Rescue equipment used to be hand-powered. Tools used to require power units and cumbersome hoses. Not anymore. eDRAULIC technology from Hurst offers you the freedom of cordless operation with the same unmatched power you always count on from Hurst.

**eDRAULIC technology from Hurst**

The S700 E means the freedom to operate in battery mode and the ability to perform rescues without limitations. Designed not only for current vehicle construction, but also built with advanced technology to perform on future vehicle generations with stronger and wider car posts.

Plug your eDRAULIC tools in with a 110 adapter for limitless operation. Intelligent cutter geometry reduces tool movement during operations. Up to 87% more cutting force in the relevant work area than our previous top tool. Mission-critical power with liberating portability.

**Cutter S 700 E**

- Blade Opening: 7.1 in. / 180 mm
- Dimensions: l x w x h: 36.0 x 11.8 x 11.7 in. / 915 x 300 x 298 mm
- Weight*: 54.8 lbs / 24.9 kg, * Weight without cable plug or battery

**Innovative Quality Tools for All Your Rescue Needs**

Hydraulic power unleashed
eDRAULIC tools from Hurst offer the impressive power of hydraulics without the hassle of power units or hoses. No need to plug in. Just grab and go.

**Stand-alone or supplementary tools**

Powerful and flexible enough to stand alone as your complete set of rescue tools, eDRAULIC tools from Hurst have you covered. They are also the ideal way to supplement your inventory and add portability to your current rescue tool system.

**Powered by battery or cord**

The rechargeable battery means the freedom to work off-road missions and large-scale accidents with the power of hydraulics. You can also plug your eDRAULIC tools in with a 110 adapter for limitless operation. When every moment counts, rescue without limitations.

HYDRAULIC power UNLEASHED

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HYDRAULIC power UNLEASHED

eDRAULIC evolution

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The “little brother” of the S 700 E is convenient and easy to use. Its sophisticated blade geometry means that it is fully optimized for vehicle extrication. Operate the tool using the power cord or switch over to battery mode for maximum portability. Rescue workers value its combination of cutting performance and blade opening— not to mention its low weight.

The R 411 E is powerful, extremely compact and offers impressive strength. With the ability to operate in battery mode or with a cord, this remarkable tool has power to spare. The claws at the two ends can be rotated by 360°, enabling you to apply the ram effectively in almost any rescue situation.

Impressive extended length of 47.2 in. (with extension accessory)

Freedom Through Strength.

Cutter S 311 E
Blade Opening
6 in. / 150 mm

Dimensions: l x w x h  33.8 x 10.9 x 11.7 in. / 859 x 278 x 298 mm
Weight*    38.5 lbs  / 17.5 kg, * Weight without cable plug or battery
Certification (planned)  in relation to EN 13204; NFPA 1936

With this new, completely redesigned spreader, you have the freedom to operate in battery mode – which means the ability to perform rescues in even the most challenging environments. The option to plug in and power the tool with a cord allows for continuous operation. The SP 300 E offers the perfect combination of strength and spreading distance. Try the KSV 11 chain set as a pulling accessory.

Freedom Through Strength.

Rescue Ram R 411 E

Freedom Through Flexibility.

Rescue Ram R 411 E
Piston Stroke    14.1 in. / 358 mm
Lifting Force   23,180 lbs / 103 kN
Retracted Length   21.3 in. / 542 mm
Extended Length   35.4 in. / 900 mm
Extended Length with Extension 47.2 in. / 1200 mm
Dimensions: l x w x h  21.3 x 6.7 x 10.4 in. / 542 x 170 x 265 mm
Weight*    37.4 lbs / 17.0 kg, * Weight without cable plug or battery
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Spreader SP 300 E
- Piston Stroke: 14.1 in. / 358 mm
- Lifting Force: 23,180 lbs / 103 kN
- Retracted Length: 21.3 in. / 542 mm
- Extended Length: 35.4 in. / 900 mm
- Extended Length with Extension: 47.2 in. / 1200 mm
- Dimensions: l x w x h 21.3 x 6.7 x 10.4 in. / 542 x 170 x 265 mm
- Weight*: 37.4 lbs / 17.0 kg, * Weight without cable plug or battery
- Certification (planned) in relation to EN 13204; NFPA 1936

Cutter S 311 E
- Blade Opening: 6 in. / 150 mm
- Dimensions: l x w x h 33.8 x 10.9 x 11.7 in. / 859 x 278 x 298 mm
- Weight*: 38.5 lbs / 17.5 kg, * Weight without cable plug or battery
- Certification (planned) in relation to EN 13204; NFPA 1936

