

SPECIFICATION  
M-19-BU-N-ZZ

**006900**

FORKLIFT - TRUCK MOUNTED (ON 24 INCH LOAD CENTER) - 5,500 LB

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September 11, 2017 GAW

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I. GENERAL FORK LIFT SPECIFICATIONS: (continued)

A. INTENT STATEMENT:

NOTE: Pennsylvania Department of General Services, PCID No. 1075, "General Requirements for Bidding PENNDOT Vehicles/Equipment", most current version effective at the time and date of bid opening, is included as a part of this specification. PCID No. 1075 may be reviewed and downloaded from the Department of General Services website, <http://www.dgs.state.pa.us>. Delivery as required per Department of General Service PCID NO. 1075 Section "G". All units must be delivered within **150** days after receipt of the purchase order by the successful bidder.

The purpose of these specifications is to describe a 3-wheel drive rough terrain forklift truck with a minimum 5,500 LB capacity (on 24-inch load center) and vendor installed truck mount kit. It shall be capable of one man operation. The awarded vendor shall include all OEM materials and installation labor for the installation of the truck mount kit.

Any deviations to the specification must be granted in writing by the Chief of the Specification Section. It shall be understood that any discrepancies/deviations between the specification and the completed unit(s), chassis or body up-fitter related, must be addressed and corrected prior to the delivery deadline and the Departments acceptances.

It shall be the sole responsibility of the successful vendor to ensure compatibility with the Department's truck. The vendor shall, prior to bid, inspect the Department's truck to ensure this compatibility. For truck location contact the Equipment Division at 717-783-2371.

It is understood that the components specified are minimum and if the unit's manufacturer's Engineering Department recommends or deems necessary, a larger component, the burden of responsibility is hereby placed upon the Manufacturer's Engineering Department to supply a unit that is totally engineered.

Each unit shall bear the manufacturer's model number, serial number and date of manufacture with a non-rusting metal tag, properly affixed.

B. TRUCK CHASSI:

Truck mount kit will be installed on 2005 Sterling 672G. Currently unit has a truck mount kit previously installed, awarded vendor will be responsible for the removal and installation of the new truck mounting kit.

C. CAPACITY:

The fork lift shall satisfy the minimum requirements stated below:  
5,500 LB, minimum, at 24-inch load center (Fork face to center of gravity load).

Max. fork height	120-inch min.
Overhead guard height	89-inch min.
Turning radius	108-inch max.
Vehicle length	106-inch (approx.)
Vehicle width	100-inch max.
Fork length	48-inch min.
Minimum tilt forward	12 degree
Minimum tilt backward	10 degree

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D. FORKLIFT COMPONENTS:

There shall be a neutral safety starting device.  
There shall be fork side shift.  
Hydraulic steering.  
Hydraulic parking brake.  
The hydraulic system shall have an oil cooler.  
Multiple positive locking fork positions.  
Load backrest

E. ENGINE & DRIVE TRAIN:

56 hp (min.), diesel, liquid cooled.  
Electric starter.  
Fuel / water separator  
Dual element air filter  
Radiator shall have protective screening full length and width.  
Fast lube oil change system per EQN-351A.  
Exhaust shall be directed away from the operator station, and designed to not accept rainwater without a rain cap.  
Hydrostatic drive.  
Inching control  
3-wheel drive  
Differential lock/or/traction lock.

F. TIRES & RIMS:

Pneumatic Tires: 31 X 15.5-10 Heavy duty traction tires. One piece hub piloted rims shall be included.

G. CAB/BODY:

Overhead guard. Roll-over-protection system ROPS and FOPS.  
Suspension seat, adjustable with high visibility orange seat belt.  
Floorboard, step and handholds shall be coated with non-skid paint. Non-skid tape will not be accepted.  
All step(s) shall have a serrated edge.  
Rear view mirror(s)  
Roof cover Lexan or prior approved equal.  
Fire extinguisher: Rechargeable with vehicle mount. Mounted in the cab for easy and quick access. Ref. 3A:40BC (5 LB). Placement to be approved prior to build  
There shall be a permanent decal, 2-inch-high red letters on white back ground affixed by the driver side door handle stating the overall maximum travel height of the completed and unloaded unit.  
(Example) HT-\_\_' \_\_" Ref. EQN-552.  
There shall be a permanent decal, "Three Point Contact" located at each entry point of the truck cab and at the body ladders area Ref. EQN – 552-1.  
The sides and rear shall have conspicuity tape striping Ref. EQN-127A.

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H. ELECTRICAL:

Battery: 12 V battery, largest cold cranking amp (CCA) available from OEM. Front and rear work lights, brake lights, and all other necessary lighting for use along highways.

