

FLORISSANT VALLEY FIRE PROTECTION DISTRICT

REQUEST FOR PROPOSALS (RFP)

HURST E3 CONNECT ELECTRO-HYDRAULIC RESCUE TOOLS

RFP Number	Hydraulic Rescue Tool
Issue Date	8/24/2026
Proposal Due Date / Time	9/21/2026
Issuing Agency	Florissant Valley Fire Protection District

1. INVITATION TO BID / REQUEST FOR PROPOSALS

The Florissant Valley Fire Protection District (the "District") invites qualified vendors to submit a proposal for the furnishing of HURST E3 Connect electro-hydraulic rescue tools and associated equipment meeting the minimum specifications contained in this RFP.

The District intends to obtain reliable, professional-grade rescue equipment for emergency response operations. Bidders shall provide pricing, delivery information, warranty information, and any other information requested in this RFP.

2. PROPOSAL DUE DATE AND SUBMISSION

Proposal Due Date: **September 21, 2026**

Proposal Due Time: **3p.m.**

Submission Location / Method: **661 St. Ferdinand Street, Florissant MO 63031**

Bid Contact: **Assistant Chief Brian McHugh**

Proposals shall be received by the District by the date and time stated above. Late proposals may be rejected. The District reserves the right to reject any or all proposals, waive minor informalities, and select the proposal determined to be in the best interest of the District, subject to applicable District policies and law.

3. SCOPE OF PROCUREMENT

The proposed equipment shall consist of HURST E3 Connect electro-hydraulic rescue tools meeting or exceeding the specifications below. The requested quantities are intentionally left blank for completion by the District.

4. BID SCHEDULE

Item	Equipment	Quantity	Unit Price	Extended Price	Manufacturer / Model
1	HURST SP 777 E3 Electro-Hydraulic Spreader	1	\$ _____	\$ _____	HURST SP 777 E3 / 271877000-1
2	HURST S 799 E3 Electro-Hydraulic Cutter	2	\$ _____	\$ _____	HURST S 799 E3 / 272699000-1C
3	HURST CR 522 E3 Rescue Ram	1	\$ _____	\$ _____	HURST CR 522 E3 / 274487000-1
4	Battery / Charger / Accessory Package		\$ _____	\$ _____	Per bidder proposal

TOTAL PROPOSAL PRICE: \$ _____

Applicable Freight / Delivery: \$_____

Total Including Freight / Delivery: \$_____

5. MINIMUM TECHNICAL SPECIFICATIONS

The following specifications are minimum requirements. A bidder shall identify any deviation from a specification in its proposal. Where a specification identifies HURST, the bidder shall provide the specified HURST equipment or an item expressly accepted by the District as compliant.

5.1 SP 777 E3 — Electro-Hydraulic Spreader

Manufacturer reference: HURST SP 777 E3, part number 271877000-1. The following requirements are based on the District's supplied specification.

1. The tool shall be a hydraulically activated piston with two equal, opposite light-metal-alloy spreader arms symmetrically opened by mechanical joints; closing shall also be hydraulically and mechanically actuated.
2. The electro-hydraulic device shall not require connection to an external hydraulic source. Required hydraulic pressure shall be generated within the body by a quick-exchange lithium-ion battery or external power supply.
3. The tool shall have LED work lights powered by the same lithium-ion battery that powers the tool, with no secondary battery required for the lights.
4. The cylinder shall be a one-piece design made of anti-corrosive T6-7075 light aluminum alloy.
5. Maximum spreading force: up to 134,900 lbf (600 kN).
6. Maximum spreading distance: 32 in (813 mm).
7. Minimum HSF test result: 19,110 lbf (85 kN); minimum LSF test result: 13,260 lbf (59 kN), as set forth in NFPA 1936-2020.
8. Compatible with an optional chain and shackle package for pulling operations, using HURST chain set KSV 11. Attachment shall not require removal of the tips. Minimum HPF test result: 11,016 lbf (49 kN); minimum LPF test result: 6,744 lbf (30 kN), as set forth in NFPA 1936-2020.
9. Pulling distance: 25.8 in (655 mm).
10. Removable multifunctional tips shall be usable for spreading, squeezing, and pulling without changing tips.
11. Removable tips shall have 15 contact points machined to a sharp-edged "shark tooth" aggressive design for gripping.
12. Tips shall be removable by depressing spring-loaded button-style detent pins and shall permit use of compatible optional peeling tips.
13. Arms shall be aluminum alloy and attach via removable links. Arms shall include metal protective and gripping squeezing plates on the inside and outside of each arm.
14. Control mechanism shall feature a star-grip actuator allowing 360-degree operation in any position and a non-interflow shear-seal "dead man" actuator that stops the unit when thumb pressure is released.
15. Control valve actuation shall be consistent across the product line: right opens/extends and left closes/retracts.
16. Opening and closing positions shall be clearly marked.
17. The tool shall have two handles: one at the center and one below the control mechanism. The center crossbar handle shall allow ergonomic manipulation from the center or either side without rotating the handle.

