

# \ ONA ELECTRO-EROSION

Pioneers in the development of EDM (Electric Discharge Machining) technologies, **ONA** is the **world's oldest EDM machine manufacturer**, the European Union's first and one of the world's most important manufacturers.

We work with the experience and conviction that **technological knowledge guarantees the best solution**. Thus, since 1952, our team of experts, with the talent and know-how required, has been available to provide tailored solutions that adapt to your needs.

**14,000**

machines installed worldwide.

**90%**

of our production are exports.

**60**

countries on the 5 continents with **ONA** machines.

**70**

different configurations of large-scale machines.



## \ GUARANTEED ROBUSTNESS, PRECISION AND RELIABILITY

The new generation of **ONA** machines has the traditional robustness and reliability that has defined the brand since 1952:

- Made in Europe quality.
- Symmetrical structural design.
- Certified precision: ISO 11090 in die sinking machines and ISO 14137 in wire machines.
- Direct position measurement on the X, Y, U, V axes.

## \ MEET OUR EXPERTS

Our best service and technical advice for our customers' success.

The Technology and Processes Service (TPS) at **ONA**, provided by our best experts in electro-erosion, aims to guarantee a perfect integration of our products in the specific environment of each customer. The guarantee that our customers will always get the best performance from their **ONA** machine.

LOOK NO FURTHER,  
THE FUTURE IN EDM  
IS HERE

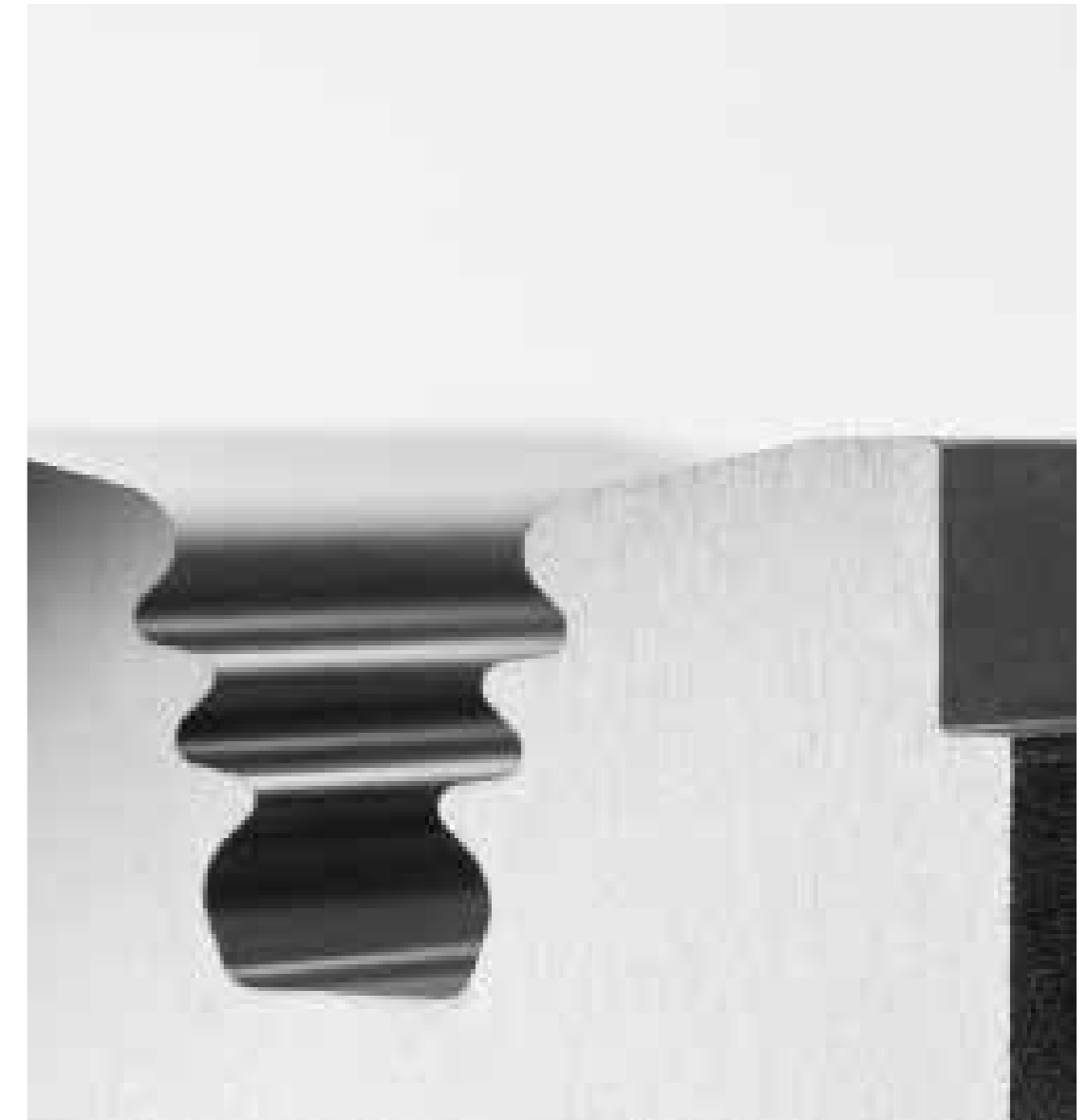
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**ONA** WE ARE EDM



