

Vendor Name: FORKLIFT Exchange Inc.

C-11270  
10/25/2016



**CITY OF GLENDALE**  
**ORIGINAL CITY OF GLENDALE**  
**MATERIALS MANAGEMENT**  
**INVITATION FOR BIDS**

**SOLICITATION NUMBER: IFB 16-49**

**DESCRIPTION: INDUSTRIAL FORKLIFTS**

**OFFER DUE DATE AND TIME: May 26, 2016 AT 2:00 P.M. LOCAL TIME**

Offers for the materials or services specified shall be received by the City of Glendale, Materials Management at the specified due date, time and location. Offers received by the correct time and date will be opened and the name of each bidder and the amount of the bid will be publicly read.

**SUBMITTAL LOCATION: City of Glendale  
Materials Management  
5850 West Glendale Avenue, Suite 317  
Glendale, Arizona 85301**

Offers must be in the actual possession of Materials Management on or prior to the time and date, and at the location indicated above. Materials Management is located on the 3<sup>rd</sup> floor of the Glendale Municipal Office Complex (City Hall) behind the Engineering Department. Offers are accepted from the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday, unless otherwise indicated for a holiday. All offers will be time stamped at the Engineering Department's front counter. Late offers will not be considered.

Offers must be submitted in a sealed envelope with the Solicitation Number and the Offeror's name and address clearly indicated on the envelope. See Paragraph 2.0 for additional instructions for preparing an offer.

**OFFERORS ARE STRONGLY ENCOURAGED TO CAREFULLY READ THE ENTIRE SOLICITATION.**

For questions regarding this solicitation contact:

**Elmer Garcia, CPPB**

**Contract Analyst**

**623-930-2866**

**Egarcia1@glendaleaz.com**



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Materials Management  
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**1.0 SPECIFICATIONS**

**1.1 INTRODUCTION**

1.1.1 The City of Glendale, Arizona ("City") intends to establish a term contract with qualified firm(s) to purchase industrial forklifts for the City's Materials Recovery (Recycling) Facility.

1.1.2 The resulting agreement shall be for the purchase and delivery of the industrial forklifts as per specifications. Contractor's pricing shall include, but not limited to, all equipment, delivery, labor, materials, supplies, licenses, fees, insurance, warranty, profit and any other associated direct or indirect costs (except sales tax).

**1.2 GENERAL SPECIFICATIONS**

1.2.1 The City of Glendale requests bids for an Industrial Forklift equipped with all factory standard equipment. The lifting capacity of the industrial forklift shall be between 6,000 to 6,500 lbs.

1.2.2 The specifications and item descriptions are intended to represent items known to meet the City's needs. The format of the solicitation is as an Invitation for Bids. Opportunity to offer an approved alternative to the specifications is included in this document.

1.2.3 The City may purchase additional quantities, at any time within the contract period at the awarded contract price and terms and conditions of this solicitation.

1.2.4 Quantities listed in this solicitation are the City's best estimate only and do not obligate the City to order more than the City's actual requirements and subject to availability of appropriated funds.

1.2.5 The specifications for the industrial forklift is listed herein. Any use of brand names and/or model numbers in the specifications is not intended to restrict any Offeror or any seller or manufacturer, but is included solely for the purpose of indicating the type, size, and quality of materials or product considered best adapted for use by the City.



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**1.3**

**TECHNICAL SPECIFICATIONS**

**INDUSTRIAL FORKLIFT SPECIFICATIONS**

The Contractor shall check the Yes or No boxes for each Specification Item Number. If the Contractor checks the **No** box for any specification, the Contractor must provide an explanation or information in the OFFERED column. Detailed product brochures or technical literature of the alternate item may be submitted with the offer for the City's bid evaluation purposes. If additional sheets are needed, the Contractor must reference the specific Item No. in their response. Failure to comply with the following specifications may result in the rejection of offer.

ITEM NO.	SPECIFICATIONS	COMPLY	OFFERED
1.3.1	<b>ENGINE:</b> Largest 4-Cylinder engine available; "Approximately 60 hp"; Liquid Propane (LP) gas operated; open core radiator with straight fins and in-line tube design; 12-volt maintenance-free battery, 500 cold cranking amps.  Optional feature: Low oil sensor shut-off switch	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Manufacturer: <u>UNICARRIERS</u>  Equipment No.: <u>PF60LP</u>
1.3.2	<b>FUEL:</b> Liquid propane gas (LPG) with tank; with swing-down or swing-out-and-down LPG tank mounting or equivalent mounting mechanism.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
1.3.3	<b>TRANSMISSION:</b> Automatic, Single-speed, forward/reverse.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
1.3.4	<b>MAST:</b> Three stage lift; Approximately 189" maximum fork lift height; Approximate dimensions are as follows: 87" maximum overall height lowered; 65" free lift; 14.76 X 4" X 42" forks; 48" load back rest extension; 84" drivers overhead guard; 42" - 46" carriage width; 6 degree forward tilt; 11 degree backward tilt.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Manufacturer: <u>LIFTECH</u>  Part No.: <u>3F475</u>



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**INDUSTRIAL FORKLIFT  
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ITEM NO.	SPECIFICATIONS	COMPLY	OFFERED
1.3.5	<b>BRAKES:</b> Self-adjusting with non-asbestos brake linings.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
1.3.6	<b>TIRES:</b> Solid pneumatic tires; approximately 8:15 x 15 (drive), 6.5 x 10 (steer).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
1.3.7	<b>OPERATOR'S COMPARTMENT:</b> Shall have a minimum 40" clearance between the driver's seat and canopy rollover protection.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
1.3.8	<b>SEAT:</b> Shall be fully adjustable suspension seat with heavy-duty vinyl or approved equivalent material. Occupancy Engine Shutdown feature.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
1.3.9	<b>CONTROLS:</b> All controls shall be located within easy reach of the operator.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
1.3.10	<b>INSTRUMENTS:</b> Should include standard instruments such as: oil pressure gauge, fuel gauge, amp meter or volt meter, low fuel warning, temperature gauge and hour meter.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
1.3.11	<b>STEERING:</b> Hydraulic-assisted power steering.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
1.3.12	<b>LIGHTS:</b> Drive front (2 each), rear (1 each), and stop/tail/backup arrangement.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	



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The Contractor shall check the Yes or No boxes for each Specification Item Number. If the Contractor checks the **No** box for any specification, the Contractor must provide an explanation or information in the OFFERED column. Detailed product brochures or technical literature of the alternate item may be submitted with the offer for the City's bid evaluation purposes. If additional sheets are needed, the Contractor must reference the specific Item No. in their response. Failure to comply with the following specifications may result in the rejection of offer.

ITEM NO.	SPECIFICATIONS	COMPLY	OFFERED
1.3.13	<b>SAFETY:</b> Reverse alarm, seat belt, seat belt alarm, occupancy engine shutdown, low fuel warning, horn, canopy rollover protection (installed), overhead strobe light, and load backrest. NOTE: Reverse alarm is to be mounted by the overhead strobe light.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
1.3.14	<b>ACCESSORIES:</b> Should include perforated belly pan or equivalent feature.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
1.3.15	<b>ATTACHMENTS:</b> Hydraulic fork positioner, side shift, Cascade carriage assembly or approved equivalent.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
1.3.16	<b>WARRANTY:</b> One year, 2000 hours on entire unit.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	See Addendum
1.3.17	<b>SERVICE/REPAIR:</b> A local (Phoenix metro area) service provider for service and repair shall be available. Indicate the name, address and contact information of the service/repair provider.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Forklift Exchange Inc. 2340 W. Buckeye Rd Phoenix, AZ 85009 Bob Cannady
1.3.18	<b>PARTS INVENTORY:</b> Forklift parts for general repair and service should be available locally. If parts are not stocked locally, indicate location(s) and lead time(s) to receive parts.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

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**2.0 SPECIAL INSTRUCTIONS TO OFFERORS**

**2.1 RETURN OF OFFER** One (1) original copy of the proposal response and one (1) flash drive containing all original documents shall be submitted. The original copy of the proposal should be clearly labeled "Original" and shall be single-sided.

The Offeror shall complete all sections of the IFB in the format and spaces provided. If additional space is needed than what is given, enter "See attachment for detail."

**2.2 PREPARATION OF OFFER PACKAGE** The following items shall be completed and returned. Failure to include these items may result in an offer being rejected. Offer packages shall be submitted in the following order:

- 2.2.1 OFFER SHEET (with 3 original signatures), Section 4.0**
- 2.2.2 PRICE SHEET, Section 5.0**
- 2.2.3 SOLICITATION ADDENDUM, (if applicable).**
- 2.2.4 SPECIFICATIONS**
- 2.2.5 REFERENCES (see ADDITIONAL SUBMISSION REQUIREMENTS)**

**2.3 ALTERNATE OFFERS/EXCEPTIONS**

Offers submitted as alternates must be submitted as an attachment referencing the specific paragraph numbers(s) and adequately defining the alternate submitted. Detailed product brochures and/or technical literature, suitable for evaluation, must be submitted with the Alternate Offer.

Offerors are expected to conform to the IFB terms and conditions and requirements. Offerors may list their exceptions to the solicitation by referencing the specific section and paragraph, subsection number or other identifier. For each exception, Offerors should quote the statement(s) to which they are taking an exception for reference during bid evaluation. The City has no obligation to accept any exception. Exceptions to City statutory requirements shall not be considered. Exceptions considered material, excessive or affecting vital terms, conditions or specifications may reduce the Offeror's prospect for award and/or render their offer non-responsive.

Offeror's Standard Terms and Conditions submitted with their bid will **not** be accepted by the City in lieu of the City's Terms and Conditions for contracts. Offerors submitting their own Standard Terms and Conditions with their bid will require negotiation.

If no exceptions are taken, City will expect and require complete compliance with the specifications and all conditions of purchase.



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- 2.4 **ADDITIONAL SUBMISSION REQUIREMENT** The Offeror shall provide three (3) references from companies for whom Offeror has provided similar products/services in the last five years. Include company name, address, contact person, phone number, email address, a description of the products/services provided.
- 2.5 **COMPLIANCE INFORMATION** The compliance information requested in Section 1.0, Specifications, is for evaluation of the materials or equipment to be supplied. Offerors must check the appropriate response. A "Yes" reply shall indicate the item will be supplied as specified. A "No" reply shall indicate the item will not be supplied as specified. A written explanation must be submitted referencing the specific paragraph number and adequately defining the exception submitted. Product brochures and literature suitable for evaluation must also be submitted. For evaluation, the City will assume that any line left blank and not completed will not be furnished as specified.
- 2.6 **BRAND NAME OR EQUAL** Specification which uses a brand name, manufacturer's name or product number is used for the purpose of designating the standard of quality, performance, and characteristics needed to meet City requirements and is not intended to limit or restrict competition. Products substantially equivalent to those designated may be considered for award.
- 2.7 **EVALUATION LITERATURE** Offers submitted for products considered by the seller to be equal to or better than the brand names or manufacturer's catalog references specified herein, may be submitted with technical literature and/or detailed product brochures with written statements if the literature or brochure is not specific as to the specification for the City's use to evaluate the product(s) offered. Offers submitted without this product information may be considered as non-responsive and rejected.
- 2.8 **ESTIMATED QUANTITIES** Quantities listed in this solicitation are the City's best estimate. The City may order some, all, more, or none of the individual quantities. The City's actual requirements during the period of this agreement shall be determined by the actual needs and availability of appropriated funds.
- 2.9 **EVALUATION CRITERIA** Invitation for Bids are awarded to the lowest responsible and responsive bidder whose bid conforms in material respects to the requirements and criteria set forth in the Invitation for Bids.
- 2.10 **TYPE OF AWARD** The City reserves the right to make multiple awards or to award by group of line items, or to make an aggregate award, whichever is deemed most advantageous to the City. If the City determines that an aggregate award to one bidder is not in the City's best interest, "all or none" Bids shall be rejected.
- 2.11 **ADDITIONAL INFORMATION** The City reserves the right to secure additional information from any Offeror as it deems necessary to establish the competence and financial stability of any Offeror submitting a bid.



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- 2.12 PRIOR EXPERIENCE** Experiences with the City and entities that evaluation committee members represent and that are not specifically mentioned in the solicitation response may be taken into consideration when evaluating Bids.
- 2.13 WITHDRAWAL OF BID** At any time prior to the specified solicitation due date and time, an Offeror may formally withdraw the bid by a written letter or electronic mail from the Offeror or a designated representative. Telephonic or oral withdrawals shall not be considered.
- 2.14 PROPRIETARY INFORMATION** Offerors shall clearly mark any proprietary information contained in its bid with the words "Proprietary Information." Offeror shall not mark any Solicitation Form as proprietary. Pricing data shall not be considered proprietary. Marking all, or nearly all, of a bid as proprietary may result in rejection of the bid.
- Offerors acknowledge that the City is required by law to make certain records available for public inspection. In the event that the City receives a request for disclosure of proprietary information by any person, court, agency or administrative body, or otherwise has a reasonable belief that it is obligated to disclose the proprietary information to any such person or authority, the City will provide Offeror with prompt written notice so that Offeror may seek a protective order or other appropriate remedy. The Offeror, by submission of materials marked Proprietary Information, acknowledges and agrees that the City will have no obligation to advocate for non-disclosure in any forum or any liability to the Offeror in the event that the City must legally disclose the Proprietary Information.
- 2.15 NOTICE OF INTENT TO AWARD AND PROTEST PERIOD** Information about the recommended award for this solicitation will be posted on the Internet. The information will be available for review on the City's Materials Management Internet home page [www.glendaleaz.com/purchasing](http://www.glendaleaz.com/purchasing) immediately after the City has completed its evaluation process of the offers received. If you have any questions, or would like further information about an intended award, contact the contract analyst immediately. Any protest must be submitted to the Materials Manager no later than seven (7) calendar days from the date of posting on the Internet.
- 2.16 CONFLICT OF INTEREST** The Offeror shall disclose any and all possible conflicts of interest if any senior or managing personnel of the Contractor have a potentially conflicting business or personal relationship with any City employees that have or may have a role in the selection or management of the services or goods being solicited. Providing such disclosure will not necessarily disqualify a Contractor from providing a proposal or bid. Failure to disclose a potential conflict of interest may result in rejection of the proposal or bid or termination of a resultant contract.



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**2.17 NO CONTACT, NO INFLUENCE DURING THE RFP OR IFB PROCESS** The City is conducting a competitive bidding process for the contract, free from improper influence or lobbying. There shall be no contact concerning this solicitation from Offerors submitting an offer with any member of the City Council, Evaluation Committee Members, or anyone connected with the process for or on behalf of the City. Contact includes direct or indirect contact by the Offeror, its employees, attorneys, lobbyists, surrogates, etc. in an attempt to influence the bidding process.

From the time the RFP or IFB is issued until the expiration of the protest period or the resolution of any protest, whichever is later (the "Black-Out Period"), Offerors, directly or indirectly through others, are restricted from attempting to influence in any manner the decision making process through, including but not limited to, the use of paid media; contacting or lobbying the City Council or City Manager or any other City employee (other than Material Management employees); the use of any media for the purpose of influencing the outcome; or in any other way that could be construed to influence any part of the decision-making process about this RFP or IFB. This provision shall not prohibit an Offeror from petitioning an elected official or engaging in any other protected first amendment activity after the protest period has run or any protest has been resolved, whichever is later.

Violation of this provision will cause the proposal or offer of the Offeror to be found in violation and to be rejected.

**2.18 INQUIRIES** Any question related to the Invitation for Bid shall be directed to the Contract Officer whose name appears above. A Contractor shall not contact or ask questions of the department for whom the requirement is being procured. The Contract Officer may require any and all questions be submitted in writing. Contractors are encouraged to submit written questions via electronic mail at least five days prior to the proposal due date. Any correspondence related to a solicitation should refer to the appropriate IFB page and paragraph number. An envelope containing questions should be identified as such; otherwise it may not be opened until after the official proposal due date and time. Oral interpretations or clarifications will be without legal effect. Only questions answered by a formal written amendment to the IFB will be binding.



