



# VOGELPOHL FIRE EQUIPMENT

2770 Circleport Dr. Erlanger, KY 41018  
Office: (859) 282-1000 Fax: (859) 282-1550

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April 30, 2014

Lexington Fayette Urban County Government  
Division of Central Purchasing  
200 East Main Street  
3<sup>rd</sup> Floor, Room 338  
Lexington KY 40507  
BID #79-2014

We would like to thank you for the opportunity to quote the Holmatro line of rescue equipment to your department. Vogelpohl Fire Equipment has been the authorized sales, service, and warranty center for Holmatro Rescue Equipment in the state of Kentucky, Southwest Ohio, and Southeast Indiana for the past 25 years. The employees of Vogelpohl Fire Equipment, Inc. have over 150 years of combined fire service experience.

We are located in Erlanger, KY near the Greater Cincinnati International Airport. We have a mobile service vehicle and full-time technician who provides preventative maintenance programs, training, and next day emergency service calls. Vogelpohl Fire Equipment maintains a complete inventory of replacement parts and will provide loaner tools if unable to repair your tool on site.

Vogelpohl Fire Equipment, Inc. and Holmatro Rescue Equipment are committed to providing the best equipment and service available. Enclosed you will find all types of supporting documentation and literature to support our statements. We look forward to the possibilities of providing the Lexington Fire Department with the highest quality tools and service which best meet your needs.

Thank you,

Todd Vogelpohl  
President  
Vogelpohl Fire Equipment



# Lexington Fayette Urban County Government

Division of Central Purchasing



Lexington Kentucky

Horse Capital of the World

**INVITATION TO BID #79-2014**

**Heavy Duty Power Rescue Tools**

**NOTICE TO BIDDERS**

**Bid Opening Date: April 29, 2014**

**Bid Opening Time: 2:00 PM**

**Address: 200 East Main Street  
3<sup>rd</sup> Floor, Room 338**

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**Pre Bid Meeting: N/A**

**Pre Bid Time: N/A**

**Address: N/A**

**INVITATION TO BID**

Bid Invitation Number: #79-2014

Date of Issue: 4/15/2014

Sealed bids will be received in the office of the Division of Central Purchasing, 200 East Main Street, Lexington, Kentucky, until **2:00 PM**, prevailing local time on **4/29/2014**. Bids must be received by the above-mentioned date and time. Mailed bids should be sent to:

Division of Central Purchasing  
200 East Main Street, Rm 338  
Lexington, KY 40507, (859) 258-3320

The Lexington-Fayette Urban County Government assumes no responsibility for bids that are not addressed and delivered as indicated above. Bids that are not delivered to the Division of Central Purchasing by the stated time and date will be rejected.

All bids must have the company name and address, bid invitation number, and the commodity/service on the outside of the envelope.

Bids are to include all shipping costs to the point of delivery located at: 219 E. Third Street, Lexington KY 40508

Bid Security Required: \_\_\_ Yes X No      Performance Bond Required: \_\_\_ Yes X No  
*Cashier Check, Certified Check, Bid Bond (Personal checks and company checks will not be acceptable).*

Quantity	Commodity/Service
<b>Price Contract</b>	<b>Heavy Duty Power Rescue Tools</b>

<b>Check One:</b>	<b>Proposed Delivery:</b>
<u>X</u> Bid Specifications Met	<u>90</u> days after acceptance of bid.
___ Exceptions to Bid Specifications. <i>Exceptions shall be itemized and attached to bid proposal submitted.</i>	

<b>Procurement Card Usage</b>
<u>X</u> Yes    The Lexington-Fayette Urban County Government will be using Procurement Cards to purchase goods and services and also to make payments. Will you accept Procurement Cards?
___ No

Submitted by: Vogelpohl Fire Equipment  
Firm  
2770 Circleport Dr  
Address  
Erlanger, KY 41018  
City, State & Zip

**Bid must be signed:**  
**(original signature)**

Todd Vogelpohl      President  
Signature of Authorized Company Representative - Title  
Todd Vogelpohl  
Representative's Name (Typed or printed)  
800-797-8317      859-282-1000  
Area Code - Phone - Extension      Fax #  
Toddv@VogelpohlFire.com  
E-Mail Address

*The Affidavit in this bid must be completed before your firm can be considered for award of this contract.*

**AFFIDAVIT**

Comes the Affiant, Todd Vogelpohl, and after being first duly sworn under penalty of perjury as follows:

1. His/her name is Todd Vogelpohl and he/she is the individual submitting the bid or is the authorized representative of

Vogelpohl Fire Equipment,

the entity submitting the bid (hereinafter referred to as "Bidder").

2. Bidder will pay all taxes and fees, which are owed to the Lexington-Fayette Urban County Government at the time the bid is submitted, prior to award of the contract and will maintain a "current" status in regard to those taxes and fees during the life of the contract.

3. Bidder will obtain a Lexington-Fayette Urban County Government business license, if applicable, prior to award of the contract.

4. Bidder has authorized the Division of Central Purchasing to verify the above-mentioned information with the Division of Revenue and to disclose to the Urban County Council that taxes and/or fees are delinquent or that a business license has not been obtained.

5. Bidder has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky within the past five (5) years and the award of a contract to the Bidder will not violate any provision of the campaign finance laws of the Commonwealth.

6. Bidder has not knowingly violated any provision of Chapter 25 of the Lexington-Fayette Urban County Government Code of Ordinances, known as "Ethics Act."

7. Bidder acknowledges that "knowingly" for purposes of this Affidavit means, with respect to conduct or to circumstances described by a statute or ordinance defining an offense, that a person is aware or should have been aware that his conduct is of that nature or that the circumstance exists.

Further, Affiant sayeth naught.

Todd Vogelpohl

STATE OF KY

COUNTY OF Boone

The foregoing instrument was subscribed, sworn to and acknowledged before me

by TODD VOGELPOHL on this the 23 day

of April, 2014.

My Commission expires: 1/24/15



DAVID McCLANAHAN  
NOTARY PUBLIC  
STATE OF KENTUCKY  
NOTARY ID #435504  
MY COMMISSION EXPIRES  
JANUARY 24, 2015

David McClanahan  
NOTARY PUBLIC, STATE AT LARGE

*Please refer to Section II. Bid Conditions, Item "U" prior to completing this form.*

# **I. GREEN PROCUREMENT**

## **A. ENERGY**

The Lexington-Fayette Urban County Government is committed to protecting our environment and being fiscally responsible to our citizens.

The Lexington-Fayette Urban County Government mandates the use of Energy Star compliant products if they are available in the marketplace (go to [www.Energystar.gov](http://www.Energystar.gov)). If these products are available, but not submitted in your pricing, your bid will be rejected as non-compliant.

ENERGY STAR is a government program that offers businesses and consumers energy-efficient solutions, making it easy to save money while protecting the environment for future generations.

### Key Benefits

- These products use 25 to 50% less energy
- Reduced energy costs without compromising quality or performance
- Reduced air pollution because fewer fossil fuels are burned
- Significant return on investment
- Extended product life and decreased maintenance

## **B. GREEN SEAL CERTIFIED PRODUCTS**

The Lexington-Fayette Urban County Government is also committed to using other environmentally friendly products that do not negatively impact our environment. Green Seal is a non-profit organization devoted to environmental standard setting, product certification, and public education.

Go to [www.GreenSeal.org](http://www.GreenSeal.org) to find available certified products. These products will have a reduced impact on the environment and on human health. The products to be used must be pre-approved by the LFUCG prior to commencement of any work in any LFUCG facility. If a Green Seal product is not available, the LFUCG must provide a signed waiver to use an alternate product. Please provide information on the Green Seal products being used with your bid response.

## **C. GREEN COMMUNITY**

**The Lexington-Fayette Urban County Government (LFUCG) serves as a principal, along with the University of Kentucky and Fayette County Public Schools, in the Bluegrass Partnership for a Green Community. The Purchasing Team component of the Partnership collaborates on economy of scale purchasing that promotes and enhances environmental initiatives. Specifically, when applicable, each principal is interested in obtaining best value products and/or services which promote environment initiatives via solicitations and awards from the other principals.**

**If your company is the successful bidder on this Invitation For Bid, do you agree to extend the same product/service pricing to the other principals of the Bluegrass Partnership for a Green Community (i.e. University of Kentucky and Fayette County Schools) if requested?**

Yes X No \_\_\_\_\_



in this bid, it is agreed the certified check may be cashed and the funds retained by the Lexington-Fayette Urban County Government as liquidated damages. Checks of unsuccessful bidders will be returned when the bid has been awarded.

- M. The delivery dates specified by bidder may be a factor in the determination of the successful bidder.
- N. Tabulations of bids received may be mailed to bidders. Bidders requesting tabulations must enclose a stamped, self-addressed envelope with the bid.
- O. The Lexington-Fayette Urban County Government is exempt from Kentucky Sales Tax and Federal Excise Tax on materials purchased from this bid invitation. Materials purchased by the bidder for construction projects are not tax exempt and are the sole responsibility of the bidder.
- P. All material furnished hereunder must be in full compliance with OSHA regulations.
- Q. If more than one bid is offered by one party, or by any person or persons representing a party, all such bids shall be rejected.
- R. Signature on the face of this bid by the Bidder or his authorized representative shall be construed as acceptance of and compliance with all terms and conditions contained herein.
- S. The Entity (regardless of whether construction contractor, non-construction contractor or supplier) agrees to provide equal opportunity in employment for all qualified persons, to prohibit discrimination in employment because of race, color, creed, national origin, sex or age, and to promote equal employment through a positive, continuing program from itself and each of its sub-contracting agents. This program of equal employment opportunity shall apply to every aspect of its employment policies and practices.
- T. The Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) requires that any county, city, town, school district, water district, hospital district, or other political subdivision of the state shall include in directly or indirectly publicly funded contracts for supplies, materials, services, or equipment hereinafter entered into the following provisions:

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, age or national origin;*
- (2) The contractor will state in all solicitations or advertisements for employees placed by or on behalf of the contractors that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age or national origin;*
- (3) The contractor will post notices in conspicuous places, available to employees and applicants for employment, setting forth the provisions of the non-discrimination clauses required by this section; and*
- (4) The contractor will send a notice to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding advising the labor union or workers' representative of the contractor's commitments under the nondiscrimination clauses.*

The Act further provides:

KRS 45.610. Hiring minorities - Information required

- (1) For the length of the contract, each contractor shall hire minorities from other sources*

*within the drawing area, should the union with which he has collective bargaining agreements be unwilling to supply sufficient minorities to satisfy the agreed upon goals and timetable.*

- (2) Each contractor shall, for the length of the contract, furnish such information as required by KRS 45.560 to KRS 45.640 and by such rules, regulations and orders issued pursuant thereto and will permit access to all books and records pertaining to his employment practices and work sites by the contracting agency and the department for purposes of investigation to ascertain compliance with KRS 45.560 to 45.640 and such rules, regulations and orders issued pursuant thereto.*

**KRS 45.620. Action against contractor - Hiring of minority contractor or subcontractor**

- (1) If any contractor is found by the department to have engaged in an unlawful practice under this chapter during the course of performing under a contract or subcontract covered under KRS 45.560 to 45.640, the department shall so certify to the contracting agency and such certification shall be binding upon the contracting agency unless it is reversed in the course of judicial review.*
- (2) If the contractor is found to have committed an unlawful practice under KRS 45.560 to 45.640, the contracting agency may cancel or terminate the contract, conditioned upon a program for future compliance approved by the contracting agency and the department. The contracting agency may declare such a contractor ineligible to bid on further contracts with that agency until such time as the contractor complies in full with the requirements of KRS 45.560 to 45.640.*
- (3) The equal employment provisions of KRS 45.560 to 45.640 may be met in part by a contractor by subcontracting to a minority contractor or subcontractor. For the provisions of KRS 45.560 to 45.640, a minority contractor or subcontractor shall mean a business that is owned and controlled by one or more persons disadvantaged by racial or ethnic circumstances.*

**KRS 45.630 Termination of existing employee not required, when**

*Any provision of KRS 45.560 to 45.640 notwithstanding, no contractor shall be required to terminate an existing employee upon proof that that employee was employed prior to the date of the contract.*

**KRS 45.640 Minimum skills**

*Nothing in KRS 45.560 to 45.640 shall require a contractor to hire anyone who fails to demonstrate the minimum skills required to perform a particular job.*

It is recommended that all of the provisions above quoted to be included as special conditions in each contract. In the case of a contract exceeding \$250,000, the contractor is required to furnish evidence that his work-force in Kentucky is representative of the available work-force in the area from which he draws employees, or to supply an Affirmative Action plan which will achieve such representation during the life of the contract.

- U. Any party, firm or individual submitting a proposal pursuant to this invitation must be in compliance with the requirements of the Lexington-Fayette Urban County Government regarding taxes and fees before they can be considered for award of this invitation and must maintain a "current" status with regard to those taxes and fees throughout the term of the contract. The contractor must be in compliance with Chapter 13 from the Code of Ordinances



of the Lexington-Fayette Urban County Government. The contractor must be in compliance with Ordinance 35-2000 pursuant to contractor registration with the Division of Building Inspection. If applicable, said business must have a Fayette County business license.

Pursuant to KRS 45A.343 and KRS 45A.345, the contractor shall

- (1) *Reveal any final determination of a violation by the contractor within the previous five year period pursuant to KRS Chapters 136 (corporation and utility taxes), 139 (sales and use taxes), 141 (income taxes), 337 (wages and hours), 338 (occupational safety and health of employees), 341 (unemployment and compensation) and 342 (labor and human rights) that apply to the contractor; and*
- (2) *Be in continuous compliance with the above-mentioned KRS provisions that apply to the contractor for the duration of the contract.*

A contractor's failure to reveal the above or to comply with such provisions for the duration of the contract shall be grounds for cancellation of the contract and disqualification of the contractor from eligibility for future contracts for a period of two (2) years.

- V. Vendors who respond to this invitation have the right to file a notice of contention associated with the bid process or to file a notice of appeal of the recommendation made by the Director of Central Purchasing resulting from this invitation.

Notice of contention with the bid process must be filed within 3 business days of the bid/proposal opening by (1) sending a written notice, including sufficient documentation to support contention, to the Director of the Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his/her contention with the bid process. After consulting with the Commissioner of Finance the Chief Administrative Officer and reviewing the documentation and/or hearing the vendor, the Director of Central Purchasing shall promptly respond in writing findings as to the compliance with bid processes. If, based on this review, a bid process irregularity is deemed to have occurred the Director of Central Purchasing will consult with the Commissioner of Finance, the Chief Administrative Officer and the Department of Law as to the appropriate remedy.

Notice of appeal of a bid recommendation must be filed within 3 business days of the bid recommendation by (1) sending a written notice, including sufficient documentation to support appeal, to the Director, Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his appeal. After reviewing the documentation and/or hearing the vendor and consulting with the Commissioner of Finance and the Chief Administrative Officer, the Director of Central Purchasing shall in writing, affirm or withdraw the recommendation.

### III. Procurement Contract Bid Conditions

- A. The terms of this agreement shall be for 1 year from the date of acceptance of this contract by the Lexington-Fayette Urban County Government. This agreement may be extended for an additional 1 year renewal upon the written agreement of the bidder and the Lexington-Fayette Urban County Government. Said agreement must be in writing and must be executed prior to the expiration of the current agreement.
- B. Price Changes (**Space Checked Applies**)
- (XXX) 1. Prices quoted in response to the Invitation shall be firm prices for the first 90 days of the Procurement Contract. After 90 days, prices may be subject to revision and such changes shall be based on general industry changes. Revision may be either increases or decreases and may be requested by either party. There will be no more than one (1) price adjustment per quarter. Requests for price changes shall be received in writing at least twenty (20) days prior to the effective date and are subject to written acceptance before becoming effective. Proof of the validity of a request for revision shall be responsibility of the requesting party. The Lexington-Fayette Urban County Government shall receive the benefit of any decline that the seller shall offer his other accounts.
- ( ) 2. No provision for price change is made herein. Prices are to be firm for the term of this contract.
- ( ) 3. Procurement Level Contract
- C. If any contract item is not available from the vendor, the Lexington-Fayette Urban County Government, at its option, may permit the item to be back-ordered or may procure the item on the open market.
- D. All invoices must bear reference to the Lexington-Fayette Urban County Government Purchasing document numbers which are being billed.
- E. This contract may be canceled by either party thirty (30) days after delivery by canceling party of written notice of intent to cancel to the other contracting party.
- F. This contract may be canceled by the Lexington-Fayette Urban County Government if it is determined that the Bidder has failed to perform under the terms of this agreement, such cancellation to be effective upon receipt of written notice of cancellation by the Bidder.
- G. No substitutions for articles specified herein may be made without prior approval of the Division of Central Purchasing.

EQUAL OPPORTUNITY AGREEMENT

The Law

- Title VII of the Civil Rights Act of 1964 (amended 1972) states that it is unlawful for an employer to discriminate in employment because of race, color, religion, sex, age (40-70 years) or national origin.
- Executive Order No. 11246 on Nondiscrimination under Federal contract prohibits employment discrimination by contractor and sub-contractor doing business with the Federal Government or recipients of Federal funds. This order was later amended by Executive Order No. 11375 to prohibit discrimination on the basis of sex.
- Section 503 of the Rehabilitation Act of 1973 states:

*The Contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap.*

- Section 2012 of the Vietnam Era Veterans Readjustment Act of 1973 requires Affirmative Action on behalf of disabled veterans and veterans of the Vietnam Era by contractors having Federal contracts.
- Section 206(A) of Executive Order 12086, Consolidation of Contract Compliance Functions for Equal Employment Opportunity, states:

*The Secretary of Labor may investigate the employment practices of any Government contractor or sub-contractor to determine whether or not the contractual provisions specified in Section 202 of this order have been violated.*

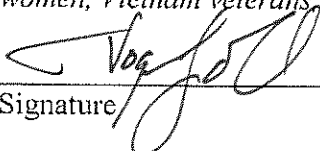
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The Lexington-Fayette Urban County Government practices Equal Opportunity in recruiting, hiring and promoting. It is the Government's intent to affirmatively provide employment opportunities for those individuals who have previously not been allowed to enter into the mainstream of society. Because of its importance to the local Government, this policy carries the full endorsement of the Mayor, Commissioners, Directors and all supervisory personnel. In following this commitment to Equal Employment Opportunity and because the Government is the benefactor of the Federal funds, it is both against the Urban County Government policy and illegal for the Government to let contracts to companies which knowingly or unknowingly practice discrimination in their employment practices. Violation of the above mentioned ordinances may cause a contract to be canceled and the contractors may be declared ineligible for future consideration.