COVER PICTURE >>  
Calibration pattern for measuring fir tree shaped slots of one aviation turbine blade holder cut in one **ONA AV25** machine.

\ **ONA AV**  
STANDARD

# \ WE ARE EDM



We are EDM. It is in our origins, it's within us.

It is the commitment we made when we started out and which we have stood by after more than 60 years of experience.

The cornerstone of our work that gives meaning to everything we do: electro-erosion. We maintain a firm commitment to this technology. This has enabled us to be, and continue to be, the leaders of our industry, in the past, present, and in the future.

**WE ARE EDM.**

## \ WE ARE EXPERTS

We are specialists in EDM, focused on the research and development of electro-erosion technologies.

## \ WE ARE PROUD

More than 60 years of experience, 14,000 machines installed, a team of highly qualified professionals, with extensive knowledge and a promising future.

## \ WE ARE YOUR SOLUTION

We adapt our knowledge and resources to find the best solution for our customers.

## \ WE ARE CONFIDENT

We offer the highest level of productivity, quality, and results, as we are confident in our Technology.

## AV WIRE EDM MACHINES

# \ ONA AV STANDARD

PREMIUM WIRE EDM WITH EXTREMELY SIMPLE AND USER-FRIENDLY OPERATION

The **ONA AV** has been designed to meet the highest standards of precision, surface finish and productivity. It incorporates a new CNC-CAM with touchscreen that exceeds the demands of the most advanced programmer and a new digital generator with a micro fine finishing circuit that allows for cutting speeds of up to 42 in<sup>2</sup>/hour with 0.013 inches wire and excellent surface finishes in the order of 0.10 µm Ra.

### TECHNOLOGICAL ADVANTAGES:



New generator that makes it possible to achieve finishes in the order of 0.1 µm Ra.



CNC-CAM capable of controlling up to 8 axes simultaneously, enabling CAD/CAM integration.



Extremely simple and user-friendly user interface with a 23-inch touchscreen.



100% ecological filtration without replaceable cartridges.



Technological tables for single-cut precision cutting and ecocutting technologies that reduce consumption of wire.



Direct measurement of the positioning of axes with optical linear scales with a resolution of 0.1 µm.



Collision protection system with the ability to detect impact forces of only 0.8 kg (8 N).



CNC with programming scripts, which enables the user to create customised measurement and execution cycles.

## ONA AV25 EXCEPTIONAL PRECISION



## ONA AV35 EXCELLENT SURFACE QUALITY



### ONA AV25

Travel of X axis	15.7 in
Travel of Y axis	11.8 in
Travel of Z axis	9.8 in
Maximum workpiece dimensions (Length x Width x Height)	276 x 256 x 9.8 in
Travel of the U/V axes	4.7 x 4.7 in
Maximum angle of conical cut (optionally ±45°)	± 30° / 3.4 in
Wire diameter	0.003 - 0.013 in
Maximum cutting speed	42 in <sup>2</sup> /hr - Ø 0.013 in (Xcc wire)
Minimum roughness	0.1 µm Ra

### ONA AV35

Travel of X axis	23.6 in
Travel of Y axis	15.7 in
Travel of Z axis	15.7 in
Maximum workpiece dimensions (Length x Width x Height)	41.7 x 29.5 x 15.7 in
Travel of the U/V axes	4.7 x 4.7 in
Maximum angle of conical cut (optionally ±45°)	± 30° / 3.4 in
Wire diameter	0.003 - 0.013 in
Maximum cutting speed	42 in <sup>2</sup> /hr - Ø 0.013 in (Xcc wire)
Minimum roughness	0.1 µm Ra