

Instruction manual for rescue equipment

eDRAULIC cutters EWXT



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1. Danger classifications

We differentiate between various different categories of safety instructions. The table shown below provides an overview of the assignment of symbols (pictograms) and signal words to the specific danger and the possible consequences.

Pictogram	Damage / injury to	Keyword	Definition	Consequences
	Persons	DANGER!	Immediate danger	Death or severe injury
		WARNING!	Potentially dangerous situation	Potential death or serious injury
		CAUTION!	Less dangerous situation	Minor or slight injury
	Property	ATTENTION!	Risk of damage to property/ environment	Damage to the equipment, damage to the environment, damage to surroundings
	-	NOTE	Handling tips and other important/ useful information and advice	No injury/damage to persons/ environment/ device



Wear a helmet with a face guard.



Wear protective gloves.



Wear safety shoes



Proper recycling



Protect the environment



Read and follow the operating instructions.

2. Product safety

HURST products are developed and manufactured to ensure the best performance and quality when used as intended.

The safety of the operator is the most important consideration in product design. Furthermore, the operating instructions are intended to help you use HURST products safely.

The generally applicable legal and other binding regulations pertaining to the prevention of accidents and protection of the environment apply and are to be complied with in addition to the operating instructions.

The equipment may only be operated by persons with appropriate training in the safety aspects of such equipment, otherwise, there is a risk of injury.

We would like to point out to all users that they should carefully read the operating instructions and the instructions they contain before they use the equipment and carefully follow them.

We further recommend that you have a qualified trainer show you how to use the product.



WARNING / CAUTION!

The operating instructions for accessories must also be taken into account!
























Even if you have already received instructions on how to use the equipment, you should still read through the following safety instructions again.


















WARNING / CAUTION!

Please ensure that the accessories you use are appropriate for the maximum operating pressure and the performance of the rescue device!

	<p>Please ensure that no body parts or clothing are caught between the visibly moving parts (e.g. blade arms).</p>	<p>Working under suspended loads is not permitted where such loads are being lifted only by means of hydraulic or electro-hydraulic devices. If this work is unavoidable, suitable mechanical supports are also required.</p>	
	<p>Wear protective clothing, a safety helmet with visor, protective footwear and gloves.</p>	<p>Inspect the device before and after use for visible defects or damage.</p>	

 	<p>Immediately report any changes that occur (including changes in operating behavior) to the appropriate persons/departments! If necessary, the equipment is to be shut down immediately and secured!</p>	<p>All bolted connections must be checked for leaks and externally visible damage, which must be repaired immediately! Escaping hydraulic fluid can cause injuries and fires.</p>	
 	<p>In the event of malfunction, immediately deactivate the device and secure it. Repair the fault immediately.</p>	<p>Do not carry out any changes (additions or conversions) to the equipment without obtaining the prior approval of HURST.</p>	
 	<p>Observe all safety and danger information on the device and in the operating instructions.</p>	<p>All safety and danger instructions on the device must always be complete and in a legible condition.</p>	 
 	<p>Any mode of operation which compromises the safety and/ or stability of the device is forbidden!</p>	<p>Repairs to the equipment may only be carried out by a trained service technician with specific knowledge of the device.</p>	 
 	<p>Safety devices may never be disabled!</p>	<p>Only genuine HURST accessories and spare parts are to be used for repairs.</p>	 
	<p>Before switching on/starting up the device and during its operation, make sure that nobody will be endangered by this.</p>	<p>Observe all intervals for recurring tests and/ or inspections that are prescribed or stated in the operating instructions.</p>	
 	<p>When working close to live components and cables, suitable measures must be taken to avoid current transfers or high-voltage transfers to the equipment.</p>	<p>Please note that material could fall down or suddenly break free during cutting as a result of shearing, tearing or breaking; appropriate steps must be taken to avoid this.</p>	

