

# \ 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%

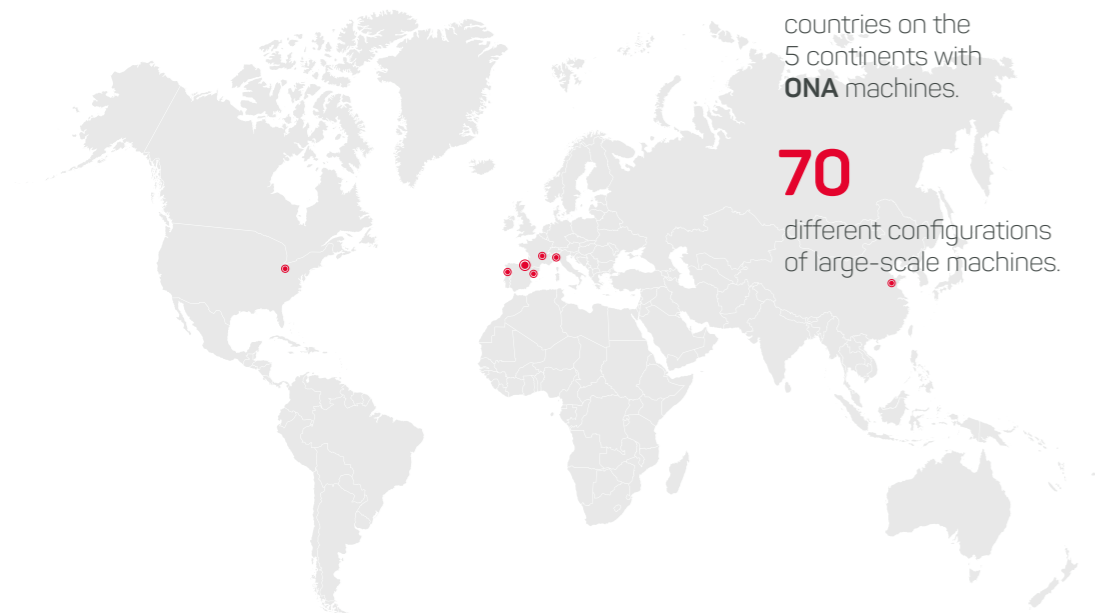
of our production are exports.

## 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.

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LOOK NO FURTHER,  
THE FUTURE IN EDM  
IS HERE



## COVER PICTURE >>

Cutting of the mounting grooves for the blades of a turbine disk carried out in an **ONA AV60** machine.

\ **ONA AV**  
MODULAR

# \ 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, which has enabled us to be leaders and a reference in our sector in the past, now 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 guarantee productivity 100%. We offer quality, guarantees and results. Because we are fully confident in our technology.

## AV WIRE EDM MACHINES \ ONA AV MODULAR

UP TO 30 MODELS OF MODULAR  
LARGE-SCALE WIRE EDM MACHINES

Thanks to their modular and versatile design, the large-scale **ONA AV** Modular machines enable each customer to configure their own machine with unprecedented flexibility. All at no extra cost and also with lead times similar to a standard machine.

The **ONA AV** range 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 that allows for cutting speeds of up to 360 mm<sup>2</sup>/min with 0.30 mm wire.

### TECHNOLOGICAL ADVANTAGES:



Easycut digital generator which ensures maximum productivity and excellent quality (360 mm<sup>2</sup>/min with 0.30 mm wire).



100% ecological filtration without replaceable cartridges.



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



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



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



Manifold combinations of X-Y-Z travels.



Highly robust mechanical components that guarantee long-lasting precision.



Surface integrity 100% guaranteed.



Wire spools holder system for spools up to 45 kg.

## ONA AV60 MAXIMUM PRODUCTIVITY



## ONA AV80 100% ECOLOGICAL FILTER



	ONA AV60	ONA AV80
Travel of X axis	800 mm	1000 mm
Travel of Y axis	600 mm	600 / 800 / 1000 mm
Travel of Z axis	500 / 600 / 700 / 800 mm	500 / 600 / 700 / 800 mm
Maximum workpiece dimensions (Length x Width x Height)*	1300 x 1040 x 500 mm	1500 x 1040 x 500 mm
Maximum workpiece weight	5000 Kg	5000 Kg
Travel of the U/V axes	500 x 500 mm	500 x 500 mm
Maximum angle of conical cut	± 30° / 400 mm	± 30° / 400 mm
Wire diameter	0.20 - 0.33 mm	0.20 - 0.30 mm
Maximum cutting speed	450 mm <sup>2</sup> /min - Ø 0.33 mm (Xcc wire)	360 mm <sup>2</sup> /min - Ø 0.30 mm (Xcc wire)

\*Request the different configurations available. The data shown correspond to the smallest machine configuration for each of the models.

## ONA AV100 LARGE MACHINING CAPACITY



## ONA AV130 GREAT AUTONOMY AND VERSATILITY



	ONA AV100	ONA AV130
Travel of X axis	1500 mm	2000 mm
Travel of Y axis	1000 / 1300 mm	1000 / 1300 mm
Travel of Z axis	600 / 700 / 800 mm	600 / 700 / 800 mm
Maximum workpiece dimensions (Length x Width x Height)*	1950 x 1600 x 600 mm	2500 x 1600 x 600 mm
Maximum workpiece weight	10000 Kg	10000 Kg
Travel of the U/V axes	500 x 500 mm	500 x 500 mm
Maximum angle of conical cut	± 30° / 400 mm	± 30° / 400 mm
Wire diameter	0.20 - 0.30 mm	0.20 - 0.30 mm
Maximum cutting speed	360 mm <sup>2</sup> /min - Ø 0.30 mm (Xcc wire)	360 mm <sup>2</sup> /min - Ø 0.30 mm (Xcc wire)

\*Request the different configurations available. The data shown correspond to the smallest machine configuration for each of the models.