

CITY OF TORRINGTON
INVITATION TO BID



BID # FRT-022-083106 FIRE RESCUE TOOLS

Date of bid opening: August 31, 2006 Time: 10:00 AM Location: Room 109A, City Hall

Bid Bond or Certified Check required with bid: 5%

Performance Bond required if awarded bid: See "Instructions to Bidders"

Submit an original bid and a duplicate copy.

The City of Torrington reserves the right to accept or reject any or all bids or any portion thereof, to waive technicalities, and to award the contract as will best serve the public interest.

Omit State and Federal Taxes.

All prices must be F.O.B.: Destination (Torrington) unless otherwise requested.

Dated in Torrington: July 26, 2006

Purchasing Agent _____
 Charlene R. Antonelli, CPPB

Item	PRICE
FIRE RESCUE TOOLS PER SPECIFICATION	USE ATTACHED PRICE SHEET

Bid Submitted By: _____

Name of Company _____

Address _____

Phone _____ Fax _____

Delivery Date _____

E-mail address _____

Comments: _____

 Signature

 Title

 Date

 Web Page

INSTRUCTIONS TO BIDDERS

Sealed bids will be received by the Purchasing Agent, Room 109A, 140 Main St., Torrington, CT until the time and date specified on the cover sheet and opened thereafter in the Purchasing Department, Room 109A. Bids received later than the time specified will not be accepted. Amendments to or withdrawal of any section of the submitted bid received later than the time & date set for the bid opening will not be considered. Bid proposals must remain in effect for a minimum of 30 days unless otherwise noted elsewhere in the bid specifications.

BID DOCUMENTS: are available over the Internet on the City's web page, under "open bids", www.torrington-CT.org. Businesses without internet access may contact the Purchasing Department at 860-489-2224 for the bid documents. Any alleged oral agreement made by a bidder or contractor with any agency or employee of the City of Torrington will be disregarded.

FREIGHT: Prices quoted shall be net delivery **F.O.B. Torrington, CT**. All bid prices must include prepaid delivery, assembly, and/or installation (ready for operation and/or use) of all equipment and/ or materials to the individual locations(s) as designated by the Purchasing Agent. All bid prices are to be submitted on the sheets provided on this bid. Quantities and pricing are to be listed in accordance with these sheets.

EXPARTE COMMUNICATION: Please note that to insure the proper and fair evaluation of a bid, the City of Torrington prohibits exparte communication (i.e., unsolicited) initiated by the Bidder to a City Official or Employee evaluating or considering the bids prior to the time a bid decision has been made. Communication between Bidder and the City will be directed in writing to the Purchasing Agent only. The Purchasing Agent will obtain the information or clarification needed. Exparte communication may be grounds for disqualifying the offending Bidder from consideration or award of the bid and repeat offenders may be disqualified from future bids.

QUESTIONS: Request for interpretation of any portion of the bid shall be made to the Purchasing Agent at (860) 489-2225. All replies will be given verbally and a copy of any such inquiry and advice (if deemed vital to the bid by the Purchasing Agent) will be made available to each prospective bidder. Bidders should check the web site for addendums/updates 48 hours prior to the bid opening.

In the event of receipt of identical bids as to offerings, delivery, service, content, price, etc., the bid will be awarded in accordance with the information contained in the bid document, based on first received as to date and time of receipt of the bid.

NON-COLLUSION STATEMENTS: In order for bids to be considered, a non-collusive statement must be submitted with the bid. A sample non-collusive bid statement is attached. Bidders may elect to submit their own notarized non-collusion statement.

CONDITIONAL, QUALIFIED OR NON-RESPONSIVE BIDS/PROPOSALS: All bids/proposals shall be submitted in the form and manner as indicated by the bid documents and bid forms. Any proposal which is not submitted in the form and manner indicated by the bid documents or which contains information, statements, conditions, or qualifications which place conditions or qualifications on the proposal submittal for purposes of making an award, or which alter any proposal terms, conditions, specifications, or forms, which has not been previously approved by written addendum from the Purchasing Agent, or which does not meet legal requirements, shall be declared as a qualified, conditional, or non-responsive proposal and shall be rejected without further consideration. Any proposal response that does not fully respond to and comply with all detailed specifications or requests for information including execution of proposal forms, may be declared "non-responsive" and recommended for rejection. The City of Torrington shall not be responsible for any errors or omissions of the Offeror.

UNBALANCED BIDS AND/OR EXCESSIVE LINE ITEM PRICES: The City reserves the right to reject any bids in which unit prices, in the sole opinion of the City, are unbalanced. In addition, where the City has decided to make an award, it further reserves the right to non-utilize a particular line item that in the sole opinion of the City is excessively priced, and reserves the right to obtain that item from another source.

CONTRACT: A response to an Invitation To Bid is an offer to contract with the City of Torrington based upon the terms, conditions, and specifications contained in the City's ITB. Bids do not become contracts unless and until executed by the City, eliminating a formal signing of a separate contract. For that reason, all of the terms and conditions of the contract are contained in the ITB, unless any of the terms and conditions are modified by an ITB Amendment, a Contract Amendment, or by mutually agreed terms and conditions in the contract documents.

TAXES: Omit all State and Federal taxes from the bid. The City of Torrington is exempt from the payment of taxes imposed by Federal government and/or the State of Connecticut.