Please sign this statement in the appropriate space acknowledging that you have read and understand the provisions contained herein. Return this document as part of your application packet.

Bidders

*I/We agree to comply with the Civil Rights Laws listed above that govern employment rights of minorities, women, Vietnam veterans, handicapped and aged persons.*

  
Signature

  
Name of Business

## GENERAL PROVISIONS OF BID CONTRACT

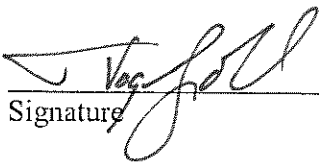
By signing the below, bidder acknowledges that it understands and agrees with the following provisions related to its bid response and the provision of any goods or services to LFUCG upon selection by LFUCG pursuant to the bid request:

1. Bidder shall comply with all Federal, State & Local regulations concerning this type of service or good.
2. Failure to submit ALL forms and information required by LFUCG may be grounds for disqualification.
3. Addenda: All addenda, if any, must be considered by the bidder in making its response, and such addenda shall be made a part of the requirements of the bid contract. Before submitting a bid response, it is incumbent upon bidder to be informed as to whether any addenda have been issued, and the failure of the bidder to cover any such addenda may result in disqualification of that response.
4. Bid Reservations: LFUCG reserves the right to reject any or all bid responses, to award in whole or part, and to waive minor immaterial defects in proposals. LFUCG may consider any alternative proposal that meets its basic needs.
5. Liability: LFUCG is not responsible for any cost incurred by bidder in the preparation of its response.
6. Changes/Alterations: Bidder may change or withdraw a proposal at any time prior to the opening; however, no oral modifications will be allowed. Only letters, or other formal written requests for modifications or corrections of a previously submitted proposal which is addressed in the same manner as the bid response, and received by LFUCG prior to the scheduled closing time for receipt of bids, will be accepted. The bid response when opened, will then be corrected in accordance with such written request(s), provided that the written request is contained in a sealed envelope which is plainly marked "modifications of bid response".
7. Clarification of Submittal: LFUCG reserves the right to obtain clarification of any point in a bid or to obtain additional information from any bidder.
8. Bribery Clause: By his/her signature on its response, bidder certifies that no employee of his/hers, any affiliate or subcontractor, has bribed or attempted to bribe an officer or employee of the LFUCG.
9. Additional Information: While not necessary, the bidder may include any product brochures, software documentation, sample reports, or other documentation that may assist LFUCG in better understanding and evaluating the bid response. Additional documentation shall not serve as a substitute for other documentation which is required by the LFUCG to be submitted with the bid response.
10. Ambiguity, Conflict or other Errors: If a bidder discovers any ambiguity, conflict, discrepancy, omission or other error in the bid request of LFUCG, it shall immediately notify LFUCG of such error in writing and request modification or clarification of the document if allowable by the LFUCG.

11. Agreement to Bid Terms: In submitting its bid response, the bidder agrees that it has carefully examined the specifications and all provisions relating to LFUCG's bid request, including but not limited to the bid contract. By submission of its bid response, bidder states that it understands the meaning, intent and requirements of LFUCG's bid request and agrees to the same. The successful bidder shall warrant that it is familiar with and understands all provisions herein and shall warrant that it can comply with them. No additional compensation to bidder shall be authorized for services, expenses, or goods reasonably covered under these provisions that the bidder omits from its bid response.
12. Cancellation: LFUCG may unilaterally terminate the bid contract with the selected bidder(s) at any time, with or without cause, by providing at least thirty (30) days advance written notice unless a different advance written notice period is negotiated prior to contract approval. Payment for services or goods received prior to termination shall be made by the LFUCG provided these goods or services were provided in a manner acceptable to the LFUCG. Payment for those goods and services shall not be unreasonably withheld.
13. Assignment of Contract: The selected bidder(s) shall not assign or subcontract any portion of the bid contract with LFUCG without the express written consent of LFUCG. Any purported assignment or subcontract in violation hereof shall be void. It is expressly acknowledged that LFUCG shall never be required or obligated to consent to any request for assignment or subcontract; and further that such refusal to consent can be for any or no reason, fully within the sole discretion of LFUCG.
14. No Waiver: No failure or delay by LFUCG in exercising any right, remedy, power or privilege hereunder, nor any single or partial exercise thereof, nor the exercise of any other right, remedy, power or privilege shall operate as a waiver hereof or thereof. No failure or delay by LFUCG in exercising any right, remedy, power or privilege under or in respect of this bid proposal or bid contract shall affect the rights, remedies, powers or privileges of LFUCG hereunder or shall operate as a waiver thereof.
15. Authority to do Business: Each bidder must be authorized to do business under the laws of the Commonwealth of Kentucky and must be in good standing and have full legal capacity to provide the goods or services specified in the bid proposal. Each bidder must have all necessary right and lawful authority to submit the bid response and enter into the bid contract for the full term hereof including any necessary corporate or other action authorizing the bidder to submit the bid response and enter into this bid contract. If requested, the bidder will provide LFUCG with a copy of a corporate resolution authorizing this action and/or a letter from an attorney confirming that the proposer is authorized to do business in the Commonwealth of Kentucky. All bid responses must be signed by a duly authorized officer, agent or employee of the bidder.
16. Governing Law: This bid request and bid contract shall be governed by and construed in accordance with the laws of the Commonwealth of Kentucky. In the event of any proceedings regarding this matter, the bidder agrees that the venue shall be the Fayette County Circuit Court or the U.S. District Court for the Eastern District of Kentucky, Lexington Division and that the bidder expressly consents to personal jurisdiction and venue in such Court for the limited and sole purpose of proceedings relating to these matters or any rights or obligations arising thereunder.
17. Ability to Meet Obligations: Bidder affirmatively states that there are no actions, suits or proceedings of any kind pending against bidder or, to the knowledge of the bidder, threatened

against the bidder before or by any court, governmental body or agency or other tribunal or authority which would, if adversely determined, have a materially adverse effect on the authority or ability of bidder to perform its obligations under this bid response or bid contract, or which question the legality, validity or enforceability hereof or thereof.

18. Bidder understands and agrees that its employees, agents, or subcontractors are not employees of LFUCG for any purpose whatsoever. Bidder is an independent contractor at all times related to the bid response or bid contract.
19. If any term or provision of this bid contract shall be found to be illegal or unenforceable, the remainder of the contract shall remain in full force and such term or provision shall be deemed stricken.

  
Signature

4-23-14  
Date

Specifications	Bidder Complies	
	Yes	No
<b>SPECIFICATIONS FOR A HYDRAULIC RESCUE TOOLS</b>		
<b>Heavy Duty Power Rescue Tools</b>		
<b>Scope and Classification</b>		
<b>I. Scope</b> This specification covers a new and commercially produced hydraulic rescue tool system.	✓	
<b>II. Classification</b> These specifications call for gasoline powered hydraulic pumps and manual hydraulic pumps with the capability to operate hydraulic spreaders with accessories, hydraulic cutters, telescopic rams, and push/pull rams with accessories. 32ft hoses shall be provided in this package.	✓	
<b>III. Applicable Documents</b> Any manufacturer or vendor responding to this bid shall enclose in their proposal at the time of bid any documents required in these specifications. It is the responsibility of the vendor to be sure that the proposal submitted meets all requirements of these specifications. Bids which fail to comply with these requirements shall not be considered for award.	✓	
<b>IV. Materials</b> The hydraulic rescue tools delivered under these specifications shall be standard commercial products which meet or exceed the requirements of this specification. The components and optional items shall be as represented in the manufacturer's current sales and technical data. Materials used in construction of the rescue tools shall be new and not less than the quality conforming to current engineering and manufacturing practices. Materials shall be free of defects and suitable for the service intended.	✓	
<b>V. Training</b> Three consecutive days of training shall be provided covering the use, maintenance, and limitations of the tools covered in this specification.	✓	
<b>VI. Exceptions to Specifications</b> It is not the intent of these specifications to restrict or prevent any vendor from submitting a proposal on his product. Due to the fact that the equipment specified is to be used under emergency and hazardous conditions where human life may be at risk the following must apply: Any exception(s) to these specifications indicated herein must be clearly pointed out otherwise it will be considered that items offered are in strict compliance with these specifications and the successful bidder will be held responsible for delivering a rescue tool system meeting these specifications. Any exception taken shall be listed by number and noted on the exception sheet found at the end of these specifications.	✓	

# Specifications

Bidder  
Complies

Yes

No

## VII. Information and Descriptive Literature

Bidders must furnish all information requested and in the space provided on the bid form. In addition, vendors shall supply at least two (2) complete sets of sketches, descriptive literature, and complete specifications covering the products offered. Bids not meeting this requirement will be rejected.

✓

## VII. Anti-Collusion Statement

By signing this bid the bidder agrees that this proposal is made without any understanding, agreement, or connection with any other person, firm, or corporation making a bid for the same purpose, and that the bid is in all respects fair and without collusion or fraud. Sign in ink in the space provided below. Unsigned bids will be considered as incomplete and will be rejected.

✓

**IT IS AGREED BY THE UNDERSIGNED BIDDER THAT THE SIGNING AND DELIVERY OF THIS BID REPRESENTS THE BIDDER'S ACCEPTANCE OF THE TERMS AND CONDITIONS OF THE FOREGOING SPECIFICATIONS AND PROVISIONS, AND IF AWARDED THE CONTRACT BY THIS AGENCY, WILL REPRESENT THE AGREEMENT BETWEEN THE PARTIES.**

NAME OF FIRM *Vogelpohl Fire Equipment*  
SIGNED BY: must be signed in *✓ Vogelpohl*  
ink by a company officer  
TITLE *President*  
MANUFACTURER OF RESCUE TOOLS *Holmatro*  
MODEL(S) BID *4000 Series*  
DELIVERY WILL BE MADE IN *90* DAYS.

**SPECIAL NOTE:** Variances or exceptions must be noted by number on the following pages and explained in full detail on the last page(s) of this specification. Vendors whose bid fails to comply with this requirement will not be accepted.

## GENERAL CONDITIONS

### (WARRANTY)

The following is a description of the rescue tool system that will meet the minimum requirements of this specification. These specifications are to be considered as minimum and are expressed as such. If the rescue tool(s) and component parts delivered under this contract do not comply with these specifications the tools will not be accepted. Any vendor failing to meet his obligations required as part of this contract may be forced to pay damages to this agency. Such damages shall not exceed the amount required to obtain a replacement product or tool meeting the requirements of this specification.



Specifications	Bidder Complies	
	Yes	No
<p><b>1.00 <u>Warranty and Service Requirements</u></b>  This agency subscribes whenever possible to a "Buy American" policy. With respect to service and the possible difficulty of obtaining replacement parts, the rescue system supplied under this contract shall be made in the United States.</p> <p><b>NOTE: ANY AND ALL EXCEPTIONS TO THESE SPECIFICATIONS SHALL BE LISTED IN SECTION (7) AND BE REFERRED BY PARAGRAPH.</b></p> <p><b>1.01 <u>Warranty</u></b>  The rescue system bid in response to these specifications shall carry a limited lifetime warranty. This warranty shall protect the original owner so long as the necessary warranty papers are supplied when service is required.  A copy of the limited lifetime warranty requirements shall be included with this bid.</p> <p><b>GENERAL CONDITIONS  (HYDRAULIC POWER UNIT)</b></p> <p><b>2.00 <u>Hydraulic Power Unit (gasoline), 2-Tool Simultaneous Operation</u></b>  This pump must be compliant with NFPA 1936 Standard on Powered Rescue Tool Systems, 1999 edition. The pump must allow operation in a humid and dusty environment. The pump must be capable of powering two tools at full power, independently and simultaneously. For this purpose the pump must have two separate valve blocks, each incorporating a pressure relief valve. Each valve must be capable stopping pressure to the tool by means of manually relieving or automatically relieving the pressure without loss of fluid. Valves shall be of a single fitting connection. This connection shall allow the flow of hydraulic fluid to flow from the pump to the tool and return through a single fitting hose. Fitting will allow hose to be disconnected without the flow continuing and without the use of a manual relief valve. The relief valve must vent internally. Couplers must be one hand operated, flat-face, non-drip couplings with built-in automatic locking feature. Couplers must be supplied with aluminum protective dust caps. The pump will be provided with a Pressure Relief Device to allow the relief of pressure in hose lines due to temperature change or inadvertent pressurization of the line when no tool is connected.</p> <p><b>2.01 <u>Engine</u></b>  The power source for the pump shall be a Honda 4-cycle gasoline engine producing a minimum of 3.0 HP (2237 watts). The engine shall have a gasoline tank of at least 1.5 quarts (1.4 liter), which allows the engine to run for at least one hour during intermittent operation. For ease of operation the fuel tank shall incorporate a highly visible fuel level indicator. This engine is specified due to its ease and reliability in starting. The engine shall be fitted with an hour meter in order to facilitate a periodic maintenance schedule. No other engine will be accepted as part of this specification.</p>	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>	

Specifications	Bidder Complies	
	Yes	No
<p><b>2.02 Pump</b></p> <p>Each pump part shall be a two-stage radial piston pump with an output of not less than 131 cu in/min (2150 cc/min) in the first stage and not less than 27.5 cu in/min (450 cc/min) in the second stage. The pump shall have two automatic sequence valves, set at approximately 2,900 psi (200 bar), that switch the first stage to second stage, in order to allow full pressure to be built up to a maximum working pressure of 10,500 psi (720 bar). Each pump shall be protected with two internal safety valves. In addition, each valve block shall have an external safety valve, factory set at 10,500 psi (720 bar).</p>	✓	
<p><b>2.03 Carrying frame</b></p> <p>The pump shall have a carrying frame that protects all parts of the pump, and makes it easy to carry the pump unit. In order to provide improved grip in all weather conditions, the frame must have a non-slip surface. The frame shall be provided with anti-vibration dampers to keep the pump at its position while running. The pump unit shall be mounted to the frame with rubber isolation dampers to reduce vibration and shock to the pump unit.</p>	✓	
<p><b>2.04 Tank and fluid</b></p> <p>The pump shall be designed for the use of non-toxic mineral oil. The effective oil contents shall be no less than 3.2 qt. (3 liters). For ease of operation the oil tank shall incorporate a highly visible oil level indicator. The oil contents of the tank when filled to the proper level shall be no less than 3.8 quarts (3.6 liters).</p>	✓	
<p><b>2.05 Weight and Dimensions</b></p> <p>The complete unit, including pump, frame, hydraulic oil and gasoline shall weigh no more than fifty-eight (58) pounds (26.3 kg). The dimensions of the complete pump unit shall be within (LxWxH): 19-5/8 inches x 13-3/8 inches x 15-3/8 inches (500 mm x 340 mm x 390 mm).</p>	✓	
<p><b>2.06 Sound Level</b></p> <p>The sound level of the simultaneously operating pump must not exceed 83 dB measured at a distance of thirteen (13) feet (4 meters).</p>	✓	
<p><b>2.07 Hydraulic Power Unit (gasoline). 2-Tool Simultaneous Operation</b></p> <p>This pump must be compliant with NFPA 1936 Standard on Powered Rescue Tool Systems, 1999 edition. The pump must allow operation in a humid and dusty environment. The pump must be capable of powering two tools at full power, independently and simultaneously. For this purpose the pump must have two separate valve blocks, each incorporating a pressure relief valve. Each valve must be capable stopping pressure to the tool by means of manually relieving or automatically relieving the pressure without loss of fluid. Valves shall be of a single fitting connection. This connection shall allow the flow of hydraulic fluid to flow from the pump to the tool and return through a single fitting hose. Fitting will allow hose to be disconnected without the flow continuing and without the use of a manual relief valve. The relief valve must vent internally. Couplers must be one hand operated, flat-face, non-drip couplings with built-in automatic locking feature. Couplers must be supplied with aluminum protective dust caps. The pump will be provided with a Pressure Relief Device to allow the relief of pressure in hose lines due to temperature change or inadvertent pressurization of the line when no tool is</p>	✓	