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**3.0 SPECIAL TERMS AND CONDITIONS**

- 3.1 INCORPORATION BY REFERENCE** All responses shall incorporate by reference the Specifications, terms and conditions, general instructions and conditions and any attachments. The Standard Terms and Conditions applicable to this solicitation are posted on the Internet. They are available for review and download at the City's Materials Management Internet home page, [www.glendaleaz.com/purchasing](http://www.glendaleaz.com/purchasing). Offerors are advised to review all provisions of the General Instructions and Conditions for this solicitation.
- 3.2 PRICE** All prices quoted shall be firm and fixed for the specified contract period. No fuel surcharges will be accepted by the City. The City shall not be invoiced at prices higher than those stated in this contract.
- 3.3 PRICE ADJUSTMENTS** Price adjustments shall be addressed a minimum of sixty (60) days prior to the contract renewal date, shall be in writing and include supportive justification for the proposed increase. The rate increase shall only be considered at time of contract extension. The City will review the request and shall determine if the increase shall be granted or if an alternate option is in the best interest of the City. The price increase adjustment, if approved, will be effective and executed via a contract amendment.
- 3.4 FOB POINT** Prices quoted shall be FOB destination to: The City of Glendale.
- 3.5 TERM OF AGREEMENT** The initial term of the contract shall be two (2) years upon approval by the City Council.
- 3.6 OPTION TO EXTEND** The City may, at its option and with the approval of the Contractor, extend the term of this agreement for three (3) additional years in one (1) year increments based on satisfactory Contractor performance. Contractor shall be notified in writing by the City Materials Manager of the City's intention to extend the contract period at least 30 calendar days prior to the expiration of the original contract period. Price adjustments will only be reviewed during contract renewal.
- 3.7 QUALITY** Contractor expressly warrants that all goods or services furnished under this contract shall be new and free from defects in material or workmanship.
- 3.8 WARRANTIES** Contractor warrants that all materials, service, or construction delivered under this contract shall conform to the specifications of this contract. Any defects of design, workmanship, or materials that would result in non-compliance with the contract specifications, shall be fully corrected by the Contractor (including labor and materials) without additional cost to the City.



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- 3.9 **REPAIR AND REPLACEMENT PARTS** Repair or replacement parts for the forklifts may NOT be accomplished by using any other than original or manufacturer approved replacement parts. All parts or equipment furnished must be equal or exceed that of the original equipment manufacturer(s) in material and warranty.
- 3.10 **ADDITIONS/DELETIONS OF PRODUCTS OR SERVICE** The City reserves the right to add additional products to this contract when deemed necessary by the City. If this occurs, the Contractor will be requested to submit a negotiable quotation for the additions. Upon approval and authorization by the Materials Manager such additions will be added to and become a part of the contract through properly executed forms.
- 3.11 **NON-EXCLUSIVE CONTRACT:** The resultant contract is non-exclusive and is for the sole convenience of the City. The City reserves the right to obtain similar goods and services from alternative sources if needed.
- 3.12 **INSURANCE** Contractor shall procure and maintain, until all of their obligations, including any warranty periods under this Contract, are satisfied, insurance against claims for injury to persons or damage to property that may arise from or in connection with the purchase and or use of the commodity.

The *insurance requirements* herein are minimum requirements for this Contract and in no way limit the indemnity covenants contained in this Contract. The City of Glendale in no way warrants that the minimum limits contained herein are sufficient to protect the Vendor from liabilities that might arise out of the purchase and use of the commodities sold under this Contract by the Vendor, his agents, representatives, employees or subcontractors and Vendor is free to purchase such additional insurance as may be determined necessary.

**A. MINIMUM SCOPE AND LIMITS OF INSURANCE:** Contractor shall provide coverage at least as broad and with limits of liability not less than those stated below.

**1. Commercial General Liability – Occurrence Form**

Policy shall include bodily injury, property damage, personal and advertising injury and broad form contractual liability.

- General Aggregate \$2,000,000
- Products – Completed Operations Aggregate \$1,000,000
- Personal and Advertising Injury \$1,000,000
- Damage to Rented Premises \$ 50,000
- Each Occurrence \$1,000,000

- a. The policy shall be endorsed (**Blanket Endorsements are not acceptable**) to include the following additional insured language: *“The City of Glendale, and its departments, boards, commissions, officers,*



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*officials, agents, and employees” shall be named as additional insureds with respect to liability arising out of the activities performed by or on behalf of the Contractor.”* Such additional insured shall be covered to the full limits of liability purchased by the Contractor, even if those limits of liability are in excess of those required by this Contract.

- b. Policy shall contain a waiver of subrogation endorsement **(Blanket Endorsements are not acceptable)** in favor of the “City of Glendale, and its departments, boards, commissions, officers, officials, agents, and employees” for losses arising from work performed by or on behalf of the Contractor.

**2. Business Automobile Liability**

Bodily Injury and Property Damage for any owned, hired, and/or non-owned vehicles used in the performance of this Contract.

- Combined Single Limit (CSL) \$1,000,000
  - a. The policy shall be endorsed **(Blanket Endorsements are not acceptable)** to include the following additional insured language: “*The City of Glendale, and its departments, boards, commissions, officers, officials, agents, and employees shall be named as additional insureds with respect to liability arising out of the activities performed by or on behalf of the Contractor, involving automobiles owned, leased, hired or borrowed by the Contractor.*” Such additional insured shall be covered to the full limits of liability purchased by the Contractor, even if those limits of liability are in excess of those required by this Contract.
  - b. Policy shall contain a waiver of subrogation endorsement **(Blanket Endorsements are not acceptable)** in favor of the “City of Glendale, and its departments, boards, commissions, officers, officials, agents, and employees” for losses arising from work performed by or on behalf of the Contractor.
  - c. Policy shall contain a severability of interest provision.

**3. Worker's Compensation and Employers' Liability**

- Workers' Compensation Statutory
- Employers' Liability
  - Each Accident \$1,000,000
  - Disease – Each Employee \$1,000,000
  - Disease – Policy Limit \$1,000,000

- a. Policy shall contain a waiver of subrogation endorsement **(Blanket Endorsements are not acceptable)** in favor of the “City of Glendale, and its departments, boards, commissions, officers, officials, agents,



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and employees” for losses arising from work performed by or on behalf of the Contractor.

- b. This requirement shall not apply to: Separately, EACH contractor or subcontractor exempt under A.R.S. § 23-901, AND when such contractor or subcontractor executes the appropriate waiver (Sole Proprietor/Independent Contractor) form.

**B. ADDITIONAL INSURANCE REQUIREMENTS:** The policies are to contain, or be endorsed (**Blanket Endorsements are not acceptable**) to contain, the following provisions:

1. The Contractor's policies shall stipulate that the insurance afforded the Contractor shall be primary insurance and that any insurance and/or self-insurance carried by the City of Glendale shall be excess and not contributory insurance.
2. Coverage provided by the Contractor shall not be limited to the liability assumed under the indemnification provisions of this Contract.

**C. NOTICE OF CANCELLATION:** With the exception of (10) day notice of cancellation for non-payment of premium, any changes material to compliance with this contract in the insurance policies above shall require (30) days written notice to the City of Glendale. Such notice shall be sent directly to **the Department**.

**D. ACCEPTABILITY OF INSURERS:** Contractors insurance shall be placed with companies licensed in the State of Arizona or hold approved non-admitted status on the Arizona Department of Insurance List of Qualified Unauthorized Insurers. Insurers shall have an “A.M. Best” rating of not less than A- VII. The City of Glendale in no way warrants that the above-required minimum insurer rating is sufficient to protect the Contractor from potential insurer insolvency.

**E. VERIFICATION OF COVERAGE:** Contractor shall furnish the City of Glendale with certificates of insurance (ACORD form or equivalent approved by the State of Arizona) as required by this Contract. The certificates for each insurance policy are to be signed by an authorized representative.

All certificates and endorsements (**Blanket Endorsements are not acceptable**) are to be received and approved by the City of Glendale Department before work commences. Each insurance policy required by this Contract must be in effect at or prior to commencement of work under this Contract and remain in effect for the duration of the project. Failure to maintain the insurance policies as required by this Contract, or to provide evidence of renewal, is a material breach of contract.

All certificates required by this Contract shall be sent directly to City of Glendale, Materials Management Division, 5850 W. Glendale Ave., Ste 317, Glendale, AZ



Solicitation Number: IFB 16-49

**INDUSTRIAL FORKLIFTS**

**CITY OF GLENDALE  
Materials Management  
5850 West Glendale  
Avenue, Suite 317  
Glendale, Arizona 85301**

85301. The City of Glendale project/contract number and project description are to be noted on the certificate of insurance. The City of Glendale reserves the right to require complete, certified copies of all insurance policies required by this Contract at any time.

**F. APPROVAL:** Any modification or variation from the *insurance requirements* in this Contract shall be made by the contracting agency in consultation with the Risk Management. Such action will not require a formal Contract amendment, but may be made by administrative action.

**G. EXCEPTIONS:** In the event the Contractor or sub-contractor(s) is/are a public entity, then the Insurance Requirements shall not apply. Such public entity shall provide a Certificate of Self-Insurance.

**3.13 COOPERATIVE USE OF CONTRACT** This agreement may be extended for use by other governmental agencies and political subdivisions of the State, including all members of SAVE (Strategic Alliance for Volume Expenditures). Any such usage by other entities must be in accord with the ordinances, charter, rules and regulations of the respective entity and the approval of the Contractor and City. For a list of SAVE members, click on the following link:

<http://www.maricopa.gov/procurement/PubDocuments/SAVE-members.pdf>

**3.14 PERMITS AND LICENSES** The Contractor shall be responsible for determining and securing, at his/her expense, any and all licenses and permits that are required by any statute, ordinance, rule or regulation of any regulatory body having jurisdiction in any manner connected with providing products and services. Such fees shall be included in and are part of the total offer cost. During the term of the contract, the Contractor shall notify the City in writing, within two (2) working days, of any suspension, revocation or renewal.

**3.15 RESPONSIBILITY FOR CORRECTION** It is agreed that the Contractor shall be fully responsible for making any correction, replacement, or modification necessary for specification or legal compliance. In the event of any call back, Contractor agrees to give the City its priority. Contractor agrees that if the product or service offered does not comply with the foregoing, the City has the right to cancel the purchase at any time with full refund within 30 calendar days after notice of non-compliance. Contractor further agrees to be fully responsible for any consequential damages suffered by the City as a result of specification or legal non-compliance.

**3.16 NON-DISCRIMINATION** By submitting this Bid, Contractor agrees not to discriminate against any employee or applicant for employment on the basis of race, color, religion, sex, national origin, age, marital status, sexual orientation, gender identity or expression, genetic characteristics, familial status, U.S. military veteran status or any



Solicitation Number: IFB 16-49

**INDUSTRIAL FORKLIFTS**

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disability. Contractor will require any Sub-contractor to be bound to the same requirements as stated within this section. Contractor, and on behalf of any subcontractors, warrants compliance with this section.

- 3.17 EMERGENCY BUSINESS SERVICES** During a natural disaster, or homeland security event, there may be a need for the City to access your business for products or services twenty-four (24) hours a day, seven (7) days a week, three hundred sixty-five (365) days a year. The need could be for a pick up or a delivery.

For this purpose, a primary and secondary emergency contact name and phone number are required from the successful contractor(s). It is critical to the City that the contractor's emergency contact information remains current. The Materials Management staff member, identified on page 1, is to be contacted by E-mail with any change to a contact name or phone number.

All products or services provided to meet an emergency phone request are to be supplied as per the contract prices, terms and conditions. The Contractor may provide the fee (pricing) for an after-hours emergency opening of the business separate from the Price Sheet (Section 5.0). In general, the order will be placed using a City Procurement Card. The billing is to include the emergency opening fee, if applicable.

- 3.18 PUBLIC RECORD** Contractor acknowledges that the City is a public agency and must comply with all Public Records laws. All proposals submitted in response to the Solicitation shall become the property of the City and, subsequent to award recommendation, become a matter of public record available for review pursuant to Arizona Public Records Law.

If a Contractor believes that a specific section of its Proposal response is confidential, that should be withheld from the public record, Contractor shall isolate the pages and mark each page confidential in a specific and clearly labeled section of its Proposal response. The Contractor shall include a written statement as to the basis for considering the marked pages confidential including the specific harm or prejudice if disclosed. The City Materials Management Division will review the material and make a determination as to the confidentiality of any of the information and/or material contained within the Submittal. In the event of a public records request for documents Contractor deems confidential, the City will notify Contractor of the request and if Contractor claims such documents are confidential, it shall be the Contractor's sole responsibility, including sole cost, to take appropriate action, including legal action, to protect such documents.



Solicitation Number: IFB 16-49  
**INDUSTRIAL FORKLIFTS**

**CITY OF GLENDALE**  
 Materials Management  
 5850 West Glendale  
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4.0

**CONDITIONAL ACCEPTANCE**  
**INVITATION FOR BID NO. IFB # 16-49**  
**TITLE: INDUSTRIAL FORKLIFTS**

1. Subject to City Council approval, this notification constitutes a conditional acceptance of your bid to provide the materials listed on the Price Sheet. All terms and conditions of the IFB shall apply.
2. The term of the proposed Agreement shall be a two (2) year initial period with the option of the City and with the approval of the Contractor to extend the proposed agreement for three (3) additional years in one (1) year increments based on satisfactory contract performance.
3. A Department administrator will oversee the proposed Agreement for the City. The City's contract administrator is Jacob Romero, MRF Supervisor.
4. This Conditional Acceptance does not constitute a commitment to purchase on the part of the City of Glendale.
5. **You are required to sign three (3) copies of this Acceptance form and return with this Bid.** Failure to furnish signed copies of this document to the City of Glendale may be considered a default, and your refusal to contract with the City. The City is entitled to any remedies or rights as may be granted by law.

**OFFER**

The Undersigned hereby offers and agrees to furnish the material or service in compliance with all terms, conditions, specifications and amendments in the Solicitation and any written exceptions in the bid.

Contractor Name: Forklift Exchange Inc Contractor Signature: Bob Cannady  
 Company Address: 2240 W. Sullivan Rd Printed Name and Title: Bob Cannady GPM  
Phoenix, AZ 85019 Telephone No. 602-494-9808  
 Company Federal I.D.: 36-3450799 Arizona Sales Tax No. [REDACTED]  
 Email Address: BobC@FORKLIFTEXCHANGE.COM

**ACCEPTANCE OF OFFER**

The Offer is conditionally accepted. The Contractor is now bound to sell the materials or services specified in the IFB, including all terms and conditions, specifications, addenda, etc. Contractor is cautioned not to provide any material or service under this proposed Agreement until City Council has approved the expenditure and Contractor receives a Purchase Order.

City of Glendale City Manager or Designee Signature:

Printed Name and Title:

KRP

Kevin R. Phelps, City Manager

Date:

10-28-16

ATTEST:

[Signature]

~~Patricia Hanna~~, City Clerk

(SEAL)

Julie K Bower

APPROVED AS TO FORM:

[Signature]

Michael D. Bailey, City Attorney



Solicitation Number: IFB 16-49  
**INDUSTRIAL FORKLIFTS**

CITY OF GLENDALE  
 Materials Management  
 5850 West Glendale  
 Avenue, Suite 317  
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**5.0 PRICE SHEET**

Contractor's pricing shall include but not limited to, all equipment, delivery, labor, materials, supplies, licenses, fees, insurance, warranty, profit and any other associated direct or indirect costs. Sales tax shall not be included in the Unit Price.

ITEM NO.	ESTIMATED QUANTITY (A)	UNIT OF MEASURE	DESCRIPTION	UNIT PRICE (B)	EXTENDED PRICE (A X B)
5.1	2	EACH	Industrial Forklift as per specifications  Manufacturer: <u>UNICARRIERS</u>  Model: <u>PF60LP</u>	<u>\$29,577.00</u>	<u>\$59,154.00</u>
<b>Grand Total</b>					<u>\$59,154.00</u>

5.2 **DELIVERY** Contractor shall deliver the Industrial Forklifts within 45 days upon receipt of purchase order.

\*LEAD TIME AVERAGE IS 14-16 WEEKS

Comply: Yes  No

5.3 **TAX AMOUNT** Do not include any use tax or federal tax in your quotation. The City is exempt from the payment of federal excise tax and will add use tax as applicable. For the purpose of determining the lowest cost, the City will not take tax into consideration.

Tax % \_\_\_\_\_

5.4 **PROCUREMENT CARD ORDERING CAPABILITY** Please check appropriate box.

Yes, I will accept payment under this contract with the Procurement Card.

No, I will not accept payment under this contract with the Procurement Card.