 	<p>Please ensure that you do not become entangled in cables and trip when working with or transporting the device.</p>	<p>Please ensure that the battery contacts are not short-circuited.</p>	 
	<p>The build-up of static charges and therefore possible sparking must be avoided when handling the device.</p>	<p>Only touch broken-off or cut-off parts while wearing protective gloves, as the torn / cut edges can be very sharp.</p>	
		<p>The eDRAULIC devices are not suitable for underwater use in saltwater or seawater.</p>	 
	<p>The equipment is filled with hydraulic fluid. This hydraulic fluid can be detrimental to health if it is swallowed or its vapor is inhaled. Direct contact with the skin must be avoided for the same reason. Also, when handling hydraulic fluid, note that it can negatively affect biological systems.</p>	<p>When working with or storing the equipment, ensure that the function and the safety of the equipment are not impaired by the effects of severe external temperatures and that the equipment is not damaged in any way. Please note that the equipment can also heat up over a long period of use.</p>	
	<p>Make sure that there is adequate lighting while working.</p>	<p>Before transporting the equipment, always ensure that the accessories are positioned in such a way that they cannot cause an accident.</p>	
	<p>Always keep these operating instructions easily accessible at the place of operation.</p>	<p>Ensure the proper disposal of all removed parts, left-over oil and hydraulic fluid as well as packaging materials!</p>	 

The generally applicable, legal and other binding national and international regulations pertaining to the prevention of accidents and protection of the environment apply and are to be implemented in addition to the operating instructions.

WARNING / CAUTION / ATTENTION!

The device is intended **exclusively** for the purpose stated in the operating instructions (see chapter "Proper Use"). **Any other use is not in accordance with its designated purpose.** The manufacturer/supplier is not liable for any damage resulting from improper use. The user bears sole responsibility for such use.

Proper use includes observance of the operating instructions and compliance with the inspection and maintenance conditions.



Never work in a fatigued or intoxicated state!



3. Intended use

HURST eDRAULIC devices have been specially designed to rescue or retrieve the bodies of victims of road, rail or aircraft accidents or to be used during rescue operations from buildings. HURST eDRAULIC cutting devices are used to free injured persons at accident scenes by cutting through doors, roof beams and hinges.



CAUTION / PLEASE NOTE!

Care must always be taken that the environment of the object to be processed remains stable and secured against unintentional shifting by using strong supports or underpinning.

HURST eDRAULIC devices EWXT are suitable for underwater use, **but not in saltwater or seawater.**



WARNING / CAUTION / PLEASE NOTE!

The following may not be cut / squeezed:



- **live cables**
- **prestressed and hardened parts such as springs, spring steels,** steering columns and rollers
- pipes under gas or liquid pressure,
- compound materials (steel/concrete)
- explosive bodies such as airbag cartridges

The operating pressure placed on the rescue device may only be directly changed after consultation with HURST. A change in settings may result in damage to property and/or injuries.

HURST eDRAULIC devices are not explosion-protected!

When using the devices in potentially explosive environment, the following must be excluded:

- that the device could trigger an explosion.
- that working with the device could trigger an explosion; e.g. sparks may result from cutting an object.

The responsibility for explosion prevention or for ruling out work with an eDRAULIC device with the operator of the device or with the person responsible at the place of use.

When working in areas at risk of explosion, all applicable legal, national and international regulations, standards and safety rules for avoiding explosions must be observed without restriction!

The rescue equipment should not come into contact with acids or alkalies. If this is unavoidable, clean the equipment immediately afterwards with a suitable cleaning agent.

You can obtain accessories and replacement parts for the rescue devices from your authorized HURST dealer!

4. Functional description

4.1 Description

The cutting devices have been designed in such a way that a hydraulically operated piston activates mechanical joints symmetrically to open or close a set of two opposite blade arms, thus enabling objects to be cut.

For all devices, the movement is activated by means of a valve in the form of a star grip. All devices guarantee the dead man's switch and the full load-supporting function when the star grip is released.

HURST eDRAULIC devices do not need to be connected to an external hydraulic source (e.g. a motor pump). Generation of the required hydraulic pressure takes place within the body of the device.

A battery must be connected as an energy source.

The accumulator battery can be inserted into the opening provided in the body of the tool and is automatically locked into position.

You can extend the operating time of your eDRAULIC device by using several batteries.

The batteries can be recharged after use, using a suitable external charger.

