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.

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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COVER PICTURE

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

**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 in²/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, with a CNC/CAM integration.
- Collision protection system with the ability to detect impact forces of only 0.8 kg (8 N).
- Technological tables for single-cut precision cutting and ecocutting technologies that reduce consumption of wire.
- Direct measurement of the position of axes with optical linear scales with a resolution of 0.1 µm.
- CNC with programming scripts, which enables the user to create customised measurement and execution cycles.

**ONA AV25**

**ONA AV35**

**PREMIUM WIRE EDM WITH EXTREMELY SIMPLE AND USER-FRIENDLY OPERATION**

**EXCEPTIONAL PRECISION**

**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): 27.6 x 25.6 x 9.8 in
- Travel of the U/V axes: 4.7 x 4.7 in
- Maximum angle of conical cut: ± 30º / 3.4 in (optionally ±45º)
- Wire diameter: 0.003 - 0.013 in
- Maximum cutting speed: 42 in²/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: ± 30º / 3.4 in (optionally ±45º)
- Wire diameter: 0.003 - 0.013 in
- Maximum cutting speed: 42 in²/hr - Ø 0.013 in (Xcc wire)
- Minimum roughness: 0.1 µm Ra