OWNERSHIP OF DOCUMENTS: All documents, including drawings, plans, specifications, videotapes, or other documents or maps prepared by a contractor pursuant to any agreement arising from this bid shall become the property of the City of Torrington upon completion of the project or any termination of the project prior to the completion of the project.

LEGALITY: All bid offers for commodities, work, materials, or equipment hereunder shall comply in every respect with the laws, specifications and requirements of the State of Connecticut and the Federal government. Contractor will comply with the provisions of the Connecticut Fair Employment Practices Law.

LANGUAGE DISPUTES: Any disputes over the interpretation and/or meaning of any individual terms, conditions, and/or language within this Request for Bid/Proposal document shall be resolved by and at the sole discretion of the City Purchasing Agent in a manner that is in the best interest of, and best advantage to, the City of Torrington, provided any such interpretation shall be reasonable. In the event that an individual term, condition, and/or language/wording is determined at any time, including after award, by the City Purchasing Agent to be "not applicable at all" to his contract, then the term, condition, and or language/wording may be disregarded, even though an addendum is not issued. However, if the Purchasing Agent determines that the term, condition, and/or language/wording "is applicable in part", then the term, condition, and/or language/wording will apply to the degree applicable, even though an addendum is not issued.

RESPONSIBILITY: The Contractor shall save the City of Torrington, its agents or employees, harmless from liability of any kind for all claims of labor payments and materials furnished for this work, and for use of any copyrighted or uncopyrighted composition, secret process patented or unpatented invention, article or application furnished or used in the performance of the contract of which the Contractor is not the patentee, assignee, or licensee. The successful bidder agrees to indemnify and hold harmless the City of Torrington, its agents and employees from any and all liability arising out of the successful bidders' operations, functions and/or supplied items.

The successful bidder, vendor, and/or contractor must protect all property of the City of Torrington (i.e. all floors, furniture, grass, land, etc.) from injury or other damage. Any damage so caused must be repaired by contractor/vendor at his/her own expense. At the completion of work, the vendor and/or contractor must remove from the premises all surplus materials and all debris created by same. The premises must be left in a broom-clean and finished condition acceptable to the owner or its agents. Successful bidder will furnish adequate protection from damage for all work and to repair damage of any kind; for which he or his workers are responsible, to the premises or equipment to his own work or to the work of other contractors.

DEFAULT: It shall be understood that a bidder supplying equipment and/or supplies will be considered to be in default if/when they have not delivered the item(s) within the time constraints listed in this document or subsequent purchase orders and/or contract. Bidders providing a service and/or construction will be considered to be in default if/when they have failed to meet the completion date set forth in this document or its subsequent contract and/ or purchase orders and/ or they have ceased work on the project for a period of fifteen (15) working days, cumulative or consecutive.

SUSPENSION AND DEBARMENT: The Purchasing Agent may suspend or debar the right of a vendor to be included on the vendor list and has the authority to reject any bid or response from any suspended or debarred vendors.

Suspension: A vendor may be suspended based on the following:

- 1) A vendor defaults or fails to fully comply with the conditions, specifications, or terms of a Bid, Quotation, Proposal or Contract with the City of Torrington.
- 2) A vendor commits any fraud or misrepresentation in connection with a Bid, Quotation, Proposal, or Contract with the City of Torrington.
- 3) A vendor is charged by a court with the commission of a criminal offense as incident to obtaining or attempting to obtain a public or private contract or sub-contract, or in the performance of such contract or sub-contract
- 4) A vendor is charged by a court with the following: embezzlement, theft, forgery, bribery, falsification or destruction of records, receiving stolen property, or any other offense indicating a lack of business integrity or business honesty which currently, seriously, and directly affects responsibility as a City contractor. If charges are dismissed or the vendor is found not guilty, the suspension shall be lifted automatically upon written notification and proof of final court disposition provided by the vendor to the City of Torrington.
- 5) A vendor becomes insolvent, has proceedings in bankruptcy instituted against it or, compounds its debts or assigns over its estate or effects for payment thereof, or has a receiver to trustee appointed over its property.
- 6) A vendor's commission of any act or omission to perform act is grounds for debarment.
- 7) A vendor violates the ethical standards set forth in local, state, or federal law.
- 8) Any other cause the Purchasing Agent determines to be so serious and compelling as to materially and adversely affect responsibility of a vendor as a City contractor, including but not limited to suspension by another government entity

Debarment: A vendor may be permanently debarred for the following:

- 1) Default or failure to fully comply with the conditions, specifications, drawings, or terms of a bid, proposal, or contract with the City of Torrington twice in any three-year period.
- 2) Conviction of or judgment obtained in a court for commission of those offenses in connection with the vendor's commercial enterprise stated sections 3) or 4) of suspension section listed above. If the conviction is reversed through the appellate process, the debarment shall be removed upon written notification and proof of final Court disposition from the vendor to the City of Torrington.