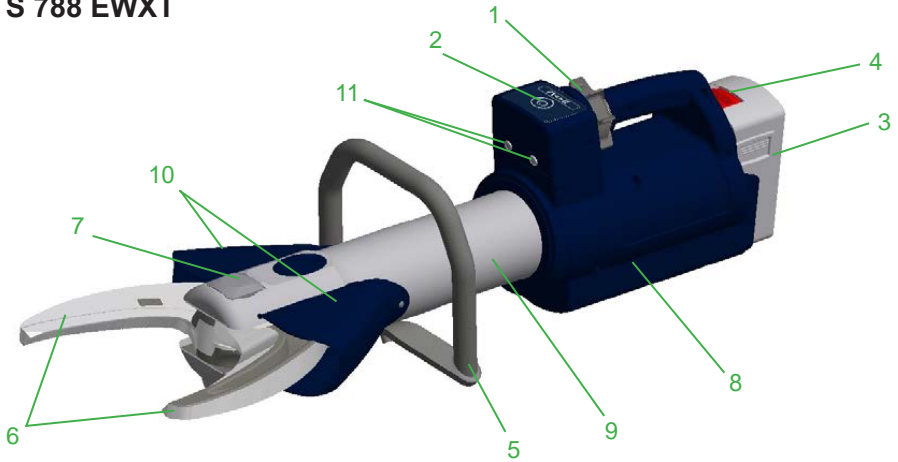
The battery is not part of the delivery scope. You will find suitable batteries in the HURST accessories list.

eDRAULIC devices come with standard light fittings to facilitate work under poor light conditions.

The light-emitting diodes attached on the operating side light up the work area. The main switch has also been equipped with a ring light, so that you can immediately detect whether the device is switched on or not.

4.2 Structure of rescue devices

S 788 EWXT

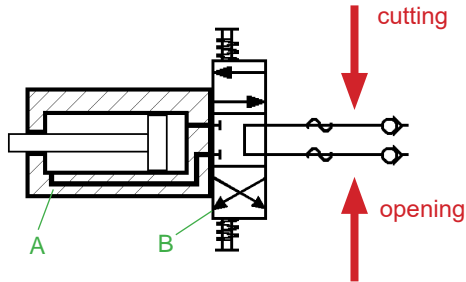


- 1 Star grip
- 2 Main switch
- 3 Quick exchange battery
- 4 Release button for battery
- 5 Handle
- 6 Blade arms
- 7 Pivot bolt with secured nut
- 8 Plastic housing
- 9 Tool body
- 10 Protective cover
- 11 Light

4.3 Hydraulic circuit diagram

Below a simplified hydraulic ram representing the tool is depicted.

A = tool B = star grip valve



4.4 Operating movement controls

The piston movement is controlled by the star grip on the attached valve (see illustration below).



5. Operation

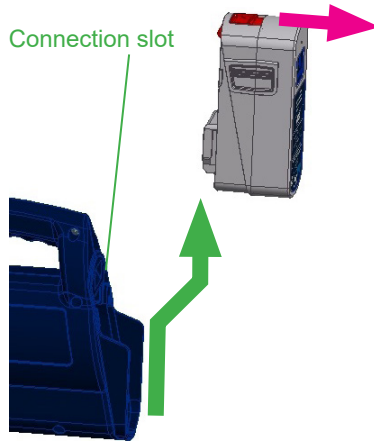
5.1 Battery for eDRAULIC device

Commissioning

Before initial operation, the battery of the rescue device must be fully loaded, using the external charger.

Procedure:

1. Fully pull the unlocking button and carefully pull the battery upwards out of the device.
Do not use force!



2. The battery can now be recharged in the charger (please take note of the separate operating instructions for the charger and the batteries to be used).
3. Insert the recharged or new battery into the eDRAULIC device until it reaches the stop. The battery will be automatically locked when correctly operated.

5.2 Operating the star grip

(also see chapter on "Operating movement control")

Open the device:



Turn the star grip in the direction of the corresponding symbol (open) and hold it in this position.

Close the device:



Turn the star grip in the direction of the corresponding symbol (close) and hold it in this position.

"Dead-man's" function:

Following release, the star grip automatically returns to the central position, fully guaranteeing load retention.



6. Cutting

6.1 Safety notes

Before rescue work can commence, the object must be stabilized in its current position. Ensure that the objects to be worked on are adequately underpinned and/or supported to ensure that there is no risk of sliding or shifting.

Worldwide safety guidelines pertaining to the specific country must be observed and complied with.



WARNING / CAUTION / PLEASE NOTE!

