of track frames and dozer push frames for isolation from shock loads

Total Ratio	46.4056 to 1	46.4056 to 1	46.4056 to 1	46.4056 to 1
Drawbar Pull				
Maximum	55,000 lb. (245 kN)	55,000 lb. (245 kN)	55,000 lb. (245 kN)	55,000 lb. (245 kN)
@ 1.2 mph (1.9 km/h)	33,000 lb. (147 kN)	33,000 lb. (147 kN)	33,000 lb. (147 kN)	35,500 lb. (156 kN)
@ 2.0 mph (3.2 km/h)	22,000 lb. (98 kN)	22,000 lb. (98 kN)	22,000 lb. (98 kN)	24,000 lb. (107 kN)

Steering

Single-lever steering, speed, direction control, and counterrotation; full power turns and infinitely variable track speeds provide unlimited maneuverability and optimum control; hydrostatic steering eliminates steering clutches and brakes

Brakes

Hydrostatic (dynamic) braking stops machine when the direction/steering control lever is moved to neutral or the decelerator is depressed to the end of travel

Type	hydraulic
------	-----------

Automatic Parking Brake

Exclusive safety feature engages wet, multiple-disc brakes whenever the engine stops, whenever the decelerator is depressed to the end of travel, or whenever the park lock lever is placed in the start or neutral positions and motion is detected; machine cannot be driven with brake applied, reducing wear out or need for adjustment

Type	spring-applied, hydraulic release
------	-----------------------------------

Hydraulic System

System Type	load sense	load sense	load sense	load sense
System Relief Pressure	3,625 psi (25 000 kPa)	3,625 psi (25 000 kPa)	3,625 psi (25 000 kPa)	3,625 psi (25 000 kPa)
Differential Pressure	275 psi (1900 kPa)	275 psi (1900 kPa)	275 psi (1900 kPa)	275 psi (1900 kPa)
Pump Type	piston	piston	piston	piston
Pump (63 cc)	38 gpm (144 L/min.)	38 gpm (144 L/min.)	38 gpm (144 L/min.)	38 gpm (144 L/min.)
Maximum Flow @ Unloaded High Idle	37 gpm (140 L/min.)	37 gpm (140 L/min.)	37 gpm (140 L/min.)	37 gpm (140 L/min.)
Filter, Return Oil	10 micron	10 micron	10 micron	10 micron

Hydraulic System (continued)	750J		750J LT		750J WT		750J LGP
Blade Type	PAT	<i>Outside dozer</i>	PAT	<i>Outside dozer</i>	<i>Outside dozer</i>		PAT
Control	T-bar hydraulic-pilot two-function joystick with push-button angle function	T-bar hydraulic-pilot two-function joystick	T-bar hydraulic-pilot two-function joystick with push-button angle function		T-bar hydraulic-pilot two-function joystick		T-bar hydraulic-pilot two-function joystick with push-button angle function
Cylinders	heat-treated, chrome-plated, polished cylinder rods with hardened steel (replaceable bushings) pivot pins	heat-treated, chrome-plated, polished cylinder rods with hardened steel (replaceable bushings) pivot pins	heat-treated, chrome-plated, polished cylinder rods with hardened steel (replaceable bushings) pivot pins		heat-treated, chrome-plated, polished cylinder rods with hardened steel (replaceable bushings) pivot pins		heat-treated, chrome-plated, polished cylinder rods with hardened steel (replaceable bushings) pivot pins
Cooling	convective oil sump	convective oil sump	convective oil sump		convective oil sump		convective oil sump

Capacities (U.S.)

Fuel Tank with Lockable Cap.....	98 gal. (371 L)	98 gal. (371 L)	98 gal. (371 L)	98 gal. (371 L)	98 gal. (371 L)
Cooling System with Recovery Tank.....	5.7 gal. (21.5 L)	5.7 gal. (21.5 L)	5.7 gal. (21.5 L)	5.7 gal. (21.5 L)	5.7 gal. (21.5 L)
Engine Lubrication, Including Filter.....	7.0 gal. (26.5 L)	7.0 gal. (26.5 L)	7.0 gal. (26.5 L)	7.0 gal. (26.5 L)	7.0 gal. (26.5 L)
Final Drive (each)					
1st Reduction	2.1 gal. (8.0 L)	2.1 gal. (8.0 L)	2.1 gal. (8.0 L)	4.0 gal. (15.1 L)	4.0 gal. (15.1 L)
2nd Reduction	4.0 gal. (15.1 L)	4.0 gal. (15.1 L)	4.0 gal. (15.1 L)	4.0 gal. (15.1 L)	4.0 gal. (15.1 L)
Hydraulic System Reservoir.....	27.9 gal. (105.6 L)	27.9 gal. (105.6 L)	27.9 gal. (105.6 L)	27.9 gal. (105.6 L)	27.9 gal. (105.6 L)
Hydrostatic System Reservoir.....	27.9 gal. (105.6 L)	27.9 gal. (105.6 L)	27.9 gal. (105.6 L)	27.9 gal. (105.6 L)	27.9 gal. (105.6 L)

Undercarriage

Seven- or eight-roller track frame with front and rear track guides and sprocket guard; John Deere Dura-Trax™ features deep-heat-treated, sealed, and lubricated track links and through-hardened, sealed, and lubricated rollers for maximum wear resistance; sprockets are segmented; extreme-duty shoes are available (on some models) for severe applications

Blade Type	PAT	<i>Outside dozer</i>	PAT	<i>Outside dozer</i>	PAT
Chain	sealed and lubricated	sealed and lubricated	sealed and lubricated	sealed and lubricated	sealed and lubricated
Grouser Width	22 in. (560 mm)	22 in. (560 mm)	22 in. (560 mm)	34 in. (865 mm)	34 in. (865 mm)
Shoes (each side).....	40	40	45	40	45
Ground Contact Area	4,488 sq. in. (28 955 cm²)	4,488 sq. in. (28 955 cm²)	5,324 sq. in. (34 348 cm²)	6,936 sq. in. (44 748 cm²)	8,228 sq. in. (53 084 cm²)
Ground Pressure	7.24 psi (49.9 kPa)	7.53 psi (51.9 kPa)	6.45 psi (44.4 kPa)	5.24 psi (36.1 kPa)	4.45 psi (30.7 kPa)
Length of Track on Ground.....	102 in. (2592 mm)	102 in. (2592 mm)	121 in. (3075 mm)	102 in. (2592 mm)	121 in. (3075 mm)
Track Gauge, Standard.....	74 in. (1880 mm)	74 in. (1880 mm)	74 in. (1880 mm)	84 in. (2134 mm)	84 in. (2134 mm)
Oscillation at Front Roller	±4.3 in. (±110 mm)	±4.3 in. (±110 mm)	±5.3 in. (±135 mm)	±4.7 in. (±120 mm)	±5.0 in. (±127 mm)
Track Rollers (each side).....	7	7	8	7	8
Track Pitch	7.5 in. (190.5 mm)	7.5 in. (190.5 mm)	7.5 in. (190.5 mm)	7.5 in. (190.5 mm)	7.5 in. (190.5 mm)

SAE Operating Weights

Base weights were computed for units with standard equipment, rollover protective structures, full fuel tanks, and 175-lb. (79 kg) operators.

Blade Type	PAT	<i>Outside dozer</i>	PAT	<i>Outside dozer</i>	PAT
Base Weight	32,510 lb. (14 744 kg)	33,790 lb. (15 324 kg)	34,320 lb. (15 565 kg)	36,350 lb. (16 485 kg)	36,650 lb. (16 621 kg)

Refer to the Attachment Guide or see your dealer for details regarding Mechanical Angle blades for the 750J LT.

Blade Weights

Includes push beams, trunnion mounts, straight end bits, C-frames, angle and tilt cylinders where applicable.

Blade Type	PAT	<i>Outside dozer</i>	PAT	<i>Outside dozer</i>	PAT
PAT	2,066 lb. (937 kg)	N/A	2,066 lb. (937 kg)	N/A	2,383 lb. (1081 kg)
Semi-U.....	N/A	2,564 lb. (1163 kg)	N/A	2,773 lb. (1258 kg)	N/A
Straight	N/A	N/A	N/A	2,672 lb. (1212 kg)	N/A

Refer to the Attachment Guide or see your dealer for details regarding Mechanical Angle blades for the 750J LT.

Blade Capacities

Blade Type	PAT	<i>Outside dozer</i>	PAT	<i>Outside dozer</i>	PAT
PAT	130 in. (3295 mm)	N/A	130 in. (3295 mm)	N/A	156 in. (3962 mm)
	4.23 cu. yd. (3.23 m³)		4.23 cu. yd. (3.23 m³)		4.98 cu. yd. (3.81 m³)
Semi-U.....	N/A	128 in. (3251 mm)	N/A	148 in. (3759 mm)	N/A
		5.58 cu. yd. (4.27 m³)		5.90 cu. yd. (4.51 m³)	
Straight	N/A	N/A	N/A	150 in. (3810 mm)	N/A
				5.25 cu. yd. (4.01 m³)	

Refer to the Attachment Guide or see your dealer for details regarding Mechanical Angle blades for the 750J LT.

Optional or Special Equipment	750J	750J LT	750J WT	750J LGP
Blade Type	<i>PAT</i>	<i>Outside dozer</i>	<i>PAT</i>	<i>PAT</i>
Complete Push Beam Assemblies for Straight or Semi-U Blades, Root Rakes, etc.	N/A	3,242 lb. (1470 kg)	N/A	3,500 lb. (1588 kg)
Complete PAT Dozer C-Frame Assembly including Cylinders	2,829 lb. (1283 kg)	N/A	2,905 lb. (1318 kg)	N/A
Tracks — Dura-Trax™ Lubricated Chain with Split Master Link, Single-Bar Grousers, and Extended Life Undercarriage				
22-in. (560 mm) Moderate Duty	in base*	in base*	in base*	N/A
22-in. (560 mm) Extreme Duty	263.2 lb. (119.4 kg)	263.2 lb. (119.4 kg)	295.8 lb. (134.2 kg)	N/A
24-in. (610 mm) Moderate Duty	274.8 lb. (124.7 kg)	274.8 lb. (124.7 kg)	308.8 lb. (140.1 kg)	N/A
24-in. (610 mm) Extreme Duty	566 lb. (256.8 kg)	566 lb. (256.8 kg)	636.5 lb. (288.8 kg)	N/A
28-in. (710 mm) Moderate Duty	N/A	N/A	N/A	— 921.7 lb. (— 418.2 kg)
34-in. (865 mm) Moderate Duty	N/A	N/A	in base*	in base*
Cab with Pressurizer and Heater/ Air Conditioner	743 lb. (337 kg)	743 lb. (337 kg)	743 lb. (337 kg)	743 lb. (337 kg)
Heater (ROPS canopy)	85 lb. (39 kg)	85 lb. (39 kg)	85 lb. (39 kg)	85 lb. (39 kg)
Full-Length Rock Guard	383.9 lb. (174.2 kg)	383.9 lb. (174.2 kg)	340.3 lb. (154.4 kg)	383.9 lb. (174.2 kg)
Final Drive Seal Guard	155 lb. (70 kg)	155 lb. (70 kg)	155 lb. (70 kg)	155 lb. (70 kg)
Retrieval Hitch*	81 lb. (37 kg)	81 lb. (37 kg)	81 lb. (37 kg)	81 lb. (37 kg)
Drawbar, Extended Rigid	286 lb. (130 kg)	286 lb. (130 kg)	286 lb. (130 kg)	286 lb. (130 kg)
Heavy-Duty Grille	62 lb. (28 kg)	62 lb. (28 kg)	62 lb. (28 kg)	62 lb. (28 kg)
Noise-Reduction Package	75 lb. (34 kg)	75 lb. (34 kg)	75 lb. (34 kg)	75 lb. (34 kg)
Front and Door Screens (ROPS canopy)	186 lb. (84 kg)	186 lb. (84 kg)	186 lb. (84 kg)	186 lb. (84 kg)
Front and Door Screens (cab with air conditioner)	175 lb. (79 kg)	175 lb. (79 kg)	175 lb. (79 kg)	175 lb. (79 kg)
Rear Screen (ROPS canopy)	50 lb. (23 kg)	50 lb. (23 kg)	50 lb. (23 kg)	50 lb. (23 kg)
Rear Screen (cab with air conditioner)	75 lb. (34 kg)	75 lb. (34 kg)	75 lb. (34 kg)	75 lb. (34 kg)
Side Screens (ROPS canopy)	98 lb. (44 kg)	98 lb. (44 kg)	98 lb. (44 kg)	98 lb. (44 kg)
Side Screens (cab with air conditioner)	120 lb. (54 kg)	120 lb. (54 kg)	120 lb. (54 kg)	120 lb. (54 kg)
Condenser Guard (cab with air conditioner)	121 lb. (55 kg)	121 lb. (55 kg)	121 lb. (55 kg)	121 lb. (55 kg)
Limb Risers (ROPS canopy and cab)	575 lb. (261 kg)	575 lb. (261 kg)	575 lb. (261 kg)	575 lb. (261 kg)
Lift Cylinder Guards	to be determined	170 lb. (77 kg)	170 lb. (77 kg)	170 lb. (77 kg)
Blade Brush Guard	192 lb. (87 kg)	192 lb. (87 kg)	192 lb. (87 kg)	192 lb. (87 kg)
Tank Guard	712 lb. (323 kg)	712 lb. (323 kg)	712 lb. (323 kg)	712 lb. (323 kg)
Front Counterweight	550 lb. (249 kg)	550 lb. (249 kg)	550 lb. (249 kg)	550 lb. (249 kg)
Rear Counterweight	720 lb. (326 kg)	720 lb. (326 kg)	720 lb. (326 kg)	720 lb. (326 kg)

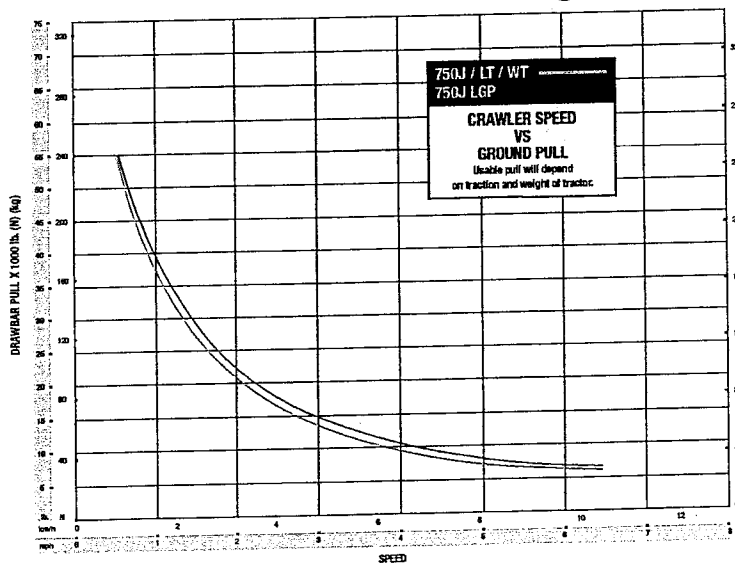
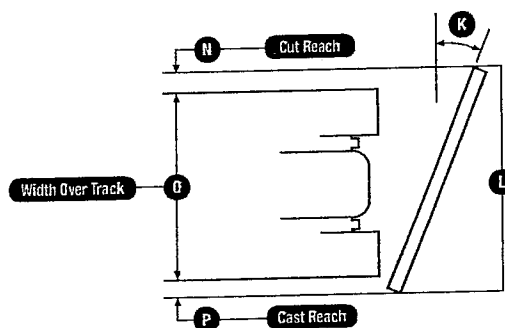
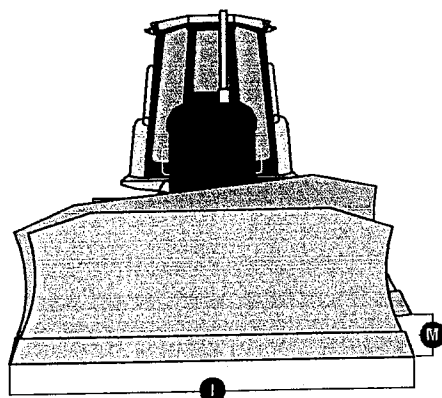
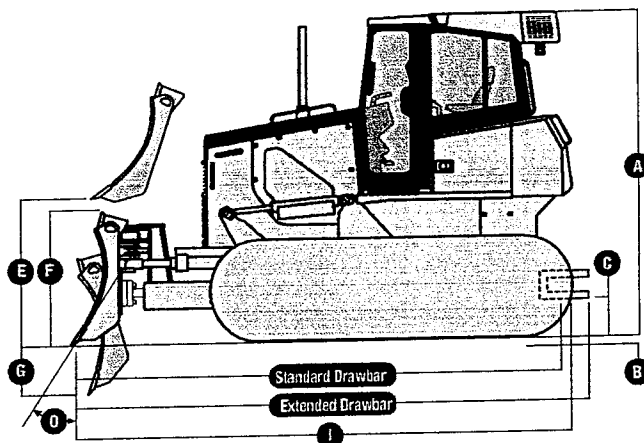
*Included in SAE operating weight.

Dimensions

	<i>PAT</i>	<i>Outside dozer</i>	<i>PAT</i>	<i>Outside dozer</i>	<i>PAT</i>
Blade Type	<i>PAT</i>	<i>Outside dozer</i>	<i>PAT</i>	<i>Outside dozer</i>	<i>PAT</i>
A Overall Height to Roof	122 in. (3095 mm)	122 in. (3095 mm)	122 in. (3095 mm)	122 in. (3095 mm)	122 in. (3095 mm)
Overall Height to Exhaust Stack	119 in. (3020 mm)	119 in. (3020 mm)	119 in. (3020 mm)	119 in. (3020 mm)	119 in. (3020 mm)
B Tread Depth with Single-Bar Grouser					
Moderate Duty	2.2 in. (56 mm)	2.2 in. (56 mm)	2.2 in. (56 mm)	2.2 in. (56 mm)	2.2 in. (56 mm)
Extreme Duty	2.7 in. (68 mm)	2.7 in. (68 mm)	2.7 in. (68 mm)	2.7 in. (68 mm)	2.7 in. (68 mm)
C Ground Clearance with Grousers (excludes grouser height)	14 in. (356.9 mm)	14 in. (356.9 mm)	14 in. (356.9 mm)	14 in. (356.9 mm)	14 in. (356.9 mm)
D Blade Width	129.75 in. (3296 mm)	128 in. (3251 mm)	129.75 in. (3296 mm)	148 in. (3759 mm)	156 in. (3962 mm)
E Blade Height	47 in. (1194 mm)	48.8 in. (1240 mm)	47 in. (1194 mm)	46.1 in. (1170 mm)	46.1 in. (1170 mm)
F Blade Lift Height	38.5 in. (979 mm)	41.3 in. (1050 mm)	40.3 in. (1025 mm)	41.3 in. (1050 mm)	40.3 in. (1025 mm)
G Blade Digging Depth	24.4 in. (620 mm)	22.6 in. (575 mm)	25.6 in. (650 mm)	22.6 in. (575 mm)	25.6 in. (650 mm)
H Blade Tilt (uses tilt jack)	17.2 in. (437 mm)	28.4 in. (722 mm)	17.2 in. (437 mm)	25.7 in. (653 mm)	20.6 in. (524 mm)
I Overall Length with Blade*	196.5 in. (4990 mm)	205 in. (5205 mm)	208.5 in. (5300 mm)	205 in. (5205 mm)	208.5 in. (5300 mm)
J Overall Width with Blade Angled	118.9 in. (3020 mm)	N/A	118.9 in. (3020 mm)	N/A	142.9 in. (3631 mm)

*Optional extended drawbar adds 11 in. (279.5 mm).