Company Name: FORKLIFT Exchange INC.



# Forklift Exchange

2240 W. Buckeye Road  
Phoenix, AZ 85009

City of Glendale  
Materials Management  
5850 W. Glendale Ave.  
Suite 317  
Glendale, AZ 85301

Solicitation #: IFB 16-49

## Technical Specifications: Addendum

<u>Item No.</u>	<u>Specifications</u>	<u>Offered</u>
1.3.4	Mast: Three Stage Lift 189" max fork height 87" max overall ht lowered 65" free lift 14.76" x 4" x 42" forks 48" LBR 84" Overhead Guard 42" - 46" carriage width 6 degree forward tilt 11 degree backward tilt	187" max fork height 90.9" lowered ht 66" free lift 2" x 5" x 42" forks 48" LBR 84.6" Overhead Guard 40.2" carriage width 6 degree forward tilt 12 degree backward tilt
1.3.6	8:15 x15 drive tire 6.5 x 10 steer tire	9 x 15 drive tire 6.5 x 10 steer tire
1.3.16	1 yr/2000 hour warranty	2 yr/Unlimited hr warranty



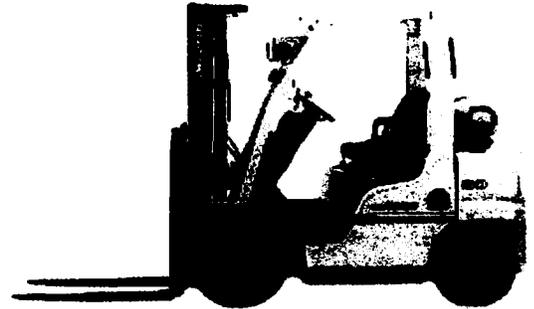
# FORKLIFT EXCHANGE, INC.

2240 West Buckeye Road  
Phoenix, AZ 85009  
P. 602.454.9808  
F. 602.454.8899  
www.forkliftexchange.com

Quote #: PeterHart-20160517-1044

May 17, 2016

City of Glendale-Materials Management  
Mr. Elmer Garcia  
5850 West Glendale Ave.  
Glendale, AZ 85301



**Plat II Pneu**

Dear Mr. Elmer Garcia,

Thank you for considering Forklift Exchange for your material handling equipment needs. We are pleased to offer the following for your review.

**Model** PF60LP  
UniCarriers Platinum II Series - Model PF60LP Pneumatic Tire Forklift. Powered by K25, EPA Tier II/CARB Certified, Low Emission, Electronic Fuel Injected Industrial Engine – 151.8 Cubic Inches, 62.9 hp @ 2,700 RPM.

**Class** Class - V

**Quantity** 2

**Base Capacity** 6,000

**Fuel** LP

**OPTIONS INCLUDED IN THIS PROPOSAL**

<u>Qty</u>	<u>Category</u>	<u>Factory No.</u>	<u>Description</u>
1	Masts	3F475	TRIPLEX - OHL-90.9" MFH-187" FL-66.0" Standard Tilt: 6/6, and Includes a 40.2" Wide, ITA Class III Carriage.
1	Forks	42009	42" Standard Type Forks 2" x 5", ITA Class III
1	Tires	TIR02	Solid Pneumatic Tires - All - Drive Tire Size - 28 x 9 - 15 Steer Tire Size - 6.50 x 10
1	Load Backrests	BAKH	48" Overall Height Load Backrest Included with Mast
1	Carriages	CRGH	Carriage - Standard Design



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1	Side Shifter	MATDJ	Sideshifting Fork Positioner - Hang-on 40.2" (1020mm) Carriage Width. Cascade 65K-FPS-B137. For 3F& 3V Masts Only. Requires CRGH & PIP2. N/A with QD1, QD2, or S/S0_.
1	Hydraulic Valve & Controls	VAL4	4-Spool Valve & Lever
1	Hydraulic Valve & Controls	LVRW	Separate Lift and Tilt (Dual Hydraulic Control Levers) Note: Available at No Charge
1	Hydraulic Hose Groups	PIP2(T)	Dual Internal Hosing for Standard Triplex Mast
1	Truck Control	GRDSPD	Maximum Travel Speed: Programmable via Meter Panel by Service Tech
1	Truck Control	PKBP	Parking Brake / Transmission Interlock with Parking Brake Warning Light and Buzzer
1	Truck Control	INHZ	Seatbelt Warning - Light and Buzzer
1	Lights & Mirrors	MLMHJ	Headlights Overhead Guard Mounted
1	Lights & Mirrors	MLMB3	LED Rear Drive Light - Reverse Activated
1	Lights & Mirrors	MLMR3	LED Turn, Stop & Backup Lights - Vertical Rear OHG Pillar Mounted
1	Lights & Mirrors	LMXD	Strobe Light - Amber
1	Operator Environment	SETQ	Full Suspension Vinyl Seat
1	Fuel	LPT33	33# LP Tank, Horizontal Mount
1	Fuel	LPGQ	Ergonomic Swing-Down LPG Bracket (Consult Factory for Special Requirements or Limitations)
1	Fuel	FTAB	LPMMax - Enhanced Low LP Fuel Warning
1	Fuel	LPGS	Stationary Fixed LPG Tank Bracket
1	Miscellaneous	BZBA	Back-Up Alarm
1	Environmental Modifications	DSTW	Debris Package includes: Screen Belly Cover and Vented Steer Tire Air Flow Inserts
1	Environmental Modifications	DSTX	Frame Brackets for Field Installation of Debris Package or Recycler Package Belly Pan and Wheel Well Covers
1	Freight		FOB Glendale, AZ 85301
1	LP Bracket	TMR(0026)	Swing down LPG mounting

## Specifications

### Ergonomic Factors

Operator Comfort System provides low noise and vibration levels, minimizing operator fatigue. Adjustable Tilt Steering Column with memory and a Full Suspension Seat with retractable seat belt, status alarm, and padded hip restraints, for maximum operator comfort.



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- Hydraulics** Nissan Forklift offers the exclusive Single Lift/Tilt Lever for precise control (Separate Lift & Tilt available upon request, at no charge). A large Integrated (steel) Hydraulic Tank, with multiple filters, offers improved heat displacement. Nissan Forklift Hydraulic Load Sensing Valve System provides maximum lifting and lowering speeds for faster operation cycle times.
- Nissan Forklift Engine** The Nissan Forklift K25 Industrial Engine performs well below the stringent EPA Tier II emission standards. The ECCS (Electronic Concentrated Control System), supported by the VCM (Vehicle Control Module) and ECM (Engine Control Module), provides the perfect balance of Low Emissions, High Performance and Excellent Fuel Efficiency. The Engine/Transmission Protection and Warning System utilizes warning lights and a two-stage RPM reduction to provide extended engine and drive-train life.
- Platinum Features** Multi-Function LCD Display features Hour Meter, Clock & Calendar, On-Board Diagnostics & Service Reminder, Operator PIN Access, Speedometer & F/N/R Transmission Indicator, Warning Lights & Engine Coolant Temperature Gauge, and Low Fuel Warning Light. Automatic Transmission with single speed forward & reverse. Heavy Duty Drive Axle with superb braking and extra large brake drums, incorporating self-adjusting shoes. Tight Minimum Turning Radius offers maneuverability by design. Five-Piece Overhead Guard design offers protection and component replaceability. LED Headlights and Back-Up Alarm are included. U.L. Approved.
- Quality/Performance** The Platinum II Series is a reflection of Nissan Forklift continuing commitment to designing and delivering products of the highest value that incorporate the most advanced technology available in the industry. Backed by years of experience and expertise, Nissan Forklift offers the Perfect Balance of an Ultra-Low Emission Engine packaged into a High Performance Forklift. The models are assembled and supported by an ISO 9001-2000 Certified Company
- Specifications**  
Basic Capacity: 6000 lbs @ 24"  
Overall Length to Face of Forks: 105.7"  
Overall Width (standard Tires): 49.2"  
Overhead Guard Height: 84.6"  
Turning Radius (minimum outside): 90.6"  
Travel Speed Forward/Reverse: 12.1 / 12.1 mph  
Lift Speed - Full Load/No Load: 104.3 / 114.1 fpm  
Gradeability Maximum - Full Load/No Load: 28 / 24 tan %  
Drive Tires - Pneumatic: 28 x 9 - 15 - 12PR  
Steer Tires - Pneumatic: 6.50 x 10 10PR
- Tires** Standard, Pneumatic Type - Drive Size - 28 x 9 - 15 - 12PR / Steer Size - 6.50 x 10 - 10PR
- Warranty** BEST IN CLASS BASE WARRANTY PROTECTION! The entire forklift (excluding normal wear items) is covered for 24 Months, unlimited hours and the powertrain is covered for 24 Months, unlimited hours. (See warranty certificate dated 11/2014 for details and exclusions.)

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## Standard Features

GCT Electronic Fuel Injected Engine - Gas/LP  
3-Way Catalytic Converter - Gas/LP  
Electronic Engine Control System - Gas/LP  
U.L. Approved



# FORKLIFT EXCHANGE, INC.

2240 West Buckeye Road  
 Phoenix, AZ 85009  
 P. 602.454.9808  
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 www.forkliftexchange.com

- Two-Stage - Engine and Transmission Protection System - Gas/LP
- Cushioned Stability Control
- Seat Actuated Operator Presence System
- Auto-Mast Lock & Return-to-Neutral
- Seat Belt Warning System
- Horn and Backup Alarm
- Parking Brake With Warning Buzzer
- 5-Piece Reinforced Overhead Guard
- LED Headlights - OHG Mounted
- Multi Function LCD Display
- Hour Meter, Clock, and Calendar
- On-board Diagnostics and Programmable Service Reminder
- Operator Security PIN Access
- Speedometer and F/N/R Transmission Indicator
- Warning Lights and Engine Coolant Temperature Gauge
- Air Cleaner and Low Coolant Level Warning
- Low Fuel Warning Light (LP)
- Full Suspension Seat with Operator Restraint and Adjustable Lumbar Support
- Infinitely Adjustable Tilt Steering Wheel
- Hydrostatic Power Steering
- Automatic Transmission
- Drawbar Pin
- 3-Spool Hydraulic Valve

	<u>Price</u>
Model cost (pre Tax)	\$29,577.00
<hr/>	
<b>Total Per Unit</b>	<b>\$29,577.00</b>
<b>Quantity Selected: 2</b>	<b>\$59,154.00</b>
<hr/>	
* Trade In	\$0.00
<hr/>	
<b>Grand Total</b>	<b>\$59,154.00</b>

\* All prices reflect equally distributed credit(s) for trade in(s)

**Estimated Delivery  
 Quoted Price Expires**

**Thursday, June 16, 2016**



# FORKLIFT EXCHANGE, INC.

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[www.forkliftexchange.com](http://www.forkliftexchange.com)

## Executive Summary

<u>Qty</u>	<u>Manufacturer/Model</u>	<u>Price</u>
2	PF60LP	\$59,154.00
<b>Grand Total</b>		<b>\$59,154.00</b>

Note: This is based on a USD Currency Conversion rate of: 1.00000



# FORKLIFT EXCHANGE, INC.

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## Terms For Acceptance Of Proposal And Attachments

### Accepted Contract Of Sale

The proposal in this quote is property of Forklift Exchange and is confidential and proprietary. Unauthorized disclosure could be harmful to Forklift Exchange and by acceptance, prospective buyer agrees not to publish, copy or reproduce the contents without the express written consent of Forklift Exchange. City of Glendale-Materials Management will not use such information for any other purpose than for the consideration of a Forklift Exchange supplied system and will return any or all information contained herein to Forklift Exchange upon request

Submitted By: \_\_\_\_\_ Date: \_\_\_\_\_  
Peter Hart

Accepted By: \_\_\_\_\_ Date: \_\_\_\_\_  
Mr. Elmer Garcia

Title: \_\_\_\_\_

Customer PO Number: \_\_\_\_\_



## Forklift Exchange

2240 W. Buckeye Road  
Phoenix, AZ 85009

City of Glendale  
Materials Management  
5850 W. Glendale Ave.  
Suite 317  
Glendale, AZ 85301

Solicitation #: IFB 16-49

### REFERENCES

1: Sunstate Equipment Co.  
5552 E. Washington St.  
Phoenix, AZ 85034  
Trevor Richman  
602-683-0307  
[trevor.richman@sunstateequip.com](mailto:trevor.richman@sunstateequip.com)

Description: 200 - PF50LP Forklifts  
Parts & Service

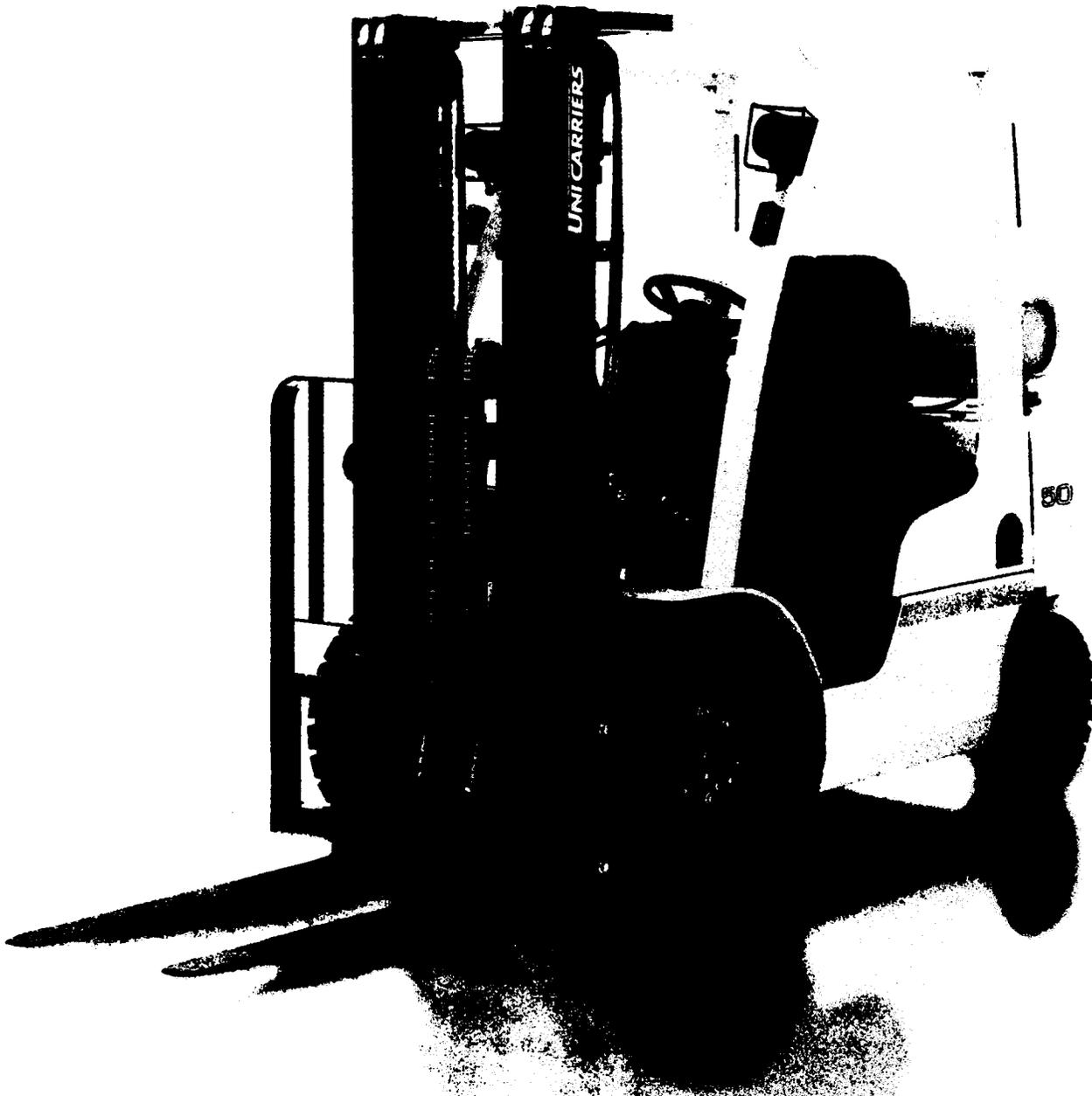
2: Morton Salt  
13000 W. Glendale Ave.  
Glendale, AZ 85307  
Blaine Godfrey  
623-247-3000 xt 3107  
[bgodfrey@mortonsalt.com](mailto:bgodfrey@mortonsalt.com)

