State of Illinois

Department of Transportation

Bureau of Business Services

**Specifications and Questionnaire for 3,500 lbs., Electric Powered, Counterbalanced, Material-Handling, Forklift**

November 2018

This specification and questionnaire covers a battery powered, rechargeable electric, material handling forklift to be used by the Department of Transportation Division of Highways Operations forces. To improve parts and service availability and increase tool life, the Department of Transportation is specifying units and accessories as outlined below.

Each bidder shall submit with his bid **two sets** of descriptive literature and specifications describing **all** the **equipment** and **options** proposed. This information shall be clearly marked to indicate the make, model, and accessories proposed to be furnished. If this information is not furnished, the bid may not be considered.

Bidders quoting on specified equipment must submit with their bid written proof of the following:

* The manufacturer of the equipment proposed has been actively involved in the manufacture of the equipment called for in the **Bid** for a period of not less than 5 years.
* The vendor is an authorized dealer/representative for the proposed machine capable of service, operator training, and warranty repair. Copy of the certification must be attached.
* Parts and service for the equipment proposed are readily available within the State of Illinois.

It is the responsibility of each bidder to complete and return this questionnaire with the bid

**Bidders are advised to carefully read these specifications as changes have been made since the last solicitation issue.**

**Unless otherwise specified, the proposed equipment shall be complete in all parts and ready for immediate use upon delivery.**

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| --- |
| **Proposed with this Bid:** |
| Make: |       |
| Model: |       |
| Manufactured By: |       |
| Address: |       |
|  |       |
|  |       |
| Telephone: |       |
| Contact Name: |       |
| Email: |       |

**All forklifts shall include the following standard or optional accessories and equipment:**

**Capacities and Dimensions:**

The forklift shall be a four-wheel design, with rubber cushion style drive/steer tires.

Complies: Yes [ ]  No [ ]

The forklift shall be a counter-balanced, stand-up rider style, rechargeable, battery powered electric machine.

Complies: Yes [ ]  No [ ]

The rated capacity of this forklift shall be 3,500 pounds.

Complies: Yes [ ]  No [ ]

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| Rated Capacity: |       | Pounds |

Provide the forklift capacity equipped per specification with requested options at 24” load center.

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| Rated capacity @ 24” load center: |       | Pounds |

The overall length of the machine from the face of the forks shall not exceed 67” and the overall width shall be no greater than 42”.

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| Overall Length: |       | Inches |
| Overall Width: |       | Inches |

The wheel base of the fork lift shall be no less than 39” or more than 43”.

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| Wheel Base |       | Inches |

The fork lift proposed shall have a certified IP rating (Ingress Protection Rating) of 65 for the entire fork lift.

Complies: Yes [ ]  No [ ]

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| Fork Lift IP Rating |       |  |

**Power and Steering:**

The power for the fork lift shall be provided by dual independent AC drive motors.

Complies: Yes [ ]  No [ ]

They shall be separately controlled to provide greater maneuverability while turning.

Complies: Yes [ ]  No [ ]

Dual rear steer tires shall be hydraulically assisted rack and pinion steering to provide the operator precision control.

Complies: Yes [ ]  No [ ]

The turning radius for this fork lift as specified shall be approximately 51”

Complies: Yes [ ]  No [ ]

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| Turning Radius: |       | Inches |

**Batteries:**

The battery compartment shall be the largest offered for a machine of this rating while maintaining the specified machine length.

Complies: Yes [ ]  No [ ]

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| Describe & provide dimensions: |       |

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The fork lift shall operate on 36-volts and include a battery charger for recharging the batterie(s). The charger shall be compatible with 208-volt, 3-phase electrical circuitry. All wiring and connections will be completed by others.

Complies: Yes [ ]  No [ ]

Provide the amp hour rating of the battery pack for the specified machine.

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| Describe: |       |

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The battery(s) shall be serviceable from either side of the machine.

Complies: Yes [ ]  No [ ]

**Controls:**

The forklift operator’s controls shall feature a single lever control for travel, hydraulic functions, including forward/reverse, lift/lower, horn, tilt, side shift and “in and out” fork functions.