Dimensions (continued)	750J		750J LT		750J WT		750J LGP
K Blade Angle.....	23.5 degrees	N/A	23.5 degrees	N/A	N/A	N/A	23.5 degrees
L Cut Reach.....	4.3 in. (108 mm)	N/A	4.3 in. (108 mm)	N/A	N/A	N/A	3.3 in. (84 mm)
M Width Over Track.....	96 in. (2438 mm)	96 in. (2438 mm)	96 in. (2438 mm)	118 in. (2997 mm)	118 in. (2997 mm)	N/A	118 in. (2997 mm)
N Cast Reach.....	8.8 in. (224 mm)	N/A	8.8 in. (224 mm)	N/A	N/A	N/A	11.7 in. (297 mm)
O Cutting Edge Angle.....	55.2–60.1 degrees	50.5–60.0 degrees	55.2–60.1 degrees	50.5–60.0 degrees	50.5–60.0 degrees	55.2–60.1 degrees	55.2–60.1 degrees



JOHN DEERE

DKA750J Litho in U.S.A. (04-11)



3) **ONE 61,000 LBS. TRACK TYPE BULLDOZER FOR LANDFILL USE**

A. Weight

- a. Minimum operating weight 61,000 lbs. (includes ROPS cab, straight bulldozer blade, standard shoes).

B. Engine

- a. Six cylinder turbo-charged diesel engine.
- b. Minimum 240 net flywheel horsepower.
- c. Maximum governed speed of 2,100 rpm @ rated horsepower.
- d. 24 volt electrical system.
- e. 75 amp alternator.
- f. Minimum 625 cubic inch displacement.
- g. Minimum 125 gallon fuel tank.
- h. Engine enclosures.
- i. Reversible Fan (automatic reversible with cab override)
- j. Automatic engine shutdown system.
- k. Radiator has two pass cooling system, 6 fins per inch.

C. Transmission

- a. Planetary type powershift transmission with single stage torque converter.
- b. Minimum three speeds forward and reverse.
- c. Transmission controlled by a single lever for both direction and speed changes.
- d. On-the-go shifts, through all gears and forward and reverse.
- e. Automatic shifting & auto kickdown features.

D. Steering/Brakes

- a. Differential steering for power turn capability.
- b. High-low steering system is not acceptable.
- c. Single pedal brakes both tracks without disengaging the clutches.
- d. Hydraulically actuated & self adjusting.

E. Final drives

- a. Double reduction, planetary, planetary design.
- b. Modular design which allows for removal with only braking track.

F. Guards

- a. Final drive seal guards.
- b. Idler seal guards.
- c. Chassis guards.
- d. Heavy duty hinged radiator guard.
- e. Hydraulic cylinder lines guard.
- f. Heavy duty handles and steps.
- g. Pivot shaft seal guards.
- h. Fuel & hydraulic tank guards.

- i. Extreme service crankcase guard.
- j. Rear screen.
- k. Front & rear sticker bars.
- l. Tilt cylinder line guards.

G. Other

- a. Decelerator
- b. Drawbar.
- c. Front pull hook.
- d. Lockable storage compartment.
- e. Cap locks.
- f. Crankcase guard.
- g. Instrument panel guard.
- h. Horn.
- i. Ecology drains.
- j. 10 lb. Fire extinguisher.
- k. Fire suppression system.
- l. Rear tank mounted lights (4) .
- m. Front lights mounted on lift cylinders.
- n. Raised pre-screener.

H. Undercarriage

- a. Sealed and lubricated track.
- b. Segmented sprocket rimes.
- c. Minimum 114 inches length of track on ground.
- d. Minimum 78 inch gauge.
- e. Standard track shoe width, extreme service, trapezoidal shoes, and 26" shoe width.
- f. Minimum eight track rollers each side.
- g. Minimum 18 inch ground clearance.
- h. Lifetime lubricated track rollers.
- i. Center track guiding guards.
- j. End track guiding guards.
- k. Machine to be high final drive configuration.

I. Hydraulics

- a. Load-sensing hydraulics with a variable capacity, piston-type pump.
- b. Minimum 50 gmp pump capacity.
- c. Fully enclosed hydraulic system.
- d. Single lever dozer control.
- e. Pressure-compensated controls.
- f. Hydraulic oil cooler.

J. Dozer blade

- a. Straight bulldozer blade with trash rack (trash rack not included in blade capacity).
- b. Minimum 7.5 cubic yard blade capacity.

- c. Minimum 14 ft. 6 inch blade width, maximum width 14 ft. 11 inches.
- d. Minimum 24 inch tilt capability.
- e. Trash rack with see-through design.

K. Operators compartment

- a. Pressurized cab with air conditioning.
- b. Fuel gauge, hour meter, coolant temperature gauge and power train on gauge.
- c. Electronic monitoring system to monitor critical machine functions.
- d. Rearview mirror.
- e. Fully adjustable suspension seat with seatbelt.
- f. Adjustable arm rests.
- g. Finger tip controls for shifting.

Proposers must include in the space provided, any and all exceptions for 61,000 Lb. Track Type Bulldozer for Landfill Use. Indicate the Category and Subcategory when addressing exceptions.

EXCEPTIONS: We are offering the DEERE 1050C Landfill Dozer that meets or exceeds
all of the operational specifications. The DEERE 1050C is a hydrostatic
dozer with a complete landfill protection package.

(Please include additional pages as necessary under this section)

4) ONE 82,500 LB. TRACK TYPE BULLDOZER FOR LANDFILL USE

A. Base machine

- a. The machine will have a track gauge of at least 82 inches with a length of track on the ground of at least 126 inches.
- b. The overall length of the tractor when equipped with an SU blade shall not exceed 257 inches.
- c. The track roller frame will be attached on a suspended system, on which bogies oscillate on sealed and lubricated cartridge pin connection and are resiliently mounted to the roller frame.
- d. Ground clearance will be at least 21 inches when measured from the face of the track shoe (per SAE J1234 standard).
- e. Basic operating weight of the bulldozer **shall** not be less than 82,500 lbs. (includes lubricants, coolant hydraulic controls, full fuel tank, SU blade with tilt cylinder, standard shoes. Cab/EROPS, automatic fire suppression system, air conditioner (ROPS) and operator).

B. Engine

- a. Four stroke diesel, SAE J1349 net flywheel power **shall** be at least 310 hp.
- b. The engine shall be manufactured by the machine manufacturer.
- c. The engine **shall** have a turbocharger and after cooler providing full flywheel to a minimum of 7,500 ft. lb. Before altitude duration.
- d. Have a minimum torque rise of 55%.
- e. Alternator **shall** be 100 amp.
- f. Engine air cleaner shall be dual element dry type with a service indicator.
- g. Machine shall be equipped with a 24 volt starting system.
- h. Fuel tank shall be standard size.
- i. Machine shall be equipped with ether starting aid.
- j. Auto reversible cooling fan with cab override

C. Electrical system

- a. 24 volt system with diagnostic connector for trouble shooting starting and charging circuits.

D. Transmission/Powertrain

- a. Planetary type power shift transmission capable of making repeated speed and directional changes at full throttle, with three speeds forward and three reverse.
- b. A single control unit **shall** actuate both speed and directional changes.
- c. The transmission shall be a planetary type powershift with torque divider.
- d. The transmission **shall** be controlled by a single control unit for both direction and speed changes.
- e. The transmission **shall** have forward ground speed of at least 6.7 mph.
- f. The transmission **shall** have a reverse ground speed of at least 8.6 mph.
- g. The transmission **shall** have a minimum 1,000 hour oil change.

E. Steering and brakes

- a. The steering system will consist of differential steering.
- b. A one-hand dual twist control, which actuates the differential steering system, will be conveniently mounted to the operator's left.
- c. A single pedal mounted below the dash, will actuate self-adjusting spring applied hydraulically released service brakes.
- d. Oil cooled.
- e. Spring applied oil released.
- f. Multiple-disc design.
- g. Self-adjusting.

F. Undercarriage

- a. Standard undercarriage shall have fully suspended undercarriage.
- b. Standard undercarriage shall have eight-track roller per side.
- c. Standard undercarriage shall have lift-time lubricated track rollers.
- d. Standard undercarriage shall have sealed lift-time lubricated idler.
- e. Standard undercarriage shall have bolt on, replaceable sprocket segments.
- f. Standard undercarriage shall have sealed and lubricated track to prevent entry of dirt, with oil-lubricated internal bushing and external pin surfaces.
- g. Design must be that of tractor manufacturer.
- h. Shoes shall be standard width". Shall submit the width of the shoes to be extreme service.
- i. Trapezoidal hole design.

G. Final drives

- a. Final drive **shall** be elevated.
- b. Final drive **shall** have a double reduction, planetary design.
- c. Final drive **shall** have a minimum 2,000 hour oil change period.
- d. Final drive shall have a modular design for easy service and allow for removal by only braking track.
- e. Final drive shall be isolated from ground-induced shock load.

H. Hydraulics

- a. Hydraulics and controls **shall** have a load-sensing, variable displacement piston pump that adjusts hydraulic flow to match equipment demands.
- b. Hydraulics and controls **shall** have a single lever for dozer control function.

I. Work tool

- a. The machine will be equipped with a semi-universal bulldozer. The bulldozer will have a minimum blade capacity of 26 cubic yards (per SAE J1265) trash rack, and a minimum dig depth of 22.9 inches.

J. Vandalism

- a. Locking caps (or compartments for cap locks) shall be provided for the fuel tank, engine oil filter, radiator filler and dipstick.

- b. Battery box locks (2) and left-hand service area cover lock also shall be provided.
- c. Guards: Hinged radiator and blast deflector guard, hinged extreme-service crankcase.
- d. Horn on front.
- e. Front pull hook.

K. Landfill Arrangement

- a. **Shall** have guards on final drives to help prevent wire, nylon strapping from damaging the seals.
- b. **Shall** have guards to protect idler seals from wire, fishing line and other debris from wrapping around and damaging the seals.
- c. **Shall** have guards to protect pivot seals, keep debris from entering and damaging seals as well as bolts on the pivot shaft retainer.
- d. Guards to protect the engine compartment by deflecting debris from rising upward along the chassis.
- e. Tilt cylinder lines to protect hydraulic lines from contact damage while maintaining hose flexibility.
- f. Heavy duty radiator hinged to protect cooling system, two quick release T handles for center opening. Special latches retain the guard in the open position.
- g. Guard to protect the fuel and hydraulic tanks.
- h. Raised pre-screener to help reduce the likelihood of airborne paper or plastic plugging the air intake. It provides a larger air inlet.
- i. Heavy duty steps and handles, manufactured from plate steel and solid rod to withstand the rigors of landfill operators.
- j. ROPS mounted air conditioner condenser and fan, relocated from the engine compartment to the ROPS to reduce debris and plugging. Also increases the calculated cooling capacity of the machine for operation in high temperatures.
- k. Shall have reversible fan.

Proposers must include in the space provided, any and all exceptions for 82,500 Lb. Track Type Bulldozer for Landfill Use. Indicate the Category and Subcategory when addressing exceptions.

EXCEPTIONS: We are offering the DEERE 1050C Landfill Dozer that meets or exceeds all of the operational specifications. The DEERE 1050C is a hydrostatic dozer with a complete landfill protection package.

(Please include additional pages as necessary under this section)

324 SAE NET HORSEPOWER



JOHN DEERE

C

DOZER



Purpose built.

When Deere engineers set out to design the ultimate waste handler, they couldn't have picked a better platform. With its full-featured hydrostatic drivetrain, John Deere's 44-ton, 324-horsepower 1050C Dozer delivers automatic power management, infinite ground speeds, power turns, and all kinds of hydrostatically driven productivity advantages. But power and nimble performance are just the

beginning of the 1050C Waste Handler's story. To make it the best possible landfill dozer, Deere engineers went right to the source — solid waste managers — to think through the solutions a purpose-built waste handler can provide. To learn what we learned, turn the page.

The rugged and reliable 1050C is one powerful performer. Designed and built with extensive input from solid-waste professionals like you.

With its full-featured hydrostatic drivetrain, this agile 44-ton waste handler delivers production-boosting advantages you don't get with other crawlers in its class.

Numerous cooling system enhancements help beat the heat, for maximum uptime and productivity.

1050C

324 SAE net hp

27.7- or 32-cu.-yd. blade

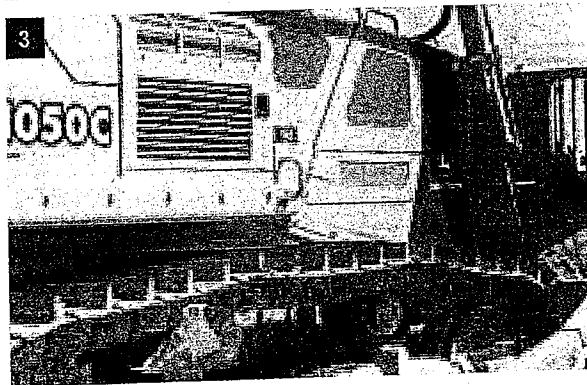
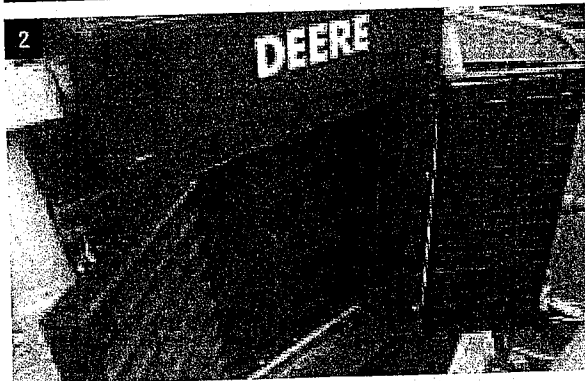
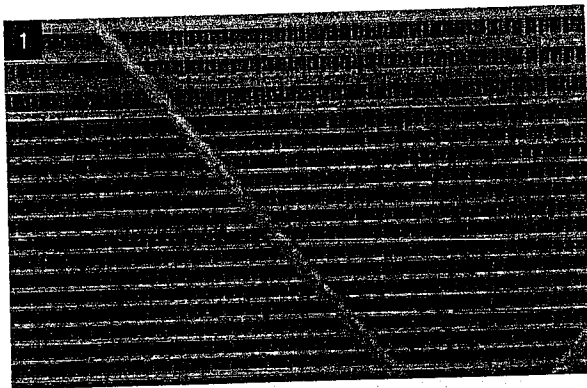
87,000-lb. operating weight



Three-millimeter perforations in the hood and side shields act as a "first filter," preventing entry of most airborne debris.

Variable-speed fans run at speeds appropriate for operating conditions to preserve power and precious fuel.

1. Five-fin-per-inch radiator core resists plugging. In-line core tubes make clean-out easier.
2. Hinged front grille allows easy access for maintenance and cleaning.
3. Corrugated screens and hydraulically driven fans take the heat away from the transmission oil and engine coolant. Reversing fans engage automatically every 30 minutes to blow away refuse and help prevent plugging. Fans can also be operated manually from the seat as needed.





Increases your uptime while keeping its cool.

"If you can't take the heat, stay out of the landfill." We heard that loud and clear. So go ahead and put it through

its paces — this is one waste handler that's got what it takes to keep its cool in a hostile world.



1050C

Relentless.

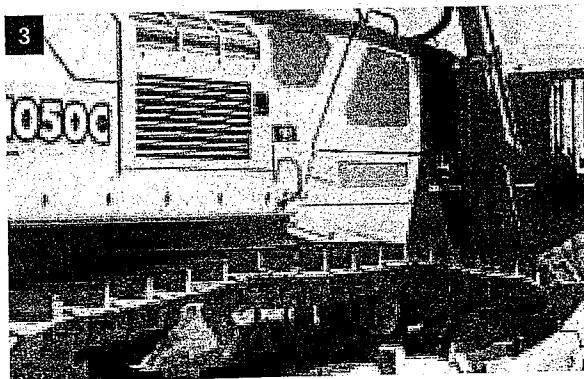
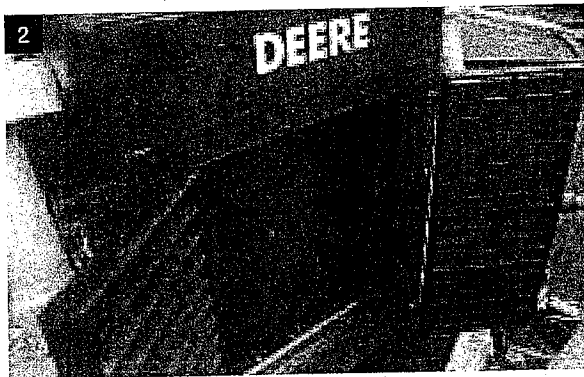
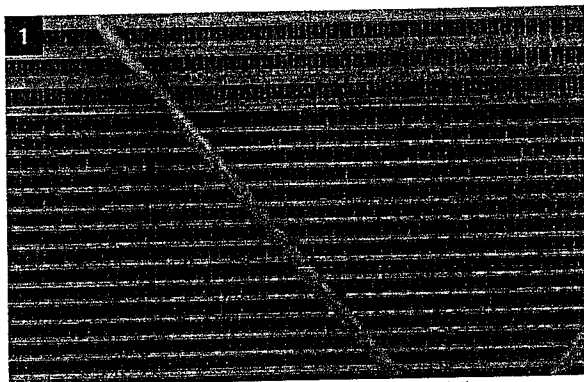
You won't have operators standing by with the 1050C. We sweat the details to make this crawler's bulletproof design waste proof as well.

If something's susceptible to damage, we've sealed, moved, re-routed, or re-engineered it — all in the name of uptime.

Three-millimeter perforations in the hood and side shields act as a "first filter," preventing entry of most airborne debris.

Variable-speed fans run at speeds appropriate for operating conditions to preserve power and precious fuel.

1. Five-fin-per-inch radiator core resists plugging. Inline core tubes make clean-out easier.
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Increases your uptime while keeping its cool.

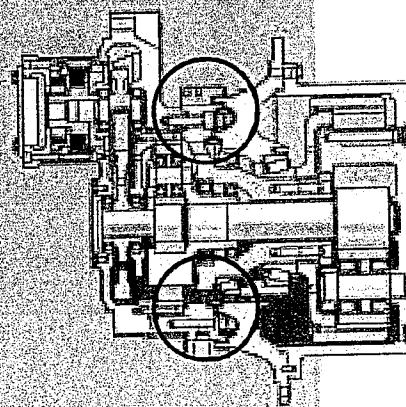
"If you can't take the heat, stay out of the landfill." We heard that loud and clear. So go ahead and put it through its paces — this is one waste handler that's got what it takes to keep its cool in a hostile world.



Exclusive Final Drive Protection

You know how expensive final drive repairs can be. Only the 1050C Waste Handler provides this level of final drive protection to keep you up and running.

Three-step protection forms a stepped labyrinth to protect the final drives. Bolt-on seal guards provide the first layer of protection. If debris gets past this point, it encounters an oil-filled double seal that stands guard outside the final drive. Should debris penetrate the first oil-filled inner seal, the oil escapes, setting off a visual warning in the cab, alerting the operator to shut down the machine. The second seal maintains oil in the final drives. It's an early warning system that can help avoid unscheduled downtime and expense.



Heavy-duty light package helps illuminate the way. Lights are guarded to minimize damage.

Cab waste barrier prevents refuse from accumulating in the power train.

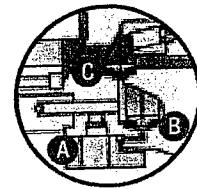
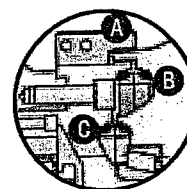
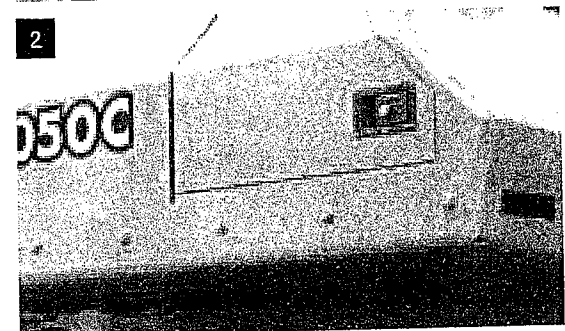
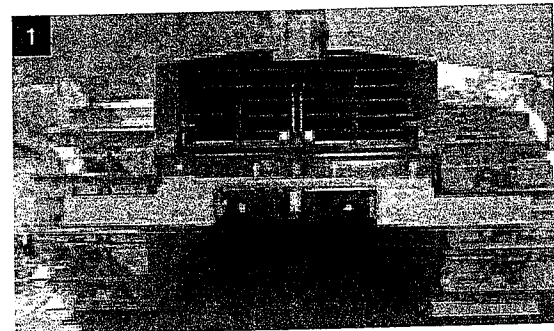
Air-conditioner condenser is mounted behind the cab for extra protection at no extra cost.

