



City of Pigeon Forge Fire Department

Tony L. Watson, Chief



Notice of Bid

The City of Pigeon Forge is requesting bids from qualified vendors on a **Heavy Vehicle Rescue Strut System** for the City of Pigeon Forge Fire Department. Bid specifications are enclosed or may be obtained at the Pigeon Forge Fire Department Monday through Friday between the hours of 8:00 am to 4:30 pm. Proposals not meeting the requirements will be rejected.

The City of Pigeon Forge reserves the right to reject any or all bids or to accept the deemed most favorable to the city. We also reserve the right to accept any portion or all of a bid.

Bids must be good through June 30th, 2019.

Bidder agrees by placing bid that no bills will be submitted to the Pigeon Forge Fire Department until all items on order are received and accepted by the Pigeon Forge Fire Department as correct.

Bids will be received by the City of Pigeon Forge until 1:30 pm (Eastern Time) January 8th, 2019 at which time they will be opened and read aloud at Pigeon Forge Fire Department.

Bid specs can be found online at www.cityofpigeonforge.com

Any question on any item listed, please call Pigeon Forge Fire Department at (865) 429-7381.

All bids must be dated, signed and words "**Heavy Vehicle Rescue Strut System**" shall be prominently displayed on the outside of the envelope.

Address all bids to:
Pigeon Forge Fire Department
Attn: Tony L. Watson
P.O. Box 1350
Pigeon Forge, TN 37868-1350



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LEGAL RIGHT TO SPECIFY

The Pigeon Forge Fire Department (for the remainder of this section referred to as the “specifier”) chooses to exercise its legal right to specify as determined by the U.S. Supreme Court’s affirmation of the decision handed down in the case of Whiten Corp. vs. Paddock. by the U.S. District Court of Massachusetts, the First Federal District Court, which in effect states:

- 1) That as trained professionals; specifiers make informed judgments on products that they feel best serve their needs. Also, those proprietary specifications (if chosen) **DO NOT** violate any antitrust laws. Technically, very few brands of material or equipment are exactly alike, and if the specifier wants to limit the specifications to one source, he has the right to do so and enforce it.
- 2) Only the specifier has the responsibility and judgment for determining whether a proposed Substitution an “or equal”.
- 3) That from start to finish in the purchasing process, only the specifier can ultimately decide if another desirable product is available in lieu of the specification.
- 4) Finally, that the courts conclude “the burden is on the supplier or manufacturer, who has **NOT** been specified, to convince the specifier that their product is equal for the purpose of a particular project”.

The specifier has determined that this product specification shall represent the product to which all offerings shall be compared. Due to the fact that fire firefighting is an **ULTRAHAZARDOUS, UNAVOIDABLY DANGEROUS** activity, only trained Fire Department personnel with specific knowledge in the area shall be allowed to make the final determining decision on the selection of the appropriate product to serve the Pigeon Forge Fire Department’s needs.



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1.0) Introduction

- These purchase specifications cover the minimum requirements for a Vehicle Stabilization Kit with a 10,000 minimum working load capacity (rated with a 4 to 1 safety factor).

Does Your Bid Comply With All Aspects of This Section. Yes No

- This system will consist of four (4) individually sized Rescue Struts, components and accessories.

Does Your Bid Comply With All Aspects of This Section. Yes No

- This equipment is to be used by emergency personnel for stabilization of crashed vehicles, with added capabilities for excavation collapse and to stabilize damaged or collapsed structures.

Does Your Bid Comply With All Aspects of This Section. Yes No

2.0) General Construction Features

- The Rescue Strut (main operational component of the stabilization kit) shall consist of two extendable struts not to exceed 72 inches when collapsed or exceed 116 inches when extended.

Does Your Bid Comply With All Aspects of This Section. Yes No

- The Strut shall be 3 in. (7.6 cm) diameter extruded seamless aluminum alloy tube with a solid moveable threaded shaft.

Does Your Bid Comply With All Aspects of This Section. Yes No

- Seamless tube is required to ensure a monolithic structure with predictable strength throughout and to provide superior strength, formability and finishing best suited for pressure applications found in emergency shoring operations.

Does Your Bid Comply With All Aspects of This Section. Yes No



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- All Rescue Struts and controls shall be hard coat anodized for protection and longevity. They shall extend manually or be activated by Hydraulic fluid.

Does Your Bid Comply With All Aspects of This Section. Yes No

- The Rescue Struts shall be tested and capable of supporting the following loads at the corresponding lengths and safety factors below: All Rescue Struts shall be labeled with a 4-1 safety load chart.

Rescue Strut Load Table

Length ft. (m)	Working Load Chart at Following Safety Factors		
	2:1	3:1	4:1
2 (0.6)	43,500 (19,731.6)	29,000 (13,154.4)	21,750 (9,865.8)
4 (1.2)	35,880 (16,275.2)	23,920 (10,850.1)	17,940 (8,137.6)
6 (1.8)	28,250 (12,814.2)	18,830 (8,541.3)	14,125 (6,407.1)
8 (2.4)	24,050 (10,909.1)	16,030 (7,271.2)	12,025 (5,454.5)

Note: Working loads shown in lbs. (kg.)