Rescue Ram R 411 E
- Piston Stroke: 14.1 in. / 358 mm
- Lifting Force: 25,180 lbs / 113 kN
- Retracted Length: 21.3 in. / 542 mm
- Extended Length: 31.4 in. / 790 mm
- Extended Length with Extension: 47.2 in. / 1200 mm
- Dimensions: l x w x h 21.3 x 6.7 x 11.5 in. / 542 x 170 x 293 mm
- Weight*: 44.0 lbs / 20.0 kg, * Weight without cable plug or battery
- Certification (planned) in relation to EN 13204; NFPA 1936
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- Blade Opening: 6 in. / 150 mm
- Dimensions: l x w x h 33.8 x 10.9 x 11.7 in. / 859 x 278 x 298 mm
- Weight*: 38.5 lbs / 17.5 kg
- Certification (planned) in relation to EN 13204; NFPA 1936

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The "little brother" of the S 700 E is convenient and easy to use. Its sophisticated blade geometry means that it is fully optimized for vehicle extrication. Operate the tool using the power cord or switch over to battery mode for maximum portability. Rescue workers value its combination of cutting performance and blade opening—not to mention its low weight.

**Rescue Ram R 411 E**

- Piston Stroke: 14.1 in. / 358 mm
- Lifting Force: 23,180 lbs / 103 kN
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- Extended Length with Extension: 47.2 in. / 1200 mm
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- Weight*: 37.4 lbs / 17.0 kg
- Certification (planned) in relation to EN 13204; NFPA 1936

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Impressive extended length of 47.2 in. (with extension accessory)

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**Freedom Through Strength.**

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**Freedom Through Flexibility.**

**HYDRAULIC power UNLEASHED**

With this new, completely redesigned spreader, you have the freedom to operate in battery mode – which means the ability to perform rescues in even the most challenging environments. The option to plug in and power the tool with a cord allows for continuous operation. The SP 300 E offers the perfect combination of strength and spreading distance. Try the KSV 11 chain set as a pulling accessory.

**Freedom Through Portability.**

**Freedom Through Strength.**

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Powerful and flexible enough to stand alone as your complete set of rescue tools, eDRAULIC tools from Hurst have you covered. They are also the ideal way to supplement your inventory and add portability to your current rescue tool system.

Designed not only for current vehicle construction, but also built with advanced technology to perform on future vehicle generations with stronger and wider car posts.

Plug your eDRAULIC tools in with a 110 adapter for limitless operation.

Intelligent cutter geometry reduces tool movement during operations. Up to 87% more cutting force in the relevant work area than our previous top tool.

Mission-critical power with liberating portability

Cutters S 700 E

Blade Opening: 7.1 in. / 180 mm
Dimensions: l x w x h: 36.0 x 11.8 x 11.7 in. / 915 x 300 x 298 mm
Weight*: 54.8 lbs / 24.9 kg, * Weight without cable plug or battery

Certification (planned) in relation to EN 13204; NFPA 1936
Q. What is eDRAULIC?
A. eDRAULIC technology was developed by Hurst Jaws of Life® for the purpose of creating rescue equipment that can be powered with a battery, but still deliver the same power found in hydraulic tools. The principle of electro-hydraulics is what makes eDRAULIC technology possible - essentially converting energy into hydraulic force. By utilizing electrical-over-hydraulic force, the need for power units, hoses and hose reels are eliminated and you have the freedom to perform rescues without limitations.

Q. Why do eDRAULIC tools have as much force as hose-connected equipment?
A. eDRAULIC tools operate with an internal hydraulic pressure of 10,200 psi and generate the same force as the power unit driven tools. A result of many years of research and development, the new eDRAULIC S700E cutter has considerably more cutting force than previous power unit driven cutters.

Q. How can electric-over-hydraulic (eDRAULIC) operated tools make rescue deployment faster?
A. eDRAULIC tools speed up your deployment because you are immediately ready for action. Throw the switch and you are ready to go; no hoses, no wires no set-up time. eDRAULIC rescue equipment allows you to begin rescue work where previously, connection of the power unit and hoses would be necessary before operation could start.

Q. How much space will be made available on my vehicle if I decide to use eDRAULIC tools?
A. The battery, motor, pump, and reservoir are all built into the tool. You will gain useful space taken up by the hydraulic power unit, hoses and hose reels.

Q. How much weight can I save on my vehicle by using the eDRAULIC rescue equipment?
A. The weight of an eDRAULIC rescue set, consisting of cutter, spreader, and two rescue rams, is approximately one third less than a conventional set. Thanks to eDRAULIC, you can carry additional lifesaving tools, which previously would have been left behind in the station.