Comprehensive hose guard system and internal routing keep hydraulic hoses out of danger.

Tightly sealed engine compartment reduces air velocity and prevents vacuuming of debris.

Turbocharger heat shield reduces fire risk.

1. Available front and/or rear striker bars shed material from the tracks.
2. Fuel tank guard and heavy-duty hinged bottom guards minimize damage, especially from C&D materials. Heavy-duty reinforcement bars protect the engine side shields and radiator.

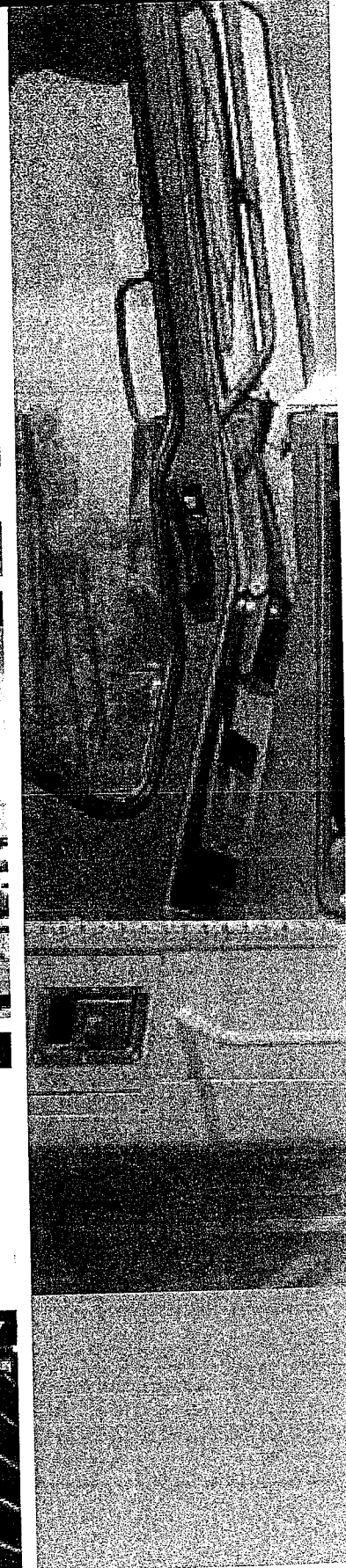
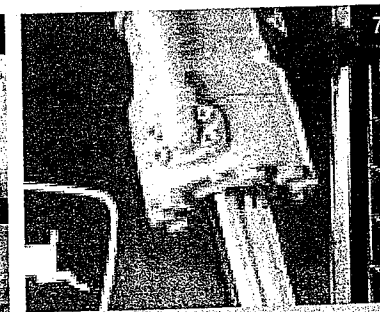
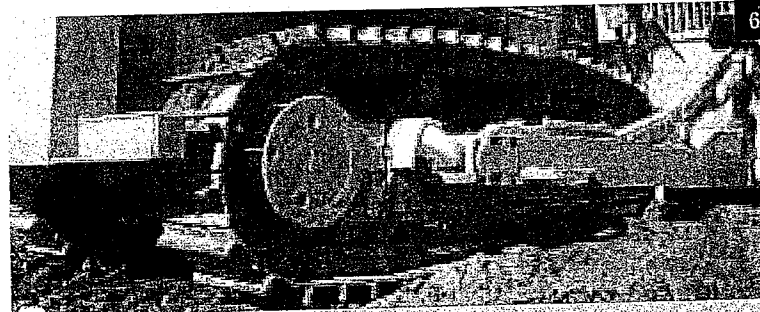
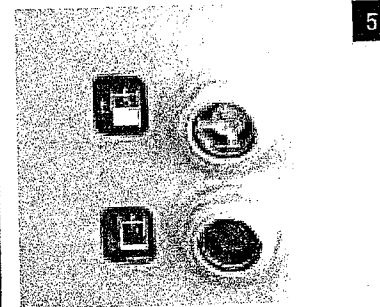
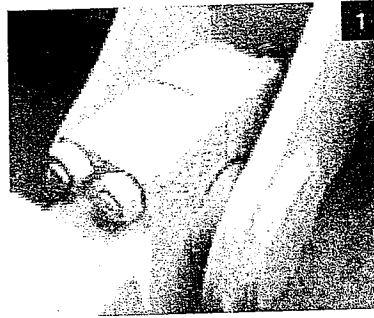


A. Final drive seal guard B. Outer seal C. Inner seal

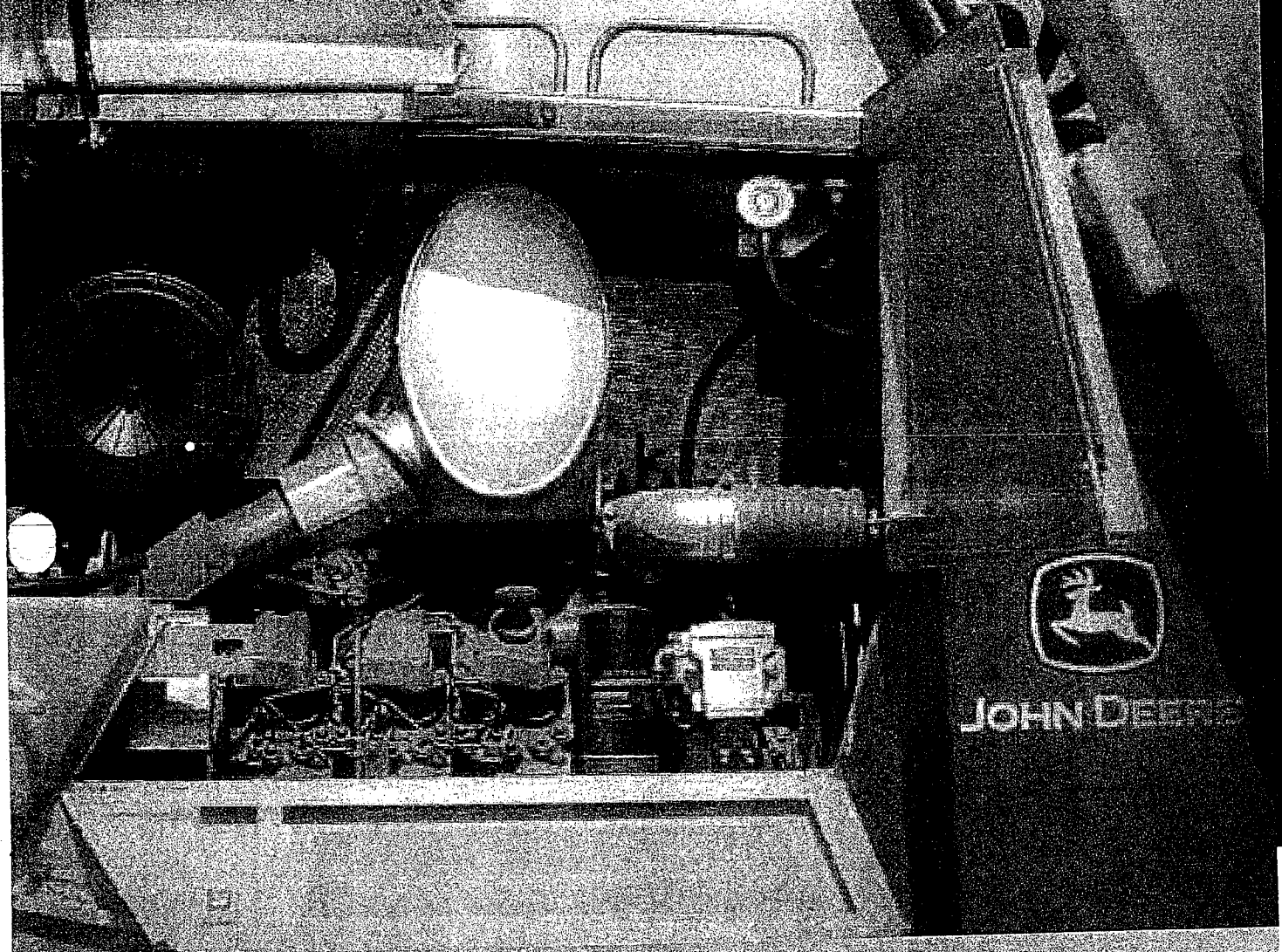
All daily engine service checks are accomplished on the right side. A conveniently located periodic maintenance chart helps ensure that nothing is overlooked.

Deere Customer Personal Service (CPS) brings you access to online parts orders and a wealth of technical information. It's just another way your John Deere dealer can help keep your operating costs low.

1. Replaceable half-shell bearings within the dozer push beams provide longer component life.
2. Convenient test ports allow quick hydrostatic-drive diagnostics.
3. No need to disconnect cooling system or hydraulic hoses when you want to tilt the cab. A built-in jack provides quick and easy access to drivetrain components.
4. Turbocharged V-6 diesel delivers 324 hp at a slow 1,800 rpm for enhanced longevity and optimum fuel economy. Wet-type cylinder liners dissipate heat for reduced ring wear and oil breakdown.
5. Sight gauges provide quick daily checks of hydraulic/transmission and final-drive fluids. Monitor signals an alert should these levels drop.
6. The 1050C's DuraTrax™ traditional oval undercarriage has only one wear-causing forward-travel flex point. Compared to the three flex points found on elevated sprocket undercarriages, which do you think will last longer?
7. Bolt-on rod guides are easy to remove should cylinder repair ever become necessary.



Big dozer, minimal maintenance.



Your maintenance crew won't have to crawl all over this crawler to maintain it. Like all Deere equipment, daily and periodic service points are conveniently grouped, with many behind hinged side shields that open wide, simplifying fluid and filter checks for increased uptime.

Major production.



This purpose-built waste handler has everything it needs for maximum uptime and minimum maintenance, plus numerous production-boosting advantages.

The 1050C's hydrostatic-drive system goes beyond the limits of other dozers, delivering infinite speed control, power management, and full power turns. With their conventional torque

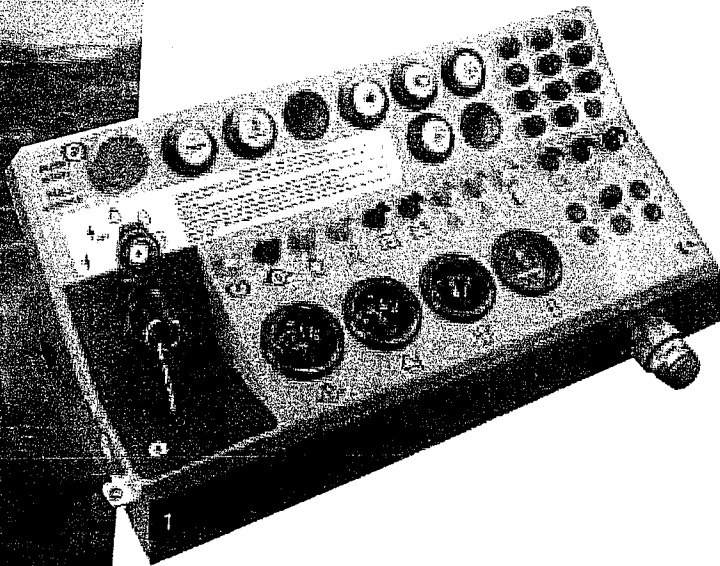
converter transmission and clutch/brake or differential steering system, other dozers just can't match the 1050C's operating ease.

Hydrostatic drive isn't the only thing that enables the 1050C to exceed the others. Its traditional oval undercarriage design also incorporates several features that help it deliver long life and a smooth, productive ride.

Power management system takes the guess and work out of efficient operation. Just set the maximum desired ground speed and the crawler does the rest. As loads change, the drivetrain responds, automatically powering up or down to maintain peak engine rpm and efficiency.

Infinitely variable track control lets you speed up or slow power to each track — for smooth, full power turns of any radius. Unlike dozers with differential steering, tight turns are possible at any travel speed.

Maintenance-free oscillating track frames utilize a unique cushioned pivot shaft that absorbs shock loads for enhanced comfort.

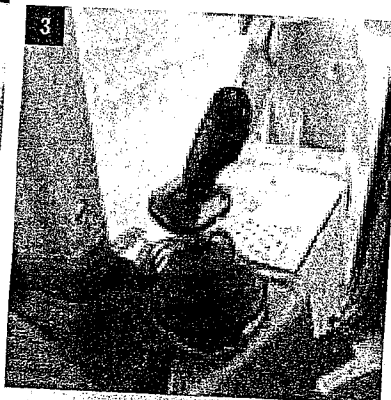
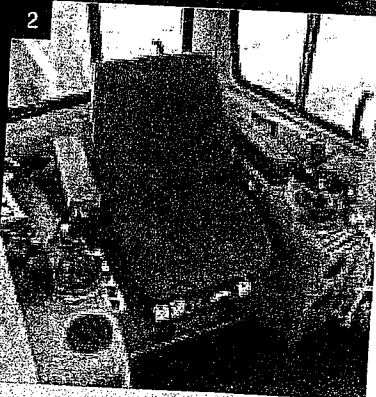


1. Electronic monitor keeps a vigilant watch on vital machine functions.

2. Spacious and quiet walk-through air-conditioned cab is a standard feature that provides virtually unobstructed all-around visibility and all-day comfort.

3. Pilot-operated single lever gives intuitive, low-effort control of steering, forward/reverse travel, and ground speed. A handle-mounted switch selects the speed range. One-hundred percent of available power is always applied, regardless of the selected range, for top productivity all the time.

4. Load-sensing hydraulic system delivers low-effort metering to the pilot-operated blade control.



Specifications

Engine

1050C

Type	Liebherr D 9406 TI-E A3 intercooled and turbocharged diesel; meets EPA Tier II non-road emissions regulations	
Engine power per ISO 9249	324 SAE net hp (242 kW) @ 1,800 rpm	
Cylinders (wet sleeve)	V6	
Displacement	793 cu. in. (13 L)	
Fuel consumption, typical	7.7 to 13.2 gal./hr. (29 to 50 L/h)	
Maximum net torque	1,129 lb.-ft. (1530 Nm) @ 1,200 rpm	
Lubrication	pressure system with full-flow spin-on filter and integrated oil-to-water cooler	
Air cleaner	dual stage dry type with safety element, aspirated precleaner, and restriction indicator light	
Electrical system	24 volt with 80-amp alternator	
Cooling system	5-fin-per-in. radiator with auto-reversing thermostatically controlled hydrostatic blower fan	
Cold-starting aid	flame-glow intake air heater	

Transmission

Dual-path, electronic-controlled, closed-loop hydrostatic drive; load-sensing feature automatically adjusts speed and power to match changing load conditions; each individual track is powered by a variable displacement pump and motor combination; single lever controls speed and direction; ground speed (forward and reverse) infinite to 6.8 mph (11 km/h); decelerator pedal permits speed reduction from 6.8 mph (11 km/h) to holding; three working ranges; maximum speed-range control switch located in single-lever handle; maximum speed in range is selected by F-N-R lever position

Travel speeds (infinitely variable)	Forward	Reverse
1st speed range	0 to 2.5 mph (0 to 4.0 km/h)	0 to 3.0 mph (0 to 4.8 km/h)
2nd speed range	0 to 4.0 mph (0 to 6.5 km/h)	0 to 4.8 mph (0 to 7.7 km/h)
3rd speed range	0 to 6.8 mph (0 to 11.0 km/h)	0 to 6.8 mph (0 to 11.0 km/h)

Final Drives

Heavy-duty, combination spur gear with double-reduction planetary final drives mounted independent of track frame and dozer push frame for isolation from shock loads; the hydraulic drive motors are mounted to the mainframe; final drives are double sealed with electronic seal-integrity indicator and final drive seal guards

Steering

Fully modulated, infinitely variable, single-lever steering allows for full power turns and counterrotation; infinitely variable track speeds provide unlimited maneuverability and optimum control; hydrostatic steering eliminates steering clutches and brakes

Brakes

Hydrostatic (dynamic) braking stops the machine whenever the direction-control lever is moved to neutral or whenever the combined decelerator/brake pedal is fully depressed

Automatic Park Brake

Exclusive park brake feature engages wet, multiple-disc brakes whenever the engine stops, whenever the combined decelerator/brake pedal is fully depressed, whenever the park lock lever is placed in the start position, whenever the park brake button is pushed on the dash, whenever the F-N-R control is in the neutral position for more than seven seconds, or whenever machine motion is sensed with F-N-R in neutral position; machine cannot be driven with brake applied, reducing wear out or need for adjustment

Hydraulic System

1050C

System type	load sensing
Pressure, system relief	2,900 psi (20 000 kPa)
Pump type	variable-displacement piston pump with load-sensing proportional pump flow control
Flow	89 gpm (336 L/min.) @ 1,900 rpm
Filter, return oil	20 micron and 5 micron with magnetic particle attractors
Control	single joystick lever
Cylinders	heat-treated, chrome-plated, polished cylinder rods with hardened steel pivot pins, replaceable bushings, and bolted rod guides
Hydraulic/transmission cooling fan	remote oil-to-air heat exchanger with auto-reversing thermostatically controlled hydrostatic fan

Capacities (U.S.)

Fuel tank with lockable cap (12-hr. typical usage)	161 gal. (610 L)
Cooling system with recovery tank	18 gal. (68 L)
Engine oil with spin-on filter	6.3 gal. (24 L)
Final drive (each)	5.5 gal. (21 L)
Hydraulic/hydrostatic reservoir with filter	55 gal. (210 L)
Splitter drive	6.3 qt. (6 L)
All power train and hydraulic systems allow for up to 45-degree maximum operation.	