TRADE NAME REFERENCES: Any and all references to trade names, types, styles, model numbers, stock numbers or catalogs are intended to be descriptive only and not restrictive. The intention is to indicate to bidders the type and quality of the articles and or materials that will be satisfactory. When reviewing the information, it is the responsibility of the prospective bidder to inform the City of Torrington of any discrepancy that is found (i.e. number listed does not fit item description) Bids received on other makes or models with reference to other catalogs will be considered. The bidder is to clearly state in his bid exactly what he intends to furnish and to furnish with his bid a cut or illustration or other descriptive matter that will clearly indicate and give specification as to the product he/she proposes to furnish. Where a bid is offered on an item other than the trade standard used in the specification the item should be identified on the bid form by entering the MAKE, TRADE NAME AND MODEL NUMBER. It is understood that any substitute and/or alternate that might be offered are guaranteed by the bidder to be of equal or better quality than is referenced in the bid. The item(s) must be equivalent as to function, basic design, type and quality of material, method of construction and any required dimensions. It shall be further understood that during original as well as subsequent shipments spot checks will be performed to insure that the items received are in fact the items offered in the bid. When received, should items/materials prove to be different from what was bid in any way, the bidder agrees to the return of the items and agrees to supply correct items (per bid specifications) at the bidders expense. In the event this return action is required, it is understood the bidder may be subject to removal from the city's approved bidder's list. Bidders are cautioned that surplus, seconds, factory rejects, floor samples, close outs or distressed items are not acceptable and shipments of substitutions, defective or shop-worn equipment will be returned for a full refund at the vendor's expense.

QUANTITY: The quantities and/or materials listed in the specifications/bid sheets may be increased or decreased by the City of Torrington or its designated representative based on actual need at the time the purchase orders are placed.

QUALITY: The City of Torrington reserves the right to reject any proposal in whole or in part offering equipment and/or materials and/or services that in its or its agents opinion does not meet the quality standards desired. Such decision is final and not subject to further recourse by the bidder.

SAMPLES: forwarded by the bidder will be returned to the bidder at his request and expense. Requests for return of samples must be submitted in writing at the time the sample is given to the City of Torrington or its representative. Samples not returned to the bidder will be disposed of at the discretion of the City of Torrington or its designated representative. Large pieces of equipment submitted for evaluation and inspection are to be picked up by the bidder within 30 days of the bid opening date. Items remaining

with the City of Torrington after 30 days will be discarded.

AWARD: It is the intent to award this bid in its entirety to one bidder, however, the City reserves the right to award the bid line item by line item if it is deemed in its best interest to do so. In addition, bidders are advised that should budgetary constraints dictate, part, and/or all the items in this bid may be rejected. This decision shall be considered final and not subject to recourse by the bidder.

In determining the lowest or highest responsible bidder, the City reserves the right to consider, in addition to price, the compatibility, quality, cost of maintenance and availability of parts, experience and/or past performance of the bidder, sufficiency of the financial resources of the bidder as relates to the offerings as well as the ability of the bidder to provide future maintenance and service.

Documents previously submitted to the city of Torrington will not be considered as satisfying submission requirements for this bid.

No bidder can claim any contract rights by virtue of bidding alone. Awarding of the contract means actual written notice by letter and a properly executed purchase order to the bidder or bidders to whom the bid has been awarded.

OPTION TO RENEW: This contract may be extended for four (4) additional one (1) year periods, provided all terms and conditions remain in full force and effect except for the contract period being extended. This option, if exercised, is to be executed in the form of a letter of agreement, to be issued no later than 60 days prior to the expiration of the then current contract period. This option to renew requires the mutual agreement of both parties. Refusal by either party to exercise this option to extend, will cause this contract to expire on the original or mutually agreed upon date. The total period of this contract, including all extensions as a result of exercising this option, will not exceed a maximum combined period of five (5) years.

BONDS:

Performance Bond: The Contractor, when awarded the Bid, must submit within 10 days of the bid award, and before beginning the work or signing a contract, a Performance Bond amounting to one hundred percent (100%) of the total amount of the bid. Said performance bond must be in favor of the City of Torrington and executed by a surety company authorized to do business in the State of Connecticut. The City of Torrington reserves the right to retain the Bid Bond or Certified Check on bids below \$25,000.00 as a Performance Bond. On bids of \$25,000.00 or more the Performance Bond may be furnished in the following manner: Performance Bond, Surety Bond, Certified Check, Bank Check, Savings Account in both the City & Vendor's name or Letter of Credit

Maintenance Bond: The contractor, upon signing a contract and before beginning the work, must submit to the Purchasing Agent a Maintenance Bond to guarantee that if defects in either labor or materials becomes evident within one year after completion and acceptance of work will be fixed at no cost to the City of Torrington. The maintenance bond may be included as a portion of the Performance bond or as a separate bond. If it is issued as a separate bond said maintenance bond must be in favor of the City of Torrington and issued by a surety company licensed and authorized to do business in the State of Connecticut.

Labor and Material Bonds: Per Section 49-41 of the Conn General Statutes, on Public Works project where the estimate is in excess of \$25,000.00, a labor (payment) and material bond must be furnished to the City. Said bonds must be filed with the Purchasing Agent prior to the commencement of work.

Consent for Release of Final Payment: AIA Document G707 & G706, or equivalent, must be signed and returned by the Surety Company before final payment will be released to the contractor.

INSURANCE:

Certificate of Insurance: All insurers must have an AM Best rating of A-V11 or better and admitted to do business in the State of Connecticut. All insurance policies must include a Waiver of Subrogation whereby the insured waives its right to subrogate against the City, its subsidiaries, employees, volunteers, directors and officers. Proof of proper insurance coverage, Workers Compensation Insurance, Liability and Property damage, and Vehicle Insurance shall be filed with the City of Torrington Purchasing Agent within 10 days after the award of the bid. The Certificate of Insurance must name the City of Torrington, 140 Main St., Torrington, CT, its subsidiaries, employees, volunteers, directors & officers as the **additional insured** and filed with the Purchasing Agent ten (10) prior to commencement of work. Renewal Certificates of Insurance must be mailed to the Purchasing Agent 10 days prior to the expiration of the required coverage.