Description: 10 - PF50LP Forklifts  
Parts & Service

3: Magellan Aerospace  
5401 W. Luke Ave.  
Glendale, AZ 85301  
Gary Reynolds  
623-939-9441 xt 3125  
[gary.reynolds@magellanaero.com](mailto:gary.reynolds@magellanaero.com)

Description: 6 - PF50LP Forklifts  
Parts & Service

# □ FORKLIFT □<sup>®</sup>



Engine Powered Forklifts

\* PFGOLP



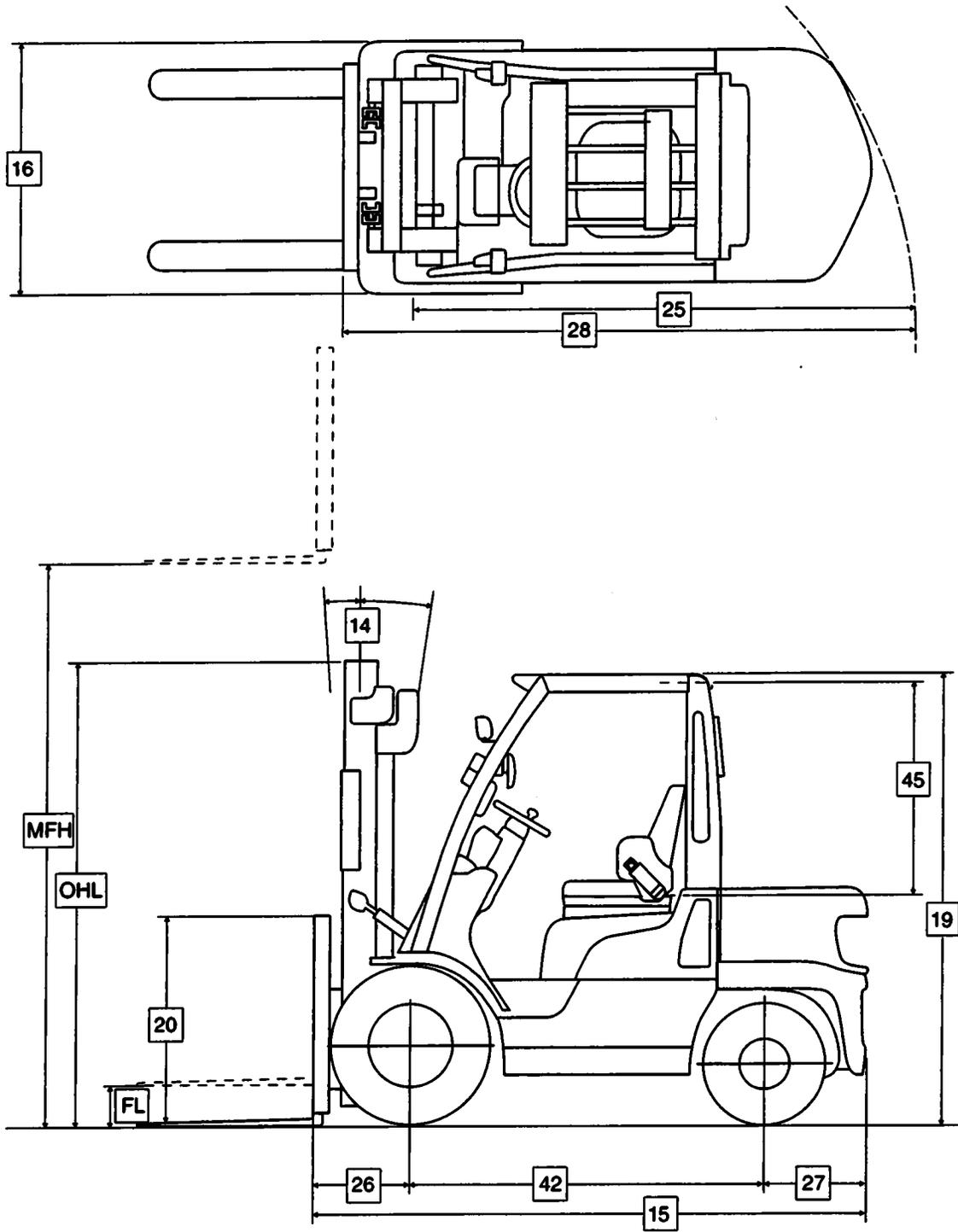
**MAIN TRUCK SPECIFICATIONS**

1	Manufacturer's Name				
2	Model	Model designation			
3		Long Model Code			
4	Rated Load Capacity		lb (kg)	4000 (1800)	4000 (1800)
5	Load Center	Distance	in (mm)	24 (600)	24 (600)
6	Power Type			G - LP - G/LP	G - LP - G/LP
7	Operator Orientation			Sit	Sit
8	Tire Type	Front & rear		Pneumatic	Pneumatic
9	Wheels	Number (x=driven) front/rear		2 x / 2	2 x / 2
10	Mast	Maximum fork height	in (mm)	130 (3300)	130 (3300)
11		Standard freelif	in (mm)	6.1 (155)	6.1 (155)
12	Forks	Thickness & width	in (mm)	1.5 x 4 (40x100)	1.5 x 4 (40x100)
13		Length	in (mm)	42 (1070)	42 (1070)
14	Tilt Angle	Standard mast - fwd/back	degree	6/12	6/12
15	Overall Dimensions	Length (to face of forks)	in (mm)	96.9 (2460)	96.9 (2460)
16		Width (single/dual tires)	in (mm)	45.3 (1150) / 64.6 (1640)	45.3 (1150) / 64.6 (1640)
17		Mast lowered (OHL)	in (mm)	84.4 (2145)	84.4 (2145)
18		Mast extended with LBR	in (mm)	179.3 (4555)	179.3 (4555)
19		Height - top of OHG	in (mm)	83.5 (2120)	83.5 (2120)
20		Height - top of standard LBR	in (mm)	48 (1220)	48 (1220)
21		Width - standard carriage	in (mm)	40.2 (1020)	40.2 (1020)
22	Grade Clearance	Ramp breakover angle	tan (%)	44	44
23		Departure angle	tan (%)	45	45
24		Approach angle	tan (%)	32	32
25	Turning Radius	Minimum outside	in (mm)	83.5 (2120)	83.5 (2120)
26	Overhang	Front	in (mm)	17.5 (445)	17.5 (445)
27		Rear	in (mm)	16.3 (415)	16.3 (415)
28	Min Right Angle Stack	Add load length & clearance	in (mm)	101 (2565)	101 (2565)
29	Speeds Maximum	Travel - forward or reverse	mph (km/h)	11.8 (19)	11.8 (19)
30		Lift - full/empty	fpm (mm/sec)	118.1/127.9(600/650)	129.9/137.8 (660/700)
31		Lowering - full/empty	fpm (mm/sec)	98.4 (500)	98.4 (500)
32	Drawbar Pull Max	Full load	lb (kg)	3880 (1760)	4189 (1900)
33		Empty	lb (kg)	3439 (1560)	3439 (1560)
34	Gradeability Max (1.2 mph)	Full/empty	tan (%)	31 / 28	39 / 28
35	Truck Weight	Standard truck - no load	lb (kg)	7145 (3240)	7145 (3240)
36	Weight Distribution	Front axle - empty	lb (kg)	3365 (1525)	3365 (1525)
37		Rear axle - empty	lb (kg)	3780 (1715)	3780 (1715)
38		Front axle - with rated load	lb (kg)	10015 (4709)	10015 (4709)
39		Rear axle - with rated load	lb (kg)	1130 (531)	1130 (531)
40	Tire Size	Front - single (or dual) tire		7.00-12-12PR	7.00-12-12PR
41		Rear		6.00-9-10PR	6.00-9-10PR
42	Wheelbase		in (mm)	63 (1600)	63 (1600)
43	Tread - Center of Tire	Front / rear	in (mm)	37.8/38.4 (960/975)	37.8/38.4 (960/975)
44		Front dual tires	in (mm)	47.4 (1205)	47.4 (1205)
45	Headroom	SIP to bottom of OHG	in (mm)	42.5 (1080)	42.5 (1080)
46	Counterweight Height		in (mm)	42.1 (1070)	42.1 (1070)
47	Step Height		in (mm)	17.9 (455)	17.9 (455)
48	Ground Clearance	Under mast	in (mm)	4.5 (115)	4.5 (115)
49		Under power unit	in (mm)	5.3 (135)	5.3 (135)
50		Under frame (WB center)	in (mm)	6.1 (155)	6.1 (155)
51	Service Brake	Type		Drum and Shoe	Drum and Shoe
52	Parking Brake	Type		Hand	Hand
53	Steering	Type		Full Hydraulic	Full Hydraulic
54	Engine	Model		K21	K25
55	Rated Output	SAE gross	hp (kW) @ rpm	55 (41) @ 2700	62.9 (46.9) @ 2700
56	Rated Torque	SAE gross	ft-lb (Nm) @ rpm	111.4 (151) @ 2000	138.7 (188) @ 1600
57	Displacement		cu in (cm <sup>3</sup> )	126 (2065)	151.8 (2488)
58	Transmission	Type		Automatic	Automatic
59		Number speeds - fwd/rev		1/1	1/1

# MAIN TRUCK SPECIFICATIONS

	5000 (2250)	5000 (2250)	5500 (2500)	6000 (2700)	7000 (3150)
4	5000 (2250)	5000 (2250)	5500 (2500)	6000 (2700)	7000 (3150)
5	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)
3.2 → 6	G - LP - G/LP				
7	Sit	Sit	Sit	Sit	Sit
8	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic
9	2 x / 2	2 x / 2	2 x / 2	2 x / 2	2 x / 2
10	130 (3300)	130 (3300)	130 (3300)	130 (3300)	130 (3300)
11	6.1 (155)	6.1 (155)	6.1 (155)	6.5 (165)	6.5 (165)
3.4 → 12	1.5 x 4 (40x100)	1.5 x 4 (40 x 100)	1.5 x 4 (40 x 100)	[REDACTED] 42"	2 x 5 (50 x 125)
13	42 (1070)	42 (1070)	42 (1070)	42 (1070)	42 (1070)
3.4 → 14	6/12	6/12	6/12	[REDACTED] TILT	6/12
15	99 (2515)	99 (2515)	102.8 (2610)	105.5 (2680)	108.5 (2755)
16	45.3 (1150) / 64.6 (1640)	45.3 (1150) / 64.6 (1640)	49.2 (1250) / 65.6 (1665)	49.2 (1250) / 65.6 (1665)	50.4 (1280) / 67.7 (1720)
17	84.4 (2145)	84.4 (2145)	85.6 (2175)	85.6 (2175)	91.1 (2315)
18	179.3 (4555)	179.3 (4555)	179.3 (4555)	179.4 (4560)	179.4 (4560)
3.4 → 19	83.5 (2120)	83.5 (2120)	84.6 (2150)	[REDACTED] OHG	84.8 (2155)
20	48 (1220)	48 (1220)	48 (1220)	48 (1220)	48 (1220)
3.4 → 21	40.2 (1020)	40.2 (1020)	40.2 (1020)	[REDACTED]	40.2 (1020)
22	44	44	52	49	51
23	37	37	42	43	39
24	32	32	41	41	51
25	85.8 (2180)	85.8 (2180)	88.2 (2240)	90.6 (2300)	94.1 (2390)
26	17.5 (445)	17.5 (445)	18.5 (470)	18.9 (480)	19.3 (490)
27	18.5 (470)	18.5 (470)	20.5 (520)	19.7 (500)	22.2 (565)
28	103.3 (2625)	103.3 (2625)	106.7 (2710)	109.5 (2780)	113.4 (2880)
29	11.8 (19)	11.8 (19)	11.8 (19)	11.8 (19)	11.5 (18.5)
30	118.1/127.9 (600/650)	129.9/137.8 (660/700)	104.3/114.1 (530/580)	104.3/114.1 (530/580)	88.6/92.5 (450/470)
31	98.4 (500)	98.4 (500)	98.4 (500)	98.4 (500)	82.7/70.8 (420/380)
32	3880 (1760)	4189 (1900)	4189 (1900)	4189 (1900)	4034 (1830)
33	3439 (1560)	3439 (1560)	4057 (1840)	4167 (1890)	3968 (1800)
34	27 / 24	33 / 24	30 / 25	28 / 24	23 / 22
35	7925 (3595)	7925 (3595)	8825 (4000)	9265 (4200)	10120 (4590)
36	3200 (1450)	3200 (1450)	3395 (1540)	3825 (1735)	3760 (1705)
37	4725 (2145)	4725 (2145)	5430 (2460)	5440 (2465)	6360 (2885)
38	11515 (5430)	11515 (5430)	12590 (5935)	13700 (6460)	16215 (7240)
39	1410 (665)	1410 (665)	1735 (815)	1565 (740)	1905 (850)
3.6 → 40	7.00-12-12PR	7.00-12-12PR	28 x 9-15-12PR	[REDACTED]	250-15-16PR
41	6.00-9-10PR	6.00-9-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-12PR
42	63 (1600)	63 (1600)	63.8 (1620)	66.9 (1700)	66.9 (1700)
43	37.8/38.4 (960/975)	37.8/38.4 (960/975)	40.6/38.6 (1030/980)	40.6/38.6 (1030/980)	41.7/38.6 (1060/980)
44	47.4 (1205)	47.4 (1205)	47.6 (1210)	47.6 (1210)	48.4 (1230)
45	42.5 (1080)	42.5 (1080)	42.5 (1080)	42.5 (1080)	42.5 (1080)
46	42.1 (1070)	42.1 (1070)	43.3 (1100)	43.3 (1100)	43.5 (1105)
47	17.9 (455)	17.9 (455)	19.1 (485)	19.1 (485)	19.3 (490)
48	4.5 (115)	4.5 (115)	5.7 (145)	5.7 (145)	5.9 (150)
49	5.3 (135)	5.3 (135)	6.5 (165)	6.5 (165)	6.7 (170)
50	6.1 (155)	6.1 (155)	7.3 (185)	7.3 (185)	7.5 (190)
51	Drum and Shoe				
52	Hand	Hand	Hand	Hand	Hand
3.11 → 53	Full Hydraulic	Full Hydraulic	Full Hydraulic	[REDACTED]	Full Hydraulic
54	K21	K25	K25	K25	K25
3.1 → 55	55 (41) @ 2700	62.9 (46.9) @ 2700	62.9 (46.9) @ 2700	[REDACTED]	62.9 (46.9) @ 2700
56	111.4 (151) @ 2000	138.7 (188) @ 1600	138.7 (188) @ 1600	138.7 (188) @ 1600	138.7 (188) @ 1600
57	126 (2065)	151.8 (2488)	151.8 (2488)	151.8 (2488)	151.8 (2488)
3.3 → 58	Automatic	Automatic	Automatic	[REDACTED]	Automatic
59	1/1	1/1	1/1	1/1	1/1

