



A RES - 500

PORTABLE ELECTRICAL DISCHARGE MACHINING (EDM)



ARES-500

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DISCHARGE MACHINING (EDM)

The portable solution for the removal of seized or broken stud/bolts, disintegrating very hard metals in difficult environment.

ARES-500 combines state-of-the-art spark erosion technology with a modular and portable design, making it ideal for operations in challenging environments.

Up to 10 time faster compared to standard drilling methods.

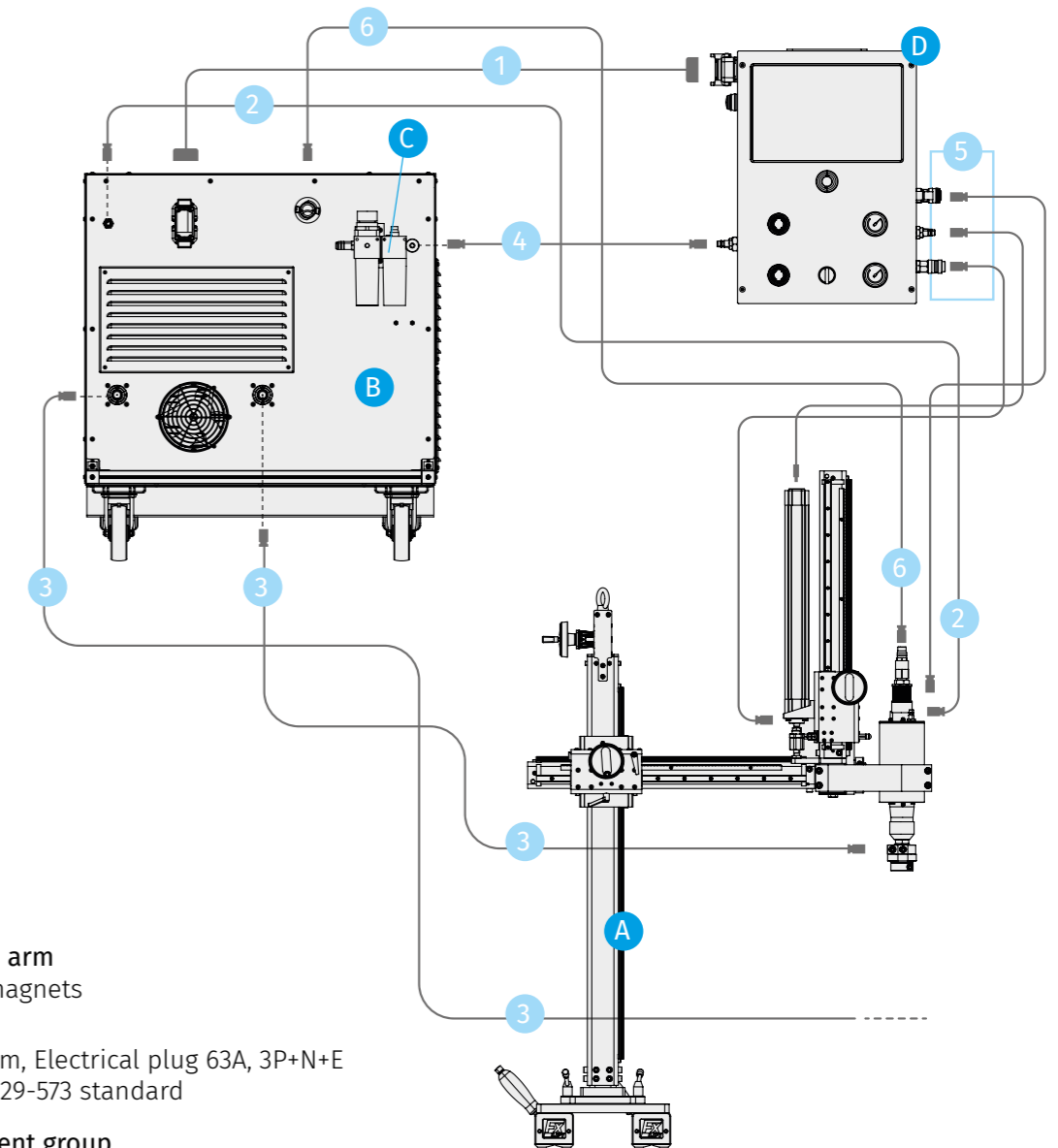
Whether in power plants, refineries, or heavy machinery maintenance, **ARES-500** adapts to a variety of applications, providing reliability, safety, and versatility.



MAIN FEATURES

- 1 Wide Range of Applications**
Perfect for removing stuck bolts, broken studs, pins, shaft keyways, and creating large pilot holes. Faster than standard drilling methods, with unparalleled precision.
- 2 Intuitive Touchscreen Display**
User-friendly interface for parameter adjustment and process monitoring, ensuring easy and effective operation.
- 3 Standard and Custom Electrodes**
Supports a comprehensive range of electrodes, including custom designs for specialized tasks.
- 4 Total Finish Control**
Enables adjustments to the operating frequency, ensuring optimal performance across different materials and conditions. To achieve all shades of finish, from gross to smooth.
- 5 Modular and Flexible Design**
Lightweight and forkliftable, with separate components (generator, built-in hydraulic system, control panel, and 5-axis adjustable arm) for easy transport and adaptability.