Specifications	Bidder Complies	
	Yes	No
connected. LED lighting shall be available to illuminate the couplings while engine is in operation.		
<p><b>2.08 Engine</b></p> <p>The power source for the pump shall be a Honda 4-cycle gasoline engine producing a minimum of 3.0 HP (2237 watts). The engine shall have a gasoline tank of at least 1.3 quarts (1.25 liter), which allows the engine to run for at least one hour during intermittent operation. For ease of operation the fuel tank shall incorporate a highly visible fuel level indicator. This engine is specified due to its ease and reliability in starting. The engine shall be fitted with an hour meter in order to facilitate a periodic maintenance schedule. No other engine will be accepted as part of this specification.</p>	✓	
<p><b>2.09 Pump</b></p> <p>Each pump part shall be a two-stage radial piston pump with an output of not less than 171 cu in/min (2800 cc/min) in the first stage and not less than 34 cu in/min (550 cc/min) in the second stage. The pump shall have two automatic sequence valves, set at approximately 2,800 psi (200 bar), that switch the first stage to second stage, in order to allow full pressure to be built up to a maximum working pressure of 10,500 psi (720 bar). Each pump shall be protected with two internal safety valves. In addition, each valve block shall have an external safety valve, factory set at 10,500 psi (720 bar).</p>	✓	
<p><b>2.10 Carrying frame</b></p> <p>The carrying handle shall be a suit case style handle on the top of the power unit and it shall be an integral part of the protective housing of the unit. The frame shall be provided with anti-vibration dampers to keep the pump at its position while running.</p>	✓	
<p><b>2.11 Tank and fluid</b></p> <p>The pump shall be designed for the use of non-toxic mineral oil. The effective oil contents shall be no less than 2.6 qt. (2.49 liters). For ease of operation the oil tank shall incorporate a highly visible oil level indicator.</p>	✓	
<p><b>2.12 Weight and Dimensions</b></p> <p>The complete unit, including pump, frame, hydraulic oil and gasoline shall weigh no more than fifty-five (55) pounds (25 kg). The dimensions of the complete pump unit shall be within (LxWxH): 23-1/2 inches x 11-1/2 inches x 16-3/4 inches (600 mm x 290 mm x 425 mm).</p>	✓	
<p><b>2.13 Sound Level</b></p> <p>The sound level of the simultaneously operating pump must not exceed 83 dB measured at a distance of thirteen (13) feet (4 meters).</p>	✓	
<p><b>2.10 Hydraulic Tool (gasoline) Single Tool Power Unit</b></p> <p>This pump must be compliant with NFPA 1936 Standard on Powered Rescue Tool Systems, 1999 edition. The pump must allow operation in a humid and dusty environment and thus is provided with an easy to clean air filter on the engine. The pump must have the capability for two-tool connection with selective operation of one tool at a time. The selector valve will be designed so as to permit selection between either of the two line positions or the neutral position. The pump must</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p>have pressure dump valve that allows inadvertent pressurization to be relieved from full load by just flipping a lever. Couplers must be one hand operated, flat-face, non-drip couplings with built-in automatic locking feature. Couplers must be supplied with aluminum protective dust caps. The pump will be provided with a Pressure Relief Device to allow the relief of pressure in hose lines due to temperature change.</p>		
<p><b>2.11 Engine</b> The unit shall be driven by a compact Honda 4 stroke gasoline engine of at least 2.5 HP set at 4,500 rpm. The engine shall have a gasoline tank of at least 1.3 qt. (1.25 L) that allows the pump to run for at least 2 hours.</p>	✓	
<p><b>2.12 Pump</b> The pump shall be a two-stage radial piston pump with pump output of not less than 139 cu in/min (2,280 cc/min) in the first stage and a pump output of not less than 37 cu in/min (620 cc/min) in the second stage. The pump shall have an automatic sequence valve, set at approx. 2683 psi (185 bar), that switches the first stage pump to no-load in order to allow full pressure to be built up to a maximum working pressure of approx. 10,500 psi (720 bar). The mini pump shall be protected with an internal safety valve. In addition to that, the pump must have an external safety valve, factory set at 10,500 psi (720 bar).</p>	✓	
<p><b>2.13 Carrying Handle</b> The pump shall have an integrated carrying handle, which makes it easy to carry the pump unit.</p>	✓	
<p><b>2.14 Tank and fluid</b> The oil tank shall contain not less than 2.4 qt (2.3 L) to allow a proper cooling of the hydraulic fluid and shall be provided with an automatic air vent in the fill cap. The pump shall be designed for the use of non-toxic mineral oil. The effective oil contents shall be no less than 2.1 qt (2.0 L).</p>	✓	
<p><b>2.15 Weight and Dimensions</b> The complete pump ready to use shall weigh no more than 35 lbs (15.9 kg). The dimensions of the complete pump unit shall be within (LxWxH): 17 ¾ in x 12 in x 15 in (451 mm x 305 mm x 381 mm).</p>	✓	
<p><b>2.16 Sound Level</b> The sound level of the pump must not exceed 83 dB measured from a distance of 13 feet (4 meters) from unit.</p>	✓	
<p><b>NOTE: VENDORS TAKING EXCEPTION TO THIS REQUIREMENT MUST, IF PROTESTING THIS REQUIREMENT, PROVE TO THIS AGENCY THE ENGINE MANUFACTURER'S ABILITY TO PROVIDE EQUAL OR BETTER SERVICE.</b></p>		
<p><b>2.17 Hydraulic Back-up Pump (hand/foot operated)</b> Hydraulic pump capable of operating any tools listed in this specification. This pump must be a 3-stage pump that can be hand or foot operated. Valves shall be of a single fitting connection. This connection shall allow the flow of hydraulic fluid to flow from the pump to the tool and</p>	✓	

Specifications	Bidder Complies	
	Yes	No
return through a single fitting hose. Fitting will allow hose to be disconnected without the flow continuing and without the use of a manual relief valve. Pump must produce a maximum of 1.7cubic inches per stroke.		
<b>2.18 Tank and Fluid</b> Manual pump must use non-toxic mineral based hydraulic fluid. Fluid capacity shall be no less than 1.9 quarts	✓	
<b>2.19 Weight</b> Weight of manual power unit shall no exceed 39 pounds.	✓	
<b>2.20 Air Powered Hydraulic Pump</b> The pump will have a maximum operating pressure of 10,500 psi (720 bar). The pump must have a one tool connection and a manual pressure relief valve situated over the pressure outlet in such way that inadvertent pressurization cannot take place but that allows a pressure relief under full load by just pressing the foot pedal. Couplers must be drip free with quick connect design.	✓	
<b>2.21 Power Source</b> The unit shall be driven by an air supply operating at 125 psi (8.5 bar). Air consumption unloaded shall be no less than 184 cfm; loaded shall be no less than 153 cfm.	✓	
<b>2.22 Pump</b> The pump will be a reciprocating air/hydraulic pump for use in high hazard areas. The pump shall have unloaded output of not less than 58 cu in/min (960 cc/min) and loaded output of 25 cu in/min (410 cc/min). The pump will consume air at a rate of 3 gal/min (700 L/min) unloaded and 2.5 gal/min (580 L/min) loaded. The air intake port will be 1/4" (6.35mm) BSP and the oil port will be 3/8" (9.5 mm) NPT. The pump shall be protected with an internal safety valve. In addition, the pump must have an external safety valve, factory set at 10,500 psi (720 bar).	✓	
<b>2.23 Tank and fluid</b> The oil tank shall contain 1.8 qt. (1.7 L) to allow a proper cooling of the hydraulic fluid and shall be provided with an automatic air vent. The pump shall be designed for the use of non-toxic mineral oil. The effective oil contents shall be no less than 1.7 qt. (1.6 L).	✓	
<b>2.24 Weight and Dimensions</b> The complete pump's ready to use weight will be 15 lbs. (6.5 kg). The dimensions of the complete pump unit shall be within (LxWxH): 13 1/2 in x 5 in x 8 1/4 in (343 mm x 127 mm x 210 mm).	✓	
<b>2.25 The sound level</b> The sound level of the pump/compressor must not exceed 85 dB measured at a distance of 13 ft (4 meters).	✓	
<b>2.26 Hydraulic Hoses</b> The simultaneous hydraulic pump shall be provided with two (2) sets of thirty-two foot hoses. The supplied hose shall be adequately reinforced to provide a four to one (4:1) safety factor.	✓	

Specifications	Bidder Complies	
	Yes	No
<p>The hydraulic hoses must have a minimum warranty of one (1) year. The hydraulic hoses as supplied with this system shall be dual flow coaxial type allowing hydraulic fluid to flow from the power unit to the component and return. Hoses shall be color coded for ease of identification. The colors shall be agreed upon between vendor and purchaser.</p> <p><b>2.27 Hose Couplings</b>  Hose shall have a single male connection on the pump end and a female connection on the tool end of the twist lock type. They shall be designed to prevent the inadvertent connection of the wrong hose to the component. The connections shall be positive twist lock type and be pressure tested to four times pump operating pressure. <u>Couplings will allow 360-degree rotation of hoses while attached without entangling.</u> These connections shall be compatible with all other components of the rescue system bid.</p>	✓	
<p><b>GENERAL CONDITIONS (HYDRAULIC CUTTING TOOLS)</b>  The following is a description of the rescue tool system that will meet the minimum requirements of this specification. These specifications are to be considered as minimum and are expressed as such. If the rescue tool(s) and component parts delivered under this contract do not comply with these specifications, the tools will not be accepted. Any vendor failing to meet his obligations required as part of this contract may be forced to pay damages to this agency. Such damages shall not exceed the amount required to obtain a replacement product or tool meeting the requirements of this specification.</p>	✓	
<p><b>3.00 Hydraulic Cutting Tool #1</b>  The tool must be UL listed. This tool must have successfully completed the rescue tool test program certified by Underwriters Laboratories, Inc. The tool must be capable of withstanding a static over-load pressure of twice the working pressure. This 2:1 over-load ratio is a UL requirement to provide maximum safety to the operator. This tool must also be compliant with NFPA 1936 Standard on Powered Rescue Tool Systems, 1999 edition. The tool must be a "one-person" operated lightweight tool, which means that one person will be able to position, guide and operate the tool without the assistance of other people. For this reason the tool will be equipped with a carrying handle, which allows the operator to keep the tool evenly balanced in all positions even with one hand. Couplers must be one hand operated, flat-face, non-drip couplings with built-in automatic locking feature. Couplers must be supplied with aluminum protective dust caps. Hose will be connected to the rear of the dead man's handle, leading away in line with the tool avoiding hindrance to the operator. Hose connection shall be protected so that the connection is not accessible or susceptible to damage. Hose shall be equipped with protective bend restrictors.</p>	✓	
<p><b>3.02 Cutting Tool Control Mechanism</b>  The tool must be activated by means of a rotary dead man's handle, operated by a twist of the wrist. For ease of operation, the handle shall have a maximum rotation of 20° in either direction. When the dead man's handle is released, it must return to the neutral position</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p>automatically. The dead man's handle will provide one-handed control of opening and closing functions. The dead man's handle shall provide 360-degree access to the operator allowing operation of the tool in any position. The dead man's handle must be located in such a way that it can be operated, guided and supported easily by right and left handed operators without having to change the position of the hands, even when wearing gloves. The dead man's control must be capable of withstanding 6000 endurance cycles, one cycle consisting of opening and closing the tool.</p>		
<p><b>3.03 <u>Carrying Handle</u></b>  The distance between the control handle and the U-shaped carrying handle will be no less than 9" (229 mm) to provide a natural position for both hands during operation and to allow for complete control of the tool. The tool shall remain in a balanced horizontal position when held only by the carrying handle. In order to provide improved grip in all weather conditions, the carrying handle must have a non-slip surface. LED lighting powered by a single AA battery shall be integrated into the carrying handle to allow for better visibility during low light conditions.</p>	✓	
<p><b>3.04 <u>Safety and Protection</u></b>  For maximum safety of the operator all cutters, spreaders and rams shall contain a safety relief valve to protect the tool against over pressurization caused by accidentally disconnecting the return line of the tool. For operator safety, a cover must protect all moving parts such as yoke and levers.</p>	✓	
<p><b>3.05 <u>Hinge bolt system</u></b>  The cutter will contain a low profile locking hinge bolt system. This low profile system allows greater precision and control on every cut with better access into tight spaces by a design that keeps the hinge bolt assembly within the blade holder profile. The hinge bolt system must require a torque of no more than 38 ft-lb (50Nm) and have a set of protective covers in place over the hinge bolt assembly.</p>	✓	
<p><b>3.06 <u>Blades</u></b>  The blades of the cutter will be fabricated from high-grade tool steel, hardened to improve durability. The blades will be constructed so as to be re-ground. The blades will be manufactured with a recess in the cutting edge of 1.1 inches (28mm). The blades must be capable of shearing 13/16inch ASTM A108 round stock (in the recess), Ø 1-7/8 inches O.D. x Ø1-5/8 inches I.D. A513-91A T5 tube, 2 inches x 2 inches x <sup>3</sup>/<sub>16</sub> inch ASTM A-500-90 square section, 2½ inches x 1½ inches x 1/8inch ASTM A-513 rectangular section, 2-3/8 inches x 3/16 inch ASTM A569 steel plate. In addition the NFPA 1936 level performance rating for this tool shall be: A6 B3 C5 D6 E5.</p>	✓	
<p><b>3.07 <u>Power Source</u></b>  Hydraulic power must be delivered from a gasoline or electrically driven pump. Alternatively, a manually operated pump or an air driven pump may be used. To provide maximum ease of use (lightest weight) to the operator the pump must be a completely separate unit from the rescue tool.</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p><b>3.08 Forces</b> The maximum cutting force exerted will be no less than 63,400 lbf (282 kN) in the recess, and 41,000 lbf (182.4 kN) in the middle of the blades.</p>	✓	
<p><b>3.09 Weight &amp; Dimensions</b> The weight of an operable tool may not exceed 27.5 pounds (12.5kg) including hydraulic oil. The maximum opening of the blades will be no less than 5¼ inches (134 mm) measured at the tips. The length of the tool including hose bend radius shall not exceed 30 ¼ inches (769mm). Width of cutter shall not exceed 8 ¾ inches (223 mm). Height shall not exceed 7 ¼ inches (185 mm).</p>	✓	
<p><b>3.10 Corrosion &amp; Wear Protection</b> Internal and external aluminum parts of the tool that are susceptible to wear or corrosion must be anodized to provide maximum durability. The tool must be capable of withstanding a 10-day salt spray test, and still be able to function normally. Blades must have a method of lubrication through the hinge bolt using a grease gun.</p>	✓	
<p><b>4.00 Hydraulic Cutter # 2</b> The tool must be capable of withstanding a static over-load pressure of twice the working pressure. This 2:1 over-load ratio is a requirement to provide maximum safety to the operator. The tool must be a "one-person" operated lightweight tool, which means that one person will be able to position, guide and operate the tool without the assistance of other people. For this reason the tool will be equipped with a carrying handle, which allows the operator to keep the tool evenly balanced in all positions even with one hand. Couplers must be one hand operated, flat-face, non-drip couplings with built-in automatic locking feature. Couplers must be supplied with aluminum protective dust caps. Hose will be connected to the rear of the dead man's handle, leading away in line with the tool avoiding hindrance to the operator. Hose connection shall be protected so that the connection is not accessible or susceptible to damage. Hoses shall be equipped with protective bend restrictors.</p>	✓	
<p><b>4.01 Cutting Tool Control Mechanism</b> The tool must be activated by means of a rotary dead man's handle, operated by a twist of the wrist. For ease of operation, the handle shall have a maximum rotation of 20° in either direction. When the dead man's handle is released, it must return to the neutral position automatically. The dead man's handle will provide one-handed control of opening and closing functions. The dead man's handle shall provide 360-degree access to the operator allowing operation of the tool in any position. The dead man's handle must be located in such a way that it can be operated, guided and supported easily by right and left handed operators without having to change the position of the hands, even when wearing gloves. The dead man's control must be capable of withstanding 6000 endurance cycles, one cycle consisting of opening and closing the tool.</p>	✓	
<p><b>4.02 Carrying handle</b></p>		



Specifications	Bidder Complies	
	Yes	No
<p>The distance between the dead man's handle and the U-shaped carrying handle will be at least twelve (12) inches (305 mm) to provide a natural position for both hands during operation and to allow for complete control of the tool. The tool shall remain in a balanced horizontal position when held only by the carrying handle. In order to provide improved grip in all weather conditions, the carrying handle must have a non-slip surface. LED lighting powered by a single AA battery shall be integrated into the carrying handle to allow for better visibility during low light conditions.</p>	✓	
<p><b>4.03 Safety and Protection</b>  For maximum safety of the operator all cutters, spreaders and rams shall contain a safety relief valve to protect the tool against over pressurization caused by accidentally disconnecting the return line of the tool. For operator safety, a cover must protect all moving parts such as yoke and levers.</p>	✓	
<p><b>4.04 Hinge bolt system</b>  The cutter will contain a low profile locking hinge bolt system. This low profile system allows greater precision and control on every cut with better access into tight spaces by a design that keeps the hinge bolt assembly within the blade holder profile. The hinge bolt system must require a torque of no more than 38 ft-lb (50Nm) and have a set of protective covers in place over the hinge bolt assembly.</p>	✓	
<p><b>4.05 Blades</b>  The blades of the cutter will be fabricated from high-grade tool steel, hardened to improve durability. The blades shall be manufactured from forged bar stock by CNC machining technology. The design of the blade shall be derived to meet the requirement of today's rescuer facing New Car Technology. The blades will be constructed for the capability to be re-ground.</p>	✓	
<p><b>4.06 Power Source</b>  Hydraulic power at a pressure of 10,500 psi (720 bar) must be delivered from a gasoline or an electrically driven pump. Alternatively, a manually operated pump or an air driven pump may be used. To provide maximum ease of use (lightest weight) to the operator, the pump must be a completely separate unit from the rescue tool.</p>	✓	
<p><b>4.07 Forces</b>  The maximum cutting force exerted will be no less than 208,300 lbf (927 kN) in the recess of the blades, near the hinge bolt.</p>	✓	
<p><b>4.08 Weight and dimensions</b>  The maximum opening of the blades will be no less than 7-1/8 inches (181 mm) measured at the tips. Length of tool including hose bend radius shall not exceed 32 1/2 inches (828mm). Width shall not exceed 10 1/4 inches (261mm). Height shall not exceed 7 1/2 inches (191mm). Weight ready to use shall not exceed 40 1/2 pounds (18.4 kg).</p>	✓	
<p><b>4.09 Corrosion and wear protection</b></p>		