DIMENSIONS



**MAST SPECIFICATIONS & RATED CAPACITIES**

2W270	106 (2700)	73.8 (1875)	6.5 (165)	6/12	6000 (2700)	6000 (2700)
2W300	118 (3000)	79.7 (2028)	6.5 (165)	6/12	6000 (2700)	6000 (2700)
2W330	130 (3300)	85.6 (2175)	6.5 (165)	6/12	6000 (2700)	6000 (2700)
2W350	138 (3500)	90.9 (2310)	6.5 (165)	6/12	6000 (2700)	6000 (2700)
2W370	146 (3700)	95.9 (2440)	6.5 (165)	6/12	6000 (2700)	6000 (2700)
2W400	157 (4000)	103.3 (2625)	6.5 (165)	6/6	6000 (2700)	6000 (2700)
2W450	177 (4500)	113.2 (2880)	6.5 (165)	6/6	5800 (2550)	5900 (2700)
2W500	197 (5000)	123.0 (3125)	6.5 (165)	6/6	5150 (2300)	5700 (2600)
2F300	118 (3000)	79.7 (2025)	53.4 (1355)	6/12	6000 (2700)	8000 (2700)
2F330	130 (3300)	85.6 (2175)	59.3 (1505)	6/12	6000 (2700)	6000 (2700)
2F350	138 (3500)	90.9 (2310)	64.6 (1635)	6/12	6000 (2700)	6000 (2700)
2F370	146 (3700)	95.9 (2440)	70.0 (1775)	6/12	6000 (2700)	6000 (2700)
2F400	157 (4000)	103.3 (2625)	77.0 (1955)	6/6	5950 (2700)	6000 (2700)
3F385	152 (3850)	79.7 (2028)	54.8 (1390)	6/6	6000 (2700)	6000 (2700)
3F430	169 (4300)	85.6 (2175)	60.7 (1540)	6/6	5800 (2650)	5800 (2650)
3F515	203 (5150)	95.9 (2440)	70.9 (1800)	6/6	4700 (2150)	5650 (2550)
3F550	217 (5500)	103.3 (2625)	78.4 (1990)	6/6	3700 (1700)	5450 (2450)
3F600	236 (6000)	113.2 (2880)	88.2 (2240)	6/6	2650 (1200)	5300 (2400)
3F650	256 (6500)	123.0 (3125)	98.1 (2490)	6/6	1500 (700)	5100 (2300)
3F700	276 (7000)	132.9 (3380)	107.9 (2740)	6/6	1000 (450)	4550 (2050)
3V385	152 (3850)	79.7 (2028)	54.8 (1390)	6/6	5950 (2700)	3000 (1350)
3V430	169 (4300)	85.6 (2175)	60.7 (1540)	6/6	5750 (2850)	5950 (2700)
3V470	185 (4700)	90.9 (2310)	66.0 (1675)	6/6	5500 (2500)	5750 (2600)
3V505	199 (5050)	95.9 (2440)	70.9 (1800)	6/6	4700 (2150)	5550 (2500)
3V555	219 (5550)	103.3 (2625)	78.4 (1990)	6/6	3700 (1700)	5450 (2450)
3V600	236 (6000)	113.2 (2880)	88.2 (2240)	6/6	2600 (1200)	5300 (2400)
3V650	256 (6500)	123.0 (3125)	98.1 (2490)	6/6	1400 (650)	5000 (2250)
3V700	276 (7000)	132.9 (3380)	107.9 (2740)	6/6	1000 (450)	4500 (2050)

1.3.4 →

\*Without LBR

2W300	118 (3000)	85.8 (2180)	6.5 (165)	6/12	7000 (3150)	7000 (3150)
2W330	130 (3300)	91.1 (2315)	6.5 (165)	6/12	7000 (3150)	7000 (3150)
2W350	138 (3500)	96.1 (2445)	6.5 (165)	6/12	7000 (3150)	7000 (3150)
2W370	146 (3700)	103.5 (2630)	6.5 (165)	6/12	7000 (3150)	7000 (3150)
2W400	157 (4000)	113.4 (2885)	6.5 (165)	6/6	6900 (3100)	7000 (3150)
2W450	177 (4500)	123.2 (3130)	6.5 (165)	6/6	6800 (3050)	6900 (3100)
2W500	197 (5000)	133.1 (3385)	6.5 (165)	6/6	6600 (2950)	6700 (3000)
2F300	118 (3000)	85.8 (2180)	57 (1445)	6/12	7000 (3150)	7000 (3150)
2F330	130 (3300)	91.1 (2315)	62 (1570)	6/12	7000 (3150)	7000 (3150)
2F350	138 (3500)	96.1 (2445)	67 (1700)	6/12	7000 (3150)	7000 (3150)
2F370	146 (3700)	103.5 (2630)	74 (1875)	6/12	7000 (3150)	7000 (3150)
2F400	157 (4000)	113.4 (2885)	84 (2130)	6/6	6900 (3100)	7000 (3150)
3F355	140 (3550)	74.2 (1885)	43.5 (1100)	6/6	7000 (3150)	7000 (3150)
3F400	157 (4000)	80.1 (2035)	49.4 (1250)	6/6	7000 (3150)	7000 (3150)
3F445	175 (4450)	86.0 (2185)	55.4 (1405)	6/6	6800 (3050)	6800 (3050)
3F485	191 (4850)	91.3 (2320)	60.7 (1540)	6/6	6600 (2950)	6600 (2950)
3F520	205 (5200)	96.3 (2450)	65.6 (1665)	6/6	6300 (2800)	6400 (2850)
3F570	224 (5700)	103.7 (2635)	73.1 (1855)	6/6	5300 (2400)	6000 (2700)
3F620	244 (6200)	113.6 (2890)	82.9 (2105)	6/6	3500 (1600)	4000 (1800)
3F670	264 (6700)	123.4 (3135)	92.8 (2355)	6/6	2500 (1150)	3000 (1350)
3V385	152 (3850)	80.1 (2035)	49.4 (1250)	6/6	7000 (3150)	7000 (3150)
3V430	169 (4300)	86.0 (2185)	55.4 (1405)	6/6	6900 (3100)	6900 (3100)
3V470	185 (4700)	91.3 (2320)	60.7 (1540)	6/6	6700 (3000)	6700 (3000)
3V505	199 (5050)	96.3 (2450)	65.6 (1665)	6/6	6500 (2900)	6500 (2900)
3V555	219 (5550)	103.7 (2635)	73.1 (1855)	6/6	6200 (2800)	6300 (2800)
3V600	236 (6000)	113.6 (2890)	82.9 (2105)	6/6	4400 (2000)	5000 (2250)
3V650	256 (6500)	123.4 (3135)	92.8 (2355)	6/6	3200 (1450)	4500 (2050)
3V700	276 (7000)	133.3 (3390)	102.6 (2605)	6/6	3000 (1350)	4000 (1800)

## STANDARD EQUIPMENT

- .3.10** →
- Vehicle Control Module (VCM)
  - Operator security PIN access
  - Interactive LCD meter panel
    - Hour meter, clock, calendar
    - On-board diagnostics
    - Programmable service reminders
    - Warning lights (oil pressure, transmission fluid, low coolant)
    - Speedometer & F/N/R transmission indicator
    - LPM<sub>ax</sub> low fuel warning (LP/Dual Fuel)
    - Fuel gauge
    - Water temperature gauge

- Seat-actuated auto-mast lock system
- High visibility carriage<sup>1</sup>
- Three-spool control valve with pressure relief

1.3.8 →

1.3.12 →

- Adjustable tilt steering wheel with memory lever

- 3.1.** →
- K21 & K25 electronic fuel injected industrial engines **2.5 liter, 69.9 H.P.**
  - Electronic engine control system
  - Three-way catalytic converter
- .3.2** →
- Swing-out LP bracket<sup>1</sup>
  - Maximum travel speed control

1.3.13 →

- Operator Presence System
  - Auto-mast lock
  - Return-to-neutral
  - Parking brake with warning buzzer
- Horn
- Back-up alarm
- Cushioned stability control
- Five-piece overhead guard

- Parking brake with warning buzzer
- Parking brake with transmission interlock

## OPTIONAL EQUIPMENT

- SmoothShift System
  - Starter interlock (low LP)
  - Travel speed control (high/low speed selector)<sup>2</sup>
  - Controlled acceleration (power/economy selector)<sup>2</sup>
  - Radiator screen
  - Open core radiator
  - Air intake pre-cleaner
  - Diffusion exhaust muffler
- 3.2** →
- OptiView three-stage mast
  - Separate lift & tilt control levers (no charge)
  - Electronic fingertip hydraulic controls (seat-mounted)<sup>1</sup>
  - Automatic fork leveling<sup>1</sup>

- Sideshifters (integral or hang-on)
- Tilt cylinder boots & covers
- Bottler's tilt
- Rearview mirrors (glass or impact resistant)

1.3.12 →

1.3.12 →

- Secure rear grip with horn button<sup>1</sup>
- Seatbelt interlocks
- UL safety rating<sup>1</sup>
- Self-adjusting back-up alarm
- Fire extinguisher
- Rotating beacons
- Steering wheel with spinner knob

<sup>1</sup> Available on select models. Contact your UniCarriers dealer for details.

<sup>2</sup> Features can be combined. Available with rocker or key switch. Select 'Economy setting always on' for greatest fuel savings.

The Platinum II Series offers a variety of operator conveniences for greater productivity including standard full suspension seat for enhanced shock absorption. Seat includes lumbar support adjustment, weight-adjustment plus operator restraint armrests. Non-cinching seat belt provides greater range of movement. Adjustable tilt steering column includes memory lever. Operator Presence System has Return-to-Neutral and Auto-Mast Lock (automatically locking mast lift and tilt when the operator leaves the seat). Audible and visual warnings notify operator if seat belt is not engaged while traveling, or if parking brake is not applied before exiting truck. Floating powertrain includes four independent dampers to reduce vibrations that can cause operator fatigue.

Compact front cowl offers generous leg and foot room. Low profile design provides ample head clearance. Optional secure assist grip is mounted to the rear, right pillar, keeping the operator's hand safely inside the compartment during reverse travel. Can be purchased with an optional swivel seat\* that pivots 15° to left and right. [Reduces headroom by 1" (25mm)]. Hydrostatic power steering system reduces operator effort for easier maneuvering and less fatigue. Automotive-style levers simplify repetitive actions for greater operator focus. Exclusive single hydraulic control lever design combines lift and tilt operations into one fluid motion for greater productivity. Separate control levers available at no charge. Optional auto-tilt leveling system assists operator during mast/fork positioning. Optional fingertip control levers with adjustable armrest\* provide enhanced comfort.

Welded metal assist grip combined with replaceable metal traction plate bolted to a wide, low entry step, provide secure footing and grip for this often-repeated task. Small steering wheel delivers control and provides operator with clear view of meter panel with visibility to warnings and indicators.

Control of maximum travel speed is adjustable through the meter panel by a trained service technician. Optional Power/Economy controlled acceleration mode adjusts throttle sensitivity to increase fuel efficiency, extend drivetrain life and reduce excessive tire wear. An optional LP tank holder swings out 90°, then pulls down to a manageable height, requiring less force for simplified change out.

Maintenance-free cushioned stability control with rubber dampers located between rear axle and body enhance lateral stability under normal driving conditions.

\*Available on select models.

Platinum II cushion tire models are powered by GCT K21 (2.1 l) and electronically controlled fuel injected industrial engines which include a bottom-bypass design with thermostat to eliminate hot spots during start up and prolong engine life. Designed and tested specifically for industrial applications, K21 and K25 engines deliver power and torque (in the low rpm range) more efficiently.

System includes three main components [Engine Control Module (ECM), Vehicle Control Module (VCM), and Multi-function LCD]. The ECM analyzes engine performance parameters and optimizes engine operation for enhanced productivity and lower fuel consumption. The ECM responds to sensor input by controlling basic engine-related functions (proper air/fuel ratio, torque and speed) based on application requirements. The VCM monitors sensors for changing conditions, alerting operator through warning indicators located on the meter panel. Communication among these components occurs through a Controller Area Network (CAN) system.

UCA's global commitment to preserving and protecting the environment is evident in our low emission engines. K21/K25 engines include a three-way catalytic muffler and an automotive-type, closed-loop design, providing cleaner exhaust emissions through lower CO (Carbon Monoxide) and combined HC+NOx (Greenhouse Gases) levels. Operators will experience low noise levels during idle and while driving at maximum travel speeds.

No tools are required to remove the one-piece diamond tread floorboard, promoting fast, simple access to hydraulic and other serviceable components. Detachable side panels and a wide-open hood provide a roomy area for service technicians. Unique five-piece overhead guard simplifies replacement of individual components if necessary, saving time and money. An opening in the dash panel allows for fast brake fluid level checks. Multi-function LCD panel with on-board diagnostics reduces service time. Programmable service reminder settings keep periodic/planned maintenance on schedule.

**FORKLIFT**  
UniCarriersAmericas.com

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# **UNICARRIERS®**

## **□ FORKLIFT □**

# Platinum II® Series



### **Engine Powered Forklifts**

Gas, LP, Dual Fuel

3,000 - 7,000 lbs. Capacities | Pneumatic Tire



**S P E C I F I C A T I O N S**

**MAIN TRUCK SPECIFICATIONS**

CHARACTERISTICS	1	Manufacturer's Name		UniCarriers	UniCarriers	UniCarriers		
	2	Model	Model designation	PF30	PF35	PFS40		
	3	Long Model Code		MP1F1A15JV / LV / DV	MP1F1A18JV / LV / DV	MP1F1A20JV / LV / DV		
DIMENSIONS	4	Rated Load Capacity		lb (kg)	3000 (1350)	3500 (1600)	4000 (1800)	
	5	Load Center	Distance	in (mm)	24 (600)	24 (600)	24 (600)	
	6	Power Type			G - LP - G/LP	G - LP - G/LP	G - LP - G/LP	
	7	Operator Orientation			Sit	Sit	Sit	
	8	Tire Type	Front & rear		Pneumatic	Pneumatic	Pneumatic	
	9	Wheels	Number (x=driven) front/rear		2 x / 2	2 x / 2	2 x / 2	
	10	Mast	Maximum fork height	in (mm)	130 (3300)	130 (3300)	130 (3300)	
	11		Standard freelif	in (mm)	6.2 (160)	6.2 (160)	6.2 (160)	
	12	Forks	Thickness & width	in (mm)	1.5 x 4 (40x100)	1.5 x 4 (40x100)	1.5 x 4 (40x100)	
	13		Length	in (mm)	42 (1070)	42 (1070)	42 (1070)	
	14	Tilt Angle	Standard mast - fwd/back	degree	6/12	6/12	6/12	
	15	Overall Dimensions	Length (to face of forks)	in (mm)	89.0 (2260)	90.2 (2290)	91.3 (2320)	
	16		Width (single/dual tires)	in (mm)	41.9 (1065) / 58.3 (1480)	41.9 (1065) / 58.3 (1480)	41.9 (1065) / 58.3 (1480)	
	17		Mast lowered (OHL)	in (mm)	84.4 (2145)	84.4 (2145)	84.4 (2145)	
	18		Mast extended with LBR	in (mm)	179.3 (4555)	179.3 (4555)	179.3 (4555)	
	19		Height - top of OHG	in (mm)	83.3 (2115)	83.3 (2115)	83.3 (2115)	
	20		Height - top of standard LBR	in (mm)	48 (1220)	48 (1220)	48 (1220)	
	21		Width - standard carriage	in (mm)	36.2 (920)	36.2 (920)	36.2 (920)	
	22	Grade Clearance	Ramp breakover angle	tan (%)	49	49	49	
	23		Departure angle	tan (%)	39	37	35	
	24		Approach angle	tan (%)	37	37	37	
	25	Turning Radius	Minimum outside	in (mm)	76.2 (1935)	77.6 (1970)	79.1 (2010)	
	26	Overhang	Front	in (mm)	15.7 (400)	15.7 (400)	15.7 (400)	
	27		Rear	in (mm)	18.1 (460)	19.3 (490)	20.5 (520)	
	28	Min Right Angle Stack	Add load length & clearance	in (mm)	91.9 (2335)	93.3 (2370)	94.9 (2410)	
	PERFORMANCE	29	Speeds Maximum	Travel - forward or reverse	mph (kmh)	11.5 (18.5)	11.5 (18.5)	11.5 (18.5)
		30		Lift - full/empty	fpm (mm/sec)	122/127.9 (620/650)	122/127.9 (620/650)	122/127.9 (620/650)
		31		Lowering - full/empty	fpm (mm/sec)	98.4 (500)	98.4 (500)	98.4 (500)
32		Drawbar Pull Max	Full load	lb (kg)	3705 (1680)	3705 (1680)	3705 (1680)	
33			Empty	lb (kg)	2470 (1120)	2646 (1200)	2932 (1330)	
34		Gradeability Max (1.2 mph)	Full/empty	tan (%)	31 / 28	38 / 24	33 / 21	
WEIGHT	35	Truck Weight	Standard truck - no load	lb (kg)	5810 (2635)	6175 (2800)	6505 (2950)	
	36	Weight Distribution	Front axle - empty	lb (kg)	2540 (1150)	2440 (1105)	2340 (1060)	
	37		Rear axle - empty	lb (kg)	3270 (1485)	3735 (1695)	4165 (1890)	
	38		Front axle - with rated load	lb (kg)	7710 (3620)	8475 (3985)	9235 (4350)	
	39		Rear axle - with rated load	lb (kg)	1100 (515)	1200 (565)	1270 (600)	
CHASSIS & WHEELS	40	Tire Size	Front - single (or dual) tire		6.50-10-10PR	6.50-10-10PR	6.50-10 Solid	
	41		Rear		5.00-8-8-PR	5.00-8-8-PR	5.00-8 Solid	
	42	Wheelbase		in (mm)	55.1 (1400)	55.1 (1400)	55.1 (1400)	
	43	Tread - Center of Tire	Front / rear	in (mm)	35/35.4 (890/900)	35/35.4 (890/900)	35/35.4 (890/900)	
	44		Front dual tires	in (mm)	43.1 (1095)	43.1 (1095)	43.1 (1095)	
	45	Headroom	SIP to bottom of OHG	in (mm)	42.5 (1080)	42.5 (1080)	42.5 (1080)	
	46	Counterweight Height		in (mm)	41.9 (1065)	41.9 (1065)	41.9 (1065)	
	47	Step Height		in (mm)	17.7 (450)	17.7 (450)	17.7 (450)	
	48	Ground Clearance	Under mast	in (mm)	4.5 (115)	4.5 (115)	4.5 (115)	
	49		Under power unit	in (mm)	5.3 (135)	5.3 (135)	5.3 (135)	
	50		Under frame (WB center)	in (mm)	5.9 (150)	5.9 (150)	5.9 (150)	
	51	Service Brake	Type		Drum and Shoe	Drum and Shoe	Drum and Shoe	
	52	Parking Brake	Type		Hand	Hand	Hand	
	53	Steering	Type		Full Hydraulic	Full Hydraulic	Full Hydraulic	
DRIVE LINE	54	Engine	Model		K21	K21	K21	
	55	Rated Output	SAE gross	hp (kW) @ rpm	55 (41) @ 2700	55 (41) @ 2700	55 (41) @ 2700	
	56	Rated Torque	SAE gross	ft-lb (Nm) @ rpm	111.4 (151) @ 2000	111.4 (151) @ 2000	111.4 (151) @ 2000	
	57	Displacement		cu in (cm <sup>3</sup> )	126 (2065)	126 (2065)	126 (2065)	
	58	Transmission	Type		Automatic	Automatic	Automatic	
	59		Number speeds - fwd/rev		1/1	1/1	1/1	