Undercarriage

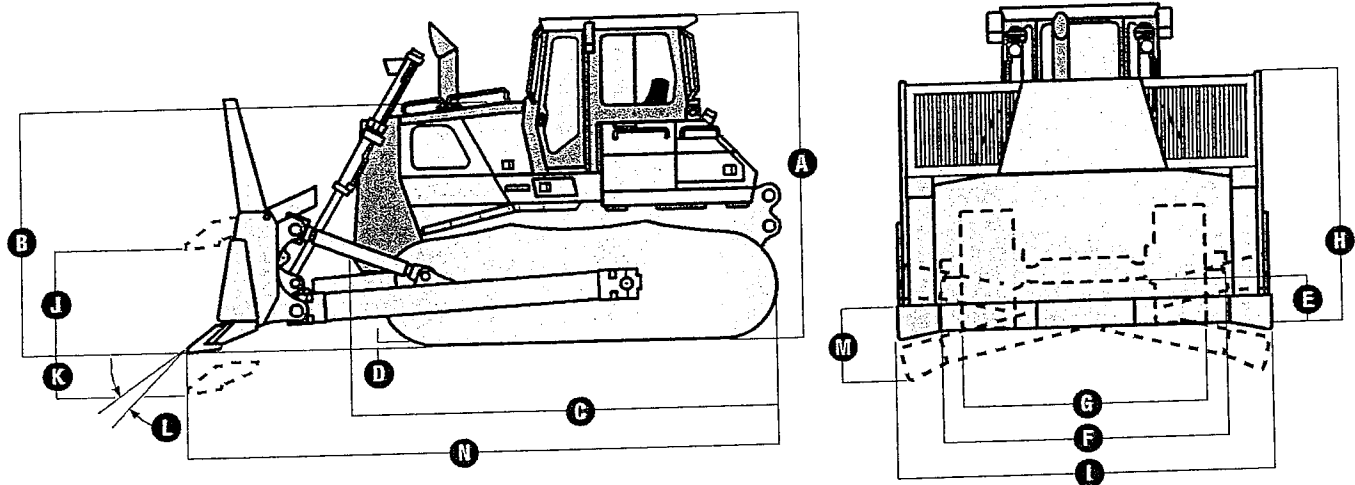
John Deere Dura-Trax™ deep heat-treated track links and through-hardened rollers for maximum wear resistance; front and rear track guides and sprocket guards; extreme-service single-bar grouser shoes with trapezoidal holes	
Sprocket	segmented with recesses
Chain	sealed and lubricated
Track shoes, each side	44
Ground contact area	
24-in. (610 mm) shoes	6,000 sq. in. (38 700 cm ²)
26-in. (660 mm) shoes	6,495 sq. in. (41 900 cm ²)
28-in. (711 mm) shoes	6,990 sq. in. (45 100 cm ²)
Ground clearance, minimum	25 in. (625 mm)
Length of track on ground	125 in. (3174 mm)
Track gauge, standard	86 in. (2180 mm)
Oscillation at front idler	13 in. (330 mm)
Track rollers, each side	7
Carrier rollers, each side	2
Track pitch	8.5 in. (215 mm)

Ground Pressures

	14,460-lb. (6559 kg) Semi-U Dozer Blade With Push Beams and Trash Rack	16,300-lb. (7394 kg) U Dozer Blade With Push Beam and Trash Rack
With base waste package, 175-lb. (79 kg) operator, and full fuel tank		
24-in. (610 mm) shoes	12.9 psi (89 kPa)	13.2 psi (91 kPa)
26-in. (660 mm) shoes	12.0 psi (83 kPa)	12.3 psi (85 kPa)
28-in. (711 mm) shoes	11.2 psi (77 kPa)	11.5 psi (79 kPa)

SAE Operating Weights

	14,460-lb. (6559 kg) Semi-U Dozer Blade With Push Beams and Trash Rack	16,300-lb. (7394 kg) U Dozer Blade With Push Beams and Trash Rack	Tractor Shipping Weight Without Blade or Attachments
With base waste package, 175-lb. (79 kg) operator, and full fuel tank			
24-in. (610 mm) shoes	77,445 lb. (35 129 kg)	79,285 lb. (35 963 kg)	62,985 lb. (28 570 kg)
26-in. (660 mm) shoes	77,951 lb. (35 358 kg)	79,791 lb. (36 193 kg)	63,491 lb. (28,799 kg)
28-in. (711 mm) shoes	78,455 lb. (35 587 kg)	80,295 lb. (36 422 kg)	63,995 lb. (29,028 kg)



Dimensions 1050C

A	Height over cab (including grousers) . . .	143 in. (3640 mm)
B	Height over engine cover	107 in. (2725 mm)
C	Overall length (without blade)	192 in. (4885 mm)
D	Height of grousers	3.3 in. (84 mm)
E	Ground clearance	25 in. (625 mm)
F	Total width over blade-mounting trunnions	124 in. (3145 mm)
G	Width over shoes	
	24 in. (610 mm)	110 in. (2790 mm)
	26 in. (660 mm)	112 in. (2845 mm)
	28 in. (711 mm)	114 in. (2891 mm)

Blades with Trash Rack

	Semi-U Dozer Blade	U Dozer Blade
Blade weight (including push beams, trunnion mounts, cupped end bits, tilt cylinder, and trash rack)	14,460 lb. (6558 kg)	16,300 lb. (7395 kg)
Blade capacity	27.7 cu. yd. (21.2 m ³)	32.0 cu. yd. (24.5 m ³)
H Height of blade	97 in. (2450 mm)	94 in. (2387 mm)
I Width of blade	165 in. (4200 mm)	170 in. (4325 mm)
J Lifting height	55 in. (1400 mm)	55 in. (1400 mm)
K Blade digging depth	22 in. (570 mm)	22 in. (570 mm)
L Maximum blade pitch adjustment	10 degrees	10 degrees
M Maximum tilt	39 in. (1000 mm)	40 in. (1025 mm)
N Overall length	252 in. (6415 mm)	272 in. (6915 mm)

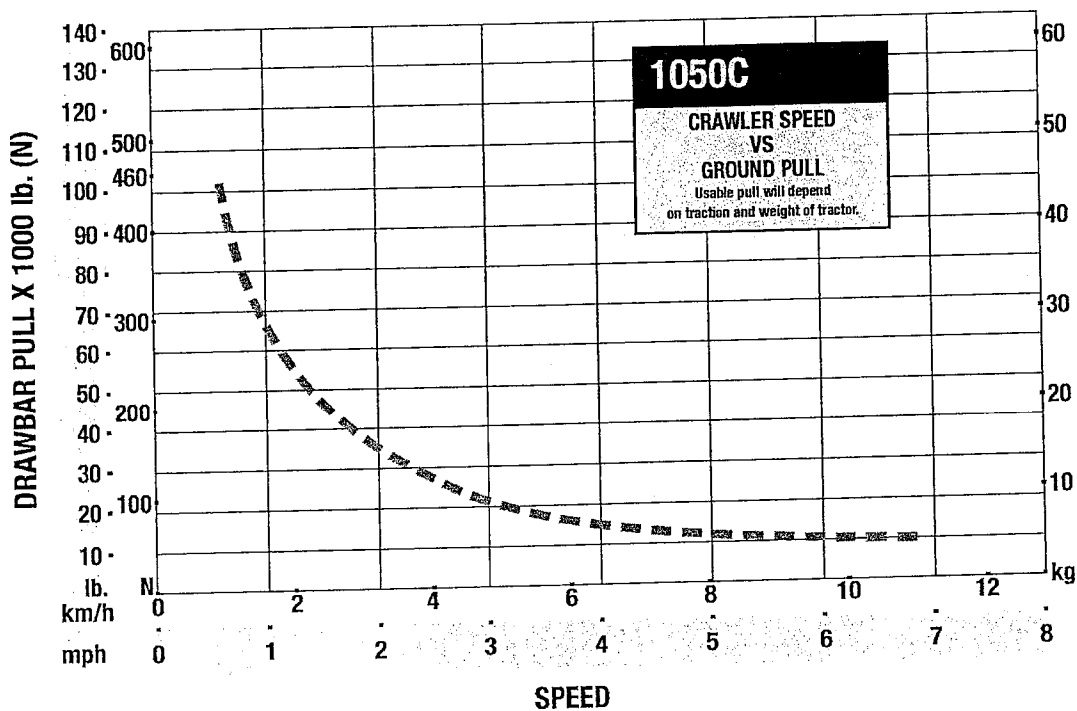
Optional or Special Equipment

1050C

Add (+) or deduct (-) lb. (kg) as indicated to base weight for units with

26-in. (660 mm) extreme-service shoes . . .	506 lb. (230 kg)
28-in. (711 mm) extreme-service shoes . . .	1,010 lb. (458 kg)
Auxiliary hydraulics for rear attachment . . .	326 lb. (148 kg)
Full-length rock guards	617 lb. (280 kg)
Heavy-duty cutting edges	176 lb. (80 kg)
Power-pitch push arms with dual-tilt cylinders with hydraulics	650 lb. (295 kg)
Rear counterweight with retrieval hitch*	6,613 lb. (3000 kg)
	9,261 lb. (4201 kg)
	8,000 lb. (3629 kg) with storage compartment
Rigid heavy-duty drawbar*	1,460 lb. (662 kg)
Rippers*	9,390 lb. (4259 kg) single shank
	11,800 lb. (5353 kg) multi-shank (3)
Pin puller for single-shank ripper	106 lb. (48 kg)
Striker bars	
Front	432 lb. (196 kg)
Rear	
For counterweight	105 lb. (48 kg)
For ripper	161 lb. (73 kg)
Push beam wear plates	205 lb. (93 kg)
Wiggins fast-fuel system	15 lb. (7 kg)
Radiator sand shield	77 lb. (35 kg)
Air-suspension seat	35 lb. (16 kg)

*Cannot be used with other rear attachments.



1050C WASTE HANDLER

Key: ● Standard equipment ▲ Optional or special equipment

*See your John Deere dealer for further information.

1050C Engine

- 324-hp (242 kW) Liebherr D 9406 TI-E A3 direct-injection, intercooled, turbocharged V6-cylinder diesel; meets EPA Tier II non-road emissions regulations
- Automatic reversing fans for engine and hydraulic cooling systems with timer and manual override
- Blower-type cooling fan with hydrostatic drive
- Deep engine oil pan allows up to 45-degree operation
- Dual-element dry-type aspirated air cleaner with automatic dust ejector
- Electric fuel pump
- Enclosed secondary fan guard (conforms to SAE J1308)
- Engine coolant to -34°F (-37°C)
- Fuel system with prefilter, water separator, and microfilters
- Heavy-duty five-fin-per-in. radiator
- Hydraulic engine retarder
- Intake air heater cold-starting aid
- Under-hood muffler with vertical exhaust stack
- Oil-to-water engine oil cooler
- Spin-on full-flow oil filter, with anti-drain-back valve
- Starter motor, 8.85 hp (6.6 kW)
- Turbocharger provides spark arresting
- ▲ Engine coolant heater, 1,000 watt, 120 volt
- ▲ Radiator sand screen

Power Train

- Dual-path hydrostatic transmission: Dynamic braking / Electronically controlled with power management and AutoTrac / Infinite speed control / Inline F-N-R direction control / Single-lever steer with full power turn and counterrotation
- Automatic spring-applied, hydraulic released parking brake
- Hydraulic/transmission oil-to-air cooler, independent of radiator with hydrostatically driven cooling fan
- Park brake button: Neutralizes transmission and activates parking brake
- Three-speed transmission maximum speed control with dash-mounted indicator light
- Transmission system diagnostic test ports

Electrical

- 24-volt system
- Power port, 12 volt, 10 amp
- Power port, 24 volt, 5 amp
- Alternator, 80 amp
- Batteries (2), heavy-duty cold start, 1,000 CCA
- Positive battery terminal covers
- Electrically activated battery master disconnect

1050C Electrical (continued)

- Breaker protected circuits
- Working lights, cab mounted, front (4) and rear (2)

Hydraulic System

- 89-gpm (336 L/min.) load-sensing variable-displacement pump
- Blade quick-drop valve
- Circuit relief valve protection
- Hydraulic functions disabled with park lock lever
- Hydraulic/hydrostatic oil reservoir with sight glass
- Hydraulic system diagnostic test port
- Replaceable filter, 20/5 micron with magnetic particle attractors
- Tank shutoff valves for service
- Two-function single-lever dozer-control valve
- ▲ Hydraulic controls for dual tilt and power pitch
- ▲ Hydraulic controls for rear attachments

Undercarriage

- 86-in. (2180 mm) gauge standard track frame
- Center track guides
- Front idler and sprocket chain guides
- Hydraulic track adjusters with dirt cover
- Oscillating track frames
- Integral track frame covers
- Isolation-mounted pivot shafts and equalizer bar
- Maintenance-free track components, sealed and lubricated rollers, idlers, and sprockets
- Sealed and lubricated track chain
- ▲ 24-in. (610 mm) extreme-service single-bar grouser shoes with relief holes
- ▲ 26-in. (660 mm) extreme-service single-bar grouser shoes with relief holes
- ▲ 28-in. (711 mm) extreme-service single-bar grouser shoes with relief holes
- ▲ Full-length bolt-on rock guards

Operator's Station

- Modular cab with integrated ROPS/FOPS (conforms to SAE J1040, ISO 3471/3449): Hydraulically tiltable rearward 40 degrees / Isolation mounted / Air conditioner/heater/ defroster/pressurizer with filtered fresh air intake and three-speed blower / Ashtray / Dome light / Lockable left and right doors (open and closed position) / Radio-installation provision / Rearview mirror / Rubber floor mat / Sliding left-hand window / Tinted glass / Windshield wipers, front and rear, with washers
- Storage compartment with operator's manual

1050C Operator's Station (continued)

- 15-degree angle seat with tiltable fabric cushions, adjustable fore-aft, height/weight, backrest, and armrests
- Deluxe mechanical-suspension seat
- ▲ Deluxe power-adjustable air-suspension seat
- Seat belt, 2-in. (50 mm), retractable (conforms to SAE J386)
- ▲ Seat belt, 3-in. (76 mm), retractable with CRS (conforms to SAE J386)*
- Electronic monitor system with visual warnings: Engine air filter restriction / Final drive seal integrity / Hydraulic/hydrostatic filter restriction / Hydrostatic transmission pressure / Low alternator voltage / Park brake
- Gauges, electric, illuminated: Engine coolant temperature / Engine oil pressure / Fuel / Hourmeter
- Horn, electric
- Key start switch
- Lever-controlled throttle with manual shutoff
- ▲ Radio AM/FM*

Landfill Package

- Final drive seal guards / Heavy-duty fender bottom guard / Heavy-duty reinforced sealed hinged bottom guards / Cab waste barrier / Sealed engine side doors / Engine door protection bars / Perforated engine firewall and rear frame access panel / Additional lights (4): Cylinder mounted (2) and rear cab (2) / Turbocharger heat shield / Recessed sprocket segments / Hydraulic oil temperature gauge / Open bottom fan guard for easy cleanout
- ▲ Striker bars: Front or rear / Semi-U or U blade with trash racks / Push arm wear plates / Rotary dual-stage engine air pre-cleaner / Wiggins fast-fuel system / High-capacity cab air filtration / Rear counterweight with retrieval hitch / Rear counterweight with retrieval hitch and storage compartment

Other Attachments

- ▲ Heavy-duty cutting edges*
- ▲ Hydraulic pitch control with two tilt cylinders
- ▲ Push plates, blade liners, and end bits*
- ▲ Single-shank parallelogram ripper
- ▲ Multi-shank (3) parallelogram ripper
- ▲ Hydraulic pin puller for single-shank ripper
- ▲ Rigid heavy-duty drawbar

Overall Vehicle

- Hinged reinforced radiator guard
- Lifting lugs
- Lockable vandal protection
- Rear retrieval hitch
- Reverse warning alarm (conforms to SAE J994, J1446)
- Brake-release towing kit



JOHN DEERE

DKA1050CWH Litho in U.S.A. (04-08)

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 62708, using No. 2-D fuel at 35 API gravity. No derating is required up to 10,000-ft. (3050 m) altitude.

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on a unit with standard equipment, modular ROPS/FOPS cab with air conditioning, 165-in. (4191 mm) semi-U blade with standard cutting edges, landfill package, full fuel tank, and 175-lb. (79 kg) operator.



- 5) (1) ONE 80,000 LB. LANDFILL COMPACTOR (Note that It is the intent of the County to lease either this or the 120,000 LB. size Compactor, not both).

A. General

- a. Minimum operating weight, including ROPS cab, landfill blade, and 48 inches wheels will be 73,000 lbs.
- b. Minimum 12 foot width at the center of the wheels.
- c. Minimum two-pass coverage of 16 feet.

B. Engine

- a. Six (6) cylinder, liquid cooled, turbo-charged diesel engine developing a minimum 335 horsepower at the flywheel.
- b. 24 volt electric starting, w/diagnostic connector for troubleshooting.
- c. Engine enclosures.
- d. Minimum 50 amp alternator.
- e. Minimum 875 cubic inch displacement.
- f. A trash resistant radiator shall be provided, liquid cooled.
- g. **Auto** reversible cooling fan with cab override to purge trash from radiator.
- h. Minimum 150 gallon fuel tank.
- i. Hinged, heavy duty radiator.
- j. Pre-screener.
- k. Fan shall reverse the air flow periodically to purge material and debris from radiator and engine compartment while the machine is working without stopping.
- l. **Shall** provide a radiator grill screen and perforated side panels for operating in suction mode.

C. Transmission

- a. Full planetary power shift with two (2) forward and two (2) reverse speeds.
- b. On-the-go shifting through all speeds and forward to reverse.
- c. Minimum 75,000 lbs. rim pull in 1st gear.
- d. One hand operation for steering and transmission controls.

D. Steering

- a. Center point frame articulation.
- b. Full hydraulic power, not less than 80 degrees total articulation.

E. Axles

- a. All wheel drive with planetary reduction in each wheel.
- b. Minimum 5 degree rear axle oscillation.
- c. No-spin differential on the front axle.
- d. Axle seal guards.

F. Wheels

- a. Machine **shall** be equipped with 48 inch compaction wheels with heavy duty weld on tips with a 10,000 hour wear guarantee.

- b. Shall have self cleaning wheels.

G. Brakes

- a. Fully enclosed, oil service brakes. Must be self-adjusting.
- b. Independent parking brake.

H. Frame

- a. Box section frames front and rear.
- b. Two hardened steel pins to couple the front and rear frames.
- c. Each pin has double tapered roller bearings.

I. Hydraulics

- a. Minimum 50 gpm hydraulic pump for steering.
- b. Implement pump separate from steering pump.

J. Landfill Blade

- a. Blade to be constructed of high tensile strength corrosive and abrasive resistant steel plate, box section, with reversible cutting edge and replacement end bits.
- b. Upper portion of blade to be of see-through design (trash rack).
- c. Minimum 14 feet width and 6 feet height.
- d. Minimum ground clearance under blade at maximum raise of 3ft. 7inches.

K. Operator Compartment

- a. Sound suppressed ROPS, pressurized cab with tinted glass installed throughout.
- b. Air conditioned cab.
- c. Defroster fan and heater.
- d. Adjustable suspension seat with 3 inch seat belts, adjustments for lower back support-fore and aft, arm rests, operator weight, suspension dampening, tilt and recline.
- e. Windshield wipers and washers, front and rear.
- f. Outside rear view mirrors.
- g. Two (2) portable fire extinguishers (dry chemical w/ 10 lb. capacity) with quick release brackets.
- h. Adjustable steering column.
- i. Cab mounted lights.

L. Gauges/Indicators

- a. Engine oil temperature.
- b. Engine oil pressure.
- c. Alternator.
- d. Engine coolant temperature.
- e. Fuel level.
- f. Brake system pressure.
- g. Hydraulic oil temperature.

- h. Transmission oil temperature.
- i. Parking brake applied.

M. Severe service guards for landfill use

- a. Hydraulic lowered hinged power train guard.
- b. Hinged radiator guard.
- c. Steering cylinder guards.
- d. Engine compartment guards.
- e. Hydraulic lowered hinged crankcase guard.
- f. Brake line guards.
- g. Engine enclosure.
- h. Freeman wire cutters.

N. Accessories

- a. Striker bars, front and back of rear wheels and behind the front wheels to deflect debris.
- b. Drawbar.
- c. Operating, manual (two each).
- d. Backup alarm.
- e. Access door to oil dip stick and to emergency cut off key.
- f. Vandalism protection group, common key for engine dipstick, filter spout compartment, gas and engine starting. Cap locks for radiator, hydraulic tank and fuel tank.
- g. Fuel priming pump.
- h. Hydraulic tank sight gauge.
- i. Automatic fire suppression system.

O. Vehicle

- a. Vehicle shall be equipped with all standard equipment, as specified by manufactured for this model, unless otherwise specified in the listed minimum specifications.

Proposers must include in the space provided, any and all exceptions for 80,000 Lb. Landfill Compactor. Indicate the Category and Subcategory when addressing exceptions.

EXCEPTIONS: We are offering the BOMAG BC772RB Landfill Compactor. This unit meets or exceeds all of the operational specifications requested here. The 772 is a hydrostatic driven compactor with the unique Bomag protective frame design. It is equipped with the Bomag premium wheels with weld on caps that give excellent performance and excellent life. See the attached wheel and cap warranty for details.