18. The tool shall have a dual pilot check valve to prevent accidental arm movement in the event of power loss.
19. The tool shall have a pressure relief valve to prevent over-pressurization.
20. The tool shall be compatible with 5 Ah/25.2 V and 9 Ah/25.2 V batteries capable of freshwater submersion to 11 ft, and a 9 Ah/25.2 V battery capable of saltwater submersion to 11 ft.
21. Operating pressure: 10,000 psi (70 MPa).
22. Current consumption: 7 A DC in idle mode and 43 A DC at maximum load.
23. Ambient operating temperature range: -4°F (-20°C) to +131°F (+55°C).
24. The tool shall be compatible with 5 Ah/25.2 V or 9 Ah/25.2 V batteries capable of water submersion to 11 ft.
25. The tool shall comply with NFPA 1936, 2020 Edition, and be labeled accordingly with the mark of a third-party testing agency.
26. Weight shall not exceed 51.6 lb (23.4 kg), excluding power supply.
27. Noise pressure level shall be 69 dB(A) at maximum load.
28. The tool shall operate submerged in fresh water to 11 ft.
29. Tool IP rating: IP58; battery IP rating: IP68.
30. Tool dashboard shall illuminate to indicate higher-than-normal main circuit board temperature and discontinue the turbo feature while the condition is detected.
31. Tool dashboard shall indicate when a saltwater-capable battery is attached.
32. Tool dashboard shall indicate when the turbo feature is active.
33. Tool dashboard shall display a continuously changing pressure indicator showing the pressure produced during operation.
34. Tool dashboard shall display battery state of charge in real time, with green, yellow, and red indication levels.
35. Open and Close icons shall illuminate on the dashboard when the trigger control valve is actuated in the respective direction.
36. The tool shall connect via Wi-Fi to Captium®, a web-based emergency vehicle equipment monitoring system capable of monitoring rescue tools and other emergency equipment systems on the apparatus, including the truck pump system and motor.

5.2 S 799 E3 — Electro-Hydraulic Cutter

Manufacturer reference: HURST S 799 E3, part number 272699000-1C.

1. The tool shall use a hydraulically operated piston and mechanical joints to symmetrically open or close two opposite blade arms, with cutting surfaces moving over one another without contact.
2. The electro-hydraulic cutter shall not require an external hydraulic source; pressure shall be generated within the body by a quick-exchange lithium-ion battery or external power supply.
3. LED lights on the operating side shall facilitate work in poor lighting and shall be powered by the same lithium-ion battery as the tool.
4. Cylinder material: anti-corrosive T6-7075 light aluminum alloy. Body shall have a high-impact non-metallic housing.
5. Maximum cutter opening at the tips: 8.03 in (204 mm).

