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.

ON ELECTRO-EROSION

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. This guarantee that our customers will always get the best performance from their ONA machine.

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COVER PICTURE

Erosion of the honeycomb lining structure on the component of a low pressure turbine of an aircraft engine.
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 PROUD**
More than 60 years of experience, 14,000 machines installed, a team of highly qualified professionals, with extensive knowledge and a promising future.

**WHY CHOOSE US?**

**WE ARE EDM**

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

**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.

**ONA QX STANDARD**

NEW DIGITAL GENERATOR FOR GREATER EFFICIENCY

The **ONA QX STANDARD** family 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. Compared to conventional machines, the improvement in productivity of the **ONA QX** machines is 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%.

**TECHNOLOGICAL ADVANTAGES:**

- **NEW DIGITAL GENERATOR FOR GREATER EFFICIENCY**
  - Power supply system improves the performance of the machines in the finishing process, allowing it to be possible to achieve a final roughness in the order of 0.8 µm Ra.
  - New possibilities in the finishing of components, enabling the production of components with very demanding requirements in terms of roughness.
- **TECHNOLOGICAL ADVANTAGES:**
  - Totally automatic ejection filter changes for fast and cost-effective maintenance.
  - Powerful CNC that can control up to 8 axes simultaneously and is capable of working in 3D and without limitations.
  - Design optimised by means of finite elements (FEM).
  - New Generation of generation system ensures the best precision in movements and positions.
  - Guaranteed high precision in movements and positioning using linear scales in ten-thousandths.
  - New iteration system allows a high precision in movements and positioning using linear scales in ten-thousandths.
  - Powerful CNC that can control up to 8 axes simultaneously and is capable of working in 3D and without limitations.
  - Design optimised by finite elements (FEM).
  - New generation of generation system ensures high precision in movements and positioning using linear scales in ten-thousandths.
- **NEW DIGITAL GENERATOR FOR GREATER EFFICIENCY**
  - Total automated ecological filter, maximum productivity and cost savings.
  - Jump Orbit System (JOS). The new JOS System reduces the execution time for orbital erosion jobs. The system defines which areas of the orbit have already been completed and only erodes in areas where this is necessary.
  - Powerful CNC that can control up to 8 axes simultaneously and is capable of working in 3D and without limitations.
  - Design optimised by means of finite elements (FEM).
  - New generation of generation system ensures the best precision in movements and positions.
- **NEW DIGITAL GENERATOR FOR GREATER EFFICIENCY**
  - Guaranteed high precision in movements and positioning using linear scales in ten-thousandths.
- **NEW DIGITAL GENERATOR FOR GREATER EFFICIENCY**
  - Powerful CNC that can control up to 8 axes simultaneously and is capable of working in 3D and without limitations.
  - Design optimised by means of finite elements (FEM).
  - New generation of generation system ensures the best precision in movements and positions.

**ONA QX3 / QX4 UNBEATABLE MACHINING EFFICIENCY**

**ONA QX6 GREAT AUTONOMY AND VERSATILITY**

**ONA QX6**

- **Travel of X axis**: 39.4 in
- **Travel of Y axis**: 23.6 in
- **Travel of the electrode holder**: 19.7 in
- **Maximum distance between head and table**: 29.9 in
- **Internal dimensions of the tank (Length x Width x Height)**: 66.9 x 39.4 x 23.6 in
- **Worktable**: 47.2 x 31.5 in
- **Admissible weight on the table**: 8800 lbs
- **Type of work tank**: Drop door
- **Maximum weight of the electrode**: 440 lbs
- **Minimum roughness**: 0.08 µm Ra
- **Intensity of the generator**: 100 / 200 A

**ONA QX3 / QX4**

- **Travel of X axis**: 15.7 / 23.6 in
- **Travel of Y axis**: 11.8 / 15.7 in
- **Travel of the electrode holder**: 11.8 / 15.7 in
- **Maximum distance between head and table**: 18.5 / 23.6 in
- **Internal dimensions of the tank (Length x Width x Height)**: 35.8 x 24 x 13.8 in
- **42.1 x 30.3 x 17.7 in**
- **Worktable**: 23.6 x 19.7 / 31.5 x 23.6 in
- **Admissible weight on the table**: 1650 / 3300 lbs
- **Type of work tank**: Rise and fall tank
- **Maximum weight of the electrode**: 220 / 440 lbs
- **Minimum roughness**: 0.08 µm Ra
- **Intensity of the generator**: 100 A