SCOPE OF SUPPLY



- A** 5-Axis adjustable arm
Along with n° 2 magnets
- B** Generator
- Supply Cable 10m, Electrical plug 63A, 3P+N+E
- Water inlet NFE 29-573 standard
- C** ATG - Air treatment group
- Air inlet 3/8" quick coupling
- D** CP - Remote control panel
- 1** N°1 Generator-Control Panel Connecting cable (10m)
- 2** N°1 Generator-Positioner Power cable (10m)
- 3** N°2 5-Axis adjustable arm Connections (10m)
- 4** N°1 ATG - CP Pneumatic hose (10m)
- 5** N°3 CP - 5-Axis adjustable arm Pneumatic hoses (10m)
- 6** N°1 Hydraulic hose (10m)

TECHNICAL DATA

STANDARD RANGE		M6 - M200
POWER		20 KVA
UTILITIES REQUIRED	ELECTRICAL SUPPLY	400V AC 3ph, 50-60Hz
	AIR	7 bar
	WATER FLOW	60 l/min
TANK CAPACITY		75 liters
WEIGHT		400 kg

PERFORMANCE

DIAMETER	DRILLING TIME	EDM TIME*
5" (M125)	5 working shifts	6h 30min
4" (M100)	3 working shifts	5h
3" (M75)	2 working shifts	3h

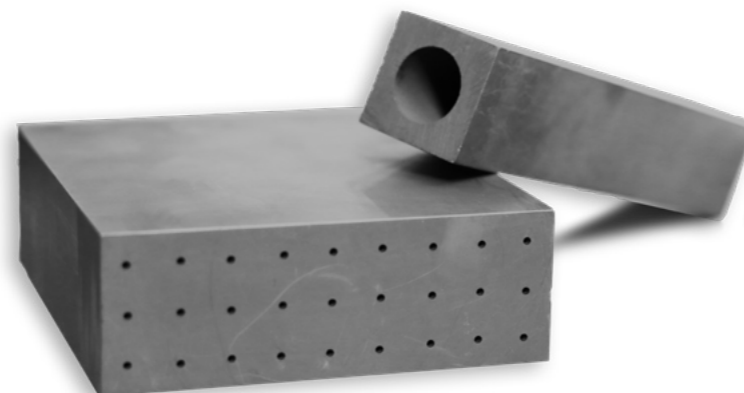
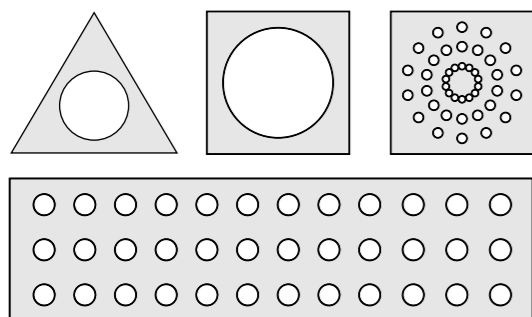
*Approximate time without Booster (Optional)

ELECTRODES

The electrodes for the **ARES-500** machine are designed to provide maximum versatility and precision in machining operations.

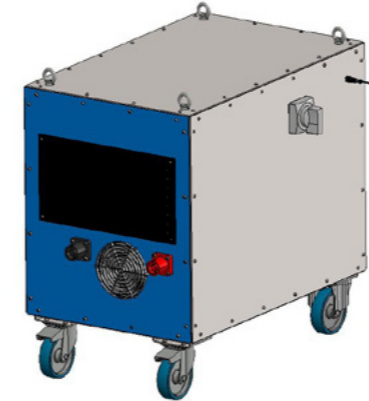
Depending on the required **size, shape,** and level of accuracy, we can supply **custom-made electrodes tailored** to meet any specific need.

The examples shown are provided for reference only: our team of experts is always available to develop and recommend the optimal solution, ensuring outstanding performance and high-quality results.



OPTIONAL & ACCESSORIES

PPU-1000 - Power Pack Unit* (20 KVA)



The **PPU-1000** when paired with the **ARES-500** base unit, allows for enhanced power output, enabling the execution of more demanding tasks with ease.

This combination significantly accelerates operations, reducing machining time while maintaining precision and reliability.

The **PPU-1000** is designed to seamlessly integrate with the **ARES-500** system, providing users with a powerful solution for increased efficiency in spark erosion applications.

Suggested for sizes bigger than M75 (3")

OFFSETS, EXTENSIONS and COLLETS

ARES-500 comes with a wide range of accessories to ensure maximum versatility in any operational scenario. Offsets and extensions allow you to work even in the most hard-to-reach areas, adapting to the most complex requirements.

Thanks to our R&D team, we can develop the best custom solutions for your projects.

Additionally, we offer custom electrode holders and electrodes, tailored to meet every application need with precision and reliability.



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EVO



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