Workman's Compensation Insurance: The Contractor shall take out and maintain during the life of the contract adequate Workman's compensation Insurance for all the employees employed on said work. In case any class of employees or subcontractors is engaged in hazardous work under the contract at the site of the work is not protected under the Workman's Compensation statute, the contractor shall provide Workman's Compensation Insurance for the protection of employees not otherwise protected.

Liability Insurance: The Contractor shall take out and maintain for the life of the contract, adequate public liability insurance insuring against liability to persons not employed by him in an amount of not less than \$1,000,000.00 for injuries, wrongful death to any one person and subject to the limit for each person in an amount of not less than \$2,000,000.00 on account of one accident and property damage insurance in an amount of not less than \$1,000,000.00.

Vehicle Insurance: The Contractor shall take out and maintain for the life of the contract, adequate automotive/truck or other vehicle insurance with minimum coverage of \$1,000,000.00 each for both liability and under insured and uninsured motorist as well as any other coverage required by the State of Connecticut or requested by an official of the City of Torrington as relates to the contract.

Additional Security: The City of Torrington reserves the right to require successful bidders to enter into and such security arrangements as are deemed necessary to protect the City of Torrington, its property and goods.

PERMITS: The successful bidder agrees to obtain all work/building permits as might be required. The cost of obtaining such permits is the responsibility of the bidder. The City of Torrington reserves the right to waive local permit fees. In addition, it shall be understood that where property lines are to be considered, bidders are to verify said lines and measurements with proper City Officials prior to commencement of work.

It is to be understood that any/all specifications and/or plans or drawings contained in or developed as a result of the bid process are and shall be presented subject to the approval of the City of Torrington planning, zoning and building officials and that awards made prior to said approval are subject to cancellation.

PREVAILING WAGE: When the State of Connecticut Prevailing Wage Rate is applicable to the bid, the successful bidder must submit a Certified Payroll Record prior to any request and/or invoice for payment.

CITIZENSHIP: Each employee of the Contractor shall be a citizen of the United States or an alien who has been lawfully admitted for permanent residence as evidenced by an Alien Registration Receipt Card. The Contractor agrees not to employ any person undergoing sentence of imprisonment except as provided by Public Law 89-176, September 10, 1965, (18 USC 4082)(c)(2).

SAFETY:

Machine and/or Equipment Hazard Assessment and Safety Training: Upon delivery of machines and/or equipment, suppliers are required to provide to the end-user employees, at no additional charge, a training session that will emphasize hazard awareness and assessment and the safe use of such machinery/equipment.

Occupational Safety and Health Act of 1970: Seller shall warrant that the machinery, equipment or other materials covered hereby shall upon delivery to the City of Torrington, be in compliance with the standards required by said Act and any updates as pertain to or reference said Act as well as the standards required by comparable State and local laws, if any, for such machinery, equipment or other materials in effect at the time of delivery.

Machines and/or Equipment Lockout/Tagout: In an effort to comply with OSHA's final rule on the control of hazardous energy sources, vendors must warrant that any and all machines and/or equipment as is covered under this bid will be supplied and/or installed equipped with lockout/tagout devices as prescribed by OSHA.

Toxic Substance Control Act (PL94-469): Seller warrants that each and every chemical substance constituting or contained in the products sold or otherwise transferred to the City of Torrington under this bid and subsequent purchase orders is not on the list of prohibited chemical substances compiled and published by the Administrator of the Environmental Protection Agency pursuant to Act PL94-469 and are otherwise in compliance with said Act.

Hazardous Materials: Any materials required by this bid and subsequent purchase orders that are hazardous under federal, state, or local statute, ordinance, regulation, or agency order will be packaged, labeled, marked and shipped by the seller to comply with all federal, state and local regulations then in effect including but limited to the provisions of the Hazardous Materials Transportation Act and Regulations promulgated thereunder and will further comply with any special requirements and any policies and procedures of the City of Torrington relating to the purchase of hazardous materials as might be noted on subsequent purchase orders or otherwise communicated to seller in writing.

Material Safety Data Sheets: Shall be provided by the Seller upon delivery to the City of Torrington of any goods having constituents listed in the following references - OSHA 1910, ACHIG Current Threshold Values, DOT HazMat Table 49, IARC Carcinogen List, National Toxicology Program Carcinogen List, and/or Radioactive Materials. These Material Safety Data Sheets must be consistent with and include information required by the OSHA Hazard Communication Standard published as 29 CFR 1910.1200, as the same may be amended or supplemented from time to time.

Asbestos: Bidders are advised that asbestos-containing material may be located in the boiler rooms, pipe tunnels, storage areas and various portions of City buildings. Before proceeding on any contractual work on City buildings or their interiors, it is mandatory that bidders familiarize themselves with the asbestos-containing material and that said material be considered as a health hazard and all precautionary measures according to the Ahera Rules & Regulations be observed. It is the bidder's responsibility to notify all employees and/or subcontractors of this notification.

SUBCONTRACTORS: The successful bidder shall not employ any subcontractor to fulfill any of the duties herein specified without express, prior written approval of the City of Torrington or its designated agent.