(Please include additional pages as necessary under this section)

BOMAG

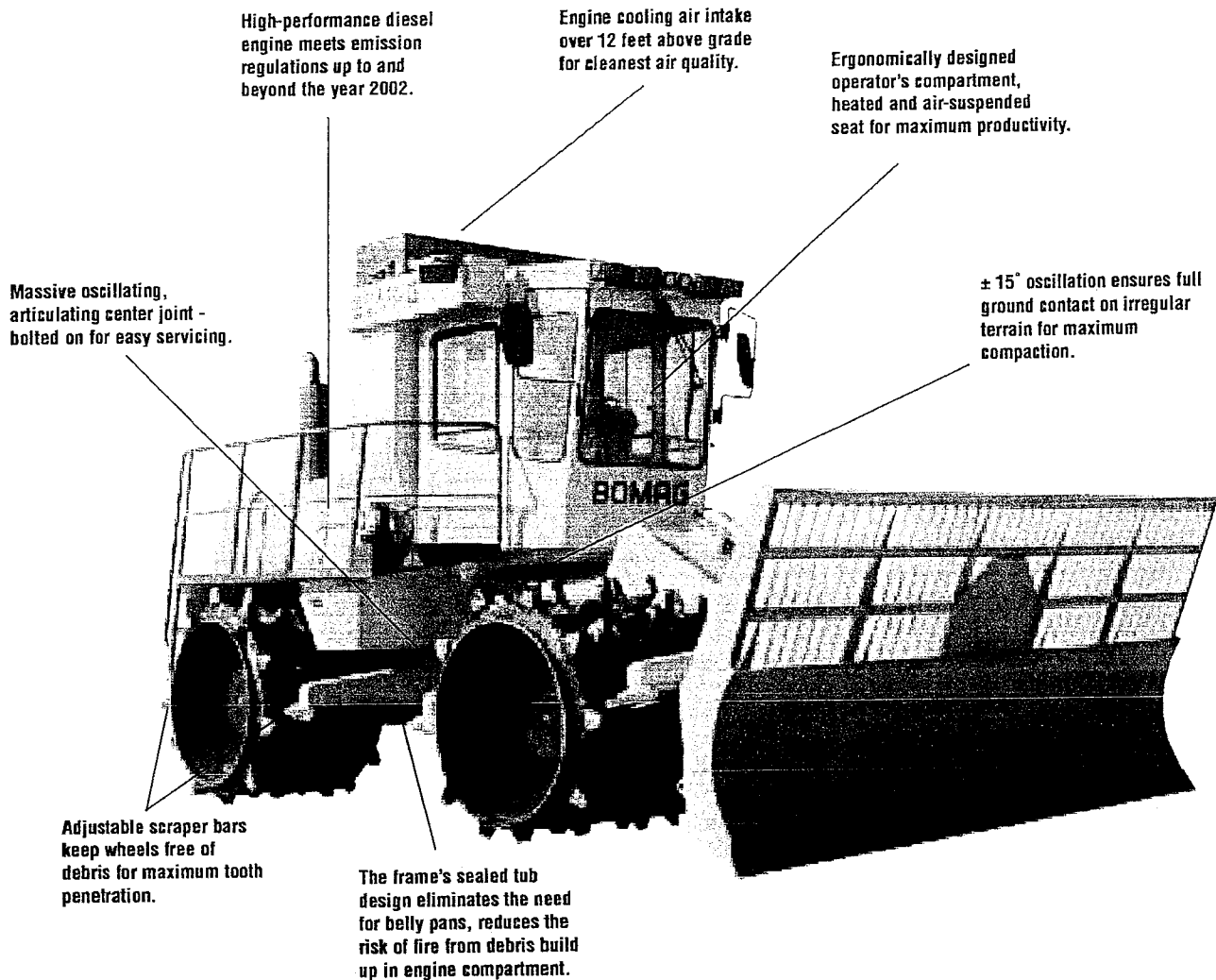
Refuse Compactor

BC672RB, BC772RB



- High pushing power (168 lbs/hp)-BC672RB and (183 lbs/hp)-BC772RB
- High compaction densities
- Efficient fuel consumption rate
- Quiet operation - quiet cab
- Stable and safe operation on slopes
- High compressive demolition force

BC672RB, BC672LB



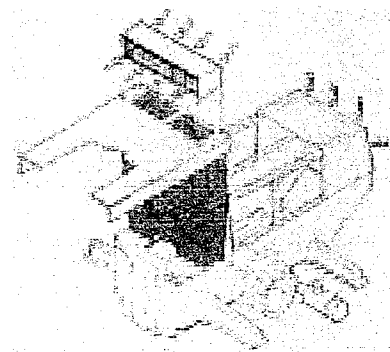
These models are designed specifically for landfill operation...

Despite the use of alternative processes, waste disposal in landfill sites is still the principle method in use today. A modern, well managed and engineered landfill is still a vital part of the global waste disposal concept.

For the most effective use of landfill space, a high performance refuse compactor, designed specifically for the extreme demands imposed by landfill conditions is needed. Proper compaction is key to ensure that refuse is deposited at the highest possible density. This reduces settling and water penetration, improves the running surface of the landfill and decreases the dangers of fire and landfill gas emissions. Increasing compacted densities through

the reduction of air voids extends the operating life of a landfill. High refuse density makes both environmental and economic sense.

Refuse is a mixture of vastly differing materials including large household and business waste, food, sludge, dust, and many other items. In order to compact these materials efficiently, the machine must be capable of dealing with the differing demands and varying problems they pose.



A BOMAG exclusive: utilizing the cleanest air possible from over 12 feet above grade

Normal operating conditions of a landfill site place extreme demands on the drive system of a refuse compactor. Pushing and spreading waste requires maximum torque and power; compacting in either forward or reverse direction on the working face demands highest tractive effort. The BC672RB/ BC772RB combines the efficient engine horsepower utilization of a hydrostatic drive system with 4 independent wheel drive motors to meet the challenges faced by a refuse compactor and to provide greater tractive effort regardless of operating conditions.



The operator's cab is vibration-isolated with excellent all-around visibility

Improved compaction performance and operating ease

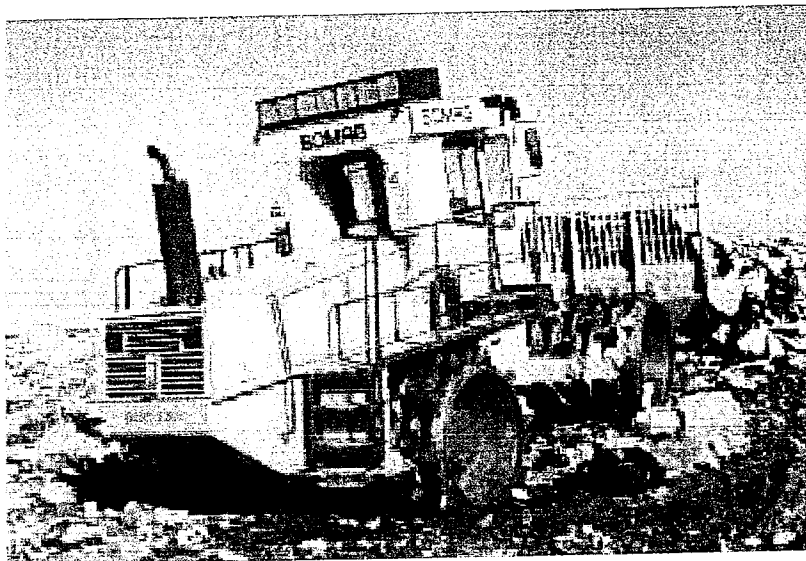
Handling is Easier and Safer

- Excellent all-around cab visibility with tinted safety glass.
- Heated and air-suspended seat makes operation fatigue-free and safe.
- Simple and clear control layout allows unfamiliar operators to work safely.
- Load Sensing System provides smoother and lighter steering and blade control.
- Joystick steering control
- Cab noise levels are lowest in the industry, less than 75 dBA.
- The ventilation system draws air through a fine filter and slightly pressurizes the cab to prevent entry of polluted air.
- The BC672RB has a powerful water-cooled diesel engine with 421 hp output at 2100 rpm. The BC772RB has an additional 21 hp pushing the rating to 442 hp output at 2100 rpm.
- Air for cooling and combustion is taken from a height of over 12 feet above grade. At this height the air is relatively free from dirt and dust and is cleaned by a fine mesh filter before entering the engine compartment.
- The sealed engine compartment maintains a positive pressure to prevent entry of debris.



Ergonomic control layout including joystick steering control.

- The Deutz BF6M1015 series engine with 726 C.I.D. and turbocharger will meet emission regulations until well past the year 2002 and gives high torque at low revolutions.
- Engine power on the BC672RB/ BC772RB drives a hydrostatic system with independent 4 wheel drive motors.



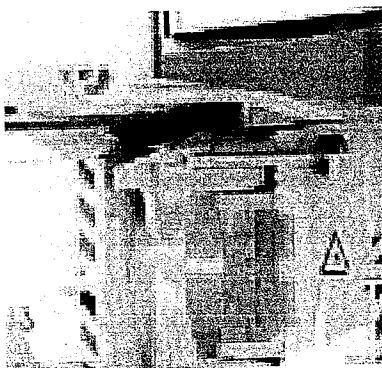
More efficient utilization of available engine horsepower through the BC672/772RB's hydrostatic drive system

Compaction wheel design - key to maximum densities

Achieve Maximum Productivity:

Compaction wheels are the refuse compactor's tools. They shred, demolish and compact the waste. Heavy weight alone cannot guarantee maximum compaction densities, optimum performance can only be achieved in conjunction with the appropriate wheel design and cleaning system.

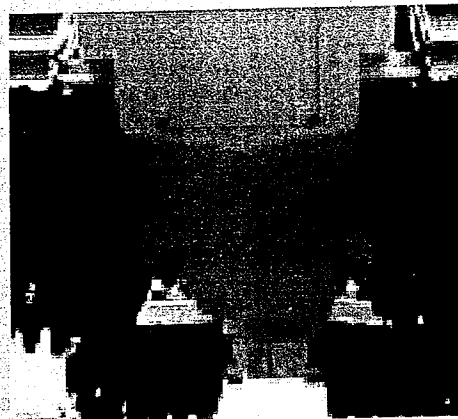
- BC672RB/BC772RB wheels have polygonal disk segments and one piece cast, high wear life teeth as standard equipment.
- High static weight, four-wheel contact provided by the oscillating joint and proven compaction advantage of the wheel design ensures maximum compaction performance.
- Two wire cutters per wheel protect against wire wrap-around and subsequent damage to seals or other components.



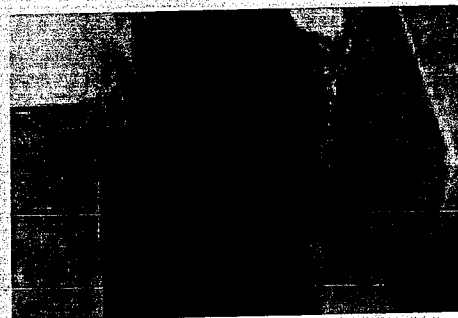
Only BOMAG has $\pm 15^\circ$ oscillation movement between front and rear frames.

- A massive slew-ring oscillation joint allows $\pm 15^\circ$ movement, ensuring full four-wheel contact for maximum traction and compaction.
- Hydrostatic drive systems need no torque converter and provide up to 15% greater efficiency compared to conventional hydrodynamic drives.

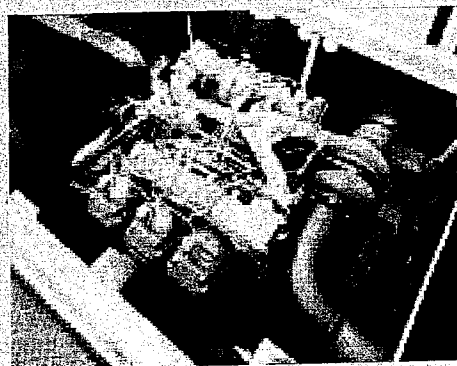
Featuring...



The sealed tub design protects all drive components



Only BOMAG has polygonal disk wheels with adjustable scraper bar assemblies



By using the latest engine technology, the Deutz engine will meet and exceed all emission requirements

With these features and many more, it's easy to see why these models maintain a high residual value while delivering lower lifetime operating costs.



Easy access to the engine compartment through hinged doors.

Reducing operating costs increases profits

Less Service & Maintenance:

Routine maintenance and breakdowns affect machine availability and operating costs of a refuse compactor. The BC672RB/BC772RB have been designed to extend maintenance intervals and reduce downtime and repair costs.

- Only BOMAG, with engine cooling air intake over 12 feet high, can reduce radiator cleaning intervals from five times a week to approximately once a week for reduced maintenance costs.
- The hatches at the front and rear of the machine provide easy access to the engine and hydrostatic service points.
- The BOMAG oil filter system extends hydraulic oil change intervals up to 2000 operating hours.
- Hydrostatic drive is virtually wear-free.
- The Deutz diesel engine is powerful and reliable.
- Access to the engine compartment is easy using the hinged and removable doors.
- Central lubrication system services 13 front and rear frame-located grease fittings once each operating hour.
- The blade lift cylinder spherical bearing is a teflon material requiring no daily maintenance.
- 24 V electrical system reduces load on electrical components.
- The BC672RB/BC772RB's sealed tub design eliminates the need for belly pans.
- All drive components are protected from damage within the sealed frame.
- The ROPS is an integral part of the frame and channels cooling air to the engine.
- All components are easily accessible for maintenance.
- The center articulation joint, designed to withstand extreme conditions, provides $\pm 40^\circ$ steering angle.
- The hydrostatic drive's automatic performance control ensures that the engine is providing the optimum power output at all times, reducing yearly operating costs while protecting the engine from overload.
- The Load Sensing System of the blade and steering circuits uses only as much hydraulic oil as is needed and can save up to 80 hp over conventional fixed displacement systems.

Standard Features

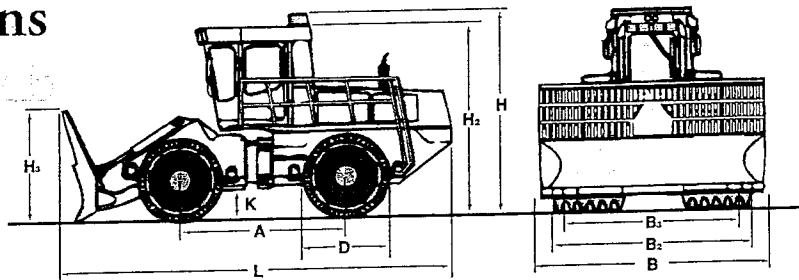
- ✓ Engine air intake over 12 ft above grade
- ✓ Adjustable, front and rear scrappers per wheel.
- ✓ Pakall compaction wheels with one piece cast, high wear life teeth
- ✓ Protection of all drive components by a fully enclosed engine bay compartment
- ✓ 2 wire cutters per wheel
- ✓ Hydrostatic drive with independent 4 wheel drive
- ✓ 4 Spring-Applied, Hydraulically-Released (SAHR) brakes; 1 per wheel
- ✓ Automatic load sensing
- ✓ ROPS/FOPS
- ✓ 14 ft blade
- ✓ Access steps right/left
- ✓ Sound suppressed cab
- ✓ Vibration isolated cab mounting
- ✓ Cab heating and air conditioning
- ✓ Sliding windows right/left
- ✓ Tinted safety glass
- ✓ Heated and air-suspended operator's seat
- ✓ Sun shade
- ✓ Rear view mirrors right/left
- ✓ Joystick Steering Control
- ✓ Windshield wiper/washer front and rear
- ✓ Audible back-up alarm
- ✓ Horn
- ✓ AM/FM stereo cassette
- ✓ 24 V electrical system
- ✓ Battery disconnect switch
- ✓ 55 amp alternator
- ✓ Working lights front and rear
- ✓ Automatic central lubrication system
- ✓ Fuel priming pump
- ✓ 3 stage fuel filtering system
- ✓ Dry air filter

(continued)

Technical Specifications

Shipping dimensions
in cubic feet (m³)

	with dozer blade
BC672RB	4151 (117.6)
BC772RB	4151 (117.6)



Dimensions in inches (mm)

	A	B	B ₂	B ₃	D	H	H ₂	H ₃	K	L
BC672RB	137.8 (3500)	171.5 (4356)	148.6 (3775)	139.8 (3550)	63.8 (1620)	161.4 (4100)	150 (3810)	76.8 (1950)	22.8 (580)	319.7 (8120)
BC772RB	137.8 (3500)	171.5 (4356)	148.6 (3775)	139.8 (3550)	63.8 (1620)	161.4 (4100)	150 (3810)	76.8 (1950)	22.8 (580)	319.7 (8120)

Standard Features (continued)

- ☒ Cold starting system
- ☒ Hydrostatic steering
- ☒ Contamination monitoring system in the hydraulic oil circuit
- ☒ Replaceable blade cutting edges
- ☒ Towing hooks front and rear
- ☒ Electronic monitoring board with engine shut-down
- ☒ Indicators and gauges

Optional Equipment

- ☐ Blade (12 ft 6 in)
- ☐ Automatic fire protection system
- ☐ Tool kit
- ☐ Interval switch for windshield wipers
- ☐ Flashing beacon
- ☐ BOMAG semi-U blade (14 ft)
- ☐ Caron Double Semi-U® blade
- ☐ Caron complete wheels with Pin-On® teeth
- ☐ Portable fire extinguisher
- ☐ Pressurized cabin filtration system
- ☐ Special paint

Technical data

	BOMAG BC672RB		BOMAG BC772RB	
Weights				
Operating Weight CECE	lbs (kg)	71000 (32200)	81205 (36867)	
Axle load front CECE	lbs (kg)	33913 (15383)	38784 (17503)	
Axle load rear CECE	lbs (kg)	37075 (16817)	42421 (19147)	
Dimensions				
Rear overhang	in (mm)	83.5 (2120)	83.5 (2120)	
Dimensions		see sketch	see sketch	
Compaction Wheels				
Width, front	in (mm)	53.1 (1350)	53.1 (1350)	
Width, rear	in (mm)	44.3 (1125)	44.3 (1125)	
Outer diameter (front)	in (mm)	63.8 (1620)	63.8 (1620)	
Outer diameter (rear)	in (mm)	63.8 (1620)	63.8 (1620)	
Number of teeth, front		60	60	
Number of teeth, rear		50	50	
Coverage per wheel	in (mm)	53.1 (1350)	53.1 (1350)	
Drive				
Engine manufacturer		Deutz	Deutz	
Type		BF6M1015CP	BF6M1015CP	
Cooling		Water	Water	
Number of cylinders		6	6	
Performance ISO 9249	hp (kW)	449 (330)	449 (330)	
Speed	rpm	2100	2100	
Performance SAE J 1349	hp (kW)	442 (330)	442 (330)	
Speed	rpm	2100	2100	
Electrical equipment	V	24	24	
Drive system		hydrostatic	hydrostatic	
Number of driven wheels		4	4	
Dozer Blade				
Height adjustment over ground level	in (mm)	47.2 (1200)	47.2 (1200)	
Height adjustment below ground level	in (mm)	7.9 (200)	7.9 (200)	
Driving Characteristics (depending on site conditions)				
Speed (1) forward/reverse	mph (kmph)	0-2.8 (0-4.5)	0-2.8 (0-4.5)	
Speed (2) forward/reverse	mph (kmph)	0-7.5 (0-12)	0-7.5 (0-12)	
Max. gradeability	%	100	100	
Brakes				
Service brake		hydrostatic	hydrostatic	
Parking brake		SAHR	SAHR	
Emergency brake		SAHR	SAHR	
Steering				
Steering system		oscillating, articulating	oscillating, articulating	
Steering method		hydraulic	hydraulic	
Steering angle ±	degrees	40	40	
Oscillating angle ±	degrees	15	15	
Track radius, inner	in (mm)	121.7 (3090)	121.7 (3090)	
Capacities				
Fuel	gal (l)	132 (500)	132 (500)	
Hydraulic oil	gal (l)	92.4 (350)	92.4 (350)	
Engine oil	gal (l)	6.9 (26)	6.9 (26)	

Technical modifications reserved. Machines may be shown with options.

BOMAG

AMERICAS

2000 Kentville Road • Kewanee, IL 61443
Tel: 309 853-3571 • Fax: 309 852-0350

(2) ONE 120,000 LB. LANDFILL COMPACTOR (Note that it is the intent of the County to lease either this or the 80,000 LB. size Compactor, not both).

A. General

- a. The standard operating weight with straight blade shall be no less than 120,000 lbs.
- b. The overall width of the compactor when equipped with a straight landfill blade shall not exceed 17 feet.
- c. The overall length of the tractor shall not exceed 33 feet 5 inches when equipped with landfill blade.
- d. The unit **shall** have center point articulation and a rear oscillation of +/- 6 degrees.
- e. Machine **shall** have a front warning horn.
- f. Compactor **shall** be equipped with a backup alarm.