Does Your Bid Comply With All Aspects of This Section. Yes No

3.0) Rescue Struts

- The Rescue Strut shall be an extendable strut and allow for soft placement at vehicle incidents where vehicle stabilization is required.

Does Your Bid Comply With All Aspects of This Section. Yes No

- Shall extend from approximately 72 inches to 116 inches. All Rescue Struts shall easily interface with the following components and accessories.

Does Your Bid Comply With All Aspects of This Section. Yes No



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4.0) Rescue Strut Extensions

- Strut Extension shall come in specific length of 48 in. (122 cm.), and be constructed of 3 in. (7.6 cm) diameter extruded seamless aluminum alloy tube hard coat anodized for protection and longevity.

Does Your Bid Comply With All Aspects of This Section. Yes No

- Each Strut Extension shall have a spring-loaded locking pin to permit simple and secure connection to the Rescue Struts.

Does Your Bid Comply With All Aspects of This Section. Yes No

5.0) Base Plates

- Ground Base Plates shall be designed to support the Rescue Struts during operations and be hard coat anodized for protection and longevity.

Does Your Bid Comply With All Aspects of This Section. Yes No

- They shall measure 12 inches x 12 inches and provide an aggressive ground contact surface. They shall include a fastening point to attach anchoring straps/ratchet belts and a hinged connector which will allow the Rescue Strut to move through a 90 degree range for proper placement and support.

Does Your Bid Comply With All Aspects of This Section. Yes No

- "V" Bases shall be provided to attach to the Rescue Strut; these bases shall have a spring-loaded locking pin to permit simple and secure connection to the Rescue Struts.

Does Your Bid Comply With All Aspects of This Section. Yes No

- The "V" base shall act as a cradle to support the vehicle and be hard coat anodized for protection and longevity.

Does Your Bid Comply With All Aspects of This Section. Yes No



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- Cone Bases shall be provided to attach to the Rescue Strut; these bases shall have a spring-loaded locking pin to permit simple and secure connection to the Rescue Struts.

Does Your Bid Comply With All Aspects of This Section. Yes No

- The cone base shall have a hardened steel point to penetrate into the vehicle and safely support the vehicle load.

Does Your Bid Comply With All Aspects of This Section. Yes No

6.0) Ratchet Belts / Chains

- Ratchet Belts shall have a minimum working load rating of 3,000 pounds and have a minimum length of 15 feet.

Does Your Bid Comply With All Aspects of This Section. Yes No

- They shall have positive hook fasteners at each end to secure the ratchet belts to the vehicle and base plates.

Does Your Bid Comply With All Aspects of This Section. Yes No

- Bid must include pricing for grade 100 of 3/8th inch chain in 20ft lengths.

Does Your Bid Comply With All Aspects of This Section. Yes No

7.0) Combined Lifting and Stabilizing Strut

- The combined Lifting and Stabilizing Strut with Pump shall be able to stabilize a minimum of 20,000 lbs. (9072 kg) working load capacity (with a rated 4:1 safety factor), have a minimum of 10 U.S. ton (9.07 metric ton) lift capacity (with a rated 2:1 safety factor) and be extendable to 51.1 in (129.7 cm).

Does Your Bid Comply With All Aspects of This Section. Yes No

- The combined Lifting and Stabilizing Strut shall be made from 3.5 in (8.89 cm) diameter extruded seamless aluminum alloy tube with a telescoping 2.94 in (7.47 cm) aluminum alloy shaft.

Does Your Bid Comply With All Aspects of This Section. Yes No



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- The shaft shall be extendable/retractable with a triple lead thread and have an adjustable locking collar to lock the strut in any desired extended position.

Does Your Bid Comply With All Aspects of This Section. Yes No

- The shaft with locking collar shall be capable of shoring 20,000 lbs. (9072 kg) with a 4:1 safety factor. The strut must default to a locked position.

Does Your Bid Comply With All Aspects of This Section. Yes No

- The internal shaft shall extend hydraulically through an internal mounted 10 U.S. ton (9.07 metric ton) hydraulic cylinder with a 2:1 safety factor.

Does Your Bid Comply With All Aspects of This Section. Yes No

- The hydraulic cylinder and pump shall be capable of a minimum 16 in (40.4 cm) stroke to be used as an extendible jacking device when installed between base plates and/or extensions for rescue operations.

Does Your Bid Comply With All Aspects of This Section. Yes No

- Each combined Lifting and Stabilizing Strut shall be equipped with a Dual Shaft End Adapter made from high strength aluminum alloy. The Dual Shaft End Adapter shall allow connection of the combined Lifting and Stabilizing Strut to a compatible strut, extension, or extension converter with use of an internal, spring-loaded Adapter Ring.

Does Your Bid Comply With All Aspects of This Section. Yes No

- The Adapter Ring shall provide a bearing surface when the combined Lifting and Stabilizing Strut is used with smaller diameter compatible struts or extensions. A locking pin shall be provided to secure compatible products to the adapter.