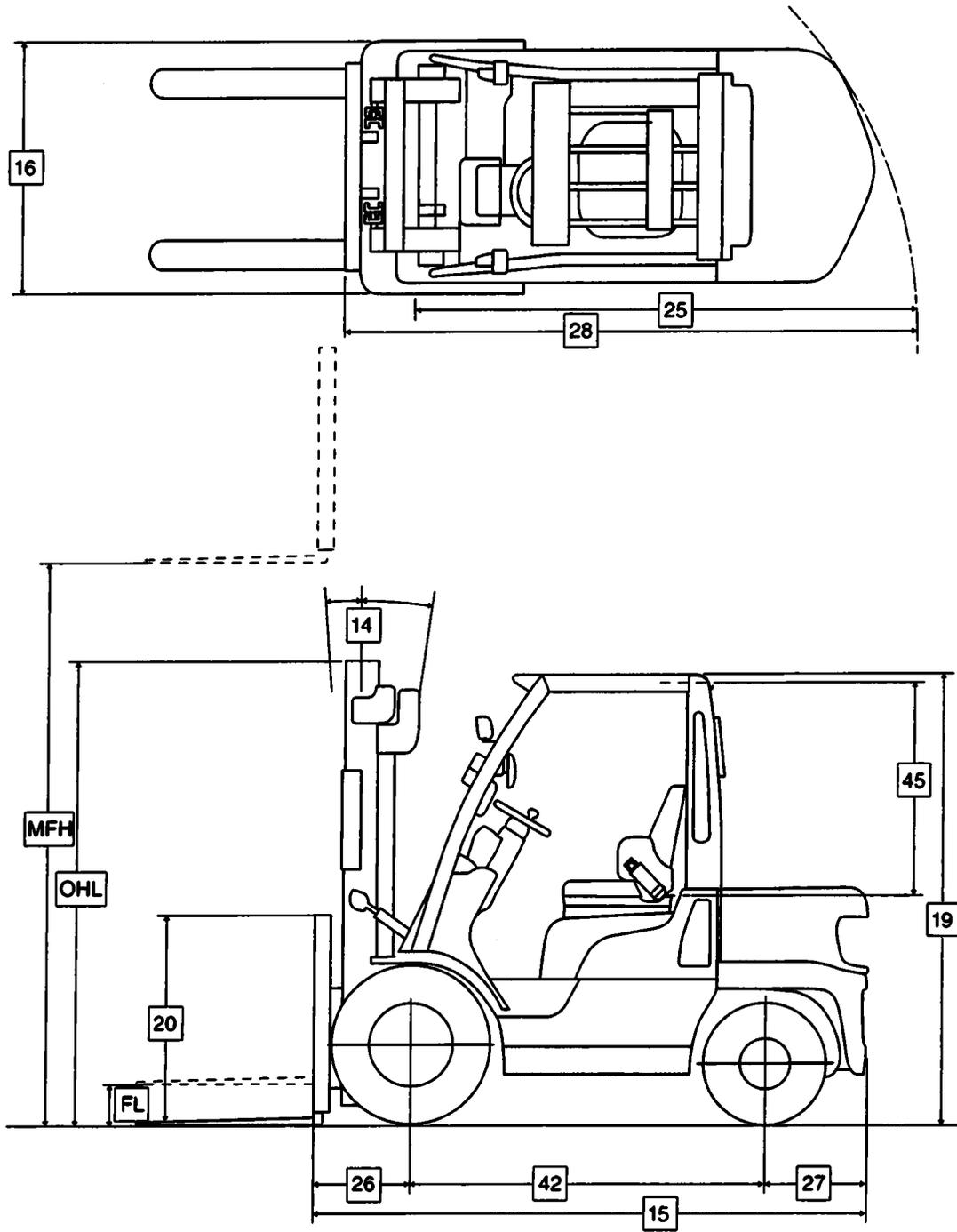
**MAIN TRUCK SPECIFICATIONS**

CHARACTERISTICS	1	Manufacturer's Name		UniCarriers			
	2	Model	Model designation	PF40			
	3	Long Model Code		MP1F2A20JV / LV / DV			
DIMENSIONS	4	Rated Load Capacity		lb (kg)	4000 (1800)	4000 (1800)	
	5	Load Center	Distance	in (mm)	24 (600)	24 (600)	
	6	Power Type			G - LP - G/LP	G - LP - G/LP	
	7	Operator Orientation			Sit	Sit	
	8	Tire Type	Front & rear		Pneumatic	Pneumatic	
	9	Wheels	Number (x=driven) front/rear		2 x / 2	2 x / 2	
	10	Mast	Maximum fork height	in (mm)	130 (3300)	130 (3300)	
	11		Standard freelift	in (mm)	6.1 (155)	6.1 (155)	
	12	Forks	Thickness & width	in (mm)	1.5 x 4 (40x100)	1.5 x 4 (40x100)	
	13		Length	in (mm)	42 (1070)	42 (1070)	
	14	Tilt Angle	Standard mast - fwd/back	degree	6/12	6/12	
	15	Overall Dimensions	Length (to face of forks)	in (mm)	96.9 (2460)	96.9 (2460)	
	16		Width (single/dual tires)	in (mm)	45.3 (1150) / 64.6 (1640)	45.3 (1150) / 64.6 (1640)	
	17		Mast lowered (OHL)	in (mm)	84.4 (2145)	84.4 (2145)	
	18		Mast extended with LBR	in (mm)	179.3 (4555)	179.3 (4555)	
	19		Height - top of OHG	in (mm)	83.5 (2120)	83.5 (2120)	
	20		Height - top of standard LBR	in (mm)	48 (1220)	48 (1220)	
	21		Width - standard carriage	in (mm)	40.2 (1020)	40.2 (1020)	
	22	Grade Clearance	Ramp breakover angle	tan (%)	44	44	
	23		Departure angle	tan (%)	45	45	
	24		Approach angle	tan (%)	32	32	
	25	Turning Radius	Minimum outside	in (mm)	83.5 (2120)	83.5 (2120)	
	26	Overhang	Front	in (mm)	17.5 (445)	17.5 (445)	
	27		Rear	in (mm)	16.3 (415)	16.3 (415)	
	28	Min Right Angle Stack	Add load length & clearance	in (mm)	101 (2565)	101 (2565)	
	PERFORMANCE	29	Speeds Maximum	Travel - forward or reverse	mph (km/h)	11.8 (19)	11.8 (19)
		30		Lift - full/empty	fpm (mm/sec)	118.1/127.9(600/650)	129.9/137.8 (660/700)
		31		Lowering - full/empty	fpm (mm/sec)	98.4 (500)	98.4 (500)
32		Drawbar Pull Max	Full load	lb (kg)	3880 (1760)	4189 (1900)	
33			Empty	lb (kg)	3439 (1560)	3439 (1560)	
34		Gradeability Max (1.2 mph)	Full/empty	tan (%)	31 / 28	39 / 28	
WEIGHT	35	Truck Weight	Standard truck - no load	lb (kg)	7145 (3240)	7145 (3240)	
	36	Weight Distribution	Front axle - empty	lb (kg)	3365 (1525)	3365 (1525)	
	37		Rear axle - empty	lb (kg)	3780 (1715)	3780 (1715)	
	38		Front axle - with rated load	lb (kg)	10015 (4709)	10015 (4709)	
	39		Rear axle - with rated load	lb (kg)	1130 (531)	1130 (531)	
CHASSIS & WHEELS	40	Tire Size	Front - single (or dual) tire		7.00-12-12PR	7.00-12-12PR	
	41		Rear		6.00-9-10PR	6.00-9-10PR	
	42	Wheelbase		in (mm)	63 (1600)	63 (1600)	
	43	Tread - Center of Tire	Front / rear	in (mm)	37.8/38.4 (960/975)	37.8/38.4 (960/975)	
	44		Front dual tires	in (mm)	47.4 (1205)	47.4 (1205)	
	45	Headroom	SIP to bottom of OHG	in (mm)	42.5 (1080)	42.5 (1080)	
	46	Counterweight Height		in (mm)	42.1 (1070)	42.1 (1070)	
	47	Step Height		in (mm)	17.9 (455)	17.9 (455)	
	48	Ground Clearance	Under mast	in (mm)	4.5 (115)	4.5 (115)	
	49		Under power unit	in (mm)	5.3 (135)	5.3 (135)	
	50		Under frame (WB center)	in (mm)	6.1 (155)	6.1 (155)	
	51	Service Brake	Type		Drum and Shoe	Drum and Shoe	
	52	Parking Brake	Type		Hand	Hand	
	53	Steering	Type		Full Hydraulic	Full Hydraulic	
DRIVE LINE	54	Engine	Model		K21	K25	
	55	Rated Output	SAE gross	hp (kW) @ rpm	55 (41) @ 2700	62.9 (46.9) @ 2700	
	56	Rated Torque	SAE gross	ft-lb (Nm) @ rpm	111.4 (151) @ 2000	138.7 (188) @ 1600	
	57	Displacement		cu in (cm <sup>3</sup> )	126 (2065)	151.8 (2488)	
	58	Transmission	Type		Automatic	Automatic	
	59		Number speeds - fwd/rev		1/1	1/1	

**MAIN TRUCK SPECIFICATIONS**

1	UniCarriers	UniCarriers	UniCarriers	UniCarriers	UniCarriers
2	PF50	PFU50	PF55	PF60	PF70
3	MP1F2A25JV / LV / DV	MU1F2A25JV / LV / DV	MUJ1F2A28JV / LV / DV	MUG1F2A30JV / LV / DV	MUG1F2A35JV / LV / DV
4	5000 (2250)	5000 (2250)	5500 (2500)	6000 (2700)	7000 (3150)
5	24 (600)	24 (600)	24 (600)	24 (600)	24 (600)
6	G - LP - G/LP				
7	Sit	Sit	Sit	Sit	Sit
8	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic
9	2 x / 2	2 x / 2	2 x / 2	2 x / 2	2 x / 2
10	130 (3300)	130 (3300)	130 (3300)	130 (3300)	130 (3300)
11	6.1 (155)	6.1 (155)	6.1 (155)	6.5 (165)	6.5 (165)
12	1.5 x 4 (40x100)	1.5 x 4 (40 x 100)	1.5 x 4 (40 x 100)	2 x 5 (50 x 125)	2 x 5 (50 x 125)
13	42 (1070)	42 (1070)	42 (1070)	42 (1070)	42 (1070)
14	6/12	6/12	6/12	6/12	6/12
15	99 (2515)	99 (2515)	102.8 (2610)	105.5 (2680)	108.5 (2755)
16	45.3 (1150) / 64.6 (1640)	45.3 (1150) / 64.6 (1640)	49.2 (1250) / 65.6 (1665)	49.2 (1250) / 65.6 (1665)	50.4 (1280) / 67.7 (1720)
17	84.4 (2145)	84.4 (2145)	85.6 (2175)	85.6 (2175)	91.1 (2315)
18	179.3 (4555)	179.3 (4555)	179.3 (4555)	179.4 (4560)	179.4 (4560)
19	83.5 (2120)	83.5 (2120)	84.6 (2150)	84.6 (2150)	84.8 (2155)
20	48 (1220)	48 (1220)	48 (1220)	48 (1220)	48 (1220)
21	40.2 (1020)	40.2 (1020)	40.2 (1020)	40.2 (1020)	40.2 (1020)
22	44	44	52	49	51
23	37	37	42	43	39
24	32	32	41	41	51
25	85.8 (2180)	85.8 (2180)	88.2 (2240)	90.6 (2300)	94.1 (2390)
26	17.5 (445)	17.5 (445)	18.5 (470)	18.9 (480)	19.3 (490)
27	18.5 (470)	18.5 (470)	20.5 (520)	19.7 (500)	22.2 (565)
28	103.3 (2625)	103.3 (2625)	106.7 (2710)	109.5 (2780)	113.4 (2880)
29	11.8 (19)	11.8 (19)	11.8 (19)	11.8 (19)	11.5 (18.5)
30	118.1/127.9 (600/650)	129.9/137.8 (660/700)	104.3/114.1 (530/580)	104.3/114.1 (530/580)	88.6/92.5 (450/470)
31	98.4 (500)	98.4 (500)	98.4 (500)	98.4 (500)	82.7/70.8 (420/360)
32	3880 (1760)	4189 (1900)	4189 (1900)	4189 (1900)	4034 (1830)
33	3439 (1560)	3439 (1560)	4057 (1840)	4167 (1890)	3968 (1800)
34	27 / 24	33 / 24	30 / 25	28 / 24	23 / 22
35	7925 (3595)	7925 (3595)	8825 (4000)	9265 (4200)	10120 (4590)
36	3200 (1450)	3200 (1450)	3395 (1540)	3825 (1735)	3760 (1705)
37	4725 (2145)	4725 (2145)	5430 (2460)	5440 (2485)	6360 (2885)
38	11515 (5430)	11515 (5430)	12590 (5935)	13700 (6460)	16215 (7240)
39	1410 (665)	1410 (665)	1735 (815)	1565 (740)	1905 (850)
40	7.00-12-12PR	7.00-12-12PR	28 x 9-15-12PR	28 x 9-15-12PR	250-15-16PR
41	6.00-9-10PR	6.00-9-10PR	6.50-10-10PR	6.50-10-10PR	6.50-10-12PR
42	63 (1600)	63 (1600)	63.8 (1620)	66.9 (1700)	66.9 (1700)
43	37.8/38.4 (960/975)	37.8/38.4 (960/975)	40.6/38.6 (1030/980)	40.6/38.6 (1030/980)	41.7/38.6 (1060/980)
44	47.4 (1205)	47.4 (1205)	47.6 (1210)	47.6 (1210)	48.4 (1230)
45	42.5 (1080)	42.5 (1080)	42.5 (1080)	42.5 (1080)	42.5 (1080)
46	42.1 (1070)	42.1 (1070)	43.3 (1100)	43.3 (1100)	43.5 (1105)
47	17.9 (455)	17.9 (455)	19.1 (485)	19.1 (485)	19.3 (490)
48	4.5 (115)	4.5 (115)	5.7 (145)	5.7 (145)	5.9 (150)
49	5.3 (135)	5.3 (135)	6.5 (165)	6.5 (165)	6.7 (170)
50	6.1 (155)	6.1 (155)	7.3 (185)	7.3 (185)	7.5 (190)
51	Drum and Shoe				
52	Hand	Hand	Hand	Hand	Hand
53	Full Hydraulic				
54	K21	K25	K25	K25	K25
55	55 (41) ● 2700	62.9 (46.9) ● 2700	62.9 (46.9) ● 2700	62.9 (46.9) ● 2700	62.9 (46.9) ● 2700
56	111.4 (151) ● 2000	138.7 (188) ● 1600	138.7 (188) ● 1600	138.7 (188) ● 1600	138.7 (188) ● 1600
57	126 (2065)	151.8 (2488)	151.8 (2488)	151.8 (2488)	151.8 (2488)
58	Automatic	Automatic	Automatic	Automatic	Automatic
59	1/1	1/1	1/1	1/1	1/1

DIMENSIONS



**MAST SPECIFICATIONS & RATED CAPACITIES**

Mast Name	Maximum Fork Height in (mm)	Overall Height Lowered in (mm)	Free Lift* in (mm)	Tilt Angle Forward/Backward degrees	Rated Capacity 24 in (600 mm) Load Center							
					PF30		PF35		PFS40			
					Single Drive	Dual Drive	Single Drive	Dual Drive	Single Drive	Dual Drive		
TWO STAGE (Wide view 2W)	2W270	106 (2700)	72.6 (1845)	6.2 (155)	6/12	3000 (1350)	3000 (1350)	3500 (1600)	3500 (1600)	4000 (1800)	4000 (1800)	
	2W300	118 (3000)	78.5 (1995)	6.2 (155)	6/12	3000 (1350)	3000 (1350)	3500 (1600)	3500 (1600)	4000 (1800)	4000 (1800)	
	2W330	130 (3300)	84.4 (2145)	6.2 (155)	6/12	3000 (1350)	3000 (1350)	3500 (1600)	3500 (1600)	4000 (1800)	4000 (1800)	
	2W350	138 (3500)	89.8 (2285)	6.2 (155)	6/12	3000 (1350)	3000 (1350)	3500 (1600)	3500 (1600)	4000 (1800)	4000 (1800)	
	2W370	146 (3700)	94.7 (2405)	6.2 (155)	6/12	3000 (1350)	3000 (1350)	3500 (1600)	3500 (1600)	4000 (1800)	4000 (1800)	
	2W400	157 (4000)	102.2 (2600)	6.2 (155)	6/6	3000 (1350)	3000 (1350)	3500 (1600)	3500 (1600)	3850 (1750)	3850 (1750)	
	2W450	177 (4500)	112.0 (2845)	6.2 (155)	6/6	2900 (1300)	2900 (1300)	3200 (1450)	3200 (1450)	3450 (1550)	3750 (1700)	
TWO STAGE (Full free 2F)	2F300	118 (3000)	78.5 (1995)	53.6 (1360)	6/12	3000 (1350)	3000 (1350)	3500 (1600)	3500 (1600)	4000 (1800)	4000 (1800)	
	2F330	130 (3300)	84.4 (2145)	59.5 (1510)	6/12	3000 (1350)	3000 (1350)	3500 (1600)	3500 (1600)	4000 (1800)	4000 (1800)	
	2F350	138 (3500)	89.8 (2285)	64.8 (1645)	6/12	3000 (1350)	3000 (1350)	3500 (1600)	3500 (1600)	4000 (1800)	4000 (1800)	
	2F370	146 (3700)	94.7 (2405)	69.8 (1770)	6/12	3000 (1350)	3000 (1350)	3400 (1550)	3450 (1550)	3900 (1750)	3950 (1800)	
	2F400	157 (4000)	102.2 (2600)	77.2 (1960)	6/6	2900 (1300)	2900 (1300)	3300 (1500)	3350 (1500)	3800 (1700)	3850 (1750)	
	THREE STAGE (Full free 3F)	3F385	152 (3850)	72.6 (1845)	47.0 (1190)	6/6	2900 (1300)	2950 (1350)	3300 (1500)	3350 (1500)	3850 (1750)	3850 (1750)
		3F430	169 (4300)	78.5 (1995)	52.9 (1340)	6/6	2800 (1250)	2850 (1300)	3200 (1450)	3250 (1450)	3550 (1600)	3750 (1700)
3F475		187 (4750)	84.4 (2145)	58.8 (1490)	6/6	2700 (1200)	2750 (1250)	3100 (1400)	3150 (1450)	3450 (1550)	3450 (1550)	
3F515		203 (5150)	89.8 (2285)	64.1 (1625)	6/6	2600 (1200)	2650 (1200)	2800 (1250)	2950 (1350)	3150 (1450)	3150 (1450)	
3F550		217 (5500)	94.7 (2405)	69.0 (1750)	6/6	2350 (1050)	2550 (1150)	2600 (1200)	2800 (1250)	2700 (1200)	2700 (1200)	
3F600		236 (6000)	102.2 (2600)	76.5 (1940)	6/6	1300 (600)	2150 (950)	1500 (700)	2300 (1050)	1800 (800)	2400 (1100)	
3F650		256 (6500)	112.0 (2845)	86.3 (2190)	6/6	1200 (550)	1500 (700)	1400 (650)	1500 (700)	1700 (750)	1750 (800)	
THREE STAGE OPTVIEW® (3V)	3V360	142 (3600)	72.6 (1845)	48.4 (1225)	6/6	2900 (1300)	2900 (1300)	3300 (1500)	3350 (1500)	3700 (1700)	3700 (1700)	
	3V405	159 (4050)	78.5 (1995)	54.3 (1375)	6/6	2800 (1250)	2800 (1250)	3200 (1450)	3250 (1450)	3550 (1600)	3550 (1600)	
	3V450	177 (4500)	84.4 (2145)	60.2 (1525)	6/6	2700 (1200)	2700 (1200)	3100 (1400)	3150 (1450)	3450 (1550)	3450 (1550)	
	3V490	193 (4900)	89.8 (2285)	65.5 (1660)	6/6	2600 (1200)	2600 (1200)	2800 (1250)	2900 (1300)	3150 (1450)	3150 (1450)	
	3V525	207 (5250)	94.7 (2405)	70.4 (1785)	6/6	2350 (1050)	2500 (1150)	2600 (1200)	2700 (1200)	2700 (1200)	2700 (1200)	
	3V575	226 (5750)	102.2 (2600)	77.9 (1975)	6/6	1300 (600)	2100 (950)	1500 (700)	1700 (750)	1800 (800)	2000 (900)	
	3V633	249 (6330)	112.0 (2845)	87.8 (2230)	6/6	1200 (550)	1300 (600)	1400 (650)	1500 (700)	1700 (750)	1750 (800)	

\*Without LBR

Mast Name	Maximum Fork Height in (mm)	Overall Height Lowered in (mm)	Free Lift* in (mm)	Tilt Angle Forward/Backward degrees	Rated Capacity 24 in (600 mm) Load Center			
					PF40/PFU40			
					Single Drive	Dual Drive		
TWO STAGE (Wide view 2W)	2W270	106 (2700)	72.6 (1845)	6.1 (150)	6/12	4000 (1800)	4000 (1800)	
	2W300	118 (3000)	78.5 (1995)	6.1 (150)	6/12	4000 (1800)	4000 (1800)	
	2W330	130 (3300)	84.4 (2145)	6.1 (150)	6/12	4000 (1800)	4000 (1800)	
	2W350	138 (3500)	89.8 (2285)	6.1 (150)	6/12	4000 (1800)	4000 (1800)	
	2W370	146 (3700)	94.7 (2405)	6.1 (150)	6/12	4000 (1800)	4000 (1800)	
	2W400	157 (4000)	102.2 (2600)	6.1 (150)	6/6	4000 (1800)	4000 (1800)	
	2W450	177 (4500)	112.0 (2845)	6.1 (150)	6/6	3850 (1750)	3850 (1750)	
TWO STAGE (Full free 2F)	2F300	118 (3000)	78.5 (1995)	53.5 (1355)	6/12	4000 (1800)	4000 (1800)	
	2F330	130 (3300)	84.4 (2145)	59.4 (1505)	6/12	4000 (1800)	4000 (1800)	
	2F350	138 (3500)	89.8 (2285)	64.7 (1640)	6/12	4000 (1800)	4000 (1800)	
	2F370	146 (3700)	94.7 (2405)	69.6 (1765)	6/12	4000 (1800)	4000 (1800)	
	2F400	157 (4000)	102.2 (2600)	77.1 (1955)	6/6	3950 (1800)	4000 (1800)	
	THREE STAGE (Full free 3F)	3F385	152 (3850)	72.6 (1845)	47.2 (1195)	6/6	4000 (1800)	4000 (1800)
		3F430	169 (4300)	78.5 (1995)	53.1 (1345)	6/6	3850 (1750)	3900 (1750)
3F475		187 (4750)	84.4 (2145)	59.0 (1495)	6/6	3700 (1700)	3750 (1700)	
3F515		203 (5150)	89.8 (2285)	64.3 (1630)	6/6	3300 (1500)	3650 (1650)	
3F550		217 (5500)	94.7 (2405)	69.2 (1755)	6/6	2950 (1350)	3550 (1600)	
3F600		236 (6000)	102.2 (2600)	76.7 (1945)	6/6	1900 (850)	3400 (1550)	
3F650		256 (6500)	112.0 (2845)	86.5 (2195)	6/6	1800 (800)	3250 (1450)	
THREE STAGE OPTVIEW® (3V)	3V360	142 (3600)	72.8 (1850)	47.2 (1195)	6/6	3900 (1750)	3900 (1750)	
	3V405	159 (4050)	78.7 (2000)	53.1 (1345)	6/6	3700 (1700)	3750 (1700)	
	3V450	177 (4500)	84.6 (2150)	59.0 (1495)	6/6	3600 (1650)	3650 (1650)	
	3V490	193 (4900)	90.0 (2290)	64.3 (1630)	6/6	3300 (1500)	3400 (1550)	
	3V525	207 (5250)	94.9 (2415)	69.2 (1755)	6/6	3000 (1350)	3200 (1450)	
	3V575	226 (5750)	102.4 (2605)	76.7 (1945)	6/6	2500 (1150)	2900 (1300)	
	3V633	249 (6330)	112.2 (2850)	86.5 (2195)	6/6	2300 (1050)	2500 (1150)	
3V688	271 (6880)	122.0 (3100)	96.4 (2445)	6/6	1900 (850)	2200 (1000)		

**MAST SPECIFICATIONS & RATED CAPACITIES**

Mast Name	Maximum Fork Height in (mm)	Overall Height Lowered in (mm)	Free Lift* in (mm)	Tilt Angle Forward/Backward degrees	Rated Capacity 24 in (600 mm) Load Center PF50/PFU50		
					Single Drive lb (kg)	Dual Drive lb (kg)	
TWO STAGE (Wide view 2W)	2W270	106 (2700)	72.6 (1845)	6.1 (150)	6/12	5000 (2250)	5000 (2250)
	2W300	118 (3000)	78.5 (1995)	6.1 (150)	6/12	5000 (2250)	5000 (2250)
	2W330	130 (3300)	84.4 (2145)	6.1 (150)	6/12	5000 (2250)	5000 (2250)
	2W350	138 (3500)	89.8 (2285)	6.1 (150)	6/12	5000 (2250)	5000 (2250)
	2W370	146 (3700)	94.7 (2405)	6.1 (150)	6/12	5000 (2250)	5000 (2250)
	2W400	157 (4000)	102.2 (2600)	6.1 (150)	6/6	5000 (2250)	5000 (2250)
	2W450	177 (4500)	112.0 (2845)	6.1 (150)	6/6	4400 (2000)	4850 (2200)
TWO STAGE (Full free 2F)	2W500	197 (5000)	121.9 (3100)	6.1 (150)	6/6	3700 (1700)	4650 (2100)
	2F300	118 (3000)	78.5 (1995)	53.5 (1355)	6/12	5000 (2250)	5000 (2250)
	2F330	130 (3300)	84.4 (2145)	59.4 (1505)	6/12	5000 (2250)	5000 (2250)
	2F350	138 (3500)	89.8 (2285)	64.7 (1640)	6/12	5000 (2250)	5000 (2250)
	2F370	146 (3700)	94.7 (2405)	69.6 (1765)	6/12	5000 (2250)	5000 (2250)
	2F400	157 (4000)	102.2 (2600)	77.1 (1955)	6/6	4950 (2250)	5000 (2250)
	THREE STAGE (Full free 3F)	3F385	152 (3850)	72.6 (1845)	47.2 (1195)	6/6	5000 (2250)
3F430		169 (4300)	78.5 (1995)	53.1 (1345)	6/6	4700 (2150)	4900 (2200)
3F475		187 (4750)	84.4 (2145)	59.0 (1495)	6/6	4300 (1950)	4750 (2150)
3F515		203 (5150)	89.8 (2285)	64.3 (1630)	6/6	3650 (1650)	4800 (2100)
3F550		217 (5500)	94.7 (2405)	69.2 (1755)	6/6	3350 (1500)	4450 (2000)
3F600		236 (6000)	102.2 (2600)	76.7 (1945)	6/6	2100 (950)	4300 (1950)
3F650		256 (6500)	112.0 (2845)	86.5 (2195)	6/6	2000 (900)	3850 (1750)
THREE STAGE OPTIMVIEW™ (3V)	3F700	276 (7000)	121.9 (3100)	96.4 (2445)	6/6	700 (300)	2600 (1200)
	3V360	142 (3600)	72.8 (1850)	47.2 (1195)	6/6	4900 (2200)	4900 (2200)
	3V405	159 (4050)	78.7 (2000)	53.1 (1345)	6/6	4700 (2150)	4750 (2150)
	3V450	177 (4500)	84.6 (2145)	59.0 (1495)	6/6	4300 (1950)	4500 (2050)
	3V490	193 (4900)	90.0 (2290)	64.3 (1630)	6/6	3900 (1750)	4300 (1950)
	3V525	207 (5250)	94.9 (2415)	69.2 (1755)	6/6	3500 (1600)	4000 (1800)
	3V575	226 (5750)	102.4 (2605)	76.7 (1945)	6/6	3000 (1350)	3900 (1750)
3V633	249 (6330)	112.2 (2850)	86.5 (2195)	6/6	2600 (1200)	3500 (1600)	
3V688	271 (6880)	122.0 (3100)	96.4 (2445)	6/6	2300 (1050)	2500 (1150)	

\*Without LBR

Mast Name	Maximum Fork Height in (mm)	Overall Height Lowered in (mm)	Free Lift* in (mm)	Tilt Angle Forward/Backward degrees	Rated Capacity 24 in (600 mm) Load Center PF55		
					Single Drive lb (kg)	Dual Drive lb (kg)	
TWO STAGE (Wide view 2W)	2W270	106 (2700)	73.8 (1875)	6.1 (150)	6/12	5500 (2500)	5500 (2500)
	2W300	118 (3000)	79.7 (2025)	6.1 (150)	6/12	5500 (2500)	5500 (2500)
	2W330	130 (3300)	85.6 (2175)	6.1 (150)	6/12	5500 (2500)	5500 (2500)
	2W350	138 (3500)	90.9 (2310)	6.1 (150)	6/12	5500 (2500)	5500 (2500)
	2W370	146 (3700)	95.9 (2440)	6.1 (150)	6/12	5500 (2500)	5500 (2500)
	2W400	157 (4000)	103.3 (2625)	6.1 (150)	6/6	5500 (2500)	5500 (2500)
	2W450	177 (4500)	113.2 (2880)	6.1 (150)	6/6	5300 (2400)	5300 (2400)
TWO STAGE (Full free 2F)	2W500	197 (5000)	123.0 (3125)	6.1 (150)	6/6	4300 (1950)	5200 (2350)
	2F300	118 (3000)	79.7 (2025)	53.8 (1365)	6/12	5500 (2500)	5500 (2500)
	2F330	130 (3300)	85.6 (2175)	59.7 (1515)	6/12	5500 (2500)	5500 (2500)
	2F350	138 (3500)	90.9 (2310)	65.1 (1650)	6/12	5500 (2500)	5500 (2500)
	2F370	146 (3700)	95.9 (2440)	70.0 (1775)	6/12	5500 (2500)	5500 (2500)
	2F400	157 (4000)	103.3 (2625)	77.5 (1965)	6/6	5500 (2500)	5500 (2500)
	THREE STAGE (Full free 3F)	3F385	152 (3850)	79.7 (2025)	55.7 (1410)	6/6	5500 (2500)
3F430		169 (4300)	85.6 (2175)	61.6 (1560)	6/6	5300 (2400)	5300 (2400)
3F475		187 (4750)	90.9 (2310)	66.9 (1695)	6/6	5100 (2300)	5100 (2300)
3F515		203 (5150)	95.9 (2440)	71.8 (1820)	6/6	4000 (1800)	4900 (2200)
3F550		217 (5500)	103.3 (2625)	79.3 (2010)	6/6	3200 (1450)	4800 (2200)
3F600		236 (6000)	113.2 (2880)	89.1 (2260)	6/6	2300 (1050)	4600 (2100)
3F650		256 (6500)	123.0 (3125)	99.0 (2510)	6/6	1100 (500)	4100 (1850)
THREE STAGE OPTIMVIEW™ (3V)	3F700	276 (7000)	132.9 (3380)	108.8 (2760)	6/6	550 (250)	3000 (1350)
	3V385	152 (3850)	79.7 (2025)	55.7 (1410)	6/6	5450 (2450)	5450 (2450)
	3V430	169 (4300)	85.6 (2175)	61.6 (1560)	6/6	5300 (2400)	5300 (2400)
	3V470	185 (4700)	90.9 (2310)	66.9 (1695)	6/6	5000 (2250)	5000 (2250)
	3V505	199 (5050)	95.9 (2440)	71.8 (1820)	6/6	3750 (1700)	4900 (2200)
	3V555	219 (5550)	103.3 (2625)	79.3 (2010)	6/6	2800 (1250)	4700 (2150)
	3V600	236 (6000)	113.2 (2880)	89.1 (2260)	6/6	1850 (850)	4500 (2050)
3V650	256 (6500)	123.0 (3125)	99.0 (2510)	6/6	1200 (550)	4000 (1800)	
3V700	276 (7000)	132.9 (3380)	108.8 (2760)	6/6	650 (300)	3400 (1550)	

\*Without LBR

## MAST SPECIFICATIONS & RATED CAPACITIES

Mast Name	Maximum Fork Height in (mm)	Overall Height Lowered in (mm)	Free Lift* in (mm)	Tilt Angle Forward/Backward degrees	Rated Capacity 24 in (600 mm) Load Center		
					Single Drive	Dual Drive	
TWO STAGE (Wide view 2W)	2W270	106 (2700)	73.8 (1875)	6.5 (165)	6/12	6000 (2700)	6000 (2700)
	2W300	118 (3000)	79.7 (2028)	6.5 (165)	6/12	6000 (2700)	6000 (2700)
	2W330	130 (3300)	85.6 (2175)	6.5 (165)	6/12	6000 (2700)	6000 (2700)
	2W350	138 (3500)	90.9 (2310)	6.5 (165)	6/12	6000 (2700)	6000 (2700)
	2W370	146 (3700)	95.9 (2440)	6.5 (165)	6/12	6000 (2700)	6000 (2700)
	2W400	157 (4000)	103.3 (2625)	6.5 (165)	6/6	6000 (2700)	6000 (2700)
	2W450	177 (4500)	113.2 (2880)	6.5 (165)	6/6	5600 (2550)	5900 (2700)
	2W500	197 (5000)	123.0 (3125)	6.5 (165)	6/6	5150 (2300)	5700 (2600)
TWO STAGE (Full free 2F)	2F300	118 (3000)	79.7 (2025)	53.4 (1355)	6/12	6000 (2700)	6000 (2700)
	2F330	130 (3300)	85.6 (2175)	59.3 (1505)	6/12	6000 (2700)	6000 (2700)
	2F350	138 (3500)	90.9 (2310)	64.6 (1635)	6/12	6000 (2700)	6000 (2700)
	2F370	146 (3700)	95.9 (2440)	70.0 (1775)	6/12	6000 (2700)	6000 (2700)
	2F400	157 (4000)	103.3 (2625)	77.0 (1955)	6/6	5950 (2700)	6000 (2700)
	THREE STAGE (Full free 3F)	3F385	152 (3850)	79.7 (2028)	54.8 (1390)	6/6	6000 (2700)
3F430		169 (4300)	85.6 (2175)	60.7 (1540)	6/6	5800 (2650)	5800 (2650)
3F475		187 (4750)	90.9 (2310)	66.0 (1675)	6/6	5600 (2550)	5650 (2550)
3F515		203 (5150)	95.9 (2440)	70.9 (1800)	6/6	4700 (2150)	5450 (2450)
3F550		217 (5500)	103.3 (2625)	78.4 (1990)	6/6	3700 (1700)	5300 (2400)
3F600		236 (6000)	113.2 (2880)	88.2 (2240)	6/6	2650 (1200)	5100 (2300)
3F650		256 (6500)	123.0 (3125)	98.1 (2490)	6/6	1500 (700)	4550 (2050)
3F700		276 (7000)	132.9 (3380)	107.9 (2740)	6/6	1000 (450)	3000 (1350)
THREE STAGE OPTVIEW (3V)		3V385	152 (3850)	79.7 (2028)	54.8 (1390)	6/6	5950 (2700)
	3V430	169 (4300)	85.6 (2175)	60.7 (1540)	6/6	5750 (2650)	5750 (2600)
	3V470	185 (4700)	90.9 (2310)	66.0 (1675)	6/6	5500 (2500)	5550 (2500)
	3V505	199 (5050)	95.9 (2440)	70.9 (1800)	6/6	4700 (2150)	5450 (2450)
	3V555	219 (5550)	103.3 (2625)	78.4 (1990)	6/6	3700 (1700)	5300 (2400)
	3V600	236 (6000)	113.2 (2880)	88.2 (2240)	6/6	2600 (1200)	5000 (2250)
	3V650	256 (6500)	123.0 (3125)	98.1 (2490)	6/6	1400 (650)	4500 (2050)
	3V700	276 (7000)	132.9 (3380)	107.9 (2740)	6/6	1000 (450)	3000 (1350)

\*Without LBR

Mast Name	Maximum Fork Height in (mm)	Overall Height Lowered in (mm)	Free Lift* in (mm)	Tilt Angle Forward/Backward degrees	Rated Capacity 24 in (600 mm) Load Center		
					Single Drive	Dual Drive	
TWO STAGE (Wide view 2W)	2W300	118 (3000)	85.8 (2180)	6.5 (165)	6/12	7000 (3150)	7000 (3150)
	2W330	130 (3300)	91.1 (2315)	6.5 (165)	6/12	7000 (3150)	7000 (3150)
	2W350	138 (3500)	96.1 (2445)	6.5 (165)	6/12	7000 (3150)	7000 (3150)
	2W370	146 (3700)	103.5 (2630)	6.5 (165)	6/12	7000 (3150)	7000 (3150)
	2W400	157 (4000)	113.4 (2885)	6.5 (165)	6/6	6900 (3100)	7000 (3150)
	2W450	177 (4500)	123.2 (3130)	6.5 (165)	6/6	6800 (3050)	6900 (3100)
	2W500	197 (5000)	133.1 (3385)	6.5 (165)	6/6	6600 (2950)	6700 (3000)
TWO STAGE (Full free 2F)	2F300	118 (3000)	85.8 (2180)	57 (1445)	6/12	7000 (3150)	7000 (3150)
	2F330	130 (3300)	91.1 (2315)	62 (1570)	6/12	7000 (3150)	7000 (3150)
	2F350	138 (3500)	96.1 (2445)	67 (1700)	6/12	7000 (3150)	7000 (3150)
	2F370	146 (3700)	103.5 (2630)	74 (1875)	6/12	7000 (3150)	7000 (3150)
	2F400	157 (4000)	113.4 (2885)	84 (2130)	6/6	6900 (3100)	7000 (3150)
	THREE STAGE (Full free 3F)	3F355	140 (3550)	74.2 (1885)	43.5 (1100)	6/6	7000 (3150)
3F400		157 (4000)	80.1 (2035)	49.4 (1250)	6/6	7000 (3150)	7000 (3150)
3F445		175 (4450)	86.0 (2185)	55.4 (1405)	6/6	6800 (3050)	6800 (3050)
3F485		191 (4850)	91.3 (2320)	60.7 (1540)	6/6	6600 (2950)	6600 (2950)
3F520		205 (5200)	96.3 (2450)	65.6 (1665)	6/6	6300 (2800)	6400 (2850)
3F570		224 (5700)	103.7 (2635)	73.1 (1855)	6/6	5300 (2400)	6000 (2700)
3F620		244 (6200)	113.6 (2890)	82.9 (2105)	6/6	3500 (1600)	4000 (1800)
3F670		264 (6700)	123.4 (3135)	92.8 (2355)	6/6	2500 (1150)	3000 (1350)
THREE STAGE OPTVIEW (3V)	3V385	152 (3850)	80.1 (2035)	49.4 (1250)	6/6	7000 (3150)	7000 (3150)
	3V430	169 (4300)	86.0 (2185)	55.4 (1405)	6/6	6900 (3100)	6900 (3100)
	3V470	185 (4700)	91.3 (2320)	60.7 (1540)	6/6	6700 (3000)	6700 (3000)
	3V505	199 (5050)	96.3 (2450)	65.6 (1665)	6/6	6500 (2900)	6500 (2900)
	3V555	219 (5550)	103.7 (2635)	73.1 (1855)	6/6	6200 (2800)	6300 (2800)
	3V600	236 (6000)	113.6 (2890)	82.9 (2105)	6/6	4400 (2000)	5000 (2250)
	3V650	256 (6500)	123.4 (3135)	92.8 (2355)	6/6	3200 (1450)	4500 (2050)
	3V700	276 (7000)	133.3 (3390)	102.6 (2605)	6/6	3000 (1350)	4000 (1800)

\*Without LBR

## STANDARD EQUIPMENT

### VEHICLE MANAGEMENT

- Vehicle Control Module (VCM)
- Operator security PIN access
- Interactive LCD meter panel
  - Hour meter, clock, calendar
  - On-board diagnostics
  - Programmable service reminders
  - Warning lights (oil pressure, transmission fluid, low coolant)
  - Speedometer & F/N/R transmission indicator
  - *LPMax* low fuel warning (LP/Dual Fuel)
  - Fuel gauge
  - Water temperature gauge

### POWERTRAIN / FUEL SYSTEM

- K21 & K25 electronic fuel injected industrial engines
- Electronic engine control system
- Three-way catalytic converter
- Swing-out LP bracket<sup>1</sup>
- Maximum travel speed control

### BRAKE

- Parking brake with warning buzzer
- Parking brake with transmission interlock

### MAST / HYDRAULIC SYSTEM

- Seat-actuated auto-mast lock system
- High visibility carriage<sup>1</sup>
- Three-spool control valve with pressure relief

### OPERATOR CONVENIENCES

- Full suspension seat with weight & lumbar adjustment
- Overhead guard-mounted LED headlights
- Adjustable tilt steering wheel with memory lever

### PROTECTION / SECURITY

- Operator Presence System
  - Auto-mast lock
  - Return-to-neutral
  - Parking brake with warning buzzer
- Horn
- Back-up alarm
- Cushioned stability control
- Five-piece overhead guard

## OPTIONAL EQUIPMENT

- *SmoothShift* System
- Starter interlock (low LP)
- Travel speed control (high/low speed selector)<sup>2</sup>
- Controlled acceleration (power/economy selector)<sup>2</sup>
- Radiator screen
- Open core radiator
- Air intake pre-cleaner
- Diffusion exhaust muffler
- Swing-down LP bracket<sup>1</sup>
- OptiView three-stage mast
- Separate lift & tilt control levers (no charge)
- Electronic fingertip hydraulic controls (seat-mounted)<sup>1</sup>
- Automatic fork leveling<sup>1</sup>
- Sideshifters (integral or hang-on)
- Tilt cylinder boots & covers
- Bottler's tilt
- Rearview mirrors (glass or impact resistant)
- Rear LED combination light package (turn, stop, back-up)
- Reverse-activated rear LED drive light
- Secure rear grip with horn button<sup>1</sup>
- Seatbelt interlocks
- UL safety rating<sup>1</sup>
- Self-adjusting back-up alarm
- Fire extinguisher
- Strobe lights
- Rotating beacons
- Steering wheel with spinner knob

<sup>1</sup> Available on select models. Contact your UniCarriers dealer for details.

<sup>2</sup> Features can be combined. Available with rocker or key switch. Select 'Economy setting always on' for greatest fuel savings.

## ERGONOMICS & COMFORT

The Platinum II Series offers a variety of operator conveniences for greater productivity including standard full suspension seat for enhanced shock absorption. Seat includes lumbar support adjustment, weight-adjustment plus operator restraint armrests. Non-cinching seat belt provides greater range of movement. Adjustable tilt steering column includes memory lever. Operator Presence System has Return-to-Neutral and Auto-Mast Lock (automatically locking mast lift and tilt when the operator leaves the seat). Audible and visual warnings notify operator if seat belt is not engaged while traveling, or if parking brake is not applied before exiting truck. Floating powertrain includes four independent dampers to reduce vibrations that can cause operator fatigue.

Compact front cowl offers generous leg and foot room. Low profile design provides ample head clearance. Optional secure assist grip is mounted to the rear, right pillar, keeping the operator's hand safely inside the compartment during reverse travel. Can be purchased with an optional swivel seat\* that pivots 15° to left and right. [Reduces headroom by 1" (25mm)]. Hydrostatic power steering system reduces operator effort for easier maneuvering and less fatigue. Automotive-style levers simplify repetitive actions for greater operator focus. Exclusive single hydraulic control lever design combines lift and tilt operations into one fluid motion for greater productivity. Separate control levers available at no charge. Optional auto-tilt leveling system assists operator during mast/fork positioning. Optional fingertip control levers with adjustable armrest\* provide enhanced comfort.

## EFFICIENCY & CONTROL

Welded metal assist grip combined with replaceable metal traction plate bolted to a wide, low entry step, provide secure footing and grip for this often-repeated task. Small steering wheel delivers control and provides operator with clear view of meter panel with visibility to warnings and indicators.

Control of maximum travel speed is adjustable through the meter panel by a trained service technician. Optional Power/Economy controlled acceleration mode adjusts throttle sensitivity to increase fuel efficiency, extend drivetrain life and reduce excessive tire wear. An optional LP tank holder swings out 90°, then pulls down to a manageable height, requiring less force for simplified change out.

Maintenance-free cushioned stability control with rubber dampers located between rear axle and body enhance lateral stability under normal driving conditions.

\*Available on select models.

## LEGENDARY K-SERIES INDUSTRIAL ENGINES

Platinum II cushion tire models are powered by GCT K21 (2.1 l) and K25 (2.5 l) electronically controlled fuel injected industrial engines which include a bottom-bypass design with thermostat to eliminate hot spots during start up and prolong engine life. Designed and tested specifically for industrial applications, K21 and K25 engines deliver power and torque (in the low rpm range) more efficiently. An engine protection and warning system is standard, reducing speed in case of excessive heat generation or oil pressure loss. System includes three main components [Engine Control Module (ECM), Vehicle Control Module (VCM), and Multi-function LCD]. The ECM analyzes engine performance parameters and optimizes engine operation for enhanced productivity and lower fuel consumption. The ECM responds to sensor input by controlling basic engine-related functions (proper air/fuel ratio, torque and speed) based on application requirements. The VCM monitors sensors for changing conditions, alerting operator through warning indicators located on the meter panel. Communication among these components occurs through a Controller Area Network (CAN) system.

## LOW EMISSIONS

UCA's global commitment to preserving and protecting the environment is evident in our low emission engines. K21/K25 engines include a three-way catalytic muffler and an automotive-type, closed-loop design, providing cleaner exhaust emissions through lower CO (Carbon Monoxide) and combined HC+NOx (Greenhouse Gases) levels. Operators will experience low noise levels during idle and while driving at maximum travel speeds.

## LOWER OPERATING COSTS

No tools are required to remove the one-piece diamond tread floorboard, promoting fast, simple access to hydraulic and other serviceable components. Detachable side panels and a wide-open hood provide a roomy area for service technicians. Unique five-piece overhead guard simplifies replacement of individual components if necessary, saving time and money. An opening in the dash panel allows for fast brake fluid level checks. Multi-function LCD panel with on-board diagnostics reduces service time. Programmable service reminder settings keep periodic/planned maintenance on schedule.

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# Free Extended Warranty Sales Promotion

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Purchase, or lease, any new UniCarriers forklift and receive a 48-month, 8,000 hour \* Extended Powertrain Warranty FREE!

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