Electric horn.

Back-up alarm shall be a ECCO 450.

Amber strobe light shall be a Whelen L31 series, with independent switch.

Light cord connection from truck chassis to forklift shall be a 7-round pin plug, Ref. EQN-80A.

Engine block heater, with flush mounted plug.

All lighting shall turn off with the ignition switch being turned to the off position.

I. INSTRUMENTATION:

All standard instruments including but not limited to the following shall be supplied:

Gauges or warning lights for fuel, engine oil pressure, coolant temperature, transmission oil temperature, and state of charge.

Hour meter that operates only when the engine runs.

J. PAINT:

Pricing shall include PENNDOT yellow Reference DUPONT F9885, Sherwin Williams 73266, NAPA 73266 and Sikkens 4017. Pricing shall also be provided for manufactures standard yellow paint.

All hand holds and stepped areas to be coated with non-skid paint. Adhesive non-skid tape is not acceptable.

K. TRUCK MOUNT KIT:

Successful vendor shall be responsible for supplying a rear mount, truck installation kit (for information contact at 717-783-2371). There shall be a truck mounting kit, with all necessary brackets, hardware, electrical, lighting, support and safety chains. The mounting kit shall be installed by the awarded vendor on a vehicle supplied by PennDOT. The subject vehicle will be delivered to a PennDOT County Maintenance District Facility closest to the awarded vendor's location in the event that any transport outside of the Commonwealth is required, the subject vehicle will be picked up at this location by the awarded vendor and transported to the awarded vendor's location. The installation will be performed at the Vendor's facilities. Vendor will be responsible for delivery of the completed vehicle back to the original point of pick up, unless other arrangements are mutually agreed upon at that time.

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II. DRAWINGS:

EQN-80A	Rev.	dated	8-02-16	1 sheet	7 ROUND PIN FEMALE CONNECTOR
EQN-80B	Rev.	dated	8-02-16	1 sheet	7 ROUND PIN MALE CONNECTOR
EQN-127A	Rev.	dated	1-02-09	1 sheet	CONSPICUITY TAPE REQUIREMENTS
EQN-351A	Rev.	dated	6-19-13	2 sheets	FAST LUBE OIL CHANGE SYSTEM
EQN-552	Rev.	dated	7-06-17	1 sheet	MAX TRAVEL HEIGHT STICKER
EQN-552-1	Rev.	dated	7-06-17	1 sheet	THREE POINTS OF CONTACT

The above referenced drawings shall become part of these specifications.  
These drawings reflect the intent of the Department and any discrepancies shall be resolved at the line-setting-ticket meeting between the vendor and the Equipment Chief, or the pre-production inspection of the unit.

**DRAWINGS APPEAR AT THE END OF THE SPECIFICATIONS.**

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III. MANUALS:

The successful vendor shall furnish all applicable manuals per unit:

- 1 Operator's
- 1 Parts
- 1 Service
- 1 Engine
- 1 Transmission (Automatic or Manual)
- 1 Body and Sub-frame (Parts and Service)
- 1 Complete set of manuals for any additional items/equipment added to a piece of equipment.

The manuals listed shall be official O.E.M. publications supplemented with technical manuals for all components as published by sub-vendors/manufacturers.

Parts Manual presented must be a relative to "all" items utilized to build these units, with appropriate part numbers.

Delivery of these manuals shall be completed with the delivery of each unit.

Manuals must also be supplied on CD Disc.

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IV. TRAINING:

Mechanic:

The successful vendor shall provide services of qualified factory trained technicians for not more than \_\_1\_\_ training sessions of not more than \_\_3\_\_ hours at \_\_1\_\_ PennDOT locations to train personnel for in-depth preventive maintenance, review of the proper usage of parts and service manuals, as well as component/system adjustments that need to be monitored at specified service intervals.

Operator:

The successful vendor shall provide services of qualified factory trained technicians for not more than \_\_1\_\_ training sessions of not more than \_\_3\_\_ hours at \_\_1\_\_ PennDOT locations to train personnel in the proper operation, safety and general servicing of the equipment.

The successful vendor shall submit a training plan to the Equipment Division for approval within 45 days after receipt of the Purchase Order. The training plan shall consist of course outline and class schedule.

All training must be completed within 60 days after the dates established in the approved training plan unless an extension is mutually agreed to in writing by the Chief of the Equipment Division.

All training shall be coordinated with the District Equipment Managers, with the exception of Asphalt related training, which must be coordinated with the Statewide Training Coordinator (717) 787-4836, Fax (717) 783-4438.

V. WARRANTY:

Per PCID No. 1075

Warranty period shall begin with the date the receiving county takes possession of the completed unit.