EEO: The successful bidder shall provide any/all additionally required, affirmative action statements, fair employment plans and non-discrimination programs and statement as might be required by the City of Torrington. In connection with the execution of this bid, subsequent purchase orders and/or contracts, the seller shall not discriminate against any employee or applicant for employment because of age, race, religion, color, sex or national origin. Bidders must comply with all rules & regulations of the Department of Labor with regard to Equal Employment Opportunities as pertains to municipalities.

TERMINATION OF CONTRACT: Any contract entered into by the City and the successful bidder shall provide that the City may terminate the contract upon thirty (30) days notice to the bidder.

The City of Torrington reserves the right to award or reject any or all bids, or any portion thereof, to waive technicalities, and to award the bid and/or contracts to one or more bidders submitting essentially identical proposals and, that in the city's judgment, will best serve the public interest.

The terms and conditions of these "Instructions To Bidders" are made a part this bid.

SAMPLE FORM

Bid # _____

NON-COLLUSION AFFIDAVIT

STATE OF _____ COUNTY OF _____

I, _____, being first duly sworn, deposes and says that:

1. I am _____ of _____, the bidder that has submitted the attached request for proposal for _____;
2. I am fully informed respecting the preparation and contents of the attached RFP and of all pertinent circumstances respecting such bid;
3. Such Bid is genuine and is not a collusive or sham Bid;
4. Neither the Bidder nor any of its officers, partners, owners, agents, representatives, employees or parties of interest, including this affiant, has in any way colluded, conspired, connived or agreed directly or indirectly with any other Bidder, firm or person to submit a collusive or sham Bid in connection with the work for which the attached Bid has been submitted nor has it in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm or person to fix the price or prices in the attached Bid or of any other Bidder, or to fix any overhead, profit or cost element of the Bid price or the price of any Bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City of Torrington or any person interested in the proposed Bid; and
5. The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

Signed _____

Title _____

Subscribed and sworn to before this _____ day of _____, 20____.

Notary Public

My commission expires _____

SAMPLE FORM

BID # _____

**CONSENT OF SURETY COMPANY
TO RELEASE FINAL PAYMENT**

City
Architect
Contractor
Surety
Other

PROJECT/BID NUMBER :

TO: City of Torrington
 Attn: Purchasing Agent
 140 Main Street
 Torrington, CT 06790

CONTRACTOR: _____

In accordance with the provisions of the Contract between the City of Torrington and the Contractor as indicated above, the (insert name & address of Surety Co.)

SURETY COMPANY on bond of (insert name & address of Contractor) _____,

CONTRACTOR, hereby approves of the final payment to the Contractor, and agrees that final payment to the Contractor shall not relieve the Surety Company of any of its obligations to the CITY OF TORRINGTON as set forth in the Surety Company's bond.

Subscribed and sworn to before this
_____ day of _____, 20__.

Notary Public

My commission expires _____

Surety Company

Authorized Representative's Signature

Title

BID # FRT-022-083106 FIRE RESCUE TOOLS
SPECIFICATIONS

Four Cycle Simultaneous/Trimultaneous Equivalent Power Unit

- 1.0 The power unit will consist of a hydraulic pump in a reservoir driven by an engine. The reservoir capacity must be no less than 2 Gal (7.6 liters) or equivalent.
- 1.1 The engine is to be a 6 HP Briggs or equivalent and Strafton Intek engine or equivalent. It should have electronic ignition for ease of starting and low maintenance requirements. The muffler should have a spark arrestor to limit ignition sources.
- 1.2 The hydraulic pump is to be a two-stage radial piston pump or equivalent. The pump is to be capable of producing approximately 10,000 psi (690 bar). The system will have an approximate operating pressure of 5,000 psi (345 bar) to provide long pump life. The low-pressure stage shall shift at approximately 2000 psi (138 BAR) for faster operation.
- 1.3 The unit should be able to provide power to operate at least two tools simultaneously. There shall be a separate dump valve for each tool. Each tool should be able to operate independently, and be able to obtain full pressure and flow at the same time.
- 1.4 The unit is to have four short hoses permanently attached, with quick disconnect for adding additional lengths of hose and tools, or equivalent for quick change of hose or tools.
- 1.5 The engine and reservoir are to be protected by a tubular steel roll cage. It must surround both the engine and reservoir or equivalent protectionary system
- 1.6 The power unit is to have anti-vibration isolators to limit unwanted movement.
- 1.7 The preferred power unit will be the most powerful, compact and lightweight

BID # FRT-022-083106 FIRE RESCUE TOOLS
SPECIFICATIONS

Lightweight Spreader

- 1.2 With the approximately 32 inch arms in place the tool shall produce a spreading distance of approximately 32 in (813 mm). The spreading force will be approximately 31,000 lb. (138 kn.) measured at the tip of the jaw and have a pulling force of approximately 16,500 lb. (73 kn.) measured at the shackle hole, if applicable.
- 1.3 The preferred tool will be the most lightweight, compact and operationally efficient.
- 1.4 Tips of the tool are to be serrated and, made from investment cast heat-treated steel or equivalent. The tips of the tool must be removable for ease of repair and for the accommodation of optional tips if applicable. They are to be held in place by a field replaceable detent ball pin/ or equivalent rapid tool change system.
- 1.5 The tool should have a chain and shackle package for pulling operations. There should be two chains of approximately 6 ft (1.83m) included. The package should include a shackle for attachment of the chains to the tool. This should not require the removal of the tips for attachment, or equivalent shackle system.
- 1.6 The preferred tool will have arms that are constructed from the most lightweight and the strongest material and the arms can be removed with ease for repair, if applicable.
- 1.7 The body of the tool shall be made of aluminum alloy for its lightweight, strength and long life or equivalent, lightweight material.
- 1.8 The tool shall have three handles. One located across the center of the tool and the other two located on the sides of the body, or equivalent system for ease of use, protection of the tool and ergonomic comfort.
- 1.9 The tool shall have a dual pilot check valve or comparable system to prevent accidental movement of the arms in the event of a power loss.
- 2.0 The control mechanism shall be actuated by hand or thumb pressure. The mechanism should be protected on both sides to prevent jamming during operation. The mechanism must be of deadpan design, whereby the unit stops functioning when the hand or thumb pressure is released.
- 2.1 The tool is to have two hoses approximately 20 in (508 mm) attached, with quick disconnects on the end for the attachment of additional hose lengths.