Complies: Yes [ ]  No [ ]

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| Describe: |       |

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This control device shall be fully serviceable down to individual switches.

Complies: Yes [ ]  No [ ]

**Mast & Forks:**

The mast provided with this fork lift shall be a Full Free Lift 2-stage mast.

Complies: Yes [ ]  No [ ]

The mast shall provide a lift height of approximately 131” to the top of the forks and a fully extended height of approximately 175”.

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| Lift Height: |       | Inches |
| Extended Height |       | Inches |

The mast configuration shall provide the operator a view of the carriage and load to allow for safe operation of the machine.

Complies: Yes [ ]  No [ ]

The forks shall be approximately 42” in length and provide an operator controlled 5º rear and 5º forward tilt.

Complies: Yes [ ]  No [ ]

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| Fork Length: |       | Inches |

**Wheels & Tires:**

The tires on both the drive and steer axles shall be cushion type or non-pneumatic.

Complies: Yes [ ]  No [ ]

The drive tires shall be approximately 18 x 7 and the steer tires shall be 10 x 5 approximately.

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| Drive Tires |       | Inches |
| Steer Tires |       | Inches |

**Brakes:**

The fork lift shall be equipped with operator controlled electric brakes and a manual parking brake.

Complies: Yes [ ]  No [ ]

The parking brake shall be automatically applied when the operator steps off the machine.

Complies: Yes [ ]  No [ ]

**Accessories:**

The following items shall be included as a part of the fork lift proposed:

* Hour meter
* Audible back-up alarm
* Amber Strobe or LED light
* Battery discharge meter
* Overhead guard
* Two (2) LED overhead guard mounted headlights
* One (1) LED work light mounted to the rear

Complies: Yes [ ]  No [ ]

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| Describe: |       |

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**Paint/Finish:**

All exterior surfaces normally painted shall be cleaned, prepped, painted or powder coated manufacturer’s standard color.

Complies: Yes [ ]  No [ ]

**General:**

Three copies of all operators’ manuals, parts lists and warranty information shall be provided at the time of delivery.

Complies: Yes [ ]  No [ ]

One copy of the Service Manual for each machine shall be provided upon delivery.

Complies: Yes [ ]  No [ ]

***Note:*** The manuals, parts lists, and service or shop manuals listed above may be furnished on DVD in lieu of paper.

**Training:**

The successful bidder shall supply as a part of this bid a written plan for the training of Department of Transportation personnel. Training shall cover routine service and minor repair and be performed by a manufacturer’s schooled and trained representative. A second phase shall include the training of selected individuals as operators. The length of the operator’s training shall be a minimum of two (2) working days but may be extended by the receiving district if deemed necessary.

Complies: Yes [ ]  No [ ]

A training video covering the operation of this equipment shall be provided with the training.

Complies: Yes [ ]  No [ ]

**Requirements Covering Items Detailed Above:**

All equipment cataloged as standard shall be furnished and in place and shall be included in the purchase price of the unit. Any parts, tools, and/or accessories not specifically called for but required for proper operation shall be provided.

Complies: Yes [ ]  No [ ]

The component parts of the unit shall be of proper size and design to safely withstand maximum stresses imposed by a capacity load, and the manufacturer's rated loads for all component parts shall **not** be exceeded when the unit is so loaded.

Complies: Yes [ ]  No [ ]

Full coverage warranty for a minimum 12 months shall be provided for all components and their installation. The bidder shall attach a copy of warranty with the bid.

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| Describe warranty: |       |
|  |       |

**Delivery:**

This machine is to be delivered in first-class operating condition with acceptance subject to Department of Transportation approval.

Complies: Yes [ ]  No [ ]

**Bid Package:**

Bidders will need to send two copies of each of the following with their bid.

1. Bid Document
2. Specification Questionnaire
3. Descriptive Literature

Complies: Yes [ ]  No [ ]

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| If NO to any portion, explain: |       |
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