Specifications	Bidder Complies	
	Yes	No
<p>Internal and external aluminum parts of the tool that are susceptible to wear or corrosion must be anodized to provide maximum durability. The tool must be capable of withstanding a 10-day salt spray test, and still be able to function normally.</p>	✓	
<p><b>5.0 Hydraulic Cutter # 3</b></p> <p><b>5.1 General Conditions</b></p> <p>The tool must be UL Listed: This tool must have successfully completed the rescue tool test program certified by Underwriters Laboratories, Inc. The tool must be capable of withstanding a static over-load pressure of twice the working pressure. This 2:1 over-load ratio is a UL requirement to provide maximum safety to the operator. This tool must <i>also</i> be compliant with <u>NFPA 1936 Standard on Powered Rescue Tools, 2005 edition</u>. The tool must be a "one-person" operated lightweight tool, which means that one person will be able to position, guide and operate the tool without the assistance of other people. For this reason the tool will be equipped with a carrying handle, which allows the operator to keep the tool evenly balanced in all positions even with one hand. To eliminate connection errors and reduce deployment time, the tool shall be designed for use and supplied with a factory installed single, compact hydraulic coupler. This single male coupler shall incorporate a coaxial design with the pressure line inside of the return line, allowing for simultaneous connection of both lines with one connection motion. The coupler must be of a flat-face, non-drip style, with a protective aluminum dust cap attached to the tool. This coupler shall be located to the rear of the deadman's handle, in line with the center axis of the tool, avoiding hindrance to the operator.</p>	✓	
<p><b>5.2 Hydraulic Cutter Control Mechanism</b></p> <p>The tool must be activated by means of a rotary deadman's handle grip, operated by a twist of the wrist. For ease of operation, the handle shall have a maximum rotation of 20° in either direction. When the deadman's handle grip is released, it must return to the neutral position automatically. The deadman's handle design will provide one-handed ergonomic control of opening and closing functions that does not rely on thumb (single digit) operation. The deadman's handle shall provide 360° access to the operator allowing operation of the tool in any position. The deadman's handle must be located in such a way that it can be operated, guided and supported easily by right and left handed operators without having to change the position of the hands, even when wearing gloves. The deadman's control must be capable of withstanding 6000 endurance cycles, one cycle consisting of opening and closing the tool.</p>	✓	
<p><b>5.3 Carrying Handle</b></p> <p>To assist the operator and increase safety while working in dark or poorly lit circumstances the carrying handle shall have integrated LED lights. The lights shall be focused on the working area of the tool and shall be completely weatherproof. Lights should be powered by a field replaceable single AA battery and shall provide a minimum of six continuous hours of illumination. The distance between the dead man's handle and the U-shaped carrying handle will be at least 12" (305 mm) to provide a natural position for both hands during operation and to allow for complete control of the tool. The tool shall remain in a balanced horizontal position when held only by the carrying handle. In order to provide improved grip in all weather conditions, the carrying handle must have a non-slip surface</p>	✓	
<p><b>5.4 Safety and Protection</b></p>		

Specifications	Bidder Complies	
	Yes	No
<p>For maximum safety of the operator all cutters, spreaders and rams shall contain a safety relief valve to protect the tool against sudden load shift. All moving parts such as yoke and levers must be protected by a cover for the safety of the operator.</p>	✓	
<p><b>5.5 Hinge Bolt System</b>            To allow better access into tight spaces the cutter will contain a low profile locking hinge bolt system that does not extend beyond the blade holder profile. The bolt and nut must be secured by means of two adjustable interlocking rings that are recessed and protected from damage. Any hinge bolt systems that use any style of lock washers, or lock nuts are not acceptable. Bolt heads or nuts that protrude beyond the blade holders and impede tool operation are not acceptable. This low profile, hinge bolt locking system allows greater precision and control on every cut. For ease of maintenance, the hinge bolt system must not use any blade shims, and the factory recommended torque may not exceed 38 ft-lb (50Nm). For extended tool life the cutter shall have a set of corrosion resistant steel covers in place to shield the blade holders from damage.</p>	✓	
<p><b>5.6 Blades</b>            The blades of the cutter will be fabricated from high grade tool steel, hardened to improve durability. The blades shall be manufactured from forged bar stock by CNC machining technology. The design of the blade shall be derived to meet the requirement of today's rescuer facing <i>New Car Technology</i>. The blades will be constructed so as to be re-grindable.</p>	✓	
<p><b>5.7 Pump</b>            Hydraulic power at a maximum pressure of 10,500 psi (720 bar) must be delivered from a gasoline or an electrically driven pump. Alternatively, a manually operated pump or an air driven pump may be used. To provide maximum ease of use (lightest weight) to the operator, the pump must be a completely separate unit from the rescue tool.</p>	✓	
<p><b>5.8 Forces</b>            The maximum cutting force exerted will be no less than 228,855 lbf. (1018 kN) in the recess of the blades, near the hinge bolt. The NFPA performance level rating for this tool shall be A8 B7 C7 D8 E8.</p>	✓	
<p><b>5.9 Weight and Dimensions</b>            The maximum opening of the blades will be no less than 8 5/8" (219 mm) measured at the tips. Length of tool not to exceed 32 1/2" (825 mm); Width not to exceed 10 3/8" (264 mm); Height not to exceed 7 5/8" (194 mm). Weight ready to use not to exceed 43 lbs (19.5 kg).</p>	✓	
<p><b>5.9 Corrosion and Wear Protection</b>            Internal and external aluminum parts of the tool that are susceptible to wear or corrosion must be protected by anodization to provide maximum durability. The tool must be capable of withstanding a 10 day salt spray test, and still be able to function normally.</p>	✓	
<p><b>5.10 Lifetime Warranty</b>            The manufacturer shall warrant this tool against all defects in material and workmanship for as long as owned by the original purchaser.</p>	✓	
<p><b>6.00 Hydraulic Mini Cutter</b>            The tool must be capable of withstanding a static over-load pressure of twice the working pressure. The tool must be a "one-person" operated lightweight tool, which means that one person will be able to position, guide and operate the tool without the assistance of other</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p>people. Couplers must be one hand operated, flat-face, non-drip couplings with built-in automatic locking feature. Couplers must be supplied with aluminum protective dust caps. Hose will be connected to the rear of the dead-man's handle, leading away in line with the tool avoiding hindrance to the operator. Hose connection shall be protected so that the connection is not accessible or susceptible to damage. Hose shall be equipped with protective bend restrictors.</p>		
<p><b>6.01 <u>Mini Cutting Tool Control Mechanism</u></b>  The tool must be activated by means of a toggle-type, push button dead-man's handle, operated by depressing the push button by one's thumb or fingers. When the dead-man's push button is released, it must return to the neutral position automatically. The dead-man's push button will provide one-handed control of opening and closing functions. The dead-man's push button must be located in such a way that it can be operated, guided and supported easily by right and left handed operators without having to change the position of the hands, even when wearing gloves. The dead-man's push button shall be inset into the handle in such a way that inadvertent activation is not possible.</p>	✓	
<p><b>6.02 <u>Safety and Protection</u></b>  For maximum safety of the operator the cutter shall contain a safety relief valve to protect the tool against over pressurization caused by accidentally disconnecting the return line of the tool. The tool shall have a built in no return check valve to hold the load when used to spread or push.</p>	✓	
<p><b>6.03 <u>Blades</u></b>  The blades of the cutter will be fabricated from high-grade tool steel, hardened to improve durability. The blades will be constructed so as to be re-ground. The blades will be manufactured with serrations in the cutting edge. The outside edge of the blades will have serrations to allow for spreading/pushing operations.</p>	✓	
<p><b>6.04 <u>Power Source</u></b>  Hydraulic power must be delivered from a gasoline or electrically driven pump. Alternatively, a manually operated pump or an air driven pump may be used. To provide maximum ease of use (lightest weight) to the operator the pump must be a completely separate unit from the rescue tool.</p>	✓	
<p><b>6.05 <u>Forces</u></b>  The maximum cutting force exerted will be no less than 29,225 lbf (130 kN). The maximum spreading force exerted will be no less than 7,000 lbf (31 kN).</p>	✓	
<p><b>6.06 <u>Weight &amp; Dimensions</u></b>  The weight of an operable tool may not exceed 8 pounds (3.6kg) including hydraulic oil. The maximum opening of the blades will be no less than 1 ½ inches (40 mm) measured at the tips. The length of the tool not including hose bend radius is not to exceed 13 inches (327mm). Width shall not exceed 2 ¾ inches (68 mm). Height shall not exceed 5 inches (125 mm).</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p><b>6.07 <u>Corrosion &amp; Wear Protection</u></b> Internal and external aluminum parts of the tool that are susceptible to wear or corrosion must be anodized to provide maximum durability.</p>	✓	
<p><b>7.0 Special Materials Hydraulic Cutter # 1</b></p> <p><b>7.1 <u>General Conditions</u></b> The tool must be capable of withstanding a static over-load pressure of twice the working pressure. The tool must be a "one-person" operated lightweight tool, which means that one person will be able to position, guide and operate the tool without the assistance of other people. To eliminate connection errors and reduce deployment time the tool shall be supplied with only one compact hydraulic coupler. This single coupler shall have a coaxial design with the pressure line inside of the return line to allow for rapid simultaneous connection of both lines with one connection motion. The coupler design shall incorporate an automatic return valve to permit connection and disconnection of the tool to the hose while under flow. The coupler must be a flat-face, non-drip coupling with built-in automatic locking feature and be one hand operated. The coupler shall permit an unhindered 360° rotation at the connection point to avoid twisting or stressing the hose. Coupler must be supplied with a protective aluminum dust cap. The hose connection will be to the rear of the dead man's handle, leading away in line with the center axis of the tool, avoiding hindrance to the operator.</p>	✓	
<p><b>7.2 <u>Hydraulic Cutter Control Mechanism</u></b> The tool must be activated by means of a rotary dead man's handle grip, operated by a twist of the wrist. For ease of operation, the handle shall have a maximum rotation of 20° in either direction. When the dead man's handle grip is released, it must return to the neutral position automatically. The dead man's handle design will provide one-handed ergonomic control of opening and closing functions that does not rely on thumb (single digit) operation. The dead man's handle shall provide 360° access to the operator allowing operation of the tool in any position. The dead man's handle must be located in such a way that it can be operated, guided and supported easily by right and left handed operators without having to change the position of the hands, even when wearing gloves. The dead man's control must be capable of withstanding 6000 endurance cycles, one cycle consisting of opening and closing the tool.</p>	✓	
<p><b>7.3 <u>Carrying Handle</u></b> To assist the operator the tool shall be supplied with an adjustable rotating carrying handle capable of moving to any position.</p>	✓	
<p><b>7.4 <u>Safety and Protection</u></b> For maximum safety of the operator the cutter shall contain a safety relief valve to protect the tool against over pressurization.</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p><b>7.5 Cutting Blades</b>  The blades of the cutter will be inserts fabricated from high grade tool steel, hardened to improve durability. For longer service life the inserts will be constructed so as to have two useable cutting edges. The blades will be easily removed and rotated to use the second cutting edge. Blades are specially designed to cut hardened round stock rated at:</p> <p>Rebar up to 5/8" (16 mm) with a hardness of 28 HRc  Padlocks up to 7/16" (12 mm) with a hardness of 49 HRc  Padlocks up to 3/4" (20 mm) with a hardness of 75 HRb  Chain up to 5/16" (8.5 mm) with hardness of 60 HRc</p>	✓	
<p><b>7.6 Pump</b>  Hydraulic power must be delivered from an external hydraulic pump that is to be manufactured by the same company as this cutter. It shall be designed specifically for use with rescue tools, and be capable of supplying the full operating pressure of 10,500 psi (720 bar). The hydraulic pump must be designed to be compatible with a mineral oil based system.</p>	✓	
<p><b>7.7 Forces</b>  The maximum cutting force exerted will be no less than 43,388 lbf. (193 kN).</p>	✓	
<p><b>7.8 Weight and Dimensions</b>  The ready to use weight may not exceed 14.3 lbs. (6.5 kg). The length of the tool is not to exceed 15.3" (389 mm); width not to exceed 4.5" (114 mm); height not to exceed 9.2" (234 mm).</p>	✓	
<p><b>7.9 Corrosion and Wear Protection</b>  Internal and external aluminum parts of the tool that are susceptible to wear or corrosion must be anodized to provide maximum durability.</p>	✓	
<p><b>7.10 Lifetime Warranty</b>  The manufacturer shall warrant this tool against all defects in material and workmanship for as long as owned by the original purchaser.</p>	✓	
<p><b>GENERAL CONDITIONS</b>  <b>(HYDRAULIC SPREADING TOOLS)</b>  <b>8.00 Hydraulic Spreader # 1</b>  The tool must be UL listed. This tool must have successfully completed the rescue tool test program certified by Underwriters Laboratories, Inc. The tool must be capable of performing 1000 endurance cycles, whereby one cycle consists of completely opening and closing the tool at its maximum pressure during its stroke. The tool must be capable of withstanding a static over-load pressure of twice the working pressure. This 2:1 over-load ratio is a UL requirement to provide maximum safety to the operator. This tool must also be compliant with NFPA 1936 Standard on Powered Rescue Tool Systems, 1999 edition. The tool must be a "one-person"</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p>operated lightweight tool, which means that one person will be able to position, guide and operate the tool without the assistance of other people. For this reason the tool will be equipped with a carrying handle, which allows the operator to keep the tool evenly balanced in all positions even with one hand. Couplers must be one hand operated, flat-face, non-drip couplings with built-in automatic locking feature. Couplers must be supplied with aluminum protective dust caps. Hose will be connected to the rear of the dead-man's handle, leading away in line with the tool avoiding hindrance to the operator. Hose connection shall be protected so that the connection is not accessible or susceptible to damage. Hose shall be equipped protective bend restrictors.</p>		
<p><b>8.01 <u>Hydraulic Spreader Control Mechanism</u></b>  The tool must be activated by means of a rotary dead-man's handle, operated by a twist of the wrist. For ease of operation, the handle shall have a maximum rotation of 20° in either direction. When the dead-man's handle is released, it must return to the neutral position automatically. The dead-man's handle will provide one-handed control of opening and closing functions. The dead-man's handle shall provide 360-degree access to the operator allowing operation of the tool in any position. The dead-man's handle must be located in such a way that it can be operated, guided and supported easily by right and left handed operators without having to change the position of the hands, even when wearing gloves. The dead-man's control must be capable of withstanding 6000 endurance cycles, one cycle consisting of opening and closing the tool.</p>	✓	
<p><b>8.02 <u>Carrying Handle</u></b>  The distance between the dead-man's handle and the U-shaped carrying handle will be no less than 10 ½ inches (267 mm) to provide a natural position for both hands during operation and to allow for complete control of the tool. The tool shall remain in a balanced horizontal position when held only by the carrying handle. In order to provide improved grip in all weather conditions, the carrying handle must have a non-slip surface. LED lighting powered by a single AA battery shall be integrated into the carrying handle to allow for better visibility during low light conditions.</p>	✓	
<p><b>8.03 <u>Safety and Protection</u></b>  For maximum safety of the operator all cutters, spreaders and rams shall contain a safety relief valve to protect the tool against over pressurization caused by accidentally disconnecting the return line of the tool. The tool will have automatic, non-return check valves built in so that the tool will hold the load when the dead-man's handle is released, whether the tool is spreading or pulling. If pressure should drop because of interruption of the power source for any reason, the tool must hold the load. A cover for the safety of the user must protect all moving parts such as yoke and levers.</p>	✓	
<p><b>8.04 <u>Spreader Arms</u></b>  The arms and yoke of the spreader must be manufactured out of extremely high tensile aluminum alloy, anodized to offer protection against corrosion. The arms of the spreader will be equipped with investment cast hardened tool steel tips, specially designed for quick field replacement without the use of any tools. Spring-loaded tip locking pins will be incorporated</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p>into the arms so that no loose parts can be lost. The tips will have serrations on both the inside and the outside for a superior grip in spreading or crushing operations.</p>		
<p><b>8.05 Power Source</b>  Hydraulic power must be delivered from a gasoline or electrically driven pump. Alternatively, a manually operated pump or an air driven pump may be used. To provide maximum ease of use (lightest weight) to the operator the pump must be a completely separate unit from the rescue tool.</p>	✓	
<p><b>8.06 Forces</b>  The arms of the spreader will have a maximum opening width of 27 ¼ inches (692 mm), must exert no less than 8,800 lbf (39.1 kN) at the tips, and at least 19,595 lbf (87.2 kN) at the base of the tips. Maximum pulling force at full opening will be at least 11,200 lbf (49.8 kN).</p>	✓	
<p><b>8.07 Method of Measuring Forces</b>  The spreading force must be measured at the effective tip area on the moving arms, perpendicular to the centerline of the tool when in an unfixed state. This measurement of force was calculated and approved by UL and measures the actual force created by the tool when used by the operator.</p>	✓	
<p><b>8.08 Weight &amp; Dimensions</b>  The weight of the ready-for-use tool may not exceed 42 ½ pounds (19.5 kg) including hydraulic oil. Length of tool including hose bend radius shall not exceed 33 inches (839 mm). Width shall not exceed 11 ½ inches (293 mm). Height shall not exceed 8 inches (204 mm).</p>	✓	
<p><b>8.09 Accessories</b>  The following accessories will be available:  -<u>Pulling attachments</u>  Pulling adapters and chains will be provided for pulling operations. The adapters must have the same quick-change design as the spreading tips. Pulling chains will be equipped with shortening hooks. Safety factor of the chain set will be at least 2 times the maximum pulling force of the tool.  -<u>Cutting Tip</u>  An optional cutting tip for cutting sheet metals will be available. The cutting tip must have the same quick-change design as the spreading tips.  -<u>Additional Spreading Tips</u>  Additional spreader tips shall be bid for each hydraulic spreader.</p>	✓	
<p><b>8.10 Corrosion &amp; Wear Protection</b>  Internal and external aluminum parts of the tool that are susceptible to wear or corrosion must be anodized to provide maximum durability. The tool must be capable of withstanding a 10-day salt spray test, and still be able to function normally.</p>	✓	