BID # FRT-022-083106 FIRE RESCUE TOOLS
SPECIFICATIONS

Telescoping Ram, 41" (or Equivalent) Extension

- 1.0 The ram shall extend to a distance of approximately 41.3 in (1,049 mm). The retracted length is to be approximately 18.7 in (475 mm). The total stroke will be approximately 22.6 in (574 mm).
- 1.1 The piston rod shall be of solid steel for long life and stability. For ease of operation there shall be a limit of one piston rod per tool or equivalent.
- 1.2 The tool shall be capable of producing a spreading force of approximately 29,380 lb. (132.7 kn.) When opening from approximately 18.7 in to 30.3 in, or capable of producing a spreading force of approximately 14,830 lb. (66 kn.) When opening from approximately 30.3 in to 41.3 in.
- 1.3 The tool cylinder must be of aluminum alloy for long life, low weight and stability or equivalent lightweight material.
- 1.4 The tool should have a dual pilot check valve or equivalent system to prevent accidental movement of the piston rod in the event of power loss.
- 1.5 The control mechanism must be of deadpan design, whereby the unit stops functioning when pressure is released.
- 1.6 The tool is to have two hoses approximately 20 in (508 mm) attached, with quick disconnects on the end for the, attachment of additional hose lengths.
- 1.7 The preferred tool will be as lightweight and compact as possible.

BID # FRT-022-083106 FIRE RESCUE TOOLS
SPECIFICATIONS

Telescoping Ram, 59" (or Equivalent) Extension

- 1.0 The ram shall extend to a distance of approximately 59.0 in (1,499 mm). The retracted length is to be approximately 24.6 in (625 mm). The total stroke will be approximately 34.4 in (874 mm).
- 1.1 The piston rod shall be of solid steel or equivalent for long life and stability. For ease of operation there shall be a limit of one piston rod per tool or equivalent for maximum efficient operation.
- 1.2 The tool shall be capable of producing a spreading force of approximately than 29,380 lb. (132.7 kn.) or more when opening from approximately 24.6 in to 42.1 in. The tool shall be capable of producing a spreading force of approximately 14,830 lb. (66 kn.) or more when opening from approximately 42.1 in to 59 in.
- 1.3 The tool cylinder must be of aluminum alloy or equivalent for long life, low weight and stability, or equivalent lightweight material.
- 1.4 The tool should have a dual pilot check valve or equivalent system to prevent accidental movement of the piston rod in the event of power loss.
- 1.5 The control mechanism must be of deadpan design or comparable design to stop the unit from functioning when pressure is released.
- 1.6 The tool is to have two hoses approximately 20 in (508 mm) attached, with quick disconnects on the end for the, attachment of additional hose length.
- 1.7 The preferred tool will be the most lightweight and compact unit.

BID # FRT-022-083106 FIRE RESCUE TOOLS
SPECIFICATIONS

High Strength Capacity Cutter

- 1.0 The cutter opening will be approximately 6.00 in (159 mm). The cutter will be of a curved design or comparable design and have a notch to focus maximum cutting force or equivalent.
- 1.1 The preferred cutter will be the one that produces the greatest cutting force.
- 1.2 The blades of the tool should be attached to the piston rod via removable links, for ease of repair, efficient power transmission and smooth operation or equivalent system.
- 1.3 The preferred tool will be designed from the most lightweight material, and material that does not compromise the durability and longevity
- 1.4 The tool should have two handles. One located at the center of the tool and the other located below the control mechanism, or equivalent for ease of use and ergonomic comfort.
- 1.5 The tool should have a dual pilot check valve or equivalent system to prevent accidental movement of the arms in the event of power loss.
- 1.6 The control mechanism shall be actuated by hand or thumb pressure. The mechanism should be protected on both sides to prevent jamming during operation. The mechanism must be of deadpan design, whereby the unit stops functioning when hand or thumb pressure is released.
- 1.7 The tool is to have two hoses approximately 20 in (508 mm) attached, with quick disconnects on the end for the attachment of additional hose lengths.
- 1.8 The preferred tool will be the one that is the most compact and lightweight without sacrificing performance.

BID # FRT-022-083106 FIRE RESCUE TOOLS
SPECIFICATIONS

Hydraulic Hose

- 1.0 Hydraulic hose shall be electrically non-conductive thermoplastic hose or equivalent. Consisting of an inner supply tube surrounded by a woven braid of Kevlar or equivalent. The outside of the hose shall have a protective abrasion cover and will be colored orange, green, or blue, or other distinctive colors.
- 1.1 Hydraulic hose shall have a working pressure of approximately 5,000 psi with a burst pressure of approximately 20,000 psi giving the hose a safety factor of 4 to 1. The preferred hose has the best safety factor and construction.
- 1.2 The hose shall have couplings that are swaged on or equivalent system for strength. Couplings that are screwed on are not acceptable. Protective steel spring hose guards shall be installed to minimize hose kinking next to the couplings.