HURST eDRAULIC devices are not explosion-protected!



When using the devices in potentially explosive environments, the following must be excluded:

- that the device could trigger an explosion.
- that working with the device could trigger an explosion; e.g. sparks may result from cutting an object.

The responsibility for explosion prevention or for ruling out work with an eDRAULIC device lies with the operator of the device or with the person responsible at the place of use.

When working in areas at risk of explosion, all applicable legal, national and international regulations, standards and safety rules for avoiding explosions must be observed without restriction!

The following are to be worn when working with the rescue equipment:

- protective clothing,
- safety helmet with visor or protective goggles,
- protective gloves,
- and, if necessary, ear protection.



Before operating the rescue device, you should ensure that no participants or bystanders are at risk from the movements of the rescue device or from flying fragments! Avoid unnecessary damage to property belonging to others or to objects not involved in the rescue or damage caused by flying fragments.



It is strictly prohibited to reach into the path of the rescue device (e.g. between the blade arms and the material/object to which the force is to be applied)!

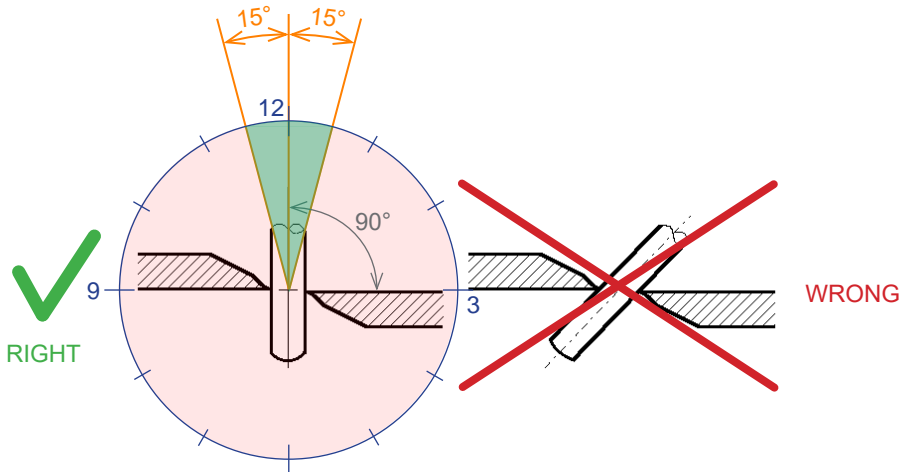


CAUTION / PLEASE NOTE!

The strong effect of the force of the rescue equipment during operation could cause pieces of the vehicle to break off or fly off, posing a danger to persons. Those not involved in the rescue operation should therefore keep at a **safe distance appropriate to the situation**. Any trapped or enclosed persons must be protected.

6.2 Cutting

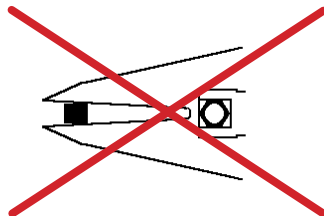
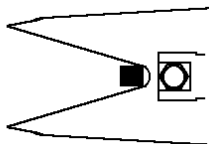
The blades should be positioned at a 90° angle to the object to be cut, if possible.



Higher cutting capacities can be achieved by cutting as close as possible to the blade's pivot point.



RIGHT



WRONG

During cutting, the gap between the blade tips (in the transverse direction) must not be exceeded, otherwise the blade is in danger of breaking:

eDRAULIC cutting device	max. gap at the blade tips [mm] / [in.]
S 788 EWXT	5 / 0.20



ATTENTION!

Where possible, avoid cutting through high-strength parts of the vehicle body (e.g. side impact protection). This may result in damage to the blades or to increased wear and tear!

7. Dismantling the equipment / deactivation following operation

Once work has been completed, the device arms should be closed until the tips are only a few millimeters apart. This relieves the hydraulic and mechanical strain on the equipment.



NOTE:

Never store the eDRAULIC devices with fully closed arms! By fully closing the arms hydraulic and mechanical tension may develop in the device.

Clean the rescue device after each operation and grease both the metallic and the mechanically movable parts.

Greasing provides protection against excessive wear and tear or corrosion.

Avoid storing the rescue equipment in a damp environment.