B. Engine

- a. Engine **shall** be diesel, turbocharged, after cooled and wet sleeve design.
- b. Machine shall have a minimum SAE J1348 net flywheel horsepower of 359 kW at 1900 rpm (481 hp).
- c. Engine shall be equipped with an Electronic Unit injection fuel system with individual adjustment-free injection pumps, valves and fuel priming pump. Pressure lubrication with low flow filtered oil and heat exchanger oil cooler.
- d. Compactor shall have a dry type air cleaner with primary and secondary elements and a service indicator.
- e. Compactor shall have a minimum 250 hour oil change interval.

C. Electrical System

- a. Compactor shall have a 24-volt system with diagnostic connector for troubleshooting starting and charging circuits.
- b. Compactor shall have a 100 amp alternator.
- c. Compactor shall have a starting receptacle.
- d. Compactor shall have an ether starting aid.

D. Transmission System

- a. Machine shall have planetary type powershift transmission capable of making repeated speed and directional changes at full throttle with two (2) speeds forward and two (2) speeds reverse.
- b. Both speed and directional changes shall be actuated from the same control.
- c. Machine shall have a top forward ground speed capable of at least 6.8 mph on level ground.
- d. Machine shall have a reverse ground speed of at least 4.0 mph on level ground.
- e. Machine shall have a minimum of 1000 hour oil change period.

E. Steering

- a. Machine **shall** have center point frame articulation.

- b. Machine shall have 35 degree steering angle (each direction) minimum.
- c. Machine shall have full hydraulic power from a separate steering pump with full flow filtering.
- d. Machine shall have a fully hydraulic, flow amplified system with steering wheel operated meter pump that controls flow to steering cylinders. Shall also have full-flow filtering.

F. Brakes

- a. Machine **shall** have fully hydraulic actuated, fully enclosed oil immersed, multiple-disc, self-adjusting with modulated engagement brakes.
- b. Machine shall meet current OSHA requirements per SAE J1473.
- c. Machine shall have manually actuated spring-applied, hydraulic-released, dry multiple-disc parking brake that acts on the main driveline.
- d. Compactor shall have an audible alarm and red light to alert operator if transmission is engaged while parking brake is applied.
- e. Compactor shall meet current OSHA requirements per SAE J1473.

G. Wheels

- a. Compactor **shall** have four (4) landfill compaction wheels of equal width.
- c. Minimum drum diameter with teeth **shall** be 5 feet 6 inches.
- d. Minimum drum width **shall** be 4 feet 7 inches.
- e. Compactor **shall** have a minimum wheel wrapper thickness of 1 inch to ensure optimum wear life.

H. Axles

- a. Front axle **shall** be fixed and rear axle shall oscillate plus or minus 6 degrees.
- b. Axle shafts **shall** be free floating to facilitate independent removal of wheel and planetaries.
- c. The differentials **shall** be standard No-SPIN differentials on rear available from factory.

I. Final Drives

- a. The machine **shall** be all-wheel drive with planetary reduction in each wheel.
- b. Machine shall be landfill guarded.
- c. Final drive **shall** be modular design for easy service, allowing for removal independently of wheels and brakes.
- d. Compactor **shall** have a minimum of 2000 hour oil change period.

J. Frames

- a. Frames **shall** be fabricated from steel plate and rolled box sections connected by hardened steel pins, each riding in two tapered roller bearings.

K. Hydraulic System

- a. The hydraulic system **shall** be fully filtered, self-contained and non-vented, to prevent accidental contamination.

- b. Machine **shall** have separate hydraulic pumps for steering and implements.
- c. Hydraulic tank shall be equipped with oil level sight gauge.

L. Radiator

- a. The radiator **shall** be of conventional design with trash resistant configuration.
- b. There **shall** be a swing out radiator fan for easy cleaning.
- c. Radiator **shall** provide a minimum of 110 degrees F ambient capacity.

M. Blade

- a. The blade **shall** be of landfill design and shall be of multiple, box section construction with heat treated steel moldboard and DH2 steel cutting edges which are reversible.
- b. Machine **shall** have a standard straight blade with width no less than 17 feet.
- c. Standard straight blade **shall** have a maximum height of 7 feet 3 inches.
- d. Machine **shall** have two (2) reversible cutting edges and two (2) self-sharpening end bits, with trash rack.

N. Cab

- a. A ROPS cab shall be sound suppressed and meet current OSHA and MSHA standards for operator and sound levels.
- b. The front and rear windshields shall be equipped with washer/wiper.
- c. The cab **shall** have an interior mounted rearview mirror, outside rearview mirrors, air pressurizer, heater and air conditioner. Condensers shall be hinged.
- d. The cab shall have gauges and indicators which monitor critical operational systems of the machine and alert the operator when potential problems occur.
- e. The steering column shall be adjustable.
- f. The seat **shall** be fully-adjustable suspension seat with adjustment for lower back support, fore and aft, armrests, operator weight, suspension dampening, tilt, recline, and shall be equipped with a 3 inch wide retractable seat belt.
- g. Cab shall have a throttle lock in the cab.
- h. Cab **shall** have room for lunch cooler and insulated bottle.

O. Lights

- a. Front and rear working lights shall be provided.

P. Guards and Cleaner Bars

- a. Machine **shall** have hinged heavy-duty radiator guards.
- b. Machine **shall** have optional front and rear axle guards.
- c. Machine **shall** have steering cylinder guards.
- d. Machine **shall** have electronically powered train and crankcase guards.
- e. Wheel striker bars (all wheels) shall be standard.
- f. Machine shall have engine enclosures.
- g. Machine shall have vandalism protection for engine oil dipstick.
- h. Machine shall have engine oil filter and cap, and locks for the radiator, hydraulic tank, fuel tank, battery compartment and rear hitch.

- i. Machine **shall** have hinged hydraulic tank bottom guards.
- Q. Miscellaneous

- a. Machine **shall** have an auto-reversing demand fan.
- b. Machine **shall** have a fire suppression system to protect engine and transmission compartments, automatic release by the thermal sensors inside cab and outside equipment frame. System shall have guaranteed full service dealer for maintenance parts and repair within a 100 mile radius.
- c. Cooling system shall be separated from the engine compartment.

Proposers must include in the space provided, any and all exceptions for 120,000 Lb Landfill Compactor. Indicate the Category and Subcategory when addressing exceptions.

EXCEPTIONS: We are offering the BOMAG BC1172RB Landfill compactor. This unit meets or exceeds all of the operational specifications requested here. The 1172 is a hydrostatically driven compactor with the unique Bomag protective frame design. It is equipped with the Bomag Premium Wheel with weld on caps that give excellent performance and excellent life. See the attached wheel and cap warranty for details.

(Please include additional pages as necessary under this section)

BOMAG

Refuse Compactor

BC972RB, BC1172RB



- High pushing power (199 lbs/hp)-BC972RB and (234 lbs/hp)-BC1172RB
- Highest compaction densities
- Efficient fuel consumption rate
- Quiet operation - quiet cab
- Stable and safe operation on slopes
- High compressive demolition force

BOMAG BMD1750L



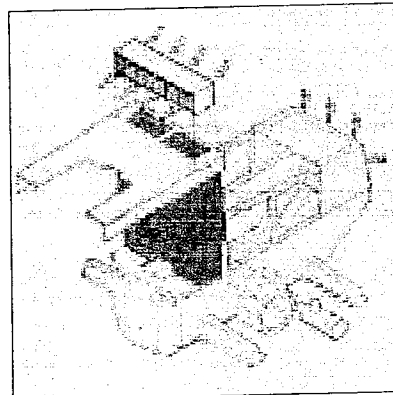
These models are designed specifically for landfill operation...

In spite of alternative methods of waste elimination, sanitary landfill sites are still the primary method of refuse disposal in use today. Modern, well-engineered and managed landfills are still a vital part of the global waste disposal concept.

To obtain the most effective use of landfill space, a high performance refuse compactor, designed specifically for the extreme demands imposed by landfill conditions is needed. Proper and maximum compaction is key to ensuring that refuse is deposited at the highest possible densities. Achieving this results in the reduction of material settlement and water penetration, improving the overall running surface of the landfill and decreasing the dangers of fire

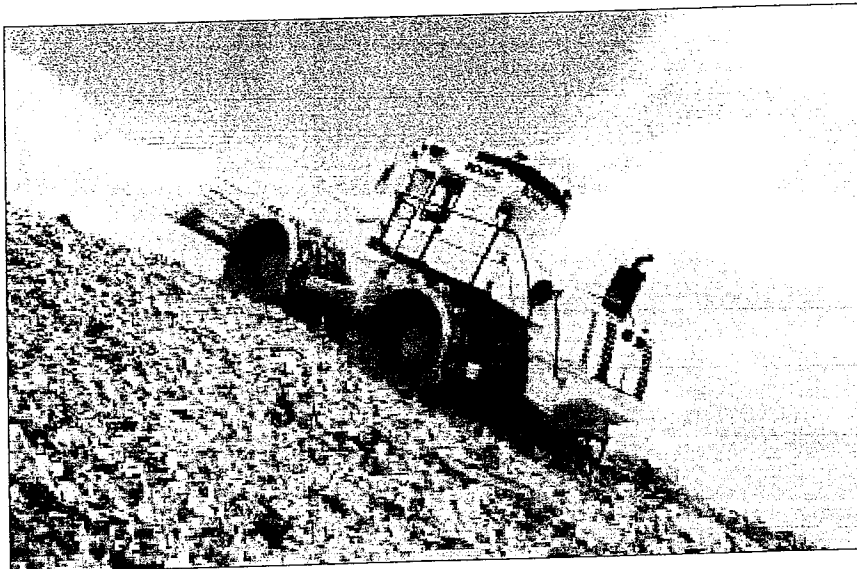
and landfill gas emissions. Improving compacted material densities through the reduction of air voids results in extended operating life of a landfill. High refuse density makes both environmental and economic sense.

Refuse is a mixture of varying different materials including large household and business waste, food, sludge, dust, construction materials and many other items. In order to compact these materials efficiently, the compactor must be capable of dealing with the differing demands and varying challenges they present.



A BOMAG exclusive: utilizing the cleanest air possible from over 14 feet above grade

Normal operating conditions of a landfill site place extreme demands on the drive system of a refuse compactor. Pushing and spreading waste requires maximum torque and power; compacting in either forward or reverse direction on the working face demands highest tractive effort. The BC972RB/ BC1172RB combines the efficient engine horsepower utilization of a hydrostatic drive system with 4 independent wheel drive motors to meet the challenges faced by a refuse compactor and to provide greater tractive effort regardless of operating conditions.

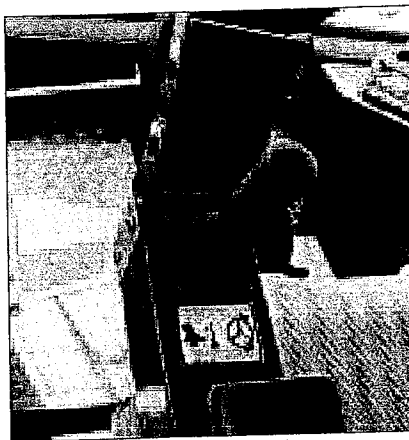


4-wheel hydrostatic drive system is capable of 100% gradeability, 45° slopes

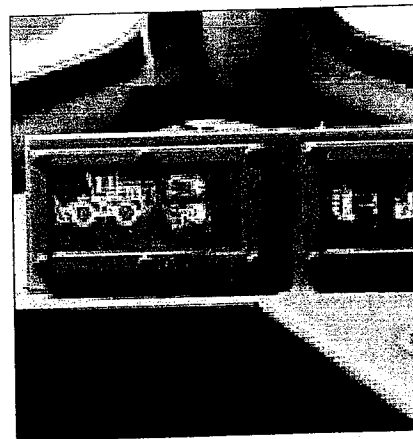
Improved compaction performance and operating ease

Handling is Easier and Safer

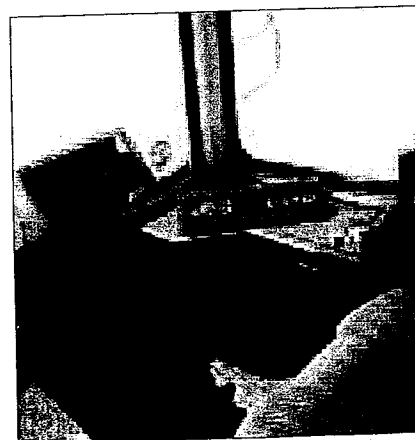
- Excellent all-around cab visibility with tinted safety glass.
- Heated and air-suspended seat makes operation fatigue-free and safe.
- Simple and clear control layout allows unfamiliar operators to work safely.
- Load Sensing System provides smoother and lighter steering and blade control.
- Joystick steering control
- Cab noise levels are lowest in the industry, less than 75 dBA.
- The ventilation system draws air through a fine filter and slightly pressurizes the cab to prevent entry of polluted air.
- The BC972RB has a powerful water-cooled diesel engine with 511 hp output at 2100 rpm. The BC1172RB has an additional 25 hp pushing the rating to 536 hp output at 2100 rpm.
- Air for cooling and combustion is taken from a height of over 14 feet above grade. At this height the air is relatively free from dirt and dust and is cleaned by a fine mesh filter before entering the engine compartment.
- The sealed engine compartment maintains a positive pressure to prevent entry of debris.

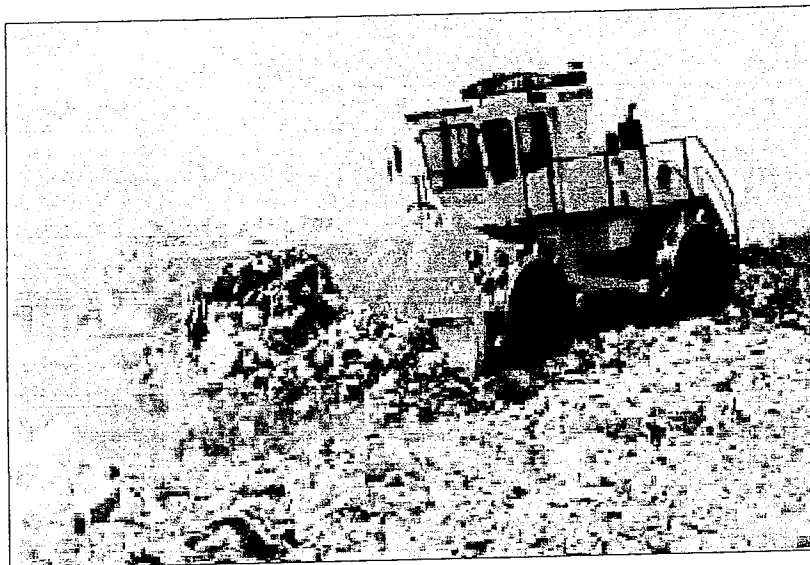


Ergonomic control layout including joystick steering control.



- The Deutz BF8M1015C series engine with 968 C.I.D. and turbocharger will meet emission regulations until well past the year 2002 and gives high torque at low revolutions.
- Engine power on the BC972RB/ BC1172RB drives a hydrostatic system with independent 4 wheel drive motors.





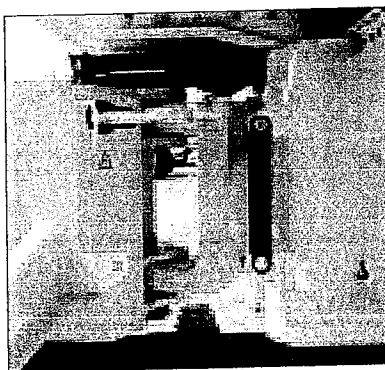
More efficient utilization of available engine horsepower through the BC972/1172RB's hydrostatic drive system

Compaction wheel design - key to maximum densities

Achieve Maximum Productivity:

Compaction wheels are the refuse compactor's tools. They shred, demolish and compact the waste. Heavy weight alone cannot guarantee maximum compaction densities, optimum performance can only be achieved in conjunction with the appropriate wheel design and cleaning system.

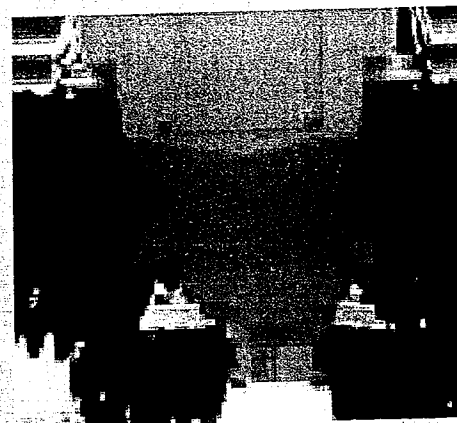
- BC972RB/BC1172RB wheels have polygonal disk segments and one piece cast, high wear life teeth as standard equipment.
- High static weight, four-wheel contact provided by the oscillating joint and proven compaction advantage of the wheel design ensures maximum compaction performance.
- Two wire cutters per wheel protect against wire wrap-around and subsequent damage to seals or other components.



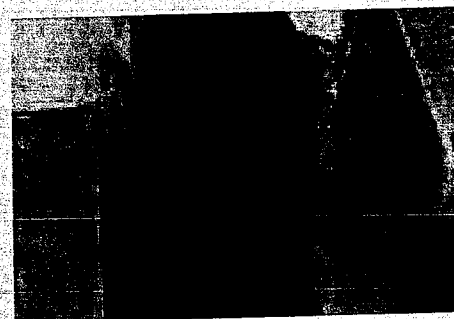
Only BOMAG has $\pm 15^\circ$ oscillation movement between front and rear frames.

- A massive slow-ring oscillation joint allows $\pm 15^\circ$ movement, ensuring full four-wheel contact for maximum traction and compaction.
- Hydrostatic drive systems need no torque converter and provide up to 15% greater efficiency compared to conventional hydrodynamic drives.

Featuring...



The sealed tub design protects all drive components as well as aids in keeping the engine compartment clean and debris free.

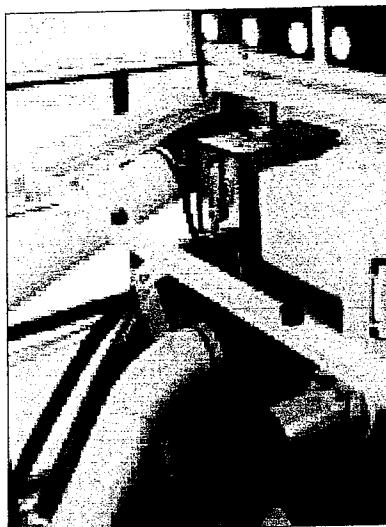
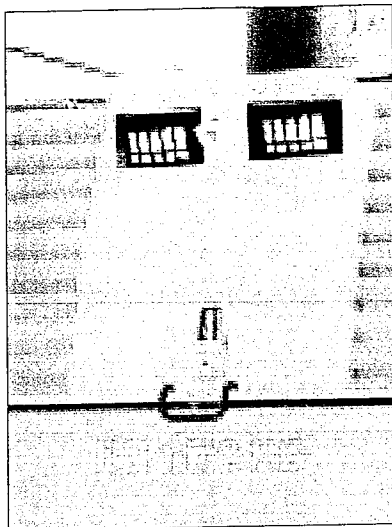


Only BOMAG has polygonal disk wheels with adjustable scraper bar assemblies



By using the latest engine technology, the Deutz engine will meet and exceed all emission requirements

With these features and many more, it's easy to see why these models maintain a high residual value while delivering lower lifetime operating costs.



Easy access to the engine compartment and hydraulic components area through hinged access doors.

Reducing operating costs increases profits

Less Service & Maintenance:

Routine maintenance and breakdowns affect machine availability and operating costs of a refuse compactor. The BC972RB/BC1172RB have been designed to extend maintenance intervals and reduce downtime and repair costs.