Specifications	Bidder Complies	
	Yes	No
<p><b>9.00 <u>Hydraulic Spreader #2</u></b>  The tool must be UL listed. This tool must have successfully completed the rescue tool test program certified by Underwriters Laboratories, Inc. The tool must be capable of performing 1000 endurance cycles, whereby one cycle consists of completely opening and closing the tool at its maximum pressure during its stroke. The tool must be capable of withstanding a static over-load pressure of twice the working pressure. This 2:1 over-load ratio is a UL requirement to provide maximum safety to the operator. This tool must also be compliant with NFPA 1936 Standard On Powered Rescue Tool Systems, 1999 edition. The tool must be a "one-person" operated lightweight tool, which means that one person will be able to position, guide and operate the tool without the assistance of other people. For this reason the tool will be equipped with a carrying handle, which allows the operator to keep the tool evenly balanced in all positions even with one hand. Couplers must be one hand operated, flat-face, non-drip couplings with built-in automatic locking feature. Couplers must be supplied with aluminum protective dust caps. Hose will be connected to the rear of the dead-man's handle, leading away in line with the tool avoiding hindrance to the operator. Hose connection shall be protected so that the connection is not accessible or susceptible to damage. Hoses shall be equipped with protective bend restrictors.</p>	✓	
<p><b>9.01 <u>Hydraulic Spreader Control Mechanism</u></b>  The tool must be activated by means of a rotary dead-man's handle, operated by a twist of the wrist. For ease of operation, the handle shall have a maximum rotation of 20° in either direction. When the dead-man's handle is released, it must return to the neutral position automatically. The dead-man's handle will provide one-handed control of opening and closing functions. The dead-man's handle shall provide 360-degree access to the operator allowing operation of the tool in any position. The dead-man's handle must be located in such a way that it can be operated, guided and supported easily by right and left handed operators without having to change the position of the hands, even when wearing gloves. The dead-man's control must be capable of withstanding 6000 endurance cycles, one cycle consisting of opening and closing the tool.</p>	✓	
<p><b>9.02 <u>Carrying Handle</u></b>  The distance between the dead-man's handle and the U-shaped carrying handle will be no less than 12 inches (305 mm) to provide a natural position for both hands during operation and to allow for complete control of the tool. The tool shall remain in a balanced horizontal position when held only by the carrying handle. In order to provide improved grip in all weather conditions, the carrying handle must have a non-slip surface. LED lighting powered by a single AA battery shall be integrated into the carrying handle to allow for better visibility during low light conditions.</p>	✓	
<p><b>9.03 <u>Safety and Protection</u></b>  For maximum safety of the operator all cutters, spreaders and rams shall contain a safety relief valve to protect the tool against over pressurization caused by accidentally disconnecting the return line of the tool. The tool will have automatic, non-return check valves built in so that the tool will hold the load when the dead-man's handle is released, whether the tool is spreading or pulling. If pressure should drop because of interruption of the power source for any reason, the</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p>tool must hold the load. A cover for the safety of the user must protect all moving parts such as yoke and levers.</p>		
<p><b>9.04 <u>Spreader Arms</u></b>  The arms and yoke of the spreader must be manufactured out of extremely high tensile aluminum alloy, anodized to offer protection against corrosion. The arms of the spreader will be equipped with investment cast hardened tool steel tips, specially designed for quick field replacement without the use of any tools. Spring-loaded tip locking pins will be incorporated into the arms so that no loose parts can be lost. The tips will have serrations on both the inside and the outside for a superior grip in spreading or crushing operations.</p>	✓	
<p><b>9.05 <u>Power Source</u></b>  Hydraulic power must be delivered from a gasoline or electrically driven pump. Alternatively, a manually operated pump or an air driven pump may be used. To provide maximum ease of use (lightest weight) to the operator the pump must be a completely separate unit from the rescue tool.</p>	✓	
<p><b>9.06 <u>Forces</u></b>  The arms of the spreader will have a maximum opening width of 32 ¼ inches (832 mm), must exert no less than 33,000 lbf (146.8 kN) of force in the base of the tips at maximum opening. Maximum pulling force shall be no less than 14,300 lbf (63.6 kN).</p>	✓	
<p><b>9.07 <u>Method of Measuring Forces</u></b>  The spreading force must be measured at the effective tip area on the moving arms, perpendicular to the centerline of the tool when in an unfixated state. This measurement of force was calculated and approved by UL and measures the actual force created by the tool when used by the operator.</p>	✓	
<p><b>9.08 <u>Weight &amp; Dimensions</u></b>  The weight of the ready-for-use tool may not exceed 58 ½ pounds (27 kg) including hydraulic oil. Length of tool including hose bend radius shall not exceed 37½ inches (953 mm).  Width shall not exceed 12 ½ inches (318 mm).  Height shall not exceed 9 ¼ inches (235 mm).</p>	✓	
<p><b>9.09 <u>Accessories</u></b>  The following accessories will be available:  -<u>Pulling attachments</u>  Pulling adapters and chains will be provided for pulling operations. The adapters must have the same quick-change design as the spreading tips. Pulling chains will be equipped with shortening hooks. Safety factor of the chain set will be at least 2 times the maximum pulling force of the tool.  -<u>Cutting Tip</u>  An optional cutting tip for cutting sheet metals will be available. The cutting tip must have the same quick-change design as the spreading tips.  -<u>Additional Spreading Tips</u>  Additional spreader tips shall be bid for each spreader.</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p><b>9.10 <u>Corrosion &amp; Wear Protection</u></b>            Internal and external aluminum parts of the tool that are susceptible to wear or corrosion must be anodized to provide maximum durability. The tool must be capable of withstanding a 10-day salt spray test, and still be able to function normally.</p>	✓	
<p><b>10.0 Hydraulic Spreader # 3</b></p> <p><b>10.1 <u>General Conditions:</u></b>            The tool must be UL listed. This tool must have successfully completed the rescue tool test program certified by Underwriters Laboratories, Inc. The tool must be capable of withstanding a static over-load pressure of twice the working pressure. This 2:1 over-load ratio is a UL requirement to provide maximum safety to the operator This tool must also be compliant with NFPA 1936 Standard on Powered Rescue Tools, 2005 edition. The tool must be capable of withstanding a static over-load pressure of twice the working pressure. This 2:1 over-load ratio is a requirement to provide maximum safety to the operator. The tool must be a "one-person" operated lightweight tool, which means that one person will be able to position, guide and operate the tool without the assistance of other people. For this reason the tool will be equipped with a carrying handle, which allows the operator to keep the tool evenly balanced in all positions even with one hand. To eliminate connection errors and reduce deployment time the tool shall be supplied with only one compact hydraulic coupler. This single coupler shall have a coaxial design with the pressure line inside of the return line to allow for rapid simultaneous connection of both lines with one connection motion. The coupler design shall incorporate an automatic return valve to permit connection and disconnection of the tool to the hose while under flow. The coupler must be a flat-face, non-drip coupling with built-in automatic locking feature and be one hand operated. Coupler must be supplied with a protective aluminum dust cap. The hose connection will be to the rear of the dead man's handle, leading away in line with the center axis of the tool, avoiding hindrance to the operator</p>	✓	
<p><b>10.2 <u>Hydraulic Spreader Control Mechanism:</u></b>            The tool must be activated by means of a rotary dead man's handle, operated by a twist of the wrist. For ease of operation, the handle shall have a maximum rotation of 20° in either direction. When the dead man's handle is released, it must return to the neutral position automatically. The dead man's handle will provide one-handed control of opening and closing functions. The dead man's handle shall provide 360 degree access to the operator allowing operation of the tool in any position. The deadman's handle must be located in such a way that it can be operated, guided and supported easily by right and left handed operators without having to change the position of the hands, even when wearing gloves. The dead man's control must be capable of withstanding 6000 endurance cycles, one cycle consisting of opening and closing the tool.</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p><b>10.3 <u>Carrying Handle:</u></b>  The distance between the dead man's handle and the U-shaped carrying handle will be no less than 10 1/2" (267 mm) to provide a natural position for both hands during operation and to allow for complete control of the tool. The tool shall remain in a balanced horizontal position when held only by the carrying handle. In order to provide improved grip in all weather conditions, the carrying handle must have a non-slip surface. To assist the operator and increase safety while working in dark or poorly lit circumstances the carrying handle shall have integrated LED lights. The lights shall be focused on the working area of the tool and shall be completely weatherproof. Lights should be powered by a field replaceable single AA battery and shall provide a minimum of six continuous hours of illumination.</p>	✓	
<p><b>10.4 <u>Safety and Protection</u></b>  For maximum safety of the operator all cutters, spreaders and rams shall contain a safety relief valve to protect the tool against over pressurization caused by sudden load shift on the tool. The tool will have automatic, non-return check valves built in so that the tool will hold the load when the dead man's handle is released, whether the tool is spreading or pulling. If pressure should drop because of interruption of the power source for any reason, the tool must hold the load. All moving parts such as yoke and levers must be protected by a cover for the safety of the user.</p>	✓	
<p><b>10.5 <u>Arms</u></b>  The arms and yoke of the spreader must be manufactured out of extremely high tensile aluminum alloy, anodized to offer protection against corrosion. The arms of the spreader will be equipped with investment cast hardened tool steel tips, specially designed for quick field replacement without the use of any tools. Spring-loaded tip locking pins will be incorporated into the arms so that no loose parts can be lost. The tips will have serrations on both the inside and the outside for a superior grip in spreading or crushing operations.</p>	✓	
<p><b>10.6 <u>Pump</u></b>  Hydraulic power must be delivered from a gasoline or electrically driven pump. Alternatively, a manually operated pump or an air driven pump may be used. To provide maximum ease of use (lightest weight) to the operator the pump must be a completely separate unit from the rescue tool.</p>	✓	
<p><b>10.7 <u>Forces</u></b>  The arms of the spreader will have a maximum opening width of 27 3/8" (695 mm), must exert no less than 8,476 lbf (38 kN) at the tips, and at least 33,625 lbf (150 kN) at the base of the tips. Maximum pulling force at full opening will be at least 12,170 lbf (54 kN).</p>	✓	
<p><b>10.8 <u>Method of Measuring Forces</u></b>  The spreading force must be measured at the effective tip area on the moving arms, perpendicular to the centerline of the tool when in an unfixed state. This measurement of force measures the actual force created by the tool when used by the operator</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p><b>10.9 <u>Weight and Dimensions</u></b>  The weight of the ready-for-use tool may not exceed 41½ lbs (18.8 kg) including hydraulic oil. Length of not to exceed 30 3/8" (771 mm). Width not to exceed 11 11/16" (297 mm). Height not to exceed 8 1/8" (206 mm)</p>	✓	
<p><b>10.10 <u>Accessories</u></b>  The following accessories will be available:  -<u>Pulling attachments</u>  Pulling adapters and chains will be provided for pulling operations. The adapters must have the same quick-change design as the spreading tips. Pulling chains will be equipped with shortening hooks. Safety factor of the chain set will be at least 2 times the maximum pulling force of the tool.  -<u>Cutting Tip</u>  An optional cutting tip for cutting sheet metals will be available. The cutting tip must have the same quick-change design as the spreading tips.</p>	✓	
<p><b>10.11 <u>Corrosion and Wear Protection</u></b>  Internal and external aluminum parts of the tool that are susceptible to wear or corrosion must be protected by anodization to provide maximum durability. The tool must be capable of withstanding a 10 day salt spray test, and still be able to function normally.</p>	✓	
<p><b>10.12 <u>Lifetime Warranty</u></b>  The manufacturer shall warrant this tool against all defects in material and workmanship for as long as owned by the original purchaser.</p>	✓	
<p><b>11.00 <u>Battery Operated Combination Cutter/Spreader</u></b>  The tool must be capable of withstanding a static over-load pressure of twice the working pressure. This 2:1 over-load ratio is a requirement to provide maximum safety to the operator. The tool must be capable of operating as a self-contained unit without power cables for maximum portability. The tool must be a "one-person" operated lightweight tool, which means that one person will be able to position, guide and operate the tool without the assistance of other people. For this reason the tool will be equipped with a carrying handle, which allows the operator to keep the tool evenly balanced in all positions even with one hand. The tool must be able to be powered by a commercially available, portable, 24V battery weighing no more than 3 lbs. (1.4 kg.), which is attached directly to the tool with no external cables or wires. The battery must be able to be replaced rapidly without the use of any tools. The tool shall also be weather resistant.</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p><b>11.01 <u>Deadman's Handle</u></b>  The tool must be activated by means of a rotary deadman's handle, operated by a twist of the wrist. For ease of operation, the handle shall have a maximum rotation of 20° in either direction. When the deadman's handle is released, it must return to the neutral position automatically. The deadman's handle will provide one-handed control of opening and closing functions. The deadman's handle shall provide 360 degree access to the operator allowing operation of the tool in any position. The deadman's handle must be located in such a way that it can be operated, guided and supported easily by right and left handed operators without having to change the position of the hands, even when wearing gloves. The deadman's control must be capable of withstanding 6000 endurance cycles, one cycle consisting of opening and closing the tool.</p>	✓	
<p><b>11.02 <u>Carrying Handle</u></b>  The distance between the deadman's handle and the U-shaped carrying handle will be no less than 10" (254 mm) to provide a natural position for both hands during operation and to allow for complete control of the tool. The tool shall remain in a balanced horizontal position when held only by the carrying handle. In order to provide improved grip in all weather conditions, the carrying handle must have a non-slip surface.</p>	✓	
<p><b>11.02 <u>Safety and Protection</u></b>  For maximum safety of the operator the combi tool shall contain safety relief valves to protect the tool against over pressurization. The tool will have automatic, non-return check valves built in so that the tool will hold the load when the deadman's handle is released, whether the tool is spreading or pulling. If pressure should drop because of interruption of the power source for any reason, the tool must hold the load. All moving parts such as yoke and levers must be protected by a cover for the safety of the operator.</p>	✓	
<p><b>11.03 <u>Blades/Arms</u></b>  The blades of the combi cutter will be fabricated out of high-grade tool steel that is hardened to improve durability. The cutting, gripping and spreading surfaces of the blades will be regrindable to ensure a longer life span. For maximum safety and gripping when cutting, cutting edges will have specially designed 0.95" round half round serrations. The blades must be capable of shearing stock (in the recess), Ø 1.9" O.D. x 0.11" wall tube, 1 3/4" x 1 3/4" x 1/8" square section, 2 3/8" x 1 1/4" x 3/16" rectangular section, and 3"x 3/8" steel plate.</p>	✓	
<p><b>11.04 <u>Electronics</u></b>  There must be electronic circuitry present to provide monitoring of the battery status and provide visual indication via flashing light when battery life is low. The electronics must allow the operator enough power to "back out" prior to expending all available power to the tool. The electronics must provide protection against motor damage, caused by over or under current.</p>	✓	
<p><b>11.05 <u>Pump</u></b>  Hydraulic power must be delivered from an internally mounted axial piston pump driven by an internal electric motor that can operate off of 12 to 24 volts DC. The pump shall produce a maximum of 10,500 psi and operate on mineral-based hydraulic oil.</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p><b>11.06 Forces</b> The maximum cutting force exerted will be no less than 49,000 lbf. (218 kN) in the recess. Maximum spreading force must be at least 11,690 lbf (52 kN).</p>	✓	
<p><b>11.07 Weight &amp; Dimensions</b> Maximum spreader opening will be no less than 10.5" (268 mm). Maximum cutter opening will be 7.5" (191mm). The weight of an operable tool may not exceed 33 lbs. (14.8 kg) including hydraulic oil and battery. Length of tool not to exceed 28" (712 mm). Width not to exceed 12" (305 mm). Height not to exceed 9" (230 mm).</p>	✓	
<p><b>11.08 Corrosion &amp; Wear Protection</b> Internal and external aluminum parts of the tool, that are susceptible to wear or corrosion, must be anodized to provide maximum durability.</p>	✓	
<p><b>11.09 Battery &amp; Battery Charger</b> Commercially available (non proprietary) Nickel Cadmium type batteries shall be supplied standard with the tool. Lead-acid batteries are not acceptable. The batteries must be recyclable through a service available in North America. The charger shall provide rapid 1 hour charging, to 100% capacity. Chargers shall be available for 120 VAC or 12 VDC vehicle connections and shall also provide automatic trickle charging and battery conditioning.</p>	✓	
<p><b>11.10 Auxiliary Power Options</b> The tool must be provided standard with an auxiliary power port that allows operation from a 12 – 24 VDC source. The tool's battery must also be able to accept an AC/DC converter.</p>	✓	
<p><b>GENERAL CONDITIONS</b> <b>(HYDRAULIC EXTENSION HOSE)</b> The following is a description of the rescue tool system that will meet the minimum requirements of this specification. These specifications are to be considered as minimum and are expressed as such. If the rescue tool(s) and component parts delivered under this contract do not comply with these specifications, the tools will not be accepted. Any vendor failing to meet his obligations required as part of this contract may be forced to pay damages to this agency. Such damages shall not exceed the amount required to obtain a replacement product or tool meeting the requirements of this specification.</p>	✓	
<p><b>12.00 Hydraulic Extension Hose</b> Two (2) sets of Hydraulic hoses shall be provided for these systems. These hoses shall be equipped with male and female styles quick connect couplings. The supplied hose shall be adequately reinforced to provide a four to one (4:1) safety factor. The hydraulic hoses must have a minimum warranty of one (1) year. The hydraulic hoses as supplied with this system</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p>shall be dual flow coaxial type allowing hydraulic fluid to flow from the power unit to the component and return.  Hose length shall be: 32 ft  Hose color shall be agreed upon vendor and fire department personnel.</p> <p><b>12.01 Hose Couplings</b>  Hose shall have a single male connection on the pump end and a female connection on the tool end of the twist lock type. They shall be designed to prevent the inadvertent connection of the wrong hose to the component. The connections shall be positive twist lock type and be pressure tested to four times pump operating pressure. <u>Couplings will allow 360-degree rotation of hoses while attached without entangling.</u> These connections shall be compatible with all other components of the rescue system bid.</p> <p><b>GENERAL CONDITIONS  (HYDRAULIC PUSH/PULL RAMS)</b></p> <p><b>13.00 Small Single Plunger Rescue Ram</b>  The tool must be UL listed. This tool must have successfully completed the rescue tool test program certified by Underwriters Laboratories, Inc. The tool must be capable of performing 1000 endurance cycles, whereby one cycle consists of completely opening and closing the tool at its maximum pressure during its stroke. The tool must be capable of withstanding a static over-load pressure of twice the working pressure. This 2:1 over-load ratio is a UL requirement to provide maximum safety to the operator. This tool must also be compliant with NFPA 1936 Standard On Powered Rescue Tool Systems, 1999 edition. The tool must be a "one-person" operated lightweight tool, which means that one person will be able to position, guide and operate the tool without the assistance of other people. Couplers must be one hand operated, flat-face, non-drip couplings with built-in automatic locking feature. Couplers must be supplied with aluminum protective dust caps. Hose will be connected to the rear of the dead-man's handle, leading away in line with the tool avoiding hindrance to the operator. Hose connection shall be protected so that the connection is not accessible or susceptible to damage. The end of the plunger will have a twist-lock design to accept interchangeable tool accessories. Likewise, the rear of the tool shall have a twist-lock design to accept extension pipes. Tool shall be delivered with two diamond shaped grip heads designed to prevent off-center loads. Hoses shall be equipped with protective bend restrictors.</p> <p><b>13.01 Hydraulic Ram Control Mechanism</b>  The tool must be activated by means of a rotary dead-man's handle, operated by a twist of the wrist. For ease of operation, the handle shall have a maximum rotation of 20° in either direction. When the dead-man's handle is released, it must return to the neutral position automatically. The dead-man's handle will provide one-handed control of opening and closing functions. The dead-man's handle shall provide 360-degree access to the operator allowing operation of the tool in any position. The dead-man's handle must be located in such a way that it can be operated, guided and supported easily by right and left handed operators without having to change the position of the hands, even when wearing gloves. The dead-man's control</p>	✓	
	✓	
	✓	