8. Maintenance and service

The devices are subject to very high mechanical stresses. A visual inspection must therefore be carried out after every use. This inspection enable the early detection of wear and tear and helps to prevent damage of the device. Regularly check the torque of the pivot central bolt on the cutting tools. You will find the torques for the pivot central bolt in the “Technical Data” chapter.

An annual inspection of the tool is due once a year. This inspection must be performed by an authorized HURST Jaws of Life dealer technician or the warranty will be void. That means that the person must possess adequate specialist knowledge and experience in the fields of electrical engineering and hydraulics to be able to assess the condition of the tool. Every three years also a crack test of the blades is essential.



ATTENTION!

Clean off any dirt before checking the equipment!



WARNING / CAUTION / PLEASE NOTE!

Maintenance and repairs must be completed by an authorized HURST Jaws of Life dealer technician trained by HURST Jaws of Life. Repairs conducted by non-authorized dealers and/or non-HURST trained technician will void the warranty.



8.1 Oil change

Under normal working conditions routine oil changes are not necessary with eDRAULIC tools.

The prerequisite is:

- the tools are always properly handled and stowed as per the applicable operating manual
- the tools are tested on a regular basis as per our instructions on preventive maintenance

Regular tests, oil change and/or repairs must be carried out by an authorized HURST Jaws of Life dealer technician.

After 10 years service life an oil change is recommended.

8.2 Maintenance after use under water



WARNING / CAUTION / PLEASE NOTE!

DO NOT USE eDRAULIC TOOL IN SALT or SEA WATER!!!



- After use under water, remove battery. Flush tool and battery several times in fresh, clean water. Submerge tool fully in order to fill the case with clean water. Lift tool out and allow to drain fully. Repeat 2-5 more times depending on the type of water (muddy, silt, algae, etc) in which the tool was used. **DO NOT USE eDRAULIC TOOL IN SALT or SEA WATER!!!**

- Use a clean, dust free, moist towel to wipe the tool and battery down to remove residual dirt and debris.
- Allow tool and battery to air dry at room temperature as long as possible before next use. 36-48 hours is recommended.
- Lubricate all exposed steel parts (spreader tips, squeezing plates, protective plates, etc.) with a rust inhibitor, like WD-40 Long Term Rust Inhibitor.
- Carry out functional test as described in 8.3

8.3 Overview of eDRAULIC cutting tools

Inspections to be carried out:

Visual Inspection

Cutting tool

- Opening width of the blade arms on the tips (see chapter "Technical data"),
- General tightness (leaks),
- Operability of the star grip - check the automatic return into middle position after release (dead man's function),
- Existence and stability of handle,
- Labels complete and legible,
- Covers in perfect condition,
- Check the torque of the pivot bolt (for torque M_A , see "Technical Data").
- Blade arms free of cracks and nicks or deformations on the cutting surfaces,
- Cutting surfaces fit on top of each other without making contact,
- The sliding plates, bolts and retaining rings of the blade arms are in place and in good condition,
- Illumination of main switch, work area and connection shaft fully functional.

Battery

- Casing undamaged
- Electrical contact surfaces clean and undamaged
- Battery(-ies) fully charged
- Charging state display of lithium-ion battery or batteries fully functional

Functional test

- Easy opening and closing of star grip controls,
- No unusual noises
- No further movement of cutter arms when interrupting the valve function during the process (dead man's switch).

8.4 Protective equipment

Inspections to be carried out:

- Check the protective equipment used on / in the vicinity of the rescue device. Pay particular attention to the protective cover for the movable parts (there may be no cracks!).

9. Repairs

9.1 General information

Service work may only be performed by the device manufacturer or by personnel trained by the device manufacturer and authorized HURST dealers.

Only HURST spare parts may be used to replace all components (see spare parts list), as special tools and compliance with, assembly instructions, safety aspects and inspections are required (see also chapter "Maintenance and Servicing").

During assembly, ensure that all components are particularly clean, as dirt can damage the rescue equipment!



WARNING / CAUTION / PLEASE NOTE!

Protective clothes must be worn when repairs are being carried out, as the devices may also be pressurized when not in operation.



NOTE:

Always register your tool on the HURST Jaws of Life internet site. This is the only way to guarantee extended warranty cover.



ATTENTION!

Because HURST rescue devices are designed for highest performance, only components specified in the spare parts list for the appropriate equipment may be replaced.

