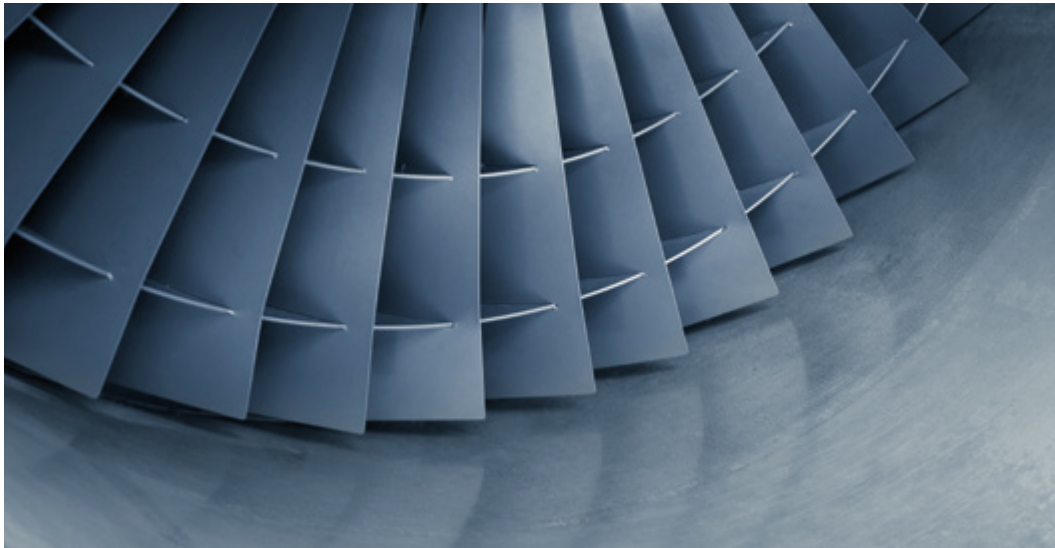


\ WE ARE EDM



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. 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 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 offer the highest level of productivity, quality, and results, as we are confident in our Technology.

\ 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.

HIGHLIGHTS WIRE (AV)

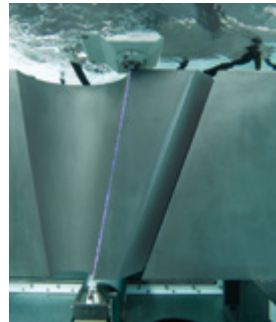
PREMIUM WIRE EDM WITH
EXTREMELY SIMPLE AND USER-
FRIENDLY OPERATION

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

TECHNOLOGICAL ADVANTAGES:



EXCEPTIONAL FINISHING
New generator that makes it possible to achieve finishes in the order of 0.1 µm Ra. Surface integrity 100% preserved.



HIGHLY RIGID MECHANICAL STRUCTURE
Constructed of stabilized fine grained cast iron blended with graphite, fixed bedframe machine, that allows work pieces up to 10.000 kg.



UP TO 8 AXES SIMULTANEOUSLY
The AV models incorporate a cutting-edge CNC capable of controlling 8 axes, 7 of them simultaneously, enabling the machine to include two rotating axes entirely controlled by the CNC with a total CAD/CAM integration.



ECOLOGICAL FILTER
As an option the 100% ecological filtration system can be installed in the AV Series machines. With a 3 µm filtering quality and without replaceable cartridges.

ONA AV STANDARD

A PERFECT COMBINATION OF
ROBUSTNESS, SPEED AND PRECISION



TECHNOLOGICAL TABLES:
Singlecut precision cutting and ecocutting technologies that reduce consumption of wire. Automatic system for precision conical-cutting with high-precision cutting.



USERFRIENDLY INTERFACE

Extremely simple and userfriendly user interface with a 23-inch touchscreen. CNC with programming scripts, which enables the user to create customised measurement and execution cycles.

ONA AV MODULAR

UP TO 30 MODELS OF LARGE-SCALE
WIRE EDM MACHINES



UNPRECEDENTED FLEXIBILITY
Manifold combinations of X-Y-Z travels. Up to 800 mm in the Z axes maintaining the accuracy thanks to the highly rigid mechanical structure.



GREAT VERSATILITY
Huge versatility offered by this new family of machines for a large variety of tasks, as they are designed to operate with any type of wire; from 0.07 mm to 0.33 mm diameter.

\ ONA AV STANDARD
ONA AV25

EXCEPTIONAL
PRECISION



ONA AV25	
Travel of X axis	400 mm
Travel of Y axis	300 mm
Travel of Z axis	250 mm
Maximum workpiece dimensions (Length x Width x Height)	700 x 650 x 250 mm
Travel of the U/V axes	120 x 120 mm
Maximum angle of conical cut (optionally ±45°)	± 30° / 87 mm
Wire diameter	0.07 – 0.33 mm
Maximum cutting speed	450 mm²/min - Ø 0.33 mm (Xcc wire)
Minimum roughness	0.1 µm Ra

\ ONA AV STANDARD
ONA AV35

EXCELLENT
SURFACE QUALITY



ONA AV35	
Travel of X axis	600 mm
Travel of Y axis	400 mm
Travel of Z axis	400 mm
Maximum workpiece dimensions (Length x Width x Height)	1060 x 750 x 400 mm
Travel of the U/V axes	120 x 120 mm
Maximum angle of conical cut (optionally ±45°)	± 30° / 87 mm
Wire diameter	0.07 – 0.33 mm
Maximum cutting speed	450 mm²/min - Ø 0.33 mm (Xcc wire)
Minimum roughness	0.1 µm Ra

\ ONA AV MODULAR
ONA AV60

MAXIMUM
PRODUCTIVITY



ONA AV60	
Travel of X axis	800 mm
Travel of Y axis	600 mm
Travel of Z axis	500 / 600 / 700 / 800 mm
Maximum workpiece dimensions (Length x Width x Height)*	1300 x 1040 x 500 mm
Maximum workpiece weight	5000 Kg
Travel of the U/V axes	500 x 500 mm
Maximum angle of conical cut	± 30° / 400 mm
Wire diameter	0.20 - 0.33 mm
Maximum cutting speed	450 mm²/min - Ø 0.33 mm (Xcc wire)

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

\ ONA AV MODULAR
ONA AