



**Purchasing Department
73 Harlow Street
Bangor, Maine 04401
Tel. 207-992-4282**

**Request for Bids
Portable Four Column Truck Lift
Issue Date: September 30, 2016**

I. Introduction

The City of Bangor requests bids to furnish and deliver one set of four (4) column truck lifts to the City of Bangor Fleet Maintenance Division, 481 Maine Avenue.

The lifting system shall consist of four electric/hydraulic mobile columns sustaining 74,000 lb. (33,566kgs) capacity or 18,500 lbs. (8392kgs) per mobile column. All mobile columns shall operate synchronously from any one of the lifting units by means of a control interface. The control system shall have replaceable printed circuit boards equipped with quick connect electrical couplers. The mobile columns shall be battery operated with a DC charging system built into each column for easy recharge and wireless communication between columns.

II. General Information

General information is available on the City's website at the following web address: www.bangormaine.gov/proposals. By submitting a response to this solicitation, the bidder accepts the responsibility for downloading, reading and bidding by the terms and conditions set forth in the City's "General Information for Vendors".

III. Submission

To be considered, return pages of this Request for Bids in an envelope clearly marked "**Bid: Portable Truck Lift**" by **2:00 PM, Wednesday, October 19, 2016** to the Purchasing department, City Hall, 73 Harlow Street, Bangor, Maine 04401.

Bids may also be submitted via email by using the link at the top of this page or by sending to: bids@bangormaine.gov. If emailing bid, please reference "**Bid: Portable Truck Lift**" in the subject line. Bids will be publicly opened at the time stated above.

A tabulation of all bids received will be available within 24 hours of the opening. Bid results may be viewed by visiting the City's website at www.bangormaine.gov/bidtabs.

IV. Questions

Any questions must be directed in writing to bids@bangormaine.gov no later than **4:30 PM on Friday, October 7, 2016**.

The City will issue a response to any questions or inquiries submitted in writing by the date above, on or before **4:30 PM, Monday, October 10, 2016**. The response will be in the form of an addendum, which will be available on the City's website. Bidders are responsible for checking the City's website for issuance of any addenda.

V. Withdrawal of Bids

No Bidder may withdraw his/her bid for a period of ninety (90) days from the date of opening. All bids shall be subject to acceptance by the City during this period.

To withdraw a bid prior to the opening, the bidder shall request the withdrawal in writing. All costs associated with the withdrawal (i.e. mailing fees) will be borne by the Bidder.

VI. Award

The bid award will be based on the following:

1. Quality and performance of equipment offered.
2. Availability of equipment and parts.
3. Prior history or experience with the Bidder and equipment (if no history or experience, references will be requested).
4. Cost.

VII. Rejection

The City of Bangor reserves the right to reject any and all bids, to waive any informalities or defects in bids or to accept a higher cost bid if it is deemed to be in the best interest of the City of Bangor. The City also reserves the right to negotiate with the lowest responsive Bidder.

VIII. Information & Requirements

- A. Pages four through eight of this request must be completed and returned with all questions answered in order to be considered.
- B. Any exception to the provisions in the specifications must be marked in the body of this document and itemized on a separate page titled "Exceptions", referenced by section number and paragraph, along with a detailed explanation of the exception.
- C. All equipment must be thoroughly inspected, serviced and ready for use upon delivery.
- D. The intent of this specification is to establish the minimum standards of quality and performance for portable mobile column lifts which will be used to lift a variety of vehicles including trucks, buses, passenger vehicles, fork Lifts and other general service vehicles.
- E. All Federal and State taxes must be excluded from the bid price. A tax exemption certificate for the City of Bangor shall be furnished to the successful Bidder upon request.

IX. Quality Assurance

- A. Manufacturer Qualifications: The lift company selling the product shall have ISO-9001 certification and the proof of current certification shall accompany the bid.
- B. Installer Qualifications: For warranty validation, installation shall be performed by qualified factory authorized and trained personnel.
- C. Product Requirements: Design Standards and Certification: The lift shall be certified by ETL/Intertek to the ANSI/ALI ALCTV-current edition Standard for Automotive Lifts: Safety Requirements for Construction, Testing and Validation.

X. Submission

The following product data shall be submitted with bid: Manufacturers data sheets on each product to be used including:

- A. Preparation instructions and recommendations.
- B. Storage/handling requirements and recommendations.
- C. Installation manual.
- D. Shop Drawings: Submit drawings showing full layout of all lifts with dimensions
- E. Operation and Maintenance Manual to include system operation, maintenance and troubleshooting, spare part numbers, drawings and schematics.

XI. Warranty

- A. Manufacturer's Warranty: Lift system shall be warranted for a minimum period of 2 years.
- B. Contractor/manufacturer/installer shall be notified immediately of defective products and be given a reasonable opportunity to inspect the goods prior to return. Manufacturer will not assume responsibility, or compensation, for unauthorized repairs or labor.
- C. Contractor/manufacturer/installer shall promptly, without inconvenience or cost to the City, correct said deficiencies

Vendor Name: _____

XII. Specifications

Specifications shall describe a mobile column surface mounted, wheel engaging lifting system designed to elevate vehicles for the purpose of inspection and maintenance.

After each section in this Request for Bids, a space is provided for the Bidder to answer whether they comply with the referenced section. A complete list of all exceptions including proposed specifications must be included in bid submission. Caution should be taken by the Bidder to ensure that all questions are answered in the spaces provided and that all information requested is provided.

A. General

- a) A lifting system or set consisting of 4 mobile lifting columns (Stertil-Koni Model ST-1085-FWA or equivalent) for vehicles shall be composed of interchangeable columns. The size of the set shall be able to be configured by the operator at time of set up without the need to modify the operating system. It shall be possible to operate any single column, a pair of columns, or all columns together, at the same time.
- b) The base frame of the lifting column shall be of a rectangular design. The contact pattern to the foundation under the column shall be triangular in design to ensure uniform contact with the lifting foundation.
- c) Each column shall contain its own power supply which consists of two deep cycle (group 31) 12 VDC batteries combined to provide a stable 24 VDC power supply.
- d) The main power shall be fused between the primary power switch and the motor/control circuits to protect against overload.
- e) When fully charged, the on board battery power system shall be capable of 19 lifting/lowering cycles at 100% of lifting capacity and 28 lifting/lowering cycles at 50% of lifting capacity .
- f) The 24 VDC on board power supply shall incorporate a built in recharging systems with a pictograph on the display so the operator can visually verify charging status.
- g) The recharging system shall be a built-in 110 VAC battery charger with indicator lamps. The battery charger shall be enclosed within a steel cabinet for protection from damage. The charger indicator lamp shall be easily visible through a sight glass mounted externally in the control cabinet. The indicator lamp shall be illuminated steady red when the system is recharging, green when batteries are fully recharged, and flashing green when the charger is providing a trickle charge. It shall be possible to operate the lifting column while the battery charger is actively charging the batteries.

➤ Does the Bidder comply with Section XII, Subsection A?

_____ Yes _____ No
_____ Initials

B. Lifting Capacity:

- a) Each individual column shall have a minimum rated capacity of 18,500 lbs. (8,392 kg).

C. Dimensions

- a) The achieved lifting height of the column shall be no less than 73 inches (1,854 mm) when measured from the foundation on which the column rests to the top of the lifting fork.
- b) Column height shall not be greater than 97 inches (2,464 mm) when fully lowered and 143.5 inches (3,645 mm) when the carriage has achieved maximum height.
- c) Column lifting fork shall be 14 inches in length.

D. Tire Size

- a) Wheel contact forks shall be adjustable by hand and freely accept tires with rim diameters between R10 and R22.5.
- b) The adjustable forks shall incorporate a mechanical locking device to ensure the fork cannot relocate/adjust during use.

E. Pallet Jack Mechanism

- a) The pallet jack mechanism shall have a gas shock incorporated into its design which shall serve two purposes. The primary purpose of the pallet jack gas shock shall be to serve as a safety mechanism to ensure that the mobile column is not lifting, while the pallet jack is extended. If the operator fails to lower the pallet jack after column positioning, as soon as the column experiences load during a lifting cycle, the gas shock will retract to lower the column to its foundation for stable lifting. The second purpose of the pallet jack gas shock shall be to dampen the impact of floor imperfections experienced while the column is relocated.

F. Wheels

- a) The column shall be fitted with fixed front roller wheels fabricated from oil impregnated nylon so as to be non-destructive to the foundation on which the column rests.
- b) Floor pressure at the front roller wheel location shall be no greater than 7,200 lbs.

➤ Does the Bidder comply with Section XII, Subsection B - F?

_____ Yes _____ No
_____ Initials

G. Drive Mechanism

- a) The drive system shall be hydraulic and shall permit lifting without any pulsation, jerks, or unsteady lifting. Lifting shall be smooth. The hydraulic power unit shall be an electrically-powered pump, flow control valves, and a fluid reservoir.
- b) Lifting carriage shall ride on durable, oil filled nylon guide rollers. Guide rollers shall require no lubrication and no maintenance.
- c) Each hydraulic cylinder shall be equipped with a hose burst check valve to prevent decent in the event of a major fluid leak.

H. Controls

- a) The various functions of the mobile lifting system shall be initiated from the control panels on the columns.
- b) Each control box shall include a minimum of:
 - i. "UP" button
 - ii. "Down" button
 - iii. "Lock release" button
 - iv. "Confirm" button
 - v. Mushroom style emergency stop button
 - vi. A high definition LCD touch screen.
- c) The touch screen shall be specifically designed for a harsh workshop environment. The touch screen shall be capable of providing the following functions:
 - i. Column selection indicator: This area of the touch screen display shall inform the operator of which columns in the set have been selected for operation.
 - ii. Battery charge indicator: This area of the touch screen display shall inform the operator of the charge condition of the battery power supply.
 - iii. Column weight indicator: This area of the touch screen display shall inform the operator of the weight supported by the individual column. The display shall have the ability to easily toggle between individual imperial or metric units of weight measurement (lbs. or kg.).
 - iv. Column height indicator: This area of the touch screen display shall inform the operator of the height of the individual column. The operator shall have the ability to easily toggle between individual imperial or metric units of height measurement (inches or mm.). The column height indicator shall also provide on the touch screen a clear indicator if the column has been set to stop at a restricted lifting height. This indicator shall be displayed as a thick horizontal line in the height display region of the touch screen. As the column rises, the screen will mimic the column and display the lifting fork rising up towards the horizontal restricted height indicator bar. Once the lifting fork shown on the display arrives at the restricted height indicator bar, the column shall stop rising.
 - v. Column speed indicator: This area of the touch screen shall inform the operator of the speed of the lifting system. The speed indicator shall have the ability to adjust the lowering to 30% of full lowering speed.

- vi. Column fault code indicator: When a fault code has been registered by the control system, the touch screen shall inform the operator of any fault codes affecting the lifting set. The control system shall have the ability to display individual fault codes.

I. Safety Devices

- a) An independent and fail-safe mechanical locking system shall be present on each column. This safety device shall be totally independent from the lifting drive system.
- b) Increments on lifting carriage locking profile shall not be greater than 1.375 inches (35 mm) and the first locking position shall engage after no more than 5.0 inches (120 mm) of lifting.
- c) A locking "pawl and ratchet" system shall be used to ensure proper and automatic locking at any height and at all times. The locking notches shall be integrated into the lifting carriage. The locking pawl shall be mounted to the inside of the column and function as a wedge between the column and the lifting carriage. The locking pawl design shall utilize gravity, with a spring assist, to ensure the locking pawl is always engaged into the locking ladder. The mechanical safety lock shall be automatically engaged at all times when the lift is not operating.

➤ Does the Bidder comply with Section XII, Subsection G - I?

_____ Yes _____ No
_____ Initials



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Note: Bid submission must include pages 4-8, along with all other requested information. Failure to comply with the above may result in disqualification.

Item	Description	Qty.	Unit	Total Price
1	Portable Four Column Truck Lift	1	Set	\$ _____
Manufacturer:				
Delivery time after receipt of order:				
<i>Price must include all miscellaneous charges: fuel, transportation, etc. No other charges will be accepted.</i>				
Business Name:				
Complete Address:				
Telephone Number:				
Contact Name:			Title:	
Email Address:			Date:	