Other components in the device may only be replaced if:

- You have participated in an appropriate HURST service training course.
- You have been explicitly granted permission by HURST Customer Service (valid HURST certificate required!)



ATTENTION!

When cleaning units and equipment, note that no cleaning agent may be used that has a pH value outside the range 5 - 8!

9.2 Preventive service

9.2.1 Care instructions

The outside of the device should be cleaned with a damp cloth from time to time (**not the electrical contacts in the connection slot, on the battery**). In addition, the metal surfaces are to be coated with a suitable medium to counteract corrosion (**not the electrical contacts in the connection slot, on the battery**).

(In case of doubt, contact your authorized HURST dealer or HURST directly!)

9.2.2 Function and load test

If there is any doubt regarding the safety or reliability of a device, a function and stress test must also be performed.

HURST offers appropriate test equipment for this.

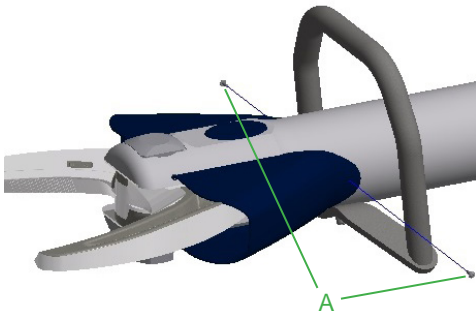
9.3 Repairs

9.3.1 Replacing the blade, protective cover and hand grip of the cutter S 788 EWXT

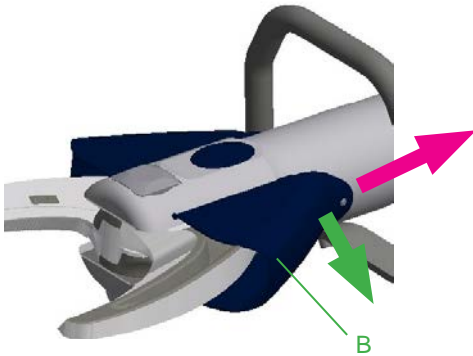
<i>Components to be replaced</i>	<i>Required work steps</i>
Protective cover	1., 2. and 7.
Pivot bolt	1. - 4. and 7.
Handle	1. and 7.
Blade	1. - 5. and 7.


Work steps:

1. First of all, carefully clean the rescue equipment.

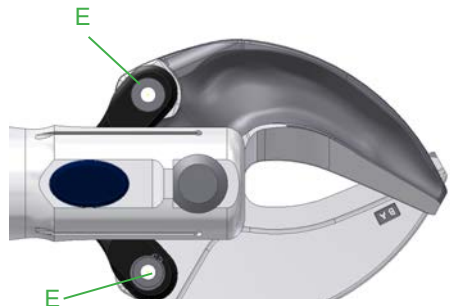


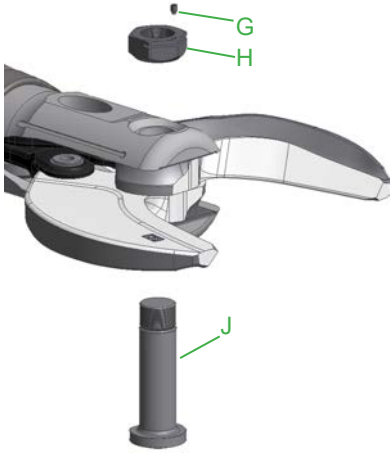
2. Remove the two fixing screws "A" and remove the protective cover "B". To do this, first pull the rounded rear edge outwards and then backwards through the hand grip, as the edges of the protective cover adjoining the cylinder body are kept in place by guide grooves. If necessary, loosen the hand grip and move it backwards to obtain sufficient space to pull it out.



 **CAUTION / PLEASE NOTE!**
When operating the device with the hand guard removed, there is an increased risk of injury caused by the exposed, moving elements.

