

# \ 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%**

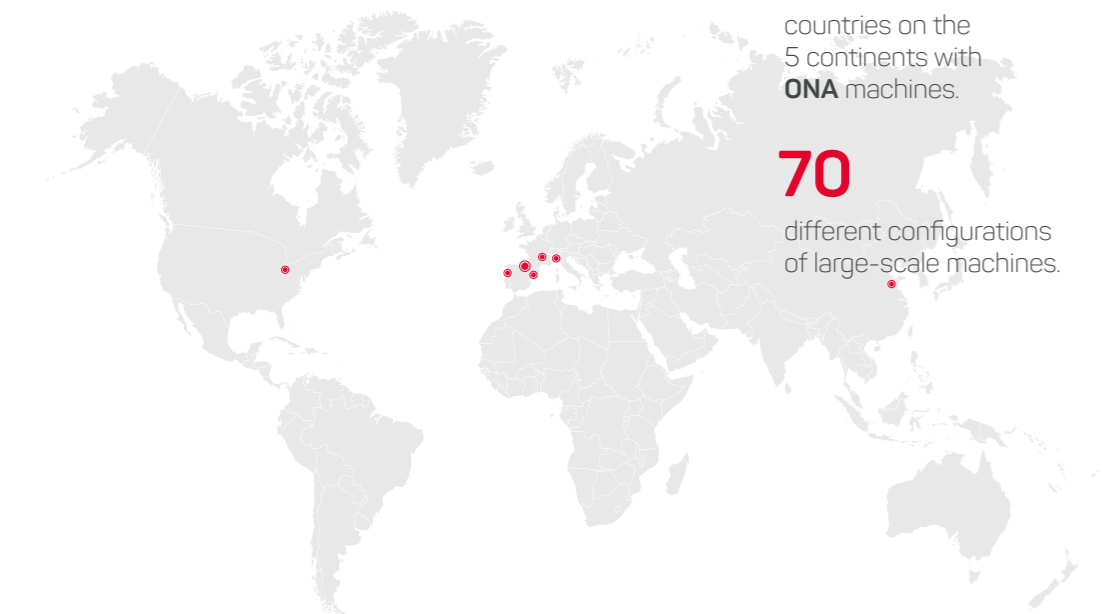
of our production are exports.

**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.

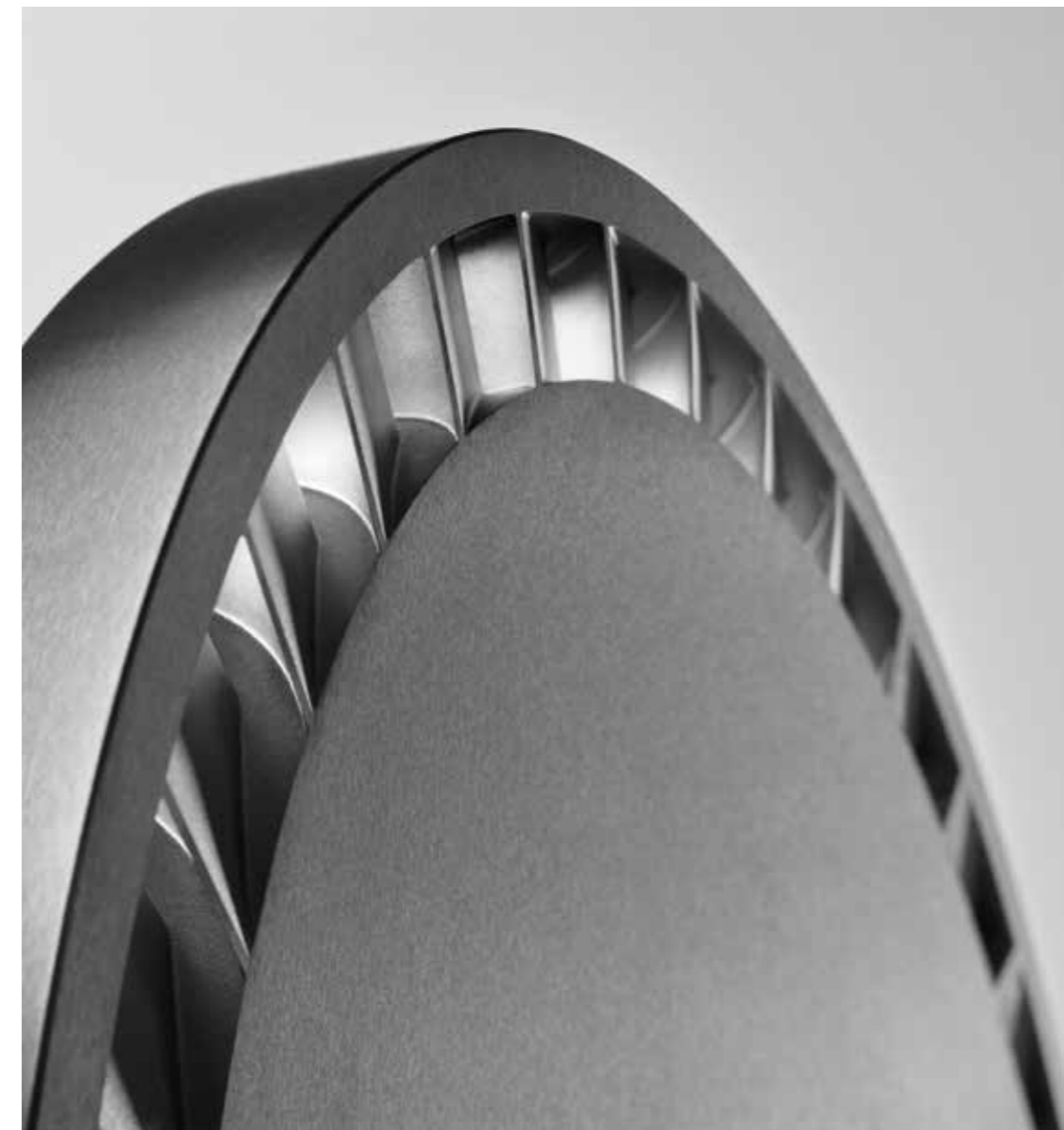
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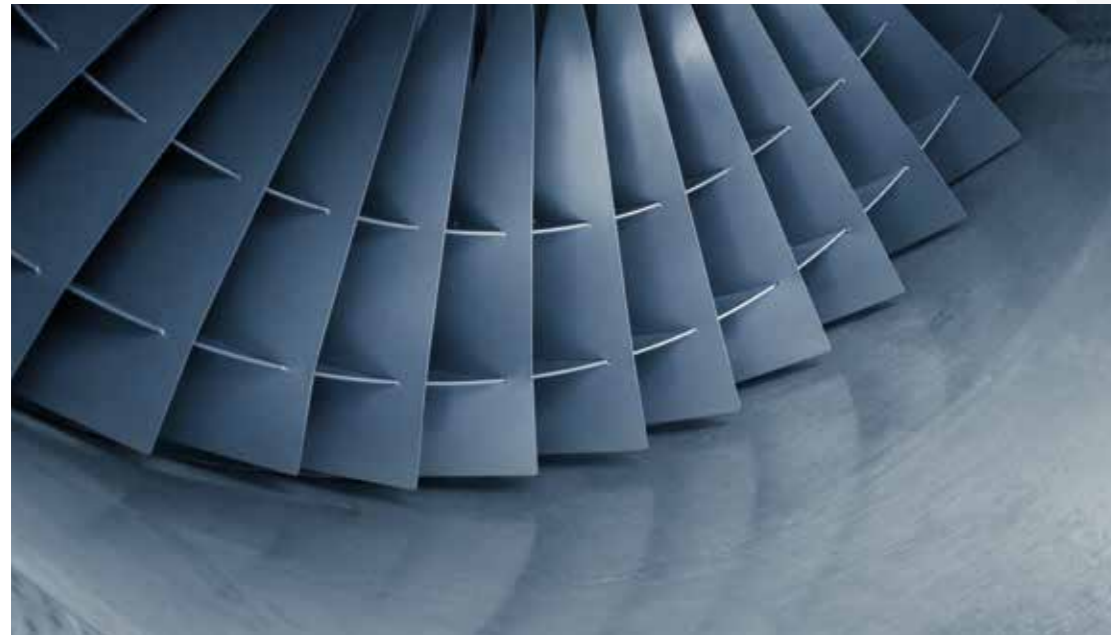
LOOK NO FURTHER,  
THE FUTURE IN EDM  
IS HERE