- Only BOMAG, with engine cooling air intake over 14 feet high, can reduce radiator cleaning intervals from five times a week to approximately once a week for reduced maintenance costs.
- The ROPS is an integral part of the frame and channels cooling air to the engine.
- Access to the engine compartment is easy using the hinged access doors.
- The hatches at the front and rear of the machine provide easy access to the engine and hydrostatic service points.
- All components are easily accessible for maintenance.
- All drive components are protected from damage within the sealed frame.
- The BC972RB/BC1172RB's sealed tub design eliminates the need for belly pans.
- Central lubrication system services 13

front and rear frame-located grease fittings once each operating hour.

- The blade lift cylinder spherical bearing is a teflon material requiring no daily maintenance.
- The BOMAG oil filter system extends hydraulic oil change intervals up to 2000 operating hours.
- Hydrostatic drive is virtually wear-free.
- The hydrostatic drive's automatic performance control ensures that the engine is providing the optimum power output at all times, reducing yearly operating costs while protecting the engine from overload.
- The Load Sensing System of the blade and steering circuits uses only as much hydraulic oil as is needed and can save up to 80 hp over conventional fixed displacement systems.
- The Deutz diesel engine is powerful and reliable.
- 24 V electrical system reduces load on electrical components.
- The center articulation joint, designed to withstand extreme conditions, provides $\pm 40^\circ$ steering angle.

Standard Features

- ✓ Engine air intake at 14.44' height
- ✓ Adjustable scrapers in front and behind each wheel
- ✓ Polygonal compaction wheels with exchangeable pad feet
- ✓ Two (2) wire cutters at each wheel
- ✓ Protection of all drive components by a fully enclosed engine bay compartment
- ✓ Fully automatic load limit control
- ✓ 4 wheel independent hydrostatic drive
- ✓ ROPS
- ✓ Dozer blade 17.1'
- ✓ Access step right/left
- ✓ Noise insulated cab
- ✓ Vibration isolated cab mounting
- ✓ Pressurized Cab
- ✓ Cab heating & air conditioning
- ✓ Sliding windows right/left
- ✓ Tinted safety glass
- ✓ Air suspension seat with seat belt in compliance with ISO 6683
- ✓ Head rest
- ✓ Heated seat
- ✓ Seat mounted controls for dozer blade, travel actuation and steering
- ✓ Sun shade
- ✓ Rear view mirror outside and inside
- ✓ Joystick steering
- ✓ Windshield wiper and washer system at front and rear
- ✓ Audible back-up alarm system
- ✓ Warning horn
- ✓ Electronic monitoring board with engine shut-down
- ✓ Rotary beacon
- ✓ Heatable outside mirrors
- ✓ Indicators and gauges
- ✓ AM/FM radio with stereo cassette
- ✓ 24V electrical system
- ✓ Battery disconnect switch
- ✓ Heavy duty batteries
- ✓ Alternator 80 A
- ✓ Working lights front/rear
- ✓ Automatic central lubrication system
- ✓ Fuel priming pump
- ✓ 3-stage fuel filtering system

(Continued)

Technical Specifications

Shipping dimensions

in cubic feet (m³)

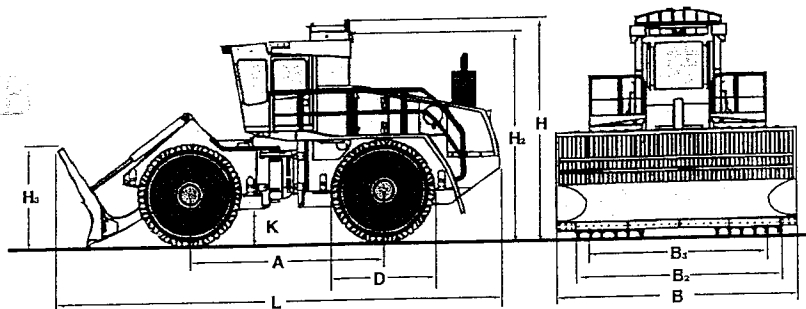
with dozer blade

BC972RB

7613.8 (215.6)

BC1172RB

7613.8 (215.6)



Standard Features (Continued)

- ☒ Dry air filter
- ☒ Cold starting system
- ☒ Hydraulic steering
- ☒ Wear control in the hydraulic oil circuit
- ☒ Replaceable blade cutting edges
- ☒ Towing hooks front/rear
- ☒ Interval switch for windshield wipers
- ☒ Activated carbon air filtration system
- ☒ Rear view camera

Optional Equipment

- ☐ Fire extinguisher
- ☐ Environmental awareness hydraulic lubricant
- ☐ Tool kit
- ☐ Hydraulic test kit
- ☐ Electric service tool kit
- ☐ Vacuum pump for hydraulic
- ☐ Protective ventilation system
- ☐ Special paint

Dimensions in inches (mm)

	A	B	B ₂	B ₃	D	H	H ₂	H ₃	K	L
BC972RB	161.4 (4100)	204.7 (5200)	177.2 (4500)	167.7 (4260)	86.6 (2200)	190.7 (4845)	173.2 (4400)	87.6 (2225)	30.1 (765)	371.1 (9425)
BC1172RB	161.4 (4100)	204.7 (5200)	177.2 (4500)	167.7 (4260)	86.6 (2200)	190.7 (4845)	173.2 (4400)	87.6 (2225)	30.1 (765)	371.1 (9425)

Technical data

Weights

	lbs	(kg)	BOMAG BC972RB	BOMAG BC1172RB
Operating Weight	101,630	(46100)	101,630 (46100)	120,000 (55431)
Axle load rear	50,815	(23049)	50,815 (23049)	60,000 (27216)
Axle load front	50,815	(23049)	50,815 (23049)	60,000 (27216)

Dimensions

	in	(mm)	BOMAG BC972RB	BOMAG BC1172RB
Rear overhang	99.8	(2535)	99.8 (2535)	99.8 (2535)
Dimensions	see sketch		see sketch	see sketch

Compaction Wheels

	in	(mm)	BOMAG BC972RB	BOMAG BC1172RB
Width, front/rear	55.1	(1400)	55.1 (1400)	55.1 (1400)
Outer diameter front/rear	86.6	(2200)	86.6 (2200)	86.6 (2200)
Number of teeth, front/rear	72		72	72
Coverage per wheel	59.8	(1520)	59.8 (1520)	59.8 (1520)

Drive

	Deutz BF8M 1015C	Deutz BF8M 1015CP
Engine manufacturer	Deutz BF8M 1015C	Deutz BF8M 1015CP
Type	Water	Water
Cooling	8	8
Number of cylinders	544	598
Performance ISO 9249	2100	2100
Speed	536	590
Performance SAE J1349	2100	2100
Speed	24	24
Electric equipment	hydrostatic	hydrostatic
Drive system	4	4
Number of driven wheels		

Dozer Blade

	in	(mm)	BOMAG BC972RB	BOMAG BC1172RB
Height adjustment over ground level	54.1	(1375)	54.1 (1375)	54.1 (1375)
Height adjustment below ground level	2	(50)	2 (50)	2 (50)

Driving characteristics (depending on site conditions)

	mph	(kmph)	BOMAG BC972RB	BOMAG BC1172RB
Speed (1) forward/reverse	0-1.9	(0-3)	0-1.9 (0-3)	0-1.9 (0-3)
Speed (2) forward/reverse	0-3.1	(0-5)	0-3.1 (0-5)	0-3.1 (0-5)
Speed (3) forward/reverse	0-7.5	(0-12)	0-7.5 (0-12)	0-7.5 (0-12)
Max. gradeability	100		100	100

Brakes

	hydrostatic	hydrostatic
Service brake	mechanical	mechanical
Parking brake	hydromechanical	hydromechanical
Emergency brake		

Steering

	oscil., artic.	oscil., artic.
Steering system	hydraulic	hydraulic
Steering method	40	40
Steering angle ±	15	15
Oscillating angle ±	120	120
Track radius, inner	(3050)	(3050)

Capacities

	gal	(l)	BOMAG BC972RB	BOMAG BC1172RB
Fuel	264	(1000)	264 (1000)	264 (1000)
Hydraulic oil	156	(590)	156 (590)	156 (590)
Engine oil	11.9	(45)	11.9 (45)	11.9 (45)

Technical modifications reserved. Machines may be shown with options.

BOMAG

AMERICAS

2000 Kentville Road • Kewanee, IL 61443
Tel: 309 853-3571 • Fax: 309 852-0350

6) ONE 76,000 LB. TRACK EXCAVATOR

A. Weight

- a. Minimum 76,000 lbs., operating weight (includes long undercarriage, 34 inch shoes, 12ft 10 inch stick and 3.0 yard bucket).

B. Engine

- a. Six cylinder diesel engine with minimum 222 hp, turbo-charged and after cooled.
- b. Minimum 400 cubic inch displacement.
- c. 24 volt starting system and minimum 50 amp alternator.
- d. Automatic engine speed control.
- e. Power mode selector to control engine speed and power.
- f. Minimum fuel tank capacity of 145 gallons.

C. Hydraulics

- a. Two variable flow pumps to power the boom, stick, bucket swing and travel circuits. One single section gear pump to power the pilot control circuit.
- b. Minimum relief valve setting of 4,500 psi for the implements, swing and travel circuit.
- c. Main hydraulic pumps are driven directly from the engine-no-pump drive boxes.
- d. Engine under-speed control system.
- e. Work mode selector to determine hydraulic circuit priorities.
- f. Hydraulic cylinder snubbers in the boom and stick cylinders.
- g. Load sensing controls.
- h. Pressurized hydraulic system.

D. Undercarriage

- a. Sealed track with lifetime lubricated rollers and idlers.
- b. Minimum track length of 16 ft. 6 inches.
- c. Minimum track gauge of 8 ft. 6 inches.
- d. Eight track rollers each side (minimum).
- e. Planetary final drives, splash lubricated.
- f. Idler guards and center track guiding guards.
- g. Minimum 20 inches ground clearance.
- h. Two speed track motors with automatic shift between high and low. (Top speed 2.75 mph, minimum).
- i. Over-speed control valve for track motors.
- j. Hydraulic lines for track motor lines.
- k. Travel motors, brakes and final drives to be protected within the track roller frame.
- l. Minimum drawbar pull of 60,000 lbs.
- m. Travel alarm.
- n. Minimum 34 inch triple grouser track shoes.

E. Operational Capabilities

- a. One piece reach boom.

- b. Minimum 12 ft. 10 inch stick.
- c. Minimum 38 foot reach @ ground level.
- d. Minimum 26 foot 6 inch depth.
- e. Minimum 30,100 lbs. stick force.
- f. Minimum 44,000 lbs. bucket force.
- g. Minimum lift capacity, ground level, 20 foot load radius of 26,000 lbs. front and 17,500 side.
- h. Minimum 3.0 cubic yard bucket, 60 inches wide, with side cutters and spade teeth.
- i. Automatic swing brake.

F. Cab

- a. Resiliently mounted sound suppressed cab with floor mat.
- b. Heater/defroster.
- c. Adjustable, pilot operated joystick controls.
- d. Adjustable suspension seat.
- e. Two piece retractable windshield.
- f. Electronic monitoring system with three level warning system for critical machine functions.
- g. Electronic control backup switch to bypass the electronic control system and permit continuous operation in the event of a failure.
- h. Windshield wipers and washers.
- i. Air conditioner with auto climate control and defroster.

G. Miscellaneous

- a. Remote grease fittings for swing bearing, upper boom and stick, accessible from ground level.
- b. Work lights.
- c. Auxiliary hydraulic valve.
- d. Skid resistant on upper structure at service access door.
- e. Grab handles and steps on each end of the roller frames upper structure access.

Proposers must include in the space provided, any and all exceptions for 76,000 Lb Track Excavator. Indicate the Category and Subcategory when addressing exceptions.

EXCEPTIONS: We are offering the DEERE 330CLC Excavator which meets or exceeds all
all of the operational specifications listed here.

(Please include additional pages as necessary under this section)

7) TWO 35 TON THREE AXLE ARTICULATED TRUCK

A. Engine

- a. Minimum six cylinder, turbo-charged and after cooled diesel engine.
- b. 340 flywheel horsepower minimum.
- c. 891 cubic inch displacement minimum.
- d. 24 volt starting system with minimum 50 amp alternator.
- e. Radiator protection grill.
- f. Engine over-speed inhibitor.

B. Transmission/Final Drives

- a. Planetary auto-shift transmission with minimum four speeds forward and reverse.
- b. Single stage torque converter with automatic lock-up in each gear.
- c. Outboard-mounted planetary final drives.
- d. Minimum 31 mph forward speed, with on-the-go shifting through all speed ranges, forward to reverse. Reverse speed minimum 7 mph.

C. Axle/Drive line

- a. 6X6 drive system with inter axle differential lock.
- b. Inter-axle differential must lock/unlock on-the-go.
- c. Drive axles shall be interchangeable for parts commonality.

D. Brakes

- a. All wheel brakes system with independent front and rear circuits.
 - 1. Suspension.
 - a: Front suspension will oscillate 6 degrees.
 - b: Axles similar for parts commonality.
 - c: Rear axle to be walking beam geometry.

F. Tires

- a. Minimum 26.5xR25 radial tires interchangeable front and rear.
- b. Unit will have just rims, County will supply tires.

G. Frame

- a. Box section frame construction on front and rear frames.
- b. Large diameter, adjustable bearing in the hitch tube.
- c. Spherical bearing in the articulation joint, top and bottom.
- d. Tow pins front and rear.

H. Body

- a. Minimum 25 cubic yard capacity (heaped 2.1 yards).
- b. Minimum 18 degree ducktail for load retention on slopes.
- c. Double-acting, single stage dump cylinder.

- d. Minimum 67 degree dump angle.
- e. Maximum 9 foot 8 inch load height.
- f. Dump cylinders mounted inside the body width for protection.
- g. Body raise and lower cycle time not to exceed 19 seconds.
- h. Maximum width 9 foot 10 inches.

I. Cab

- a. Sound suppressed ROPS cab with air conditioning, 76 dba minimum.
- b. Laminated front windshield.
- c. Windshield washers and wipers.
- d. Monitoring system for critical machine functions, alternator, brake oil/air pressure, coolant temperature, engine oil pressure, fuel level, inter-axle lock up, parking brake, torque converter temperature, and torque converter lock up.
- e. Air suspension, fully adjustable seat with retractable seat belt.
- f. Adjustable steering column.
- g. Cab shall tilt for access to the engine and transmission.

H. General

- a. Minimum 67,000 lbs. operating weight (empty).
- b. 19 foot 6 inch wheelbase minimum.
- c. Front spillguard on dump body.
- d. Starting and charging system has diagnostic connector.
- e. Sealed electrical connectors with nylon braided wiring harness.

I. Guards

- a. Crankcase guard.
- b. Radiator guard.
- c. Vandalism protection.

J. Hydraulics

- a. Double acting cushioned steering cylinders articulate 45 degree left or right.
- b. Pumps at 32 gpm at 2440 rpm.
- c. O-ring face seals on hydraulic hoses.

K. Miscellaneous

- a. Front and rear tow pins.
- b. Mud flaps (rear).
- c. Supplemental steering.
- e. Lockable fuel and hydraulic tank guards.

Proposers must include in the space provided, any and all exceptions for 35 Ton 3-Axle Articulated Truck: Indicate the Category and Subcategory when addressing exceptions.

EXCEPTIONS: We are offering the DEERE 350D Articulated Truck that meets or exceeds all of the specifications listed here.

The units supplied with tires would be equipped with the 26.5R25 Radial Earth mover tires.

(Please include additional pages as necessary under this section)

350D 400D

TRUCKS

SPECIFICATIONS



Engine

350D

Type Mercedes Benz OM501LA
 Configuration V6 with integral exhaust brake and engine valve brake
 Aspiration turbocharged and intercooled
 Cooling system liquid cooled with single-pass radiator and charged air cooler
 Rated power (conforms to SAE J1349) 380 SAE net hp (283 kW) / 389 SAE gross hp (290 kW) @ 1,800 rpm
 Maximum net torque 1,365 lb.-ft. (1850 Nm) @ 1,080 rpm
 Displacement 729 cu. in. (11.95 L)

400D

Mercedes Benz OM501LA
 V6 with integral exhaust brake and engine valve brake
 turbocharged and intercooled
 liquid cooled with single-pass radiator and charged air cooler
 413 SAE net hp (308 kW) / 422 SAE gross hp (315 kW) @ 1,800 rpm
 1,476 lb.-ft. (2000 Nm) @ 1,080 rpm
 729 cu. in. (11.95 L)

Transmission

Configuration Allison HD 4560R engine-mounted automatic planetary, hydraulically actuated multiple-disc clutches, electronic control, hydrodynamic torque converter with lock-up
 Retarder variable hydraulic transmission
 Stall torque ratio 1.9 to 1
 Vehicle speeds (full load, 2% rolling resistance)

	Forward	Reverse
Gear 1	5 mph (8 km/h)	4 mph (7 km/h)
Gear 2	10 mph (16 km/h)	
Gear 3	15 mph (24 km/h)	
Gear 4	23 mph (37 km/h)	
Gear 5	30 mph (48 km/h)	
Gear 6	34 mph (54 km/h)	

Allison HD 4560R engine-mounted automatic planetary, hydraulically actuated multiple-disc clutches, electronic control, hydrodynamic torque converter with lock-up
 variable hydraulic transmission
 1.9 to 1

	Forward	Reverse
5 mph (8 km/h)		4 mph (7 km/h)
10 mph (16 km/h)		
14 mph (23 km/h)		
22 mph (35 km/h)		
29 mph (46 km/h)		
32 mph (52 km/h)		

Transfer Box

350D / 400D

Configuration single-speed, helical geared with lockable torque-proportioning interaxle differential
 Output torque split 33 front / 67 rear

Axles

Differential type spiral bevel gear with controlled traction
 Final drive type outboard heavy-duty planetary reduction hub

Braking System

350D

Service brake dual-circuit, full-hydraulic, dry-disc brakes on all six wheels
 Park and secondary spring-applied, air-released, automatic slack-adjusting mechanical caliper, driveline-mounted, dry disc
 Auxiliary brake automatic engine valve brake actuation and variable hydraulic transmission retarder
 Maximum retardation 1,106 hp (825 kW)

400D

dual-circuit, oil-immersed, multi-disc brakes on front and mid axles
 spring-applied, air-released, automatic slack-adjusting mechanical caliper, driveline-mounted, dry disc
 automatic engine valve brake actuation and variable hydraulic transmission retarder
 1,130 hp (830 kW)

Pneumatic System

350D / 400D

Type four-way pressure protected with air drier, heater, and integral unloader valve
 System pressure 135 psi (930 kPa)

Electrical System

Voltage 24 volt
 Battery type twin maintenance free
 Battery capacity 2 x 105 A.h.
 Alternator rating 28 volt, 80 amp

Steering System

Type hydrostatically articulated with two double-acting hydraulic cylinders
 Angle 42 degrees side to side
 Lock-to-lock turns 4.7

Hydraulic System 350D

Type	closed-center, load-sensing system
Main pump	axial piston, variable displacement
Application	steering, bin tipping, cooling fan drive
Flow	79 gpm (330 L/min.) @ governed engine speed
Pressure	3,625 psi (25 000 kPa)
Secondary pump	axial piston, variable displacement
Application	secondary steering, assist main steering
Flow	32 gpm (122 L/min.) @ full ground speed

400D

closed-center, load-sensing system
axial piston, variable displacement
steering, bin tipping, hydraulic brake charging, cooling fan drive
79 gpm (330 L/min.) @ governed engine speed
3,625 psi (25 000 kPa)
axial piston, variable displacement
secondary steering, assist main steering
32 gpm (122 L/min.) @ full ground speed

Tires/Wheels

Type	radial earthmover
Size	26.5R25
Maximum ground pressure (loaded)	23 psi (156 kPa) middle

radial earthmover
29.5R25
23 psi (156 kPa) middle

Suspension 350D / 400D

Front type	semi-independent axle movement, leading A-frame supported on oil/nitrogen suspension struts
Rear type	load-equalizing pivoting walking beams on each axle with laminated suspension blocks

Body 350D

Capacity	
Struck	19.9 cu. yd. (15.2 m ³)
Heaped	26.1 cu. yd. (20.0 m ³) @ 2-to-1 SAE ratio
With optional tailgate	27.5 cu. yd. (21.0 m ³)
Rated payload	71,650 lb. (32 500 kg)
Power-down time	7.6 sec.
Raise time	14 sec.
Tipping angle	70 degrees