Does Your Bid Comply With All Aspects of This Section. Yes No

- The combined Lifting and Stabilizing Strut shall be assembled with a 10,000 psi (689.5 bar) steel swivel fitting which may be rotated 360 degrees around its axis.

Does Your Bid Comply With All Aspects of This Section. Yes No



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- The swivel fitting shall be equipped with polyurethane seals and back up rings and include a female end no spill coupling to accept the male coupler to the pump and hose assembly.

Does Your Bid Comply With All Aspects of This Section. Yes No

- The pump assembly provided with the combined Lifting and Stabilizing Strut shall be comprised of a pump, hose and male no-spill coupler.

Does Your Bid Comply With All Aspects of This Section. Yes No

- The pump shall be a two-speed, single-acting, 10,000 psi (689.5 bar) metal hydraulic pump. The pump shall have an ergonomic non-slip handle.

Does Your Bid Comply With All Aspects of This Section. Yes No

- For stability and protection in operation the pump must be mounted on a base to insure no moisture absorption, high chemical resistance and high thermal performance the base must be made of high density polyethylene.

Does Your Bid Comply With All Aspects of This Section. Yes No

- For storage and stability capability the base must match these measures closely: 32" x 8" x .5" (81.3 cm x 20.3 cm x 1.3 cm)

Does Your Bid Comply With All Aspects of This Section. Yes No

- The pump assembly shall be provided with a hose 10 ft. (3.05 m) in length with a 0.25 in. (0.64 cm) diameter. The hose shall be non-conductive and kink-resistant, rated for 10,000 psi (689.5 bar) of pressure with a minimum of 40,000 psi (2758 bar) burst pressure rating.

Does Your Bid Comply With All Aspects of This Section. Yes No

- The hose shall be equipped with a male, no-spill coupler to the open hose end for ease of connection to the combined Lifting and Stabilizing Strut. The coupler shall be rated for 10,000 psi (689.5 bar) and includes a locking collar to prevent accidental disconnect from the strut.

Does Your Bid Comply With All Aspects of This Section. Yes No



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- The hose shall be covered in an orange polyurethane coating for ease of identification.

Does Your Bid Comply With All Aspects of This Section. Yes No

- All aluminum alloy components of the combined Lifting and Stabilizing Strut shall be protected with a hard coat anodize finish to reduce electrical conductivity and increase strength and longevity.

Does Your Bid Comply With All Aspects of This Section. Yes No

- All steel components of the combined Lifting and Stabilizing Strut with Pump shall be protected with a black oxide to inhibit rust to the parts.

Does Your Bid Comply With All Aspects of This Section. Yes No

- The outer shaft of the strut, dual shaft end adapter, and pump body shall display highly reflective labels for ease of use at night or in dark environments.

Does Your Bid Comply With All Aspects of This Section. Yes No

- Weight of the combined Lifting and Stabilizing Strut with Pump must not exceed = 52 lbs (23,5 kg).

Does Your Bid Comply With All Aspects of This Section. Yes No

8.0) Warranty

- The seller shall be required to furnish a warranty on the complete Rescue Strut System as described in these specifications for the service intended of the buyer.

Does Your Bid Comply With All Aspects of This Section. Yes No



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- All equipment furnished by the successful bidder shall be warranted against all defects in material and workmanship for a period of at least five years from date of acceptance.

Does Your Bid Comply With All Aspects of This Section. Yes No

- The seller agrees to replace, without charge, any parts shown to be defective under the terms of this warranty.

Does Your Bid Comply With All Aspects of This Section. Yes No

9.0) Use, Care and Maintenance Manual

- Seller shall provide an illustrated step-by-step guide on the use, care and maintenance of the Rescue Strut System provided.

Does Your Bid Comply With All Aspects of This Section. Yes No

- Seller shall provide a minimum of four hours hands on training on the Rescue Strut System provided.

Does Your Bid Comply With All Aspects of This Section. Yes No

10.0) SHIPPING and DELIVERY

- The bid pricing shall include all shipping and handling charges.

Does Your Bid Comply With All Aspects of This Section. Yes No

- The bid shall allow for 100% delivery before items are paid for.

Does Your Bid Comply With All Aspects of This Section. Yes No

- The bid shall guarantee pricing until June 30th, 2019

Does Your Bid Comply With All Aspects of This Section. Yes No



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COMPARATIVE BID ANALYSIS

City of Pigeon Forge Fire
Department

Vendor:

Description of items	Quantity	Unit Price	Total price
Freight			
GRAND TOTAL:			



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Percentage Specifications Compliance Calculation

	Total Number of "Yes / No" Questions		
	Total Number of Yes Answers		
	Total Number of No Answers		
$\% \text{ Specification Compliance } [(Total \text{ Yes Answers}) / (Total \text{ Answers})] \times 100\%$			%
<p>Each "No" answer requires a full written explanation.</p> <p>Each "Yes/No" questions not checked where provided will be considered a "No" answer.</p>			



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BID SHEET

Company Name: _____

Address: _____

Contact: _____ Phone: _____

Bid Packet Checklist:

- ____ Specifications
- ____ Proposal
- ____ Comparative Bid Analysis

BID OPENING

January 8th 2019
At 1330