Q. Are eDRAULIC tools considerably more expensive than normal rescue tools?
A. Compare the prices of complete rescue sets. When you buy an eDRAULIC tool, you get a tool with the battery, motor, pump and reservoir integrated into the tool. Conventional tools on the other hand, require an additional hydraulic power source as well as hoses and hose reels which need to be added into your calculation. The operational expense is also reduced - no hose replacement, no fuel for the power unit, no spark plug replacement, etc. Instead you can experience the ease of use provided by eDRAULIC during rescue operations!

Q. What advantages are provided by eDRAULIC during nighttime deployment?
A. Powerful LEDs on the eDRAULIC casing provide illumination of the working area in both directions on the rescue tool. The power-saving LEDs are powered directly by the main power supply. The voltage converter and batteries can be replaced easily and rapidly thanks to the illuminated battery compartment.
**eDRAULIC - Energy Supply**

Q. Why does Hurst offer both a voltage converter as well as batteries for eDRAULIC tools?
A. The power voltage converter permits unlimited continuous operation from any 110V or 220V outlet. Therefore you don’t need to worry that the fuel will run out, unlike a conventional hydraulic power unit, or that the batteries will be dead after an unexpectedly long period of use.

Q. What is required on my vehicle to enable the use of eDRAULIC tools?
A. The voltage converter is designed so that any 110V or 220V outlet can be used for operating the eDRAULIC tools. Energy can be drawn directly from your on-board power generator using the electric cord reels on the fire apparatus.

Q. How long can I work with a single battery charge?
A. The powerful lithium-ion battery provides a working time of approximately 20 to 30 minutes under normal deployment conditions - even with heavy rescue tool use. In general, this provides adequate time to release entrapped people from at least one vehicle. Fully loaded battery run time (at a constant 10,200 psi) is 7 minutes. However, the tools are often only used for a few seconds under full load, which gives an actual deployment time of roughly 20 to 30 minutes.

Q. How many batteries do you recommend?
A. For maximum mobility we recommend carrying two batteries for each rescue tool. This will give you a deployment time of around 40 to 60 minutes. If you have more than one eDRAULIC tool in use, you can take the battery out of a rescue tool that is no longer required and insert it into the tool being used at the time. For unlimited use, we recommend either the power voltage converter that we provide or an adequate number of batteries.

Q. Can the batteries be switched from one eDRAULIC tool to the other?
A. All eDRAULIC tools use the same voltage converters and batteries. This means that they can be shared between tools during deployment.

Q. Does the eDRAULIC battery need to be discharged fully before charging to prevent the Memory Effect?
A. No. In contrast with earlier battery technology, the lithium-ion batteries in the eDRAULIC range can be partially recharged at any time. This will reduce neither the performance nor the service life of the battery.

**eDRAULIC - Maintenance**

Q. What is the service life of a battery?
A. The high quality lithium-ion batteries in the eDRAULIC tools have a service life of about 500 recharging cycles. Partial-recharging only counts as a partial cycle. This means that the service life is considerably greater than with previous battery technologies.

Q. What do I need to watch when charging the eDRAULIC batteries?
A. Nothing. The charger of the eDRAULIC range detects the type of battery that you have inserted. After the charging process, the battery can remain in the charger.

Q. Are eDRAULIC batteries always ready for use?
A. Once the eDRAULIC batteries have been charged they remain ready for use for a period of many months, even at temperatures down to -20 °C (-4 °F). Lithium-ion batteries have a very low self-discharge rate of 8% in the first month, and then just 2% for each following month. The Sleep Mode that was evident in previous generations of lithium-ion batteries is not present in the eDRAULIC batteries.

Q. How long does it take to charge the battery?
A. Owing to the high energy density, it takes approximately 60 minutes to charge the batteries to 90%. The battery is fully charged after approximately 75 minutes.

Q. Can eDRAULIC batteries and voltage converter be used in the LKE 55 combi-tool?
A. No. eDRAULIC batteries cannot be used in the LKE 55 for technical reasons. On the other hand, the eDRAULIC voltage converter can be used on the LKE 55.

Q. What do I need to do to dispose of the batteries?
A. Worn-out or damaged batteries must not be disposed of in general household waste but must be disposed of properly at battery collection locations. You are welcome to send your batteries to us if you wish. We will take care of proper disposal for you.

**eDRAULIC - Maintenance**

Q. Is there anything special in the maintenance of eDRAULIC tools?
A. eDRAULIC tools are particularly low-maintenance because of the closed electrohydraulic system, in combination with high quality hydraulic oil. Details of the maintenance can be located in the corresponding operating manual.

Q. Can I change the cutter blades myself?
A. Yes. On all Hurst cutters you can change the blades yourself quite simply using standard hand tools. This means that you avoid freight costs and down-time. You can, of course, have the blades replaced conveniently by your Hurst Jaws of Life® dealer as well.