COVER PICTURE >>  
Erosion of blades integrated into a turbine disk for power generation. Work performed by an **ONA QX7** machine.

\ **ONA QX**  
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.

## QX DIE-SINKING EDM MACHINE \ ONA QX MODULAR

UP TO 40 MODELS OF LARGE-SCALE MODULAR MACHINES

Thanks to their modular and versatile design, the large-scale **ONA QX 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 QX** series of machines incorporates a new digital generator for greater efficiency which brings a great improvement in productivity, while significantly reducing the wear of the electrodes.

### TECHNOLOGICAL ADVANTAGES:



The generator of the QX machines allows an improvement in the performance of the machine of up to 30% in roughing processes and up to 50% in finishing processes. At the same time the wear of the electrodes is reduced by more than 80%.



The reinforced C axis provides erosion stability with electrodes that have high moments of inertia.



Powerful CNC that can control up to 8 axes simultaneously and is capable of working in 3D without limitations.



The structure of the machine has a design optimised by means of finite elements (FEM) and is made of stabilised grey cast iron, allowing the loading of workpieces weighing up to 25 tonnes.



Correction of the electrode in C and set up with synchronised interpolation in C.



Totally automated ecological filter, maximum productivity and cost savings.

**ONA QX7 / TQX7**  
FLEXIBILITY OF HEADS:  
ONE (QX) OR TWO (TQX).



**ONA QX8 / TQX8**  
3D SET UP:  
EFFECTIVE SET UP



**ONA QX10 / TQX10**  
REINFORCED C AXIS



	ONA QX7 / TQX7	ONA QX8 / TQX8	ONA QX10 / TQX10
Total travel of the X axis (individual TQX)	1500 mm (830 mm)	2000 mm (1200 mm)	3000 mm (2000 mm)
Travel of Y axis	750 / 1000 mm	750 / 1000 mm	1000 / 1500 mm
Travel of the electrode holder	650 / 800 mm	650 / 800 mm	800 / 1000 mm
Maximum distance between head and table	970 / 1170 mm	970 / 1170 mm	1170 / 1470 mm
Internal dimensions of the tank (Length x Width x Height)*	2300 x 1500 x 1000 mm	2800 x 1500 x 1000 mm	4000 x 2000 x 1250 mm
Worktable	1700 x 1000 mm	2200 x 1000 mm	3200 x 1600 mm
Admissible weight on the table	15000 Kg	20000 Kg	25000 Kg
Maximum weight of the electrode	200 Kg	200 Kg	200 Kg
Intensity of the generator	100 / 200 / 400 A	100 / 200 / 400 A	100 / 200 / 400 A

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