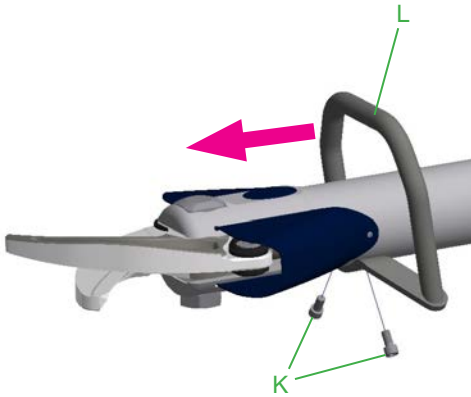
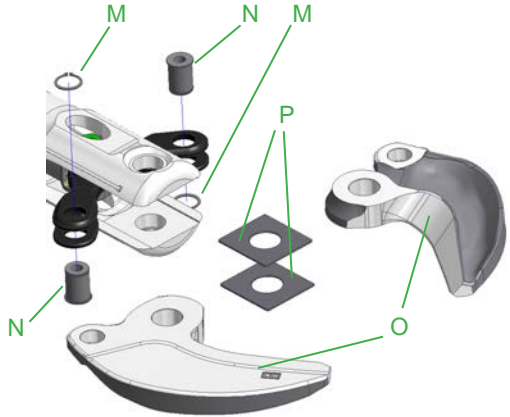
3. Move the blade arms on the until bolt "E" is easily accessible.
Now switch off the device and remove the battery from the device.





4. First remove the grub screw "G", then the central bolt nut "H" and then pull out the central pin "J".

5. Remove the locking rings "M" and push the pin "N" out. You can then pull out the blades "O" and the slide plates "P".



6. Release the fixing screws "K" and remove them. The handle "L" can now be pulled out forwards.

7. The work steps must be carried out in reverse order to fit the new parts.



ATTENTION!

Apply HURST special grease to all sliding surfaces!



NOTE:

The torque required can be taken from the spare parts list of your particular unit.

9.3.2 Decals

All damaged and/or illegible decals (safety notices, type plate etc.) must be replaced.

Procedure:

1. Remove damaged and/or illegible decals.
2. Clean surfaces with industrial alcohol.
3. Affix new decals.

Take care to affix the labels in the correct positions. If this is no longer known, you should ask your authorized HURST dealer or contact HURST directly.

10. Troubleshooting

Fault	Check	Cause	Solution
The motor does not start after activating the star grip.	The main switch is not illuminated, although it has not been switched off.	The star grip was not used for some time (at least 10 minutes) during battery operation. The rechargeable battery has switched itself off.	In order to resume work with the device, the eDRAULIC device must first be switched off at the mains and then switched on again. Alternatively, the capacity display on the rechargeable battery can be activated or the battery may be briefly unplugged and replugged again.
Blade arms move slowly or jerkily when operated	Battery fully charged?	Battery flat	Charge battery
		Battery defective	Replace battery
		Air in the hydraulic system	Repair by an authorized dealer, by personnel specially trained by HURST, or by HURST itself
Blade arms do not move when operated.	Battery fully charged?	Battery flat	Charge battery
		Battery defective	Replace battery
		Device defective	Repair by an authorized dealer, by personnel specially trained by HURST, or by HURST itself
Device does not perform at its given power		Device defective	Repair by an authorized dealer, by personnel specially trained by HURST, or by HURST itself

Fault	Check	Cause	Solution
Following release, the star grip doesn't return to the central position	Casing damaged or star grip operation not working smoothly?	Damage to the torsion spring for reset	Repair by an authorized dealer, by personnel specially trained by HURST, or by HURST itself
		Soiled valve or star grip	
		Defective valve	
		Other mechanical damage (e.g. star grip)	
Hydraulic fluid leaking from the piston rod		Defective rod seal	Repair by an authorized dealer, by personnel specially trained by HURST, or by HURST itself
		Damage to the piston	
The useful operating time between the individual charging cycles is less than 5 minutes, despite charging the batteries according to the instructions.		Battery defective	Replace battery

Contact an authorised HURST dealer or the HURST Customer Service Department directly if the malfunctions cannot be rectified.

The address for the HURST Customer Service department is:

HURST JAWS OF LIFE, INC
A Unit of IDEX Corporation

711 N. Post Road
Shelby, NC 28150 USA
Phone: (704) 487-6961
Fax: (704) 487-7271
e-mail: contacthurst@idex.com

11. Technical data

Since all values are subject to tolerances, minor differences may occur between the data on your equipment and the data in the following tables.

The values may also differ because of reading inaccuracies and/or tolerances in the measuring equipment used.