- 6.** Blades shall have advanced geometry that pulls metal toward the back of the blades to reduce tool rotation and maximize cutting performance.
- 7.** Blades shall be drop-forged steel, glass-pearl blasted, and re-grindable. Blade attachment to the piston rod shall use removable links. Blade pivot points shall have rubber-booted hand guards.
- 8.** Cutting performance shall be capable of cutting up to 1.77 in (45 mm) diameter round-stock steel.
- 9.** Dual pilot check valve shall prevent accidental blade movement in the event of power loss.
- 10.** Star-grip control actuator shall permit 360-degree operation in any position. The mechanism shall be separate and independent from the handle for close-quarter operation.
- 11.** A non-interflow shear-seal “dead man” actuator shall stop the unit when the star-grip control valve is released.
- 12.** Two handles shall be provided: one centered and one below the control mechanism. The center crossbar handle shall permit ergonomic manipulation from the center or either side.
- 13.** Opening and closing positions shall be clearly marked.
- 14.** Pressure relief valve shall prevent over-pressurization.
- 15.** Dimensions without battery shall not exceed 36.6 in (930 mm) long, 10.4 in (265 mm) wide, or 9.96 in (253 mm) high.
- 16.** Operating pressure: 10,000 psi (70 MPa).
- 17.** Current consumption: 7 A DC in idle mode and 40 A DC at maximum load.
- 18.** Ambient operating temperature range: -4°F (-20°C) to +131°F (+55°C).
- 19.** Compatible with 5 Ah/25.2 V and 9 Ah/25.2 V batteries capable of freshwater submersion to 11 ft, and a 9 Ah/25.2 V battery capable of saltwater submersion to 11 ft.
- 20.** Comply with NFPA 1936, 2020 Edition, and be labeled with the mark of a third-party testing agency.
- 21.** Cutting classification shall be no less than A9 / B9 / C9 / D9 / E9 / F5 as defined in NFPA 1936, 2020 Edition, and certified by a third-party testing agency.
- 22.** Weight shall not exceed 54.7 lb (24.8 kg), excluding power supply.
- 23.** Noise pressure level shall be 69 dB(A) at maximum load.
- 24.** The tool shall operate submerged in fresh water to 11 ft.
- 25.** Tool IP rating: IP58; battery IP rating: IP68.
- 26.** Dashboard shall indicate higher-than-normal main circuit board temperature and discontinue the turbo feature while detected.
- 27.** Dashboard shall indicate when a saltwater-capable battery is attached.
- 28.** Dashboard shall indicate when the turbo feature is active.
- 29.** Dashboard shall display a continuously changing pressure indicator showing pressure produced during operation.
- 30.** Dashboard shall display battery state of charge in real time, with green, yellow, and red indication levels.
- 31.** Open and Close icons shall illuminate on the dashboard when the trigger control valve is actuated in the respective direction.

32. Power-ring illumination shall change from blue to red when the tool reaches a specified parameter and detects greater than 10-degree rotation along its linear axis, alerting the end user.
33. The tool shall connect via Wi-Fi to Captium®, a web-based emergency vehicle equipment monitoring system capable of monitoring rescue tools and other emergency equipment systems on the apparatus, including the truck pump system and motor.

5.3 CR 522 E3 — Rescue Ram

Manufacturer reference: HURST CR 522 E3, part number 274487000-1.

1. The rescue ram shall be a double-acting hydraulic cylinder with hydraulic extension and retraction.
2. The ram shall be a multi-stage cylinder providing varying forces by piston stage, with force remaining constant within each piston stage.
3. LED lights shall be attached at both ends and powered by the same lithium-ion battery as the tool, with no secondary battery.
4. Maximum extension: 60.3 in (1533 mm). Retracted length: no less than 25.8 in (657 mm).
5. Two-stage stroke: piston 1 maximum stroke 17.8 in (451 mm) producing at least 28,600 lbf (127 kN); piston 2 maximum stroke 16.7 in (425 mm) producing at least 13,500 lbf (60 kN); overall piston stroke 34.5 in (876 mm).
6. Claw feet shall be tool steel, located on both piston and cylinder sides, and swivel at both ends.
7. Rear claw foot shall be removable to permit use of extensions.
8. Extension kit shall include three extensions: 1.97 in (50 mm), 5.9 in (150 mm), and 10.6 in (270 mm).
9. With the largest extension attached, the ram shall reach an extended length of 70.86 in (180 cm).
10. Attaching an extension shall not restrict ram force.
11. Dual pilot check valve shall prevent accidental piston-rod movement in the event of power loss.
12. Star-grip control shall allow 360-degree operation in any position and be separate and independent from the handle for close-quarter operation.
13. A non-interflow shear-seal “dead man” actuator shall stop the unit when hand pressure is released.
14. Extend and retract piston functions shall be clearly marked.
15. The tool shall comply with NFPA 1936, 2020 Edition, and be labeled with the mark of a third-party testing agency.
16. Weight shall not exceed 46.5 lb (21.1 kg), excluding power supply and extensions.
17. Retracted dimensions shall not exceed 25.8 in (657 mm) long, 5.51 in (140 mm) wide, or 12.9 in (327 mm) high.
18. Operating pressure: 7,250 psi (50 MPa).
19. Current consumption: 8 A DC in idle mode and 42 A DC at maximum load.
20. The electro-hydraulic ram shall not require connection to an external hydraulic source; pressure shall be generated within the body by a quick-exchange lithium-ion battery or external power supply.
21. Cylinder shall be made of anti-corrosive T6-7075 light aluminum alloy.
22. Ambient operating temperature range: -4°F (-20°C) to +131°F (+55°C).