Specifications	Bidder Complies	
	Yes	No
<p>must be capable of withstanding 6000 endurance cycles, one cycle consisting of opening and closing the tool. In addition, the ram must be able to rotate under load to allow the operating handle to be moved out of the way for patient removal.</p> <p><b>13.02 Safety and Protection</b>  When the ram plunger is fully extended and under maximum load, the safety factor against bending or buckling must be at least 2:1. For maximum safety of the operator all cutters, spreaders and rams shall contain a safety relief valve to protect the tool against over pressurization caused by accidentally disconnecting the return line of the tool. The tool will have automatic, non-return check valves built in so that the tool will hold the load when the dead-man's handle is released, whether the tool is spreading or pulling. If pressure should drop because of interruption of the power source for any reason, the tool must hold the load.</p> <p><b>13.03 Power Source</b>  Hydraulic power must be delivered from a gasoline or electrically driven pump. Alternatively, a manually operated pump or an air driven pump may be used. To provide maximum ease of use (lightest weight) to the operator the pump must be a completely separate unit from the rescue tool.</p> <p><b>13.04 Forces</b>  The ram will have a maximum pushing force of no less than 36,460 lbf (162.2 kN) and a maximum pulling force of no less than 11,265 lbf (50.1 kN).</p> <p><b>13.05 Weight &amp; Dimensions</b>  Length of closed tool shall not exceed 21 ¼ inches (539 mm). Length of extended tool shall not exceed 31 inches (787mm). Width shall not exceed 15-7/8 inches (404 mm). Height shall not to exceed 4¾ inches (121 mm). Net stroke shall not be less than 9 ¾ inches (248 mm). Weight shall not exceed 29¾ pounds (13.5 kg).</p> <p><b>13.06 Accessories</b>  All accessories shall be of a twist lock design. <u>No threading and/or loose locking pins are allowed.</u>  <u>-Pulling attachments</u>  Pulling adapters and chains will be provided for pulling operations. The adapters must have a quick-change design. Pulling chains will be equipped with shortening hooks. Safety factor of the chain set will be at least 2 times the maximum pulling force of the tool  <u>-Attachments</u>  -Wedge tip for splitting.  -Conical point for piercing holes in sheet materials.  -Round flat base min. diameter 4 ½ " (115 mm) for better distribution of the forces.  <u>-Extension Pipes</u>  Extension pipes in the following lengths will be available for pushing operations:  6 ½ inches (165 mm), 13 inches (330 mm) and 23 ½ inches (597 mm)  <u>-Ram Support Unit</u>  Ram support unit provides firm surface to allow for full extension and effectiveness of the ram during pushing operations such as dash displacements.</p>	✓	
	✓	
	✓	
	✓	
	✓	

Specifications	Bidder Complies	
	Yes	No
<p><b>13.07 <u>Corrosion &amp; Wear Protection</u></b>            Internal and external aluminum parts of the tool that are susceptible to wear or corrosion must be anodized to provide maximum durability. The tool must be capable of withstanding a 10-day salt spray test, and still be able to function normally.</p>	✓	
<p><b>14.00 <u>Large Single Plunger Rescue Ram</u></b>            The tool must be UL listed. This tool must have successfully completed the rescue tool test program certified by Underwriters Laboratories, Inc. The tool must be capable of withstanding a static over-load pressure of twice the working pressure. This 2:1 over-load ratio is a UL requirement to provide maximum safety to the operator. This tool must also be compliant with NFPA 1936 Standard On Powered Rescue Tool Systems, 1999 edition. The tool must be a "one-person" operated lightweight tool, which means that one person will be able to position, guide and operate the tool without the assistance of other people. For this reason the tool will be equipped with a carrying handle, which allows the operator to keep the tool evenly balanced in all positions even with one hand. Couplers must be one hand operated, flat-face, non-drip couplings with built-in automatic locking feature. Couplers must be supplied with aluminum protective dust caps. Hose will be connected to the rear of the dead-man's handle, leading away in line with the tool avoiding hindrance to the operator. Hose connection shall be protected so that the connection is not accessible or susceptible to damage. Hoses shall be equipped with protective bend restrictors.</p>	✓	
<p><b>14.01 <u>Hydraulic Ram Control Mechanism</u></b>            The tool must be activated by means of a rotary dead-man's handle, operated by a twist of the wrist. For ease of operation, the handle shall have a maximum rotation of 20° in either direction. When the dead-man's handle is released, it must return to the neutral position automatically. The dead-man's handle will provide one-handed control of opening and closing functions. The dead-man's handle shall provide 360-degree access to the operator allowing operation of the tool in any position. The dead-man's handle must be located in such a way that it can be operated, guided and supported easily by right and left handed operators without having to change the position of the hands, even when wearing gloves. The dead-man's control must be capable of withstanding 6000 endurance cycles, one cycle consisting of opening and closing the tool. In addition, the ram must be able to rotate under load to allow the operating handle to be moved out of the way for patient removal.</p>	✓	
<p><b>14.02 <u>Safety and Protection</u></b>            When the ram plunger is fully extended and under maximum load, the safety factor against bending or buckling must be at least 2:1. For maximum safety of the operator all cutters, spreaders and rams shall contain a safety relief valve to protect the tool against over pressurization caused by accidentally disconnecting the return line of the tool. The tool will have automatic, non-return check valves built in so that the tool will hold the load when the</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p>dead-man's handle is released, whether the tool is spreading or pulling. If pressure should drop because of interruption of the power source for any reason, the tool must hold the load.</p> <p><b>14.03 Power Source</b>  Hydraulic power must be delivered from a gasoline or electrically driven pump. Alternatively, a manually operated pump or an air driven pump may be used. To provide maximum ease of use (lightest weight) to the operator the pump must be a completely separate unit from the rescue tool.</p> <p><b>14.04 Forces</b>  The ram will have a maximum pushing force of no less than 36,460 lbf (162.2 kN) and a maximum pulling force of no less than 11,265 lbf (50.1 kN).</p> <p><b>14.05 Weight &amp; Dimensions</b>  Length of closed tool shall not exceed 25 ¼ inches (642 mm). Length of extended tool shall not exceed 39 inches (991mm). Width shall not exceed 15-7/8 inches (404 mm). Height shall not exceed 4¾ inches (121 mm). Net stroke shall not be less than 13 ¾ inches (349 mm). Weight shall not exceed 34 pounds (15.5 kg).</p> <p><b>14.06 Accessories</b>  All accessories shall be of a twist lock design. <u>No threading and/or loose locking pins are allowed.</u></p> <p><u>-Pulling attachments</u>  Pulling adapters and chains will be provided for pulling operations. The adapters must have a quick-change design. Pulling chains will be equipped with shortening hooks. Safety factor of the chain set will be at least 2 times the maximum pulling force of the tool</p> <p><u>-Attachments</u>  -Wedge tip for splitting.  -Conical point for piercing holes in sheet materials.  -Round flat base min. diameter 4 ½ " (115 mm) for better distribution of the forces.</p> <p><u>-Extension Pipes</u>  Extension pipes in the following lengths will be available for pushing operations:  6 ½ inches (165 mm), 13 inches (330 mm) and 23 ½ inches (597 mm)</p> <p><u>-Ram Support Unit</u>  Ram support unit provides firm surface to allow for full extension and effectiveness of the ram during pushing operations such as dash displacements.</p> <p><b>14.07 Corrosion &amp; Wear Protection</b>  Internal and external aluminum parts of the tool that are susceptible to wear or corrosion must be anodized to provide maximum durability. The tool must be capable of withstanding a 10-day salt spray test, and still be able to function normally.</p> <p><b>15.00 Medium Size Twin Plunger Rescue Ram</b></p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p>The tool must be UL Listed: This tool must have successfully completed the rescue tool test program certified by Underwriters Laboratories, Inc. The tool must be capable of withstanding a static over-load pressure of twice the working pressure. This 2:1 over-load ratio is a UL requirement to provide maximum safety to the operator. This tool must <i>also</i> be compliant with <u>NFPA 1936 Standard on Powered Rescue Tools, 2005 edition</u>. The tool must be a "one-person" operated lightweight tool, which means that one person will be able to position, guide and operate the tool without the assistance of other people. For this reason the tool will be equipped with a carrying handle, which allows the operator to keep the tool evenly balanced in all positions even with one hand. To eliminate connection errors and reduce deployment time the tool shall be supplied with only one hydraulic coupler. This single coupler shall have a coaxial design with the pressure line inside of the return line to allow for rapid simultaneous connection of both lines with one connection motion. To avoid hindrance to the operator the coupler must be extremely compact and lightweight. The coupler design shall incorporate an automatic return valve to permit connection and disconnection of the tool to the hose <i>while under flow</i>. The coupler must be a flat-face, non-drip coupling with built-in automatic locking feature and be one hand operated. The coupler shall permit an unhindered 360° rotation at the connection point to avoid twisting or stressing the hose. Coupler must be supplied with a protective aluminum dust cap. The hose connection point will be to the rear of the dead man's handle, leading away in line with the center axis of the tool, avoiding interference with the operation of the tool.</p>	✓	
<p><b>15.01 <u>Deadman's Handle</u></b>  The tool must be activated by means of a rotary deadman's handle, operated by a twist of the wrist. For ease of operation, the handle shall have a maximum rotation of 20° in either direction. When the deadman's handle is released, it must return to the neutral position automatically. The deadman's handle will provide one-handed control of opening and closing functions. The deadman's handle shall provide 360 degree access to the operator allowing operation of the tool in any position. The deadman's handle must be located in such a way that it can be operated, guided and supported easily by right and left handed operators without having to change the position of the hands, even when wearing gloves. The deadman's control must be capable of withstanding 6000 endurance cycles, one cycle consisting of opening and closing the tool. In addition, the ram must be able to rotate under load to allow the operating handle to be moved out of the way for patient removal.</p>	✓	
<p><b>15.02 <u>Carrying Handle</u></b>  To assist in carrying and positioning of the ram, an optional carrying handle will be available.</p>	✓	
<p><b>15.03 <u>Safety and Protection</u></b>  When the ram plunger is fully extended and under maximum load, the safety factor against bending or buckling must be at least 2:1. For maximum safety of the operator all cutters, spreaders and rams shall contain a safety relief valve to protect the tool against over pressurization caused by sudden load shift on the tool. The tool will have automatic, non-return check valves built in so that the tool will hold the load when the deadman's handle is released, whether the tool is spreading or pulling. If pressure should drop because of interruption of the power source for any reason, the tool must hold the load.</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p><b>15.04 Pump</b> Hydraulic power must be delivered from a gasoline or electrically driven pump. Alternatively, a manually operated pump or an air driven pump may be used. To provide maximum ease of use (lightest weight) to the operator the pump must be a completely separate unit from the rescue tool.</p>	✓	
<p><b>15.05 Grip Heads</b> The ends of the plungers will have a twist-lock design to allow rotation of the grip heads even when the tool is under a load. Rams with threaded grip heads that could become corroded and prevent use of interchangeable accessories shall not be acceptable. The twist-lock design shall accept interchangeable tool accessories. Tool shall be delivered with two diamond shaped grip heads designed to prevent off-center loads.</p>	✓	
<p><b>15.06 Forces</b> The ram will have a maximum pushing force of no less than 36,460 lbf (162.2 kN) and a maximum pulling force of no less than 11,265 lbf (50.1 kN).</p>	✓	
<p><b>15.07 Weight &amp; Dimensions</b> Length of closed tool not to exceed 30 3/8" (772 mm). Length of extended tool not to exceed 50" (1268mm). Width not to exceed 13 1/2" (338 mm). Height not to exceed 4 7/8" (122 mm). Net stroke not less than 2 x 9 3/4" (2 x 248 mm). Weight not to exceed 36 lbs (16.4 kg).</p>	✓	
<p><b>15.08 Accessories</b> All accessories shall be of a twist lock design. <u>No threading and/or loose locking pins are allowed.</u> -<u>Pulling attachments</u> -Pulling adapters and chains will be provided for pulling operations. The adapters must have a quick-change design. Pulling chains will be equipped with shortening hooks. Safety factor of the chain set will be at least 2 times the maximum pulling force of the tool -<u>Attachments</u> -Wedge tip for splitting. -Conical point for piercing holes in sheet materials. -Round flat base min. diameter 4 1/2" (115 mm) for better distribution of the forces. -<u>Ram Support Unit</u> Provides firm surface to allow for full extension and effectiveness of the ram during pushing operations such as dash displacements.</p>	✓	
<p><b>15.09 Corrosion &amp; Wear Protection</b> Internal and external aluminum parts of the tool that are susceptible to wear or corrosion must be protected by anodization to provide maximum durability. The tool must be capable of withstanding a 10 day salt spray test, and still be able to function normally.</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p><b>GENERAL CONDITIONS</b>  <b>(HYDRAULIC TELESCOPIC RESCUE RAMS)</b></p> <p><b>16.00 <u>Small Telescopic Rescue Ram</u></b>  This tool must be compliant with NFPA 1936 Standard On Powered Rescue Tool Systems, 1999 edition. The tool must be capable of performing 1000 endurance cycles, whereby one cycle consists of completely opening and closing the tool at its maximum pressure during its stroke. The tool must be capable of withstanding a static over-load pressure of twice the working pressure. This 2:1 over-load ratio is a requirement to provide maximum safety to the operator. The tool must be a "one-person" operated lightweight tool, which means that one person will be able to position, guide and operate the tool without the assistance of other people. Couplers must be one hand operated, flat-face, non-drip couplings with built-in automatic locking feature. Couplers must be supplied with aluminum protective dust caps. Hose will be connected to the rear of the dead-man's handle, leading away in line with the tool avoiding hindrance to the operator. Hose connection shall be protected so that the connection is not accessible or susceptible to damage. Tool shall be delivered with two diamond shaped grip heads designed to prevent off-center loads. Hose shall be equipped with protective bend restrictors.</p>	✓	
<p><b>16.01 <u>Hydraulic Ram Control Mechanism</u></b>  The tool must be activated by means of a rotary dead-man's handle, operated by a twist of the wrist. For ease of operation, the handle shall have a maximum rotation of 20° in either direction. When the dead-man's handle is released, it must return to the neutral position automatically. The dead-man's handle will provide one-handed control of opening and closing functions. The dead-man's handle shall provide 360-degree access to the operator allowing operation of the tool in any position. The dead-man's handle must be located in such a way that it can be operated, guided and supported easily by right and left handed operators without having to change the position of the hands, even when wearing gloves. The dead-man's control must be capable of withstanding 6000 endurance cycles, one cycle consisting of opening and closing the tool. In addition, the ram must be able to rotate under load to allow the operating handle to be moved out of the way for patient removal.</p>	✓	
<p><b>16.02 <u>Carrying Handle</u></b>  To assist in carrying and positioning of the rescue ram it shall be supplied with a carrying handle.</p>	✓	
<p><b>16.03 <u>Safety and Protection</u></b></p>		