400D

22.1 cu. yd. (16.9 m ³)
29.4 cu. yd. (22.5 m ³) @ 2 to 1 SAE ratio
30.9 cu. yd. (23.6 m ³)
81,571 lb. (37 000 kg)
7.6 sec.
14 sec.
70 degrees

Service Capacities

Fuel tank	128 gal. (485 L)
Engine oil	8 gal. (30 L)
Engine coolant	9 gal. (33.6 L)
Transmission fluid (refill)	9 gal. (34 L)
Transfer case oil	5 qt. (4.5 L)
Hydraulic reservoir	47 gal. (178 L)
Axle oil (front)	12 gal. (45 L)
Axle oil (middle)	12 gal. (45 L)
Axle oil (rear)	12 gal. (45 L)
Final drive	6.7 qt. (6.3 L)
Wet disc brake	
Reservoir oil	12 gal. (45.3 L)
Front wheels	7 gal. (27 L)
Middle wheels	7 gal. (27 L)

128 gal. (485 L)
8 gal. (30 L)
9 gal. (33.6 L)
9 gal. (34 L)
5 qt. (4.5 L)
47 gal. (178 L)
12 gal. (45 L)
12 gal. (45 L)
12 gal. (45 L)
6.7 qt. (6.3 L)

Operating Weights

Empty	
Front	29,982 lb. (13 600 kg)
Middle	14,473 lb. (6565 kg)
Rear	14,462 lb. (6560 kg)
Total	58,919 lb. (26 725 kg)
Loaded	
Front	40,808 lb. (18 510 kg)
Middle	44,886 lb. (20 360 kg)
Rear	44,875 lb. (20 355 kg)
Total	130,569 lb. (59 225 kg)

32,221 lb. (14 615 kg)
16,050 lb. (7280 kg)
15,333 lb. (6955 kg)
63,603 lb. (28 850 kg)

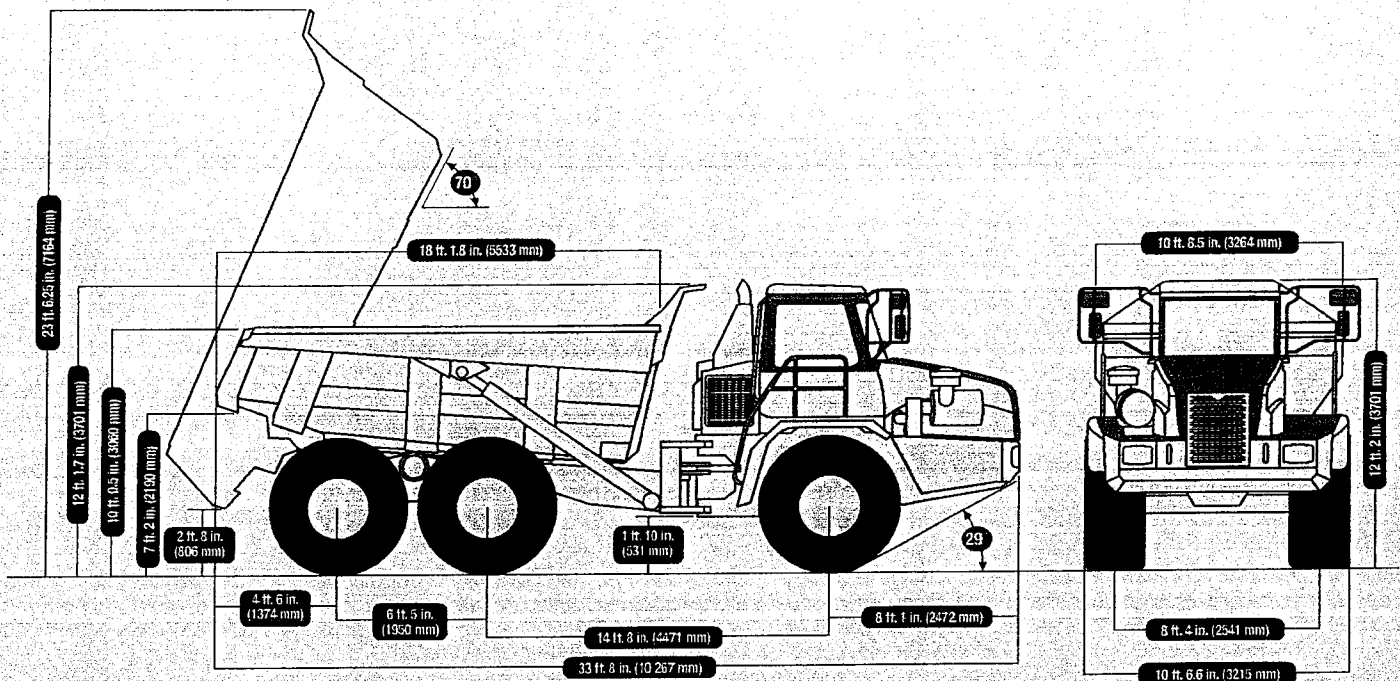
42,759 lb. (19 395 kg)
51,566 lb. (23 390 kg)
50,850 lb. (23 065 kg)
145,174 lb. (65 850 kg)

SAE Turning Radius Dimensions

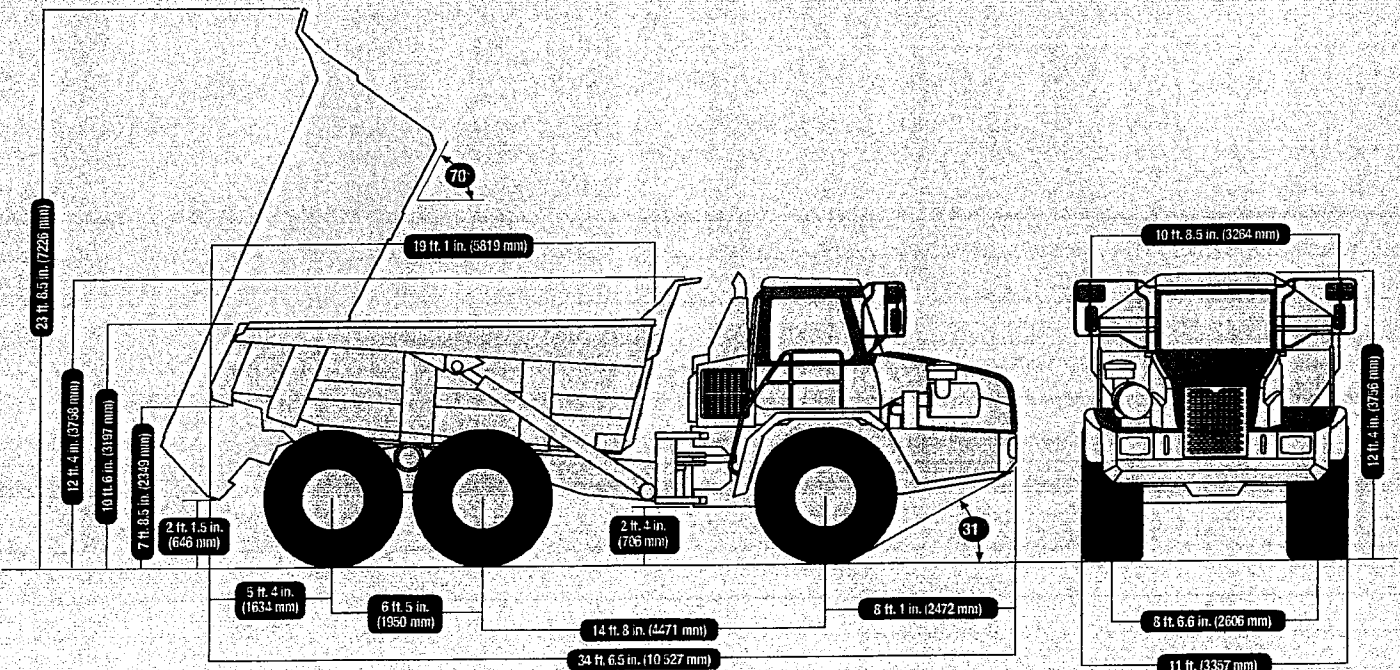
Inside turning circle radius	16 ft. 7 in. (5055 mm)
Outside turning circle radius	29 ft. 11.5 in. (9132 mm)

16 ft. (4894 mm)
30 ft. 2 in. (9203 mm)

350D Dimensions



400D Dimensions



Retardation and Gradeability

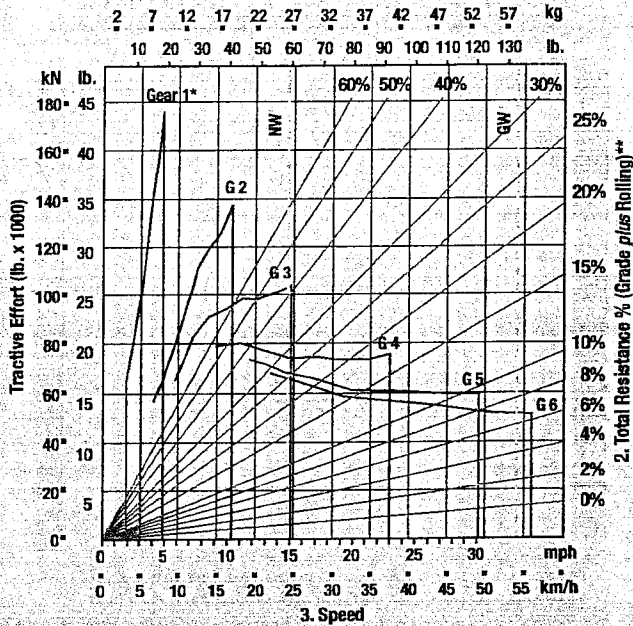
1. Read from total weight down to % total resistance (diagonal line).
2. From that point, read horizontally to curve with highest attainable speed range.
3. Read down to maximum descent speed.

*Gear 1 lock-up not engaged automatically, engaged only when Gear 1 selected manually.

**2% rolling resistance assumed in chart.

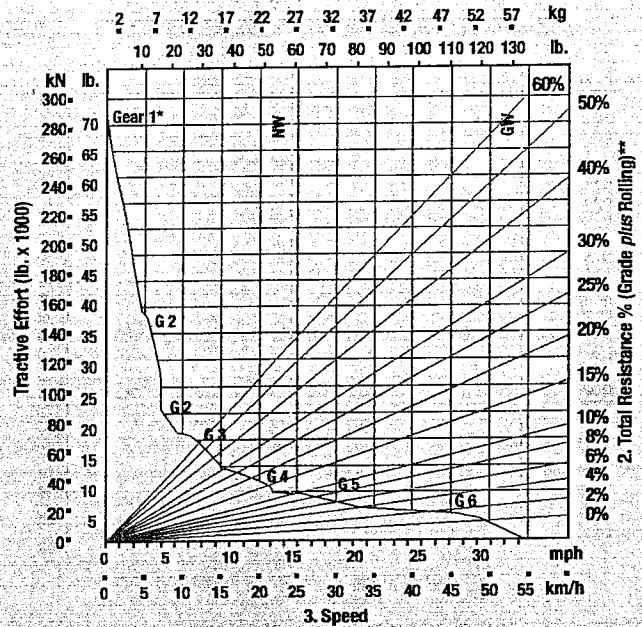
350D Retardation

1. Machine Weight x 1000



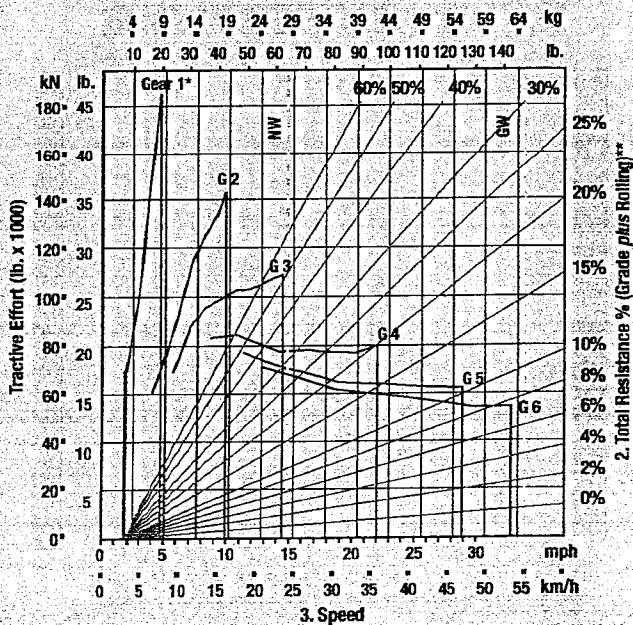
350D Gradeability

1. Machine Weight x 1000



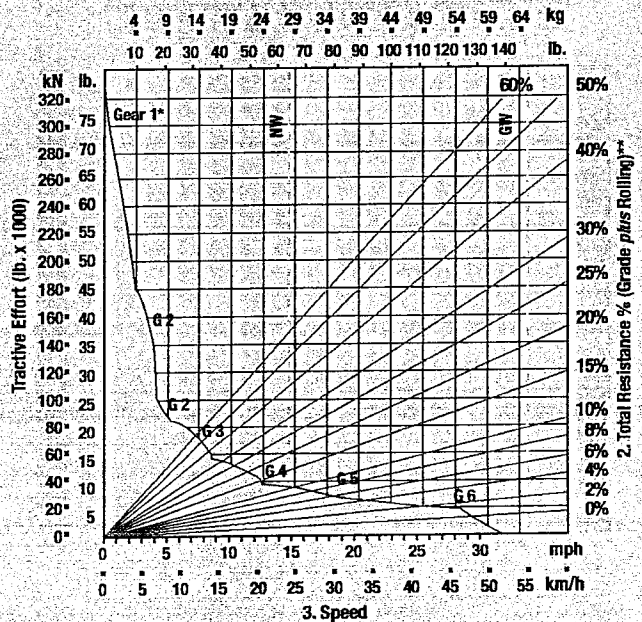
400D Retardation

1. Machine Weight x 1000



400D Gradeability

1. Machine Weight x 1000



350D / 400D Articulated Dump Trucks

Key: ● Standard equipment ▲ Optional or special equipment

See your John Deere dealer for further information.

350D 400D Engine

- Mercedes Benz OM501LA – V6, 380 SAE net hp (283 kW)
- Mercedes Benz OM501LA – V6, 413 SAE net hp (308 kW)
- Crankshaft-driven fan
- Electric start aid
- Integral engine valve brake
- Turbocharged and intercooled

Power Train

- Automatic exhaust brake
- Automatic planetary transmission – hydrodynamic torque converter with lock-up
- Automatic transmission retarder
- Computer controlled for adaptive shifts
- Control traction differentials on all drive axles
- Dual-circuit, air-over-hydraulic, dry-disc brakes on all six wheels
- Dual-circuit, oil-immersed, multi-disc brakes on front and middle
- Interaxle differential splits torque – 33% to front, 67% to rear
- Lockable proportion differential transfer box
- Push-button drive – neutral/reverse controls
- Rocker switch range holds to prevent gear hunting

Tipping Body

- 70-degree tip angle
- Body ducted for heating

350D 400D Tipping Body (continued)

- ▲ Mechanical/automatic tailgate
- ▲ Hydraulic/automatic tailgate
- Single-stage cylinders
- ▲ Body heater exhaust connection kit
- ▲ Bin liner (5/16 in. [8 mm])

Hydraulic System

- Closed-center, load-sensing system

Electrical System

- 24-volt system
- 80-amp alternator
- Twin maintenance-free batteries

Operator Station

- ROPS cab – conforms to SAE J1040/ISO 3471/1
- FOPS cab – conforms to SAE J231/ISO 3449
- Air conditioner
- Air-suspension seat
- AM/FM radio
- Compact sloped hood
- Full rearview mirror package
- Heater
- Hydromechanically articulated steering with two double-acting hydraulic cylinders
- Instrument panel functions:
 - Cold start indicator
 - Coolant level indicator
 - Engine service indicator (marked “Engine Fault”)
 - Secondary steering indicator (marked “Emergency Steering”)
 - Battery charge indicator

350D 400D Operator Station (continued)

- Instrument panel functions (continued):
 - Transmission retarder indicator
 - Transmission service indicator (marked “Transmission Fault”)
 - Service required indicator
 - Engine overspeed indicator
 - Park brake indicator
 - Brake oil pressure indicator (400D only)
 - Brake temperature indicator (400D only)
 - Hydraulic oil temperature indicator
 - Dump body raised indicator (marked “Bin Up”)
 - High beam indicator
 - Turn signals
- Seat belt with retractors
- Trainer's seat
- Windshield washer and wiper
- ▲ Electric and heated mirrors
- Overall Vehicle
 - 26.5R25 radial, earthmover tires
 - 29.5R25 radial, earthmover tires
 - Center-mounted cab
 - High-density polyethylene bearing in oscillation joint
 - Independent front and rear chassis
 - Leading A frame supported on oil/nitrogen suspension struts
 - Mud covers (brake calipers)
 - Tri-link rear suspension with 18 degrees of travel

Control Owning and Operating Costs

Customer Personal Service (CPS) is part of John Deere's proactive, fix-before-fail strategy on machine maintenance that will help control costs, increase profits, and reduce stress. Included in this comprehensive lineup of ongoing programs and services are:

Fluid analysis program – tells you what's going on inside *all* of your machine's major components so you'll know if there's a problem *before* you see a decline in performance. Fluid analysis is included in most extended coverage and preventive-maintenance agreements.

Component life-cycle data – gives you vital information on the projected life span of components and lets you make informed decisions on machine maintenance by telling you approximately how many hours of use you can expect from an engine, transmission, or hydraulic pump. This information can be used to preempt catastrophic downtime by servicing major components at about 80 percent of their life cycle.

Preventive Maintenance (PM) agreements – give you a fixed cost for maintaining a machine for a given period of time. They also help you avoid downtime by ensuring that critical maintenance work gets done right and on schedule. On-site preventive maintenance service performed where and when you need it helps protect you from the expense of catastrophic failures and lets you avoid waste-disposal hassles.

Extended coverage – gives you a fixed cost for machine repairs for a given period of time so you can effectively manage costs. Whether you work in a severe-service setting or just want to spread the risk of doing business, this is a great way to custom-fit coverage for your operation. And an extended coverage contract also travels well because it's backed by John Deere and is honored by *all* Deere construction dealers.

Customer Support Advisors (CSAs) – Deere believes the CSA program lends a *personal* quality to Customer Personal Service (CPS). Certified CSAs have the knowledge and skills for helping make important decisions on machine maintenance and repair. Their mission is to help you implement a plan that's right for *your* business and take the burden of machine maintenance off your shoulders.



JOHN DEERE

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 70 020, using No. 2-D fuel at 35 API gravity. Gross power is without cooling fan.

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on units with standard equipment, ROPS cabs, full fuel tanks, 175-lb. (79 kg) operators, and radial earthmover tires (350D with 26.5R25 and 400D with 29.5R25). Capacity and loaded weights are based on 2,800-lb./cu. yd. (1660 kg/m³) material.



PURCHASE ORDER
PURCHASING AND CONTRACTS DIVISION
SEMINOLE COUNTY GOVERNMENT
1101 EAST 1ST STREET, ROOM 3208
SANFORD, FL 32771-1468
OFFICE (407) 665-7116
FAX (407) 665-7956

03/22/05

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Order Number

12501 000 OP

Shipped From:

Branch/Plant:

Requestor:

Ship To:

Delivery: On an as needed basis

Ship prepaid add freight to invoice

Division contact for the order is Deana Brown at 407.665.1003

Line	Rev	Description	Ordered	UOM	Unit Price	Extended Price	Order No	Ty
1.000	0	Release Order A/B-3006-00/JVP		EA	.0000	3,900.00	00006714	OR
						140200.530520		

Release Order for uniform shirts and pants in accordance with terms and conditions of A/B-3006-00/JVP -
Term Contract for Athletic Wear for a period ending 11/2005. Order to be placed on an as needed basis.

3,900.00 *** Total Order

Purchasing Agent:

COHEN, BETSY