In bid price include at least one 30' hose per tool capable of simultaneous operation per power unit and one spare hydraulic hose per Engine (3 Engines).

BID # FRT-022-083106 FIRE RESCUE TOOLS
SPECIFICATIONS

Hydraulic Connectors

- 1.0 Hydraulic connectors shall be installed on all tools, power units, hose reels, multi-tool manifolds, and extension hoses.
- 1.1 Connectors shall consist of male and female ends that push to connect with 1/4 turn locking collars or equivalent system security system.

BID # FRT-022-083106 FIRE RESCUE TOOLS
SPECIFICATIONS

Lightweight Curved Blade Combination Tool (or equivalent)

- 1.0 The tool shall produce a spreading distance of approximately 16 in (406 mm). The spreading force will be approximately 12,000 lb. (53.4 kn.) measured on the tips of the jaws and have a closing force of approximately 10,000 lb. (44.5 kn.) measured at the shackle hole.
- 1.1 The tips of the tool must be removable for ease of repair and accommodation of optional tips if applicable. They are to be serrated and made from investment cast heat-treated steel or equivalent.
- 1.2 The tool should have a chain and shackle package for pulling operations. There should be two chains of approximately 6-ft (1.83m) included. The package should include a shackle for attachment of the chains to the tool. This should not require the removal of the tips for attachment or comparable system.
- 1.3 The cutter opening will be approximately 5.25 in (133 mm). The cutter blade will be of a curved design or comparable cutting design. The cutter will produce approximately 38,000 lb. (169 kn.) of cutting force at the center of the blade.
- 1.4 The blades of the tool should be attached to the piston rod via removable links or equivalent system, for ease of repair, efficient power transmission and smooth operation.
- 1.5 The body of the tool should be of aluminum forging or equivalent material for the most lightweight and durable tool.
- 1.6 The tool should have two handles. One located at the center of the tool and the other located below the control mechanism or equivalent for ease of use and ergonomic comfort.
- 1.7 The tool should have a dual pilot check valve or equivalent system to prevent accidental movement of the arms in the event of power loss.
- 1.8 The control mechanism shall be actuated by hand or thumb pressure. The mechanism should be protected on both sides to prevent jamming during operation. The mechanism must be of deadpan design, whereby the unit stops functioning when hand or thumb pressure is released.
- 1.9 The tool is to have two hoses approximately 20 in (508 mm) long attached, with quick disconnects on the end for the attachment of additional hose lengths.
- 1.10 The preferred tool will be the most lightweight and compact while not compromising performance.

BID # FRT-022-083106 FIRE RESCUE TOOLS
SPECIFICATIONS

Compact 4 Cycle Power Unit

- 1.0 The power unit will consist of a hydraulic pump in a reservoir driven by an engine or equivalent. The reservoir capacity must be approximately 4 quarts (3.8 Liters).
- 1.1 The engine is to be a 4 cycle 2.2 hp Honda engine or equivalent. It should have electronic ignition for ease of starting and low maintenance requirements. The muffler should have a spark arrestor to limit ignition source.
- 1.2 The hydraulic pump is to be a two-stage unit or equivalent. The pump is to be capable of producing approximately 10,000 psi (690 bar). It will be set to operate approximately 5,000 psi (345 bar) to provide long pump life.
- 1.3 The unit is to have two short hoses permanently attached or (equivalent system that will ensure rapid tool changeover) with quick disconnects for adding additional lengths of hose. There shall be a bypass valve to allow for tool changeover without the need to shut off the engine or equivalent system for the changeover.
- 1.4 The engine and reservoir are to be easily carried by one center -balanced handle or equivalent for balanced handling.
- 1.5 The power unit is to have anti -vibration feet to limit unwanted movement.
- 1.6 The preferred unit will be the most lightweight, compact and operationally efficient.

BID # FRT-022-083106 FIRE RESCUE TOOLS
SPECIFICATIONS

Specification

Unless other wise noted for specific requirements all equipment is to be the high quality, top of the line power units, spreaders, cutters, telescoping rams, hoses and connectors. Equivalent or comparable in the specifications refers to comparisons of the top of the line product of any manufacturer. All tools, hose and power units will have connectors attached. Fluid installed and fueled up ready to work upon delivery. One gallon of oil will be included for use with the three units purchased.

The specifications were built from those of Hurst Extrication Equipment for no other reason than to have a base from where to begin. There are no or there is no intention to establish any proprietary tools, power units or systems. No exemptions need to be taken. Submit your top of the line Simultaneous or Trimultaneous power units and accessories.

Factory Updates

During the relationship between the successful bidder and the Torrington Fire Department all industry updates and equipment improvements will be brought to the attention of the Torrington Fire Department as well as recall information if applicable.

Service Agreement

The successful bidder will also be responsible for the annual, regular and emergency service of this equipment. Their personnel shall maintain factory certification education and training for the extrication equipment that is purchased by the Torrington Fire Department.

The successful bidder must be able to **respond**¹ to the Torrington Fire Department for emergency service within twenty-four hours of being notified of the needed repair.

In the case of a serious repair the successful bidder will provide the Torrington Fire Department with a loaner tool for no cost to the City¹ during the life of the Factory Warranty service agreement.