Specifications	Bidder Complies	
	Yes	No
<p>When the ram plunger is fully extended and under maximum load, the safety factor against bending or buckling must be at least 2:1. For maximum safety of the operator all cutters, spreaders and rams shall contain a safety relief valve to protect the tool against over pressurization caused by accidentally disconnecting the return line of the tool. The tool will have automatic, non-return check valves built in so that the tool will hold the load when the dead-man's handle is released. If pressure should drop because of interruption of the power source for any reason, the tool must hold the load.</p>	✓	
<p><b>16.04 <u>Power Source</u></b>  Hydraulic power must be delivered from a gasoline or electrically driven pump. Alternatively, a manually operated pump or an air driven pump may be used. To provide maximum ease of use (lightest weight) to the operator the pump must be a completely separate unit from the rescue tool.</p>	✓	
<p><b>16.05 <u>Forces</u></b>  The first plunger will have a maximum pushing force of no less than 49,145 lbf (218.6 kN). The second plunger will have a maximum pushing force of no less than 18,210 lbf (81 kN).</p>	✓	
<p><b>16.06 <u>Weight &amp; Dimensions</u></b>  Length of closed tool shall not exceed 12 inches (305 mm). Length of extended shall tool not exceed 23 inches (584 mm). Width shall not exceed 16 ½ inches (420 mm). Height shall not exceed 6-1/8 inches (155 mm). Stroke of first plunger shall not be less than 6-1/8 inches (155 mm). Stroke of second plunger shall not be less than 4-7/8 inches (124 mm). Weight shall not to exceed 27 pounds (12kg).</p>	✓	
<p><b>16.07 <u>Corrosion &amp; Wear Protection</u></b>  Internal and external aluminum parts of the tool that are susceptible to wear or corrosion must be anodized to provide maximum durability. The tool must be capable of withstanding a 10-day salt spray test, and still be able to function normally.</p>	✓	
<p><b>16.08 <u>Accessories</u></b>  <u>-Ram Support Unit</u>  Support unit provides firm surface to allow for full extension and effectiveness of the ram during pushing operations such as dash displacements.</p>	✓	
<p><b>17.00 <u>Large Telescopic Rescue Ram</u></b>  This tool must be compliant with NFPA 1936 Standard On Powered Rescue Tool Systems, 1999 edition. The tool must be capable of performing 1000 endurance cycles, whereby one cycle consists of completely opening and closing the tool at its maximum pressure during its stroke. The tool must be capable of withstanding a static over-load pressure of twice the working pressure. This 2:1 over-load ratio is a requirement to provide maximum safety to the</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p>operator. The tool must be a "one-person" operated lightweight tool, which means that one person will be able to position, guide and operate the tool without the assistance of other people. Couplers must be one hand operated, flat-face, non-drip couplings with built-in automatic locking feature. Couplers must be supplied with aluminum protective dust caps. Hose will be connected to the rear of the dead-man's handle, leading away in line with the tool avoiding hindrance to the operator. Hose connection shall be protected so that the connection is not accessible or susceptible to damage. Tool shall be delivered with two diamond shaped grip heads designed to prevent off-center loads. Hose shall be equipped with protective bend restrictors.</p>		
<p><b>17.01 <u>Hydraulic Ram Control Mechanism</u></b>  The tool must be activated by means of a rotary dead-man's handle, operated by a twist of the wrist. For ease of operation, the handle shall have a maximum rotation of 20° in either direction. When the dead-man's handle is released, it must return to the neutral position automatically. The dead-man's handle will provide one-handed control of opening and closing functions. The dead-man's handle shall provide 360-degree access to the operator allowing operation of the tool in any position. The dead-man's handle must be located in such a way that it can be operated, guided and supported easily by right and left handed operators without having to change the position of the hands, even when wearing gloves. The dead-man's control must be capable of withstanding 6000 endurance cycles, one cycle consisting of opening and closing the tool. In addition, the ram must be able to rotate under load to allow the operating handle to be moved out of the way for patient removal.</p>	✓	
<p><b>17.02 <u>Carrying Handle</u></b>  To assist in carrying and positioning of the rescue ram it shall be supplied with a carrying handle.</p>	✓	
<p><b>17.03 <u>Safety and Protection</u></b>  When the ram plunger is fully extended and under maximum load, the safety factor against bending or buckling must be at least 2:1. For maximum safety of the operator all cutters, spreaders and rams shall contain a safety relief valve to protect the tool against over pressurization caused by accidentally disconnecting the return line of the tool. The tool will have automatic, non-return check valves built in so that the tool will hold the load when the dead-man's handle is released. If pressure should drop because of interruption of the power source for any reason, the tool must hold the load.</p>	✓	
<p><b>17.04 <u>Power Source</u></b>  Hydraulic power must be delivered from a gasoline or electrically driven pump. Alternatively, a manually operated pump or an air driven pump may be used. To provide maximum ease of use (lightest weight) to the operator the pump must be a completely separate unit from the rescue tool.</p>	✓	
<p><b>17.05 <u>Forces</u></b>  The first plunger will have a maximum pushing force of no less than 49,145 lbf (218.6 kN). The second plunger will have a maximum pushing force of no less than 18,210 lbf (81 kN).</p>	✓	



Specifications	Bidder Complies	
	Yes	No
<p><b>17.06 <u>Weight &amp; Dimensions</u></b>  Length of closed tool shall not exceed 21 inches (533 mm). Length of extended tool shall not exceed 50 ¼ inches (1276 mm). Width shall not exceed 16 ½ inches (420 mm). Height shall not exceed 6-1/8 inches (155 mm). Stroke of first plunger shall not be less than 15 ¼ inches (387 mm). Stroke of second plunger shall not be less than 14 inches (356 mm). Weight shall not exceed 40 lbs (18kg).</p>	✓	
<p><b>17.07 <u>Corrosion &amp; Wear Protection</u></b>  Internal and external aluminum parts of the tool that are susceptible to wear or corrosion must be anodized to provide maximum durability. The tool must be capable of withstanding a 10-day salt spray test, and still be able to function normally.</p>	✓	
<p><b>17.08 <u>Accessories</u></b>  <u>-Ram Support Unit</u>  Support unit provides firm surface to allow for full extension and effectiveness of the ram during pushing operations such as dash displacements.</p>	✓	
<p><b>GENERAL CONDITIONS</b>  <b>(HYDRAULIC CUTTER/SPREADER COMBINATION RESCUE TOOL)</b></p>		
<p><b>18.00 <u>Heavy Duty Combination Rescue Tool</u></b>  The tool must be UL listed. This tool must have successfully completed the rescue tool test program certified by Underwriters Laboratories, Inc. The tool must be capable of withstanding a static over-load pressure of twice the working pressure. This 2:1 over-load ratio is a UL requirement to provide maximum safety to the operator. This tool must also be compliant with NFPA 1936 Standard On Powered Rescue Tool Systems, 1999 edition. The tool must be a "one-person" operated lightweight tool, which means that one person will be able to position, guide and operate the tool without the assistance of other people. For this reason the tool will be equipped with a carrying handle, which allows the operator to keep the tool evenly balanced in all positions even with one hand. Couplers must be one hand operated, flat-face, non-drip couplings with built-in automatic locking feature. Couplers must be supplied with aluminum protective dust caps. Hose will be connected to the rear of the dead-man's handle, leading away in line with the tool avoiding hindrance to the operator. Hose connection shall be protected so that the connection is not accessible or susceptible to damage. Hose shall be equipped with protective bend restrictors.</p>	✓	
<p><b>18.01 <u>Combination Rescue Tool Control Mechanism</u></b>  The tool must be activated by means of a rotary dead-man's handle, operated by a twist of the wrist. For ease of operation, the handle shall have a maximum rotation of 20° in either direction. When the dead-man's handle is released, it must return to the neutral position automatically. The dead-man's handle will provide one-handed control of opening and closing functions. The dead-man's handle shall provide 360-degree access to the operator allowing operation of the tool in any position. The dead-man's handle must be located in such a way that it can be operated, guided and supported easily by right and left handed operators without having to change the position of the hands, even when wearing gloves. The dead-man's control</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p>must be capable of withstanding 6000 endurance cycles, one cycle consisting of opening and closing the tool.</p> <p><b>18.02 Carrying Handle</b>  The distance between the dead-man's handle and the U-shaped carrying handle will be no less than 10" (254 mm) to provide a natural position for both hands during operation and to allow for complete control of the tool. The tool shall remain in a balanced horizontal position when held only by the carrying handle. In order to provide improved grip in all weather conditions, the carrying handle must have a non-slip surface. LED lighting powered by a single AA battery shall be integrated into the carrying handle to allow for better visibility during low light conditions</p>	✓	
<p><b>18.03 Safety and Protection</b>  For maximum safety of the operator all cutters, spreaders and rams shall contain a safety relief valve to protect the tool against over pressurization caused by accidentally disconnecting the return line of the tool. The tool will have automatic, non-return check valves built in so that the tool will hold the load when the dead-man's handle is released, whether the tool is spreading or pulling. If pressure should drop because of interruption of the power source for any reason, the tool must hold the load. A cover for the safety of the operator must protect all moving parts such as yoke and levers.</p>	✓	
<p><b>18.04 Blades/Arms</b>  The blades of the combination rescue tool will be fabricated out of high-grade tool steel that is hardened to improve durability. The cutting, gripping and spreading surfaces of the blades shall be capable of being re-ground to ensure a longer life span. For maximum safety and gripping when cutting, cutting edges will have specially designed half round serrations. The blades must be capable of shearing ASTM A108 steel bar with a diameter of 13/16 inch, A513-91-a-T5 tube with an O.D. of 2-3/8 inches and a 1/8 inch wall thickness, ASTM A500-90 square tube 2 inches x 2 inches with a wall thickness of 3/16 inches, ASTM A513 rectangular tube 2½ inches x ½ inch with a 1/8 inch wall thickness, ASTM A108 flat plate 4 inches x 3/8 inch. In addition the NFPA level performance rating for this tool shall be: A6 B7 C5 D7 E5.</p>	✓	
<p><b>18.05 Power Source</b>  Hydraulic power must be delivered from a gasoline or electrically driven pump. Alternatively, a manually operated pump or an air driven pump may be used. The pump must be a completely separate unit from the rescue tool.</p>	✓	
<p><b>18.06 Forces</b>  The maximum cutting force exerted will be no less than 67,600 lbf. (300.7 kN) measured in the recess of the blades. Maximum spreading force must be at least 16,166 lbf (71.9 kN). Maximum pulling force at full opening 14,358 lbf (63.9 kN).</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p><b>18.07 <u>Method of Measuring Forces</u></b>  The spreading force must be measured at the effective tip area on the moving arms, perpendicular to the centerline of the tool when in an unfixed state. This measurement of force was calculated and approved by UL and measures the actual force created by the tool when used by the operator.</p>	✓	
<p><b>18.08 <u>Weight &amp; Dimensions</u></b>  Maximum spreader opening will be no less than 14 ¼ inches (362mm). Maximum cutter opening will be 9 inches (229 mm). Width of spreading tips must be 1-3/16 inches (30mm) minimum for optimum gripping. Squeezing surface should be 1-3/16 inches x 2-¼ inches (30mm x 57mm) minimum. The weight of an operable tool may not exceed 35 pounds (16 kg) including hydraulic oil. Length of tool including hose bend radius shall not exceed 33-3/4 inches (857mm). Width shall not exceed 9 inches (229 mm). Height shall not exceed 7-1/8 inches (181 mm).</p>	✓	
<p><b>18.09 <u>Accessories</u></b>  Pulling adapters and chains will be available for pulling operations. The adapters must have a quick-lock system. Pulling chains will be equipped with shortening hooks. The strength of the chain set will be at least 2 times the maximum pulling force of the tool.</p>	✓	
<p><b>18.10 <u>Corrosion &amp; Wear Protection</u></b>  Internal and external aluminum parts of the tool that are susceptible to wear or corrosion must be anodized to provide maximum durability. The tool must be capable of withstanding a 10-day salt spray test, and still be able to function normally. Blades must have a method of lubrication through the hinge bolt using a grease gun.</p>	✓	
<p><b>19.00 <u>Hand Operated Combination Rescue Tool</u></b>  The tool must be capable of withstanding a static over-load pressure of twice the working pressure. This 2:1 over-load ratio is a requirement to provide maximum safety to the operator. The tool must be a "one-person" operated lightweight tool, which means that one person will be able to position, guide and operate the tool without the assistance of other people. For this reason the tool will be equipped with a carrying handle, which allows the operator to keep the tool evenly balanced in all positions even with one hand.  The tool must be activated by means of a rotary pump handle. For ease of operation, the handle shall have a maximum rotation of 90° in either direction. The pump handle, in combination with the carrying handle, shall provide 360° access to the operator allowing operation of the tool in any position. The pump handle must be located in such a way that it can be operated, guided and supported easily by right and left handed operators without having to change the position of the hands, even when wearing gloves.</p>	✓	
<p><b>19.01 <u>Carrying Handle</u></b>  The distance between the pump handle and the U-shaped carrying handle will be no less than 12" (305 mm) to provide a natural position for both hands during operation and to allow for</p>	✓	

Specifications	Bidder Complies	
	Yes	No
<p>complete control of the tool. The tool shall remain in a balanced horizontal position when held only by the carrying handle. In order to provide improved grip in all weather conditions, the carrying handle must have a non-slip surface.</p>		
<p><b>19.02 Safety and Protection</b>  For maximum safety of the operator all cutters, spreaders and rams shall contain a safety relief valve to protect the tool against over pressurization. The tool will have automatic, non-return check valves built in so that the tool will hold the load when the pump handle is released, whether the tool is spreading or pulling. If pressure should drop because of interruption of the power source for any reason, the tool must hold the load. To provide for the safety of the operator, a cover must protect all moving parts such as yoke and levers.</p>	✓	
<p><b>19.03 Blades</b>  The blades of the cutter will be fabricated from high-grade tool steel, hardened to improve durability. The blades will be constructed for the capability to be re-ground. The blades must be capable of shearing □ 0.95 inch round stock (in the recess), Ø 1-7/8 inch O.D. x 0.11 inch tube, 1-3/4 inches x 1-3/4 inches x 3/16 inch square section, 2-3/8 inches x 1 1/4 inches x 3/16 inch rectangular section, and 3 inches x 3/8 inch steel plate.</p>	✓	
<p><b>19.04 Pump</b>  Hydraulic power must be delivered from a built-in manually operated 2-stage pump. To provide maximum ease of use to the operator the pump handle must be capable of being rotated through 180° at 30° intervals.</p>	✓	
<p><b>19.05 Forces</b>  The maximum cutting force exerted will be no less than 49,000 lbf. (218 kN) in the recess, and 18,660 lbs (83 kN) in the middle of the blade.</p>	✓	
<p><b>19.06 Weight &amp; Dimensions</b>  The weight of an operable tool may not exceed 23 pounds (10.5kg) including hydraulic oil. The maximum opening of the blades will be no less than 10 1/2 inches (268 mm) measured at the tips. The length of the tool shall not to exceed 27 1/2 inches (698mm). Width shall not to exceed 8-1/16 inches (205 mm). Height shall not exceed 6-7/16 inches (163 mm).</p>	✓	
<p><b>19.06 Corrosion &amp; Wear Protection</b>  Internal and external aluminum parts of the tool that are susceptible to wear or corrosion must be anodized to provide maximum durability. The tool must be capable of withstanding a 10-day salt spray test, and still be able to function normally. Blades must have a method of lubrication through the hinge bolt using a grease gun.</p>	✓	
<p><b><u>GENERAL CONDITIONS</u></b></p>		

Specifications	Bidder Complies	
	Yes	No
<p><b><u>20.00 Hydraulic Power Lifting Wedge</u></b>  The tool must be capable of withstanding a static over-load pressure of twice the working pressure. This 2:1 over-load ratio is requirement to provide maximum safety to the operator. The tool must be a "one-person" operated lightweight tool, which means that one person will be able to position, guide and operate the tool without the assistance of other people. For this reason the tool will be equipped with a carrying handle, which allows the operator to keep the tool evenly balanced in all positions even with one hand. Couplers must be one hand operated, flat-face, non-drip couplings with built-in automatic locking feature. Couplers must be supplied with aluminum protective dust caps. Pigtail hoses will be connected to the rear of the deadman's handle, leading away in line with the tool avoiding hindrance to the operator. Pigtail hose connection shall be protected so that the connection is not accessible or susceptible to damage. Pigtail hoses shall be equipped with full-length, spring-type, protective bend restrictors.</p>	✓	
<p><b><u>20.01 Deadman's Handle</u></b>  The tool must be activated by means of a rotary deadman's handle, operated by a twist of the wrist. For ease of operation, the handle shall have a maximum rotation of 20° in either direction. When the deadman's handle is released, it must return to the neutral position automatically. The deadman's handle will provide one-handed control of opening and closing functions. The deadman's handle shall provide 360 degree access to the operator allowing operation of the tool in any position. The deadman's handle must be located in such a way that it can be operated, guided and supported easily by right and left handed operators without having to change the position of the hands, even when wearing gloves. The deadman's control must be capable of withstanding 6000 endurance cycles, one cycle consisting of opening and closing the tool.</p>	✓	
<p><b><u>20.02 Carrying Handle</u></b>  The distance between the deadman's handle and the U-shaped carrying handle will be no less than 12" (305 mm) to provide a natural position for both hands during operation and to allow for complete control of the tool. The tool shall remain in a balanced horizontal position when held only by the carrying handle. In order to provide improved grip in all weather conditions, the carrying handle must have a non-slip surface.</p>	✓	
<p><b><u>20.03 Safety and Protection</u></b>  For maximum safety of the operator all power wedges shall contain a safety relief valve to protect the tool against over-pressurization caused by accidentally disconnecting the return line of the tool. The tool will have automatic, non-return check valves built in so that the tool will hold the load when the deadman's handle is released, whether the tool is lifting or lowering. If pressure should drop because of interruption of the power source for any reason, the tool must hold the load. A cover for the safety of the user must protect all moving parts.</p>	✓	
<p><b><u>20.04 Blades/Wedges</u></b>  The insertion plates and wedge of the power wedge must be manufactured out of extremely high tensile steel, protected against corrosion.</p>	✓	

Specifications	Bidder Complies	
	Yes	No

**20.05 Pump**

Hydraulic power should be delivered from a gasoline or electrically driven pump. Alternatively, a manually operated pump or an air driven pump may be used. To provide maximum ease of use (lightest weight) to the operator the pump must be a completely separate unit from the rescue tool.



**20.06 Forces**

The power wedge must exert a maximum lifting force of 52,900 lbs (235 kN) The power wedge will have a maximum lifting height of 2" (50 mm), minimum opening of 1/4" (6 mm) and a maximum insertion length under the load of 2 1/4" (60 mm).



