




PRODUCT SPECIFICATIONS – S 789 e<sup>3</sup>, 93-20-44

# ELECTRO-HYDRAULIC CUTTER: S 789 e<sup>3</sup>

1. Electro-hydraulic cutter must not require connection to an external hydraulic source, generation of the required hydraulic pressure takes place within the body of the device by either a quick exchange lithium-ion battery or an external power supply.
2. The electro-hydraulic tool is equipped with light-emitting diodes attached on the operating side to facilitate work under poor lighting conditions. The lights must be powered by the same Lithium-Ion battery that powers the electro-hydraulic tool and not a secondary battery.
3. The cylinder of the tool shall be made of anti-corrosive light aluminium alloy for its lightweight, strength and long life. The body of the tool shall have a high impact, non-metallic housing.
4. The cutter must have an advanced blade geometry for pulling metal to the back of the blades, reducing tool rotation and providing maximum cutting performance.
5. The blades shall be made of dropped-forged steel which has a glass-pearl blasted finish and are re-grindable.
6. The control mechanism shall feature a star-grip control actuator for ease of operation by allowing 360 ° operations in any position. The mechanism shall be separate and independent from the handle to prevent accidental activation during carrying.
7. The tool shall have two handles. One located at the center of the tool and the other located below the control mechanism. The center crossbar handle allows easy ergonomic manipulation from the center or either side without the need of rotating the handle in to position.



**POWER**  
**UNDER**   
**CONTROL**

# ELECTRO-HYDRAULIC CUTTER: S 789 e<sup>3</sup>



**POWER  
UNDER  
CONTROL**

8. The opening and closing positions are clearly marked.
9. When operating the control mechanism, the respective markings of the opening or closing direction should be illuminated.
10. The tool shall have two battery status indicators, one on the battery directly, and another on the top of the tool in front of the control mechanism.
11. The tool shall have a turbo function that is activated when the star grip control is turned. The turbo function automatically turns off when the tool switches from low pressure to high pressure. If the turbo is activated, this shall be indicated by an illuminated LED on the tool.
12. The tool shall have an integrated roll warning. As soon as the tool gets a dangerous lateral tilt during the cutting process, the on/off button lights up red.
13. The tool dimensions without the battery shall not be any longer than 912 mm, wider than 266 mm or higher than 253 mm.
14. The operating pressure to the tool will be not less than 700bar.
15. The tool must be compatible with three battery options; either a 5Amp/25.2 V, a 9Amp/25.2V or a 9Amp/25.2V Saltwater battery capable of water submersion up to 3m.
16. The maximum cutter opening at the tips will be not less than 200 mm.
17. The cutting performance of the tool shall be able to cut not less than 42 mm diameter round steel.



## ELECTRO-HYDRAULIC CUTTER: S 789 e<sup>3</sup>

18. The tool must be NFPA 1936; 2020 Edition compliant and shall be labelled as such bearing the mark of the 3rd party testing agency.
19. Cutting performance should be no less than A8/B9/C8/D9/E9/F5 as defined in NFPA 1936; 2020 and certified by a 3rd party testing agency.
20. The tool must be EN 13204:2016-12 compliant and shall be labelled as such bearing the mark of the 3rd party testing agency.
21. Cutting classification should be no less than 1K-2K-3K-4K-5K as defined in EN 13204:2016-12 and certified by a 3rd party testing agency.
22. The tool will not weigh more than 22.4 kg excluding battery.
23. The tool shall be able to operate submerged up to 60 minutes in 3m deep Fresh and Saltwater. The battery must be able to be replaced submerged in both fresh and salt water.
24. The tool shall have an IP rating of IP58 and utilize a battery with an IP rating of IP68.



## LUKAS Hydraulik GmbH

A Unit of IDEX Corporation  
Weinstraße 39  
91058 Erlangen  
Germany

Fon: +49 9131 698-0

E-Mail: [lukas.info@idexcorp.com](mailto:lukas.info@idexcorp.com)

[www.lukas.com](http://www.lukas.com)

[www.lukas-webstore.de](http://www.lukas-webstore.de)

© Copyright | 07/2021 | LUKAS Hydraulik GmbH

Änderungen und Irrtümer vorbehalten