NOTE:

The following tables contain only the technical data necessary for operation and storage.

Further information about your device is available directly from HURST.

Operating pressure: S 788 EWXT: 70 MPa

11.1 eDRAULIC cutter

Device type		S 788 EWXT
Item number		272288000
Dimensions (excluding battery) L x W x H	[mm]	904 x 266 x 253
	[in.]	35.6 x 10.5 x 9.96
Min. cutting opening	[mm]	200
	[in.]	7.97
Mass (excl. battery)	[kg]	22,2
	[lbs.]	48.9
Nominal electrical voltage (with lithium-ion battery)	[V DC]	25,2
Cutting Class (EN 13204)		K
Classification (NFPA 1936)		A8/B9/C8/D9/E9

11.2 Noise emission (based on standard EN ISO 3744)

Device type		S 788 EWXT
Battery type used for device		Lithium/ion
Idling (measured at a distance of 1 m, according to EN)	[dB(A)]	72
Full load (measured at a distance of 1 m, according to EN)	[dB(A)]	73
Idling (measured at a distance of 4 m, according to NFPA)	[dB(A)]	66
Full load (measured at a distance of 4 m, according to NFPA)	[dB(A)]	67

11.3 Operating and storage temperature ranges

Operating temperature [°C] / [°F]	-20 ... +55	-4 ... +131
Storage temperature (device not in operation) [°C] / [°F]	-30 ... +60	-22 ... +140

11.4 Oscillation / vibration

The total oscillation value / vibration value to which the upper limbs are exposed, is usually below 2.5 m/s².

Higher values may be measured for short periods as a result of interaction with the materials to be processed.

(The oscillations / vibrations were determined in accordance with DIN EN ISO 20643.)

11.5 Torques for central bolts

Device type	S 788 EWXT
Pivot bolt	M 32 x 1,5
Wrench size [mm] [in.]	46 1.81
Torque [Nm] [lbf in]	150 + 10 1328 + 89

11.6 Cutting performance

Device type	Max. cutting material dimensions				
	Round material [mm] [in.]	Flat material [mm] [in.]	Round tube [mm] [in.]	Square tube [mm] [in.]	Rectangular tube [mm] [in.]
S 788 EWXT	42 1.65	140x10 5.51x0.39	101.6x4,0 4.00x0.16	70x5,0 2.76x0.20	100x50x5,0 3.94x1.97x0.20

The tensile strength of all materials meets the testing criteria of NFPA 1936.

12. Accessories

12.1 Batteries

Only HURST lithium-ion rechargeable batteries may be used to operate eDRAULIC devices. These guarantee optimum performance and maximize the operating time of the eDRAULIC devices.



NOTE:

To ensure maximum operating time and maximum uptime, you must make sure that the battery is always fully charged before connecting it to a rescue device.



Query button

Charging state display

Technical Data	nom. Voltage	Capacity	Energy	Weight
Unit	V DC	Ah	Wh	kg <i>lbs</i>
Battery type 1	25,2	5,0	126	1,2 <i>2.65</i>
Battery type 2	25,2	9,0	227	1,6 <i>3.53</i>

The charge status display is activated either by pressing a switch or activates automatically when reaching a certain charge level (see table below).

Capacity	Activated by switch	Automatic activation
100%	Constant light	No
75%	Constant light	No
50%	Flashing yellow, red continuous light	Yes 15 seconds activated and 45 seconds off. After 8 hours the activation cycle will terminate automatically.
25%	Flashing red till battery is discharged	Yes After 8 hours the activation cycle will terminate automatically.

12.2 Battery charger

Only the "eDRAULIC Power Pack Charger" may be used for the lithium-ion batteries.



NOTE:

Pay strict attention to the separate operating instructions for the battery charger.

13. Instructions regarding disposal



Please duly dispose of all packaging materials and removed items.

Electrical equipment, accessories and packaging should always be disposed of in an environmentally compatible way.

Only for EU countries:

Do not dispose of electrical equipment with your household waste!

According to the European Directive 2002/96/EC governing electrical and electronic waste and their application in national legislation, old electrical equipment must be separately collected and recycled in an environmentally compatible manner.

Please also take into account the notes in the separate operating instructions for the battery chargers.

14. Notes



Please duly dispose of all packaging materials
and removed items.

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