**20.07 Weight & Dimensions**

The weight of the ready-for-use tool may not exceed 24 1/2 lbs (11 kg) including hydraulic oil. Length of tool including hose bend radius not to exceed 29 1/4" (743 mm). Width not to exceed 9" (229 mm). Height not to exceed 8" (203 mm). Blade width will be 2 3/8" (60 mm)



**20.08 Corrosion & Wear Protection**

Internal and external aluminum parts of the tool that are susceptible to wear or corrosion must be protected by anodization to provide maximum durability. The tool must be capable of withstanding a 10-day salt spray test, and still be able to function normally. The power wedge will be provided with a rubber protection cap over the insertion plates and wedge.



**GENERAL CONDITIONS  
(MOUNTING BRACKETS)**

**21.00 Hydraulic Tool Mounting Brackets(Optional Purchase)**

Itemize the cost of brackets for each of the following pieces of equipment that are part of the bid:

- Cutters \$ 250 each
- Spreaders \$ 260 each
- Rams \$ 100 each

**GENERAL CONDITIONS  
(TOOL TRADE-IN ALLOWANCE)**

**22.00 Trade-in Allowance for Used Tools**

Each bidder shall provide a written trade-in allowance for the following tools:

- Gasoline powered Hydraulic Power Unit \$ \_\_\_\_\_ each
- Hydraulic Spreader \$ \_\_\_\_\_ each
- Hydraulic Cutter \$ \_\_\_\_\_ each
- Large Hydraulic Ram \$ \_\_\_\_\_ each
- Medium Hydraulic Ram \$ \_\_\_\_\_ each
- Small Hydraulic Ram \$ \_\_\_\_\_ each

*These would all have to be evaluated on a case by case basis.*

# Specifications

Bidder  
Complies

Yes No

## GENERAL CONDITIONS (BID PRICE)

### 23.00 Hydraulic Tool Bid Price

Bidder offers the following prices for the hydraulic rescue tools specified in the above bid statement.

-Hydraulic power unit with gasoline engine	\$ <u>7369</u> -	each	SR20 PC2
-Optional power with gasoline engine	\$ <u>8465</u> -	each	DPV31
-Manual power unit #1	\$ <u>4680</u> -	each	SR10 PC1
-Manual power unit #2	\$ <u>2788</u> -	each	HTT1800C
-Air/Hydraulic power unit	\$ <u>1587</u> -	each	AHS1400
-Hydraulic cutter #1	\$ <u>4435</u> -	each	4020
-Hydraulic cutter #2	\$ <u>5359</u> -	each	4050 NCT
-Hydraulic cutter #3	\$ <u>5751</u> -	each	4055 NCT
-Hydraulic mini cutter	\$ <u>3470</u> -	each	4007
-Hydraulic special materials cutter	\$ <u>3818</u> -	each	Sme 4006
-Hydraulic spreader #1	\$ <u>5841</u> -	each	4242
-Spreader #1 Accessory package	\$ <u>976</u> -	each	
-Hydraulic spreader #2	\$ <u>6930</u> -	each	4260
-Spreader #2 Accessory package	\$ <u>1478</u> -	each	
-Hydraulic spreader #3	\$ <u>6837</u> -	each	4240
-Spreader #3 Accessory package	\$ <u>1069</u> -	each	
-Hydraulic Extension Hose	\$ <u>845</u> -	each	32' CORE
-Small Hydraulic Push/Pull Ram	\$ <u>3002</u> -	each	4321
-Large Hydraulic Push/Pull Ram	\$ <u>3252</u> -	each	4331
-Medium Sized Twin Plunger Ram	\$ <u>3551</u> -	each	4322
-Push/Pull Ram Accessory package	\$ <u>2257</u> -	each	
-Small Hydraulic Telescopic Ram	\$ <u>3620</u> -	each	4340
-Large Hydraulic Telescopic Ram	\$ <u>4453</u> -	each	4350
-Telescopic Ram Accessory package	\$ <u>N/A</u>	each	
-Hydraulic Cutter/Spreader Combination tool	\$ <u>4555</u> -	each	4150
-Manual Cutter/Spreader Combination tool	\$ <u>4675</u> -	each	HCT3120
-Electric Cutter/Spreader Combination tool	\$ <u>9460</u> -	each	GET 4120
-Hydraulic Lifting Wedge	\$ <u>3173</u> -	each	3624
-Replacement Blades for Hydraulic cutter #1	\$ <u>424</u> -	each	4020 Blades
-Replacement Blades for Hydraulic cutter #2	\$ <u>776</u> -	each	4050 Blades
-Replacement Blades for Hydraulic cutter #3	\$ <u>982</u> -	each	4055 Blades
-Replacement Blades for Hydraulic Mini Cutter	\$ <u>416</u> -	each	3005 Blades
-Replacement Blades for Special Materials Cutter	\$ <u>167</u> -	each	Sme 4006 Blades
-Percentage of Catalogue Items	\$ <u>5%</u>	each	

### 23.01 Bid Price Guarantee

Bidder guarantees price for a period of two (2) years for future purchases. All pricing shall include delivery and set up.

Specifications	Bidder Complies							
	Yes	No						
<p><b>GENERAL CONDITIONS</b> (Service of Hydraulic Tools)</p> <p><b>24.00 <u>Guarantee of Tool Repair</u></b> Award winning vendor guarantees service representative to assess tool repair or replacement needs at purchaser's location within twenty-four (24) hours of being contacted by purchaser. Vendor will provide replacement tool while on sight for service call and/or while tool is returned to service facility.</p> <p><b>24.01 <u>Service Training</u></b> Manufacturer of purchased tools shall provide training for tool service and repair to the purchasing agency.</p> <p><b><u>EXCEPTIONS</u></b> All exceptions shall be stated no matter how seemingly minor. Any exceptions not taken shall be assumed by the purchaser to be included in the proposal, regardless of the cost to the bidder.</p> <p><b><u>COMMERCIAL GENERAL LIABILITY INSURANCE</u></b> The successful bidder shall, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of commercial general liability insurance:</p> <table border="0"> <tr> <td>Products/Completed Operations Aggregate</td> <td>\$2,000,000</td> </tr> <tr> <td>Personal and Advertising Injury</td> <td>\$1,000,000</td> </tr> <tr> <td>Each Occurrence</td> <td>\$1,000,000</td> </tr> </table> <p>Coverage shall be written on a Commercial General Liability form. The policy shall be written on an occurrence form and shall include Contractual Liability coverage. The policy shall include owner as an additional insured as their interest may appear.</p> <p>The required limits can be provided by one or more policies provided all other insurance requirements are met.</p> <p>A carrier(s) rated "Excellent" by A.M. Bests shall provide coverage.</p> <p><b><u>UMBRELLA/EXCESS LIABILITY INSURANCE</u></b> The successful bidder shall, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of umbrella liability insurance:</p>	Products/Completed Operations Aggregate	\$2,000,000	Personal and Advertising Injury	\$1,000,000	Each Occurrence	\$1,000,000	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>	
Products/Completed Operations Aggregate	\$2,000,000							
Personal and Advertising Injury	\$1,000,000							
Each Occurrence	\$1,000,000							



Specifications	Bidder Complies	
	Yes	No
<p>Aggregate: \$25,000,000  Each Occurrence: \$25,000,000</p> <p>The policy shall be written on an occurrence basis and at a minimum provide the same coverage's as Bidder's General Liability, Automobile Liability and Employer's Liability policies. Owner shall be included as an additional insured on the General Liability and Automobile Liability policies as their interest may appear. The required limits can be provided by one or more policies provided all other insurance requirements are met.</p> <p>Bidder agrees to furnish owner with a current Certificate of Insurance with the coverage listed above along with its bid. The certificate shall be made out to the purchaser and be an original, no photocopies shall be accepted. The Certificate of Insurance shall provide that owner be given 30 days advance notice of cancellation, no renewal or material change in coverage.</p>		

**RISK MANAGEMENT PROVISIONS  
INSURANCE AND INDEMNIFICATION**

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**INDEMNIFICATION AND HOLD HARMLESS PROVISION**

- (1) It is understood and agreed by the parties that Vendor hereby assumes the entire responsibility and liability for any and all damages to persons or property caused by or resulting from or arising out of any act or omission on the part of Vendor or its employees, agents, servants, owners, principals, licensees, assigns or subcontractors of any tier (hereinafter "Vendor") under or in connection with this agreement and/or the provision of goods or services and the performance or failure to perform any work required thereby.
- (2) Vendor shall indemnify, save, hold harmless and defend the Lexington-Fayette Urban County Government and its elected and appointed officials, employees, agents, volunteers, and successors in interest (hereinafter "LFUCG") from and against all liability, damages, and losses, including but not limited to, demands, claims, obligations, causes of action, judgments, penalties, fines, liens, costs, expenses, interest, defense costs and reasonable attorney's fees that are in any way incidental to or connected with, or that arise or are alleged to have arisen, directly or indirectly, from or by Vendor's performance or breach of the agreement and/or the provision of goods or services provided that: (a) it is attributable to personal injury, bodily injury, sickness, or death, or to injury to or destruction of property (including the loss of use resulting therefrom), or to or from the negligent acts, errors or omissions or willful misconduct of the Vendor; and (b) not caused solely by the active negligence or willful misconduct of LFUCG.
- (3) In the event LFUCG is alleged to be liable based upon the above, Vendor shall defend such allegations and shall bear all costs, fees and expenses of such defense, including but not limited to, all reasonable attorneys' fees and expenses, court costs, and expert witness fees and expenses, using attorneys approved in writing by LFUCG, which approval shall not be unreasonably withheld.
- (4) These provisions shall in no way be limited by any financial responsibility or insurance requirements, and shall survive the termination of this agreement.

**FINANCIAL RESPONSIBILITY**

VENDOR understands and agrees that it shall, prior to final acceptance of its bid and the commencement of any work, demonstrate the ability to assure compliance with the above Indemnity provisions and these other risk management provisions.

**INSURANCE REQUIREMENTS**

YOUR ATTENTION IS DIRECTED TO THE INSURANCE REQUIREMENTS BELOW, AND YOU MAY NEED TO CONFER WITH YOUR INSURANCE AGENTS, BROKERS, OR CARRIERS TO DETERMINE IN ADVANCE OF SUBMISSION OF A RESPONSE THE AVAILABILITY OF THE INSURANCE COVERAGES AND ENDORSEMENTS REQUIRED HEREIN. IF YOU FAIL TO COMPLY WITH THE INSURANCE REQUIREMENTS BELOW, YOU MAY BE DISQUALIFIED FROM AWARD OF THE CONTRACT.

Required Insurance Coverage

VENDOR shall procure and maintain for the duration of this contract the following or equivalent insurance policies at no less than the limits shown below and cause its subcontractors to maintain similar insurance with limits acceptable to LFUCG in order to protect OWNER against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by LFUCG. The cost of such insurance shall be included in any bid:

<u>Coverage</u>	<u>Limits</u>
General Liability (Insurance Services Office Form CG 00 01)	\$1 million per occurrence, \$2 million aggregate or \$2 million combined single limit
Commercial Automobile Liability (Insurance Services Office Form CA 0001)	combined single, \$1 million per occurrence
Worker's Compensation	Statutory
Employer's Liability	\$500,000.00

The policies above shall contain the following conditions:

- a. All Certificates of Insurance forms used by the insurance carrier shall be properly filed and approved by the Department of Insurance for the Commonwealth of Kentucky. LFUCG shall be named as an additional insured in the General Liability Policy and Commercial Automobile Liability Policy using the Kentucky DOI approved forms.
- b. The General Liability Policy shall be primary to any insurance or self-insurance retained by LFUCG.
- c. The General Liability Policy shall include a Products Liability endorsement unless it is deemed not to apply by OWNER.
- d. LFUCG shall be provided at least 30 days advance written notice via certified mail, return receipt requested, in the event any of the required policies are canceled or non-renewed.
- e. Said coverage shall be written by insurers acceptable to LFUCG and shall be in a form acceptable to LFUCG. Insurance placed with insurers with a rating classification of no less than Excellent (A or A-) and a financial size category of no less than VIII, as defined by the most current Best's Key Rating Guide shall be deemed automatically acceptable.

#### Renewals

After insurance has been approved by OWNER, evidence of renewal of an expiring policy must be submitted to OWNER, and may be submitted on a manually signed renewal endorsement form. If the policy or carrier has changed, however, new evidence of coverage must be submitted in accordance with these Insurance Requirements.

#### Deductibles and Self-Insured Programs

**IF YOU INTEND TO SUBMIT A SELF-INSURANCE PLAN IT MUST BE FORWARDED TO LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT, DIVISION OF RISK MANAGEMENT, 200 EAST MAIN STREET, LEXINGTON, KENTUCKY 40507 NO LATER THAN A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO THE RESPONSE DATE.** Self-insurance programs, deductibles, and self-insured retentions in insurance policies are subject to separate approval by Lexington-Fayette Urban County Government's Division of Risk Management, upon

review of evidence of VENDOR's financial capacity to respond to claims. Any such programs or retentions must provide LFUCG with at least the same protection from liability and defense of suits as would be afforded by first-dollar insurance coverage. If VENDOR satisfies any portion of the insurance requirements through deductibles, self-insurance programs, or self-insured retentions, VENDOR agrees to provide Lexington-Fayette Urban County Government, Division of Risk Management, the following data prior to the final acceptance of bid and the commencement of any work:

- a. Latest audited financial statement, including auditor's notes.
- b. Any records of any self-insured trust fund plan or policy and related accounting statements.
- c. Actuarial funding reports or retained losses.
- d. Risk Management Manual or a description of the self-insurance and risk management program.
- e. A claim loss run summary for the previous five (5) years.
- f. Self-Insured Associations will be considered.

#### Verification of Coverage

VENDOR agrees to furnish LFUCG with all applicable Certificates of Insurance signed by a person authorized by the insurer to bind coverage on its behalf prior to final award, and if requested, shall provide LFUCG copies of all insurance policies, including all endorsements.

#### Right to Review, Audit and Inspect

VENDOR understands and agrees that LFUCG may review, audit and inspect any and all of its records and operations to insure compliance with these Insurance Requirements.

#### DEFAULT

VENDOR understands and agrees that the failure to comply with any of these insurance, safety, or loss control provisions shall constitute default and that LFUCG may elect at its option any single remedy or penalty or any combination of remedies and penalties, as available, including but not limited to purchasing insurance and charging VENDOR for any such insurance premiums purchased, or suspending or terminating the work.

00337079





## Certificate for Lifetime Warranty for Holmatro® hydraulic rescue tools

### Warranty:

Holmatro® hydraulic rescue tools, parts and accessories are guaranteed against defects in material and workmanship as long as owned by the original purchaser.

The identity of the original purchaser and the date of purchase shall be established in each case by the receipt of a properly completed warranty registration card.

### Warranty Terms:

The obligations of Holmatro® under this warranty include free replacement of the necessary parts and the shipping to return the equipment to the user, provided the inspection of the equipment has proved that the parts were defective at the time of purchase or were improperly designed or manufactured. The warranty inspection can only be performed at the Holmatro® service center and shipping costs to a Holmatro® service center will be for purchaser's account. Said warranty shall remain in effect only if (1) such goods are used normally and properly in accordance with Holmatro® instructions to maintenance and operation, whether given orally or set forth in manuals and instruction sheets furnished by Holmatro®, and (2) the purchaser gives prompt notice to Holmatro® of any such defects and preserves and turns over a defective goods, parts or items.

### Exclusions:

This warranty covers all defects in material and workmanship except:

Any damage occurring during shipments of the goods (for which claims shall be presented to the carrier). Normal wear and tear parts and consumable parts and items including (without limitation) with respect to hydraulic tools, wearables, accessories, all seal rings, plunger blocks, couplings and cutter blades. Goods sold but not manufactured by Holmatro®, such as the Briggs & Stratton engine (for which Holmatro® shall make available to purchaser those warranties available to Holmatro® by the manufacturer). Damage caused by abuse, improper use or corrosion. Damage caused by repairs performed by persons other than a Holmatro® service center or an official Holmatro® factory-trained distributor. Damage resulting from the use of parts other than genuine Holmatro® parts. Damage as the result of improper or unreasonable maintenance.

THE WARRANTY STATED HEREIN IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, STATUTORY OR IMPLIED. HOLMATRO EXPRESSLY DISCLAIMS ANY AND ALL WARRANTIES OF MERCHANTABILITY, FITNESS, PERFORMANCE OR SUITABILITY FOR A PARTICULAR PURPOSE.

### Limitation of Damages:

Holmatro's obligation under this warranty is limited to repair and/or replacement, at Holmatro's option, of any defective Holmatro® tool, part, accessory or item, and under no circumstances, whether due to a breach of any warranty or any other cause, and whether arising in contract or in tort (including negligence or strict liability) shall Holmatro be liable for (1) consequential or indirect loss or damage including, but not limited to, loss of profits, loss of production, downtime, or liabilities to customers or other third parties, or (2) loss or damage arising out of the sole or common negligence of the purchaser, its employees or agents, or any third party, or (3) any special or punitive damages. If Holmatro® determines, in its sole and final discretion, that the nature of the defect precludes repair and/or replacement, Holmatro® reserves the right to satisfy any warranty obligation by refunding the full purchase price and return of all defective goods to Holmatro, shipping costs prepaid. Any action for breach of warranty or other action commenced within one year after such cause of action arises, except where applicable law would prohibit any restriction on the bringing of such an action.

### Notices:

For all notices, information and inquiries concerning this warranty or Holmatro® service centers contact:

Holmatro, Inc.  
505 McCormick Drive  
Glen Burnie, MD 21061-3254 USA  
phone: 410-768-9662  
fax: 410-768-4878  
<http://www.holmatro-usa.com>