

\ 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%

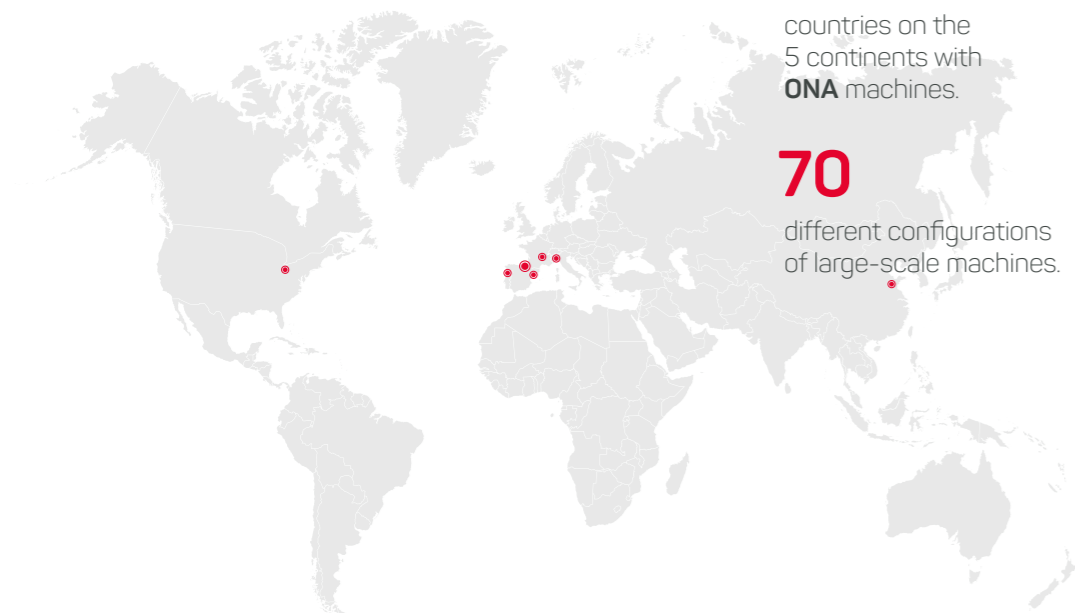
of our production are exports.

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 the "strip seal slots" of a flow directing stator in an aeroplane turbine. Work performed by an **ONA NX4F** machine.

\ **ONA NX**
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, 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.

NX DIE-SINKING EDM MACHINE \ ONA NX STANDARD

HIGHLY RIGID MECHANICAL STRUCTURE FOR EXTREME PRECISION

The **ONA NX STANDARD** generation of machines feature high rigidity and precision. This has been possible thanks to the use of the most modern design and analysis methods in their development, as well as the use in their construction of the most modern machining and assembly techniques.

The entire **ONA NX** range is based on industrial eco-design and has been created to increase the simplicity and efficacy of its operation. It incorporates a state-of-the-art CNC which provides ease of use for the operator and a higher level of automation.

TECHNOLOGICAL ADVANTAGES:



Generator with SAAC (Surface Automatic Adaptive Control) system that maximises the generator performance in erosion work involving evolutive surface electrodes.



Direct measurement of the positioning on the X, Y, Z axes by means of milesimal linear optical scales.



BES (Burning Expert System) Expert Erosion System that guarantees 100% performance in highly difficult jobs.



Project Generator Wizard (strategy and electrode manager) and Strategy Generator Wizard (automatic program generation assistant).



Totally automated ecological filter, maximum productivity and cost savings (optional).



Spheres, cones, orbitals, vectors, etc. can be done in 3D.



A faster, more precise and better surface quality erosion system thanks to the high-speed pulse technology.



CNC that enables work in 3D without limitations and set up with the highest level of remote supervision and control.

ONA NX3F EXCELLENT GENERATOR



ONA NX4F GUARANTEED LONG-LASTING PRECISION



ONA NX3F

| | |
|---|--------------------|
| Travel of X axis | 400 mm |
| Travel of Y axis | 300 mm |
| Travel of the electrode holder | 300 mm |
| Maximum distance between head and table | 470 mm |
| Internal dimensions of the tank (Length x Width x Height) | 920 x 590 x 350 mm |
| Worktable | 600 x 400 mm |
| Admissible weight on the table | 750 Kg |
| Type of work tank | Fixed |
| Maximum weight of the electrode | 50 Kg |
| Minimum roughness | 0.1 µm Ra |
| Intensity of the generator | 100 A |

ONA NX4F

| | |
|---|---------------------|
| Travel of X axis | 600 mm |
| Travel of Y axis | 400 mm |
| Travel of the electrode holder | 400 mm |
| Maximum distance between head and table | 600 mm |
| Internal dimensions of the tank (Length x Width x Height) | 1250 x 780 x 490 mm |
| Worktable | 800 x 600 mm |
| Admissible weight on the table | 1500 Kg |
| Type of work tank | Fixed |
| Maximum weight of the electrode | 75 Kg |
| Minimum roughness | 0.1 µm Ra |
| Intensity of the generator | 100 A |