The tools will have a full and comprehensive service once a year² and a regular service during the year as well.

Training

The successful bidder on the new extrication equipment that is purchased will train the entire Torrington Fire Department. The Torrington Fire Department is responsible for scheduling each shift for the training.

The Torrington Fire Department will be trained on the maintenance and up keep of all extrication equipment. Eight department members will become Extrication Tool Technicians, having a more intimate knowledge of the tool system to improve the overall tool operation, maintenance and understanding of the tool and it's current

maintenance and operational readiness.

¹The successful bidder will maintain all Torrington Fire Department equipment with factory trainer technicians and will respond to the Torrington Fire Department personally to satisfy any and all maintenance issues. The maintenance of this equipment will not be sub-contracted to another company.

²The annual service of all extrication equipment will be above and beyond what is expected in regular service. This service involves dismantling power units

Payment schedule will be as follows, upon delivery the first payment of \$23,739.00 with the balance to be paid in two equal installments.

The second payment to be made one month post delivery, after **all** equipment has been received to our satisfaction and all operational, maintenance and training issues have been satisfied.

The third will be made in the first week of July, 2007. A reasonable interest rate will be payable to the successful bidder for the final payment only. Payment and interest must be detailed on bid proposal.

Upon delivery the rescue tools that have all the misc. parts and pieces required for deployment. The tools will be delivered to the Torrington Fire Department ready for immediate deployment. Aside from all training and education requirements the tools will be fully task capable.

The City of Torrington is currently going out to bid for the following extrication equipment.

Inventory List

Engine One

- 1) Simultaneous or Trimultaneous power unit
- 2) 32" Spreader(with chain set)
- 3) High Strength Capacity Cutter
- 4) 59" Telescoping Ram (or equivalent)
- 5) Simo will need a minimum of three 30' hydraulic hoses/Trimo will need a minimum of four 30' hydraulic hoses with couplings.

Engine Three

- 1) Simultaneous or Trimultaneous power unit
- 2) 32" Lightweight Spreader(with chain set)
- 3) High Strength Capacity Cutter
- 4) 59" Telescoping Ram(or equivalent)
- 5) Simo will need a minimum of three 30' hydraulic hoses/Trimo will need a minimum of four 30' hydraulic hoses with applicable couplings.

Engine Five

- 1) Compact 4 Cycle Power Unit

- 2) Lightweight Curved blade (Or Equivalent) Combination Tool
- 3) 41" Telescoping Ram
- 4) Minimum of 30' hydraulic hoses with couplings.

Extrication Equipment Sale/Trade-in

Amkus extrication equipment, all Amkus equipment has been maintained to the Manufacturers recommendation or exceeding the manufacturers rec. All Maintenance records are available and will be delivered upon purchase of all Amkus tools. The City of Torrington reserves the right to refuse the sale/trade-in offer while accepting the new extrication tool bid.

PRICE SHEET

QTY.	DESCRIPTION	PRICE - EACH	PRICE – EXTENDED	Brand & Model
2	Simultaneous or Trimultaneous Power Unit			
1	Compact 4 Cycle Power Unit			
1	32" Spreader w/chain set			
1	32" lightweight spreader w/chain set			
1	Lightweight curved blade or equivalent Combo. Tool			
2	High Strength Capacity Cutter			
2	59" Telescoping Ram or equiv.			
1	41" Telescoping Ram or equiv.			
3 Sets	Simo Hydraulic hoses w/couplings			
2 Sets	Trimo Hydraulic hoses w/couplings			

Payment schedule and interest rate details:

INVENTORY FOR SALE

Engine #1

Amkus Power Unit
Model # A
Serial # 0905W44285

SALE/TRADE-IN PRICE \$ _____

Amkus Cutter
Model # M25B
Serial # 94063839C

SALE/TRADE-IN PRICE \$ _____

Amkus Spreader
Model # M30CX
Serial # 94082725S

SALE/TRADE-IN PRICE \$ _____

Telescoping Ram
Brand Name: Century
Approx Length: 30+ Inches

SALE/TRADE-IN PRICE \$ _____

Engine # 3

Amkus Power Unit
Model # GT25XL
Serial # 9309119

SALE/TRADE-IN PRICE \$ _____

Amkus Spreaders
Model # M30CX
Serial # 93092526/S

SALE/TRADE-IN PRICE \$ _____

Amkus Cutters
Model # M25B
Serial # 93093632/C

SALE/TRADE-IN PRICE \$ _____

Amkus Large Ram
Model # AMK40R
Serial # 96102311

SALE/TRADE-IN PRICE \$ _____

Amkus Small Ram
No ID Plate mounted on unit.

SALE/TRADE-IN PRICE \$ _____

The following numbers are stamped on the Unit in two Locations: 30HC077

Splitter for Hoses
Model # AMK-RV10
Serial # 97070097

SALE/TRADE-IN PRICE \$ _____

Engine # 5 Combo Tool

Amkus Power Unit
Model # B
Serial # 339579

SALE/TRADE-IN PRICE \$ _____

Large Amkus Ram
Model # AMK40R
Serial # 96082300

SALE/TRADE-IN PRICE \$ _____

Amkus Combo Tool
Model # M25C
Serial # 95100546CB

SALE/TRADE-IN PRICE \$ _____

Small Amkus Ram
Plate on Unit with the following ID Number: 30H064

SALE/TRADE-IN PRICE \$ _____