23. Compatible with 5 Ah/25.2 V and 9 Ah/25.2 V batteries capable of freshwater submersion to 11 ft, and a 9 Ah/25.2 V battery capable of saltwater submersion to 11 ft.
24. Noise pressure level shall be no more than 75 dB(A) at maximum load.
25. The tool shall operate submerged in fresh water to 11 ft.
26. Tool IP rating: IP58; battery IP rating: IP68.
27. Dashboard shall indicate higher-than-normal main circuit board temperature and discontinue the turbo feature while detected.
28. Dashboard shall indicate when a saltwater-capable battery is attached.
29. Dashboard shall indicate when the turbo feature is active.
30. Dashboard shall display a continuously changing pressure indicator showing pressure produced during operation.
31. Dashboard shall display battery state of charge in real time, with green, yellow, and red indication levels.
32. Open and Close icons shall illuminate on the dashboard when the trigger control valve is actuated in the respective direction.
33. The tool shall connect via Wi-Fi to Captium®, a web-based emergency vehicle equipment monitoring system capable of monitoring rescue tools and other emergency equipment systems on the apparatus, including the truck pump system and motor.

6. BATTERIES, CHARGERS, AND ACCESSORIES

- Bidder shall identify all batteries, chargers, adapters, carrying/storage equipment, and accessories included in the proposed package.
- Bidder shall identify the quantity and capacity of each battery proposed for each tool.
- Bidder shall identify any required charger or charging system and provide unit and extended pricing.
- Any optional accessories shall be separately identified and priced.
- The proposal shall identify compatibility with the HURST E3 Connect equipment specified in this RFP.

7. COMPLIANCE / DEVIATIONS

The bidder shall complete the following statement and identify all exceptions. Failure to disclose a deviation may result in the proposal being considered non-responsive.

Bidder certifies that the proposed equipment meets all minimum specifications.

Bidder has exceptions or deviations. A detailed list is attached.

Exceptions / Deviations: _____

8. DELIVERY, WARRANTY, AND SERVICE

Estimated delivery after purchase order: _____

Warranty term: _____

Warranty coverage / exclusions: _____

Factory-authorized service availability: _____

Local / regional service contact: _____

9. BIDDER INFORMATION

Company Name: _____

Address: _____

City / State / ZIP: _____

Primary Contact: _____

Phone: _____ Email: _____

Manufacturer / Dealer: _____

Authorized HURST Dealer (if applicable): _____

10. BIDDER CERTIFICATION

By signing below, the bidder certifies that the information contained in this proposal is true and complete, that the bidder has reviewed the specifications, and that the proposed equipment will meet the requirements identified in this RFP except as specifically disclosed in writing.

Authorized Representative	_____
Title	_____
Signature	_____
Date	_____
Company	_____

11. DISTRICT EVALUATION

The District may consider price, compliance with specifications, proposed delivery schedule, warranty, service support, equipment compatibility, and overall value to the District. The District is not obligated to accept the lowest-priced proposal if another proposal is determined to provide greater overall value or better meets the District's requirements.

12. IMPORTANT NOTE REGARDING SPECIFICATIONS

The technical requirements in this RFP are based on specifications supplied to the District for the HURST SP 777 E3, S 799 E3, and CR 522 E3 equipment. The District should review this document for consistency with its procurement policies, applicable Missouri law, funding requirements, and any local bid-publication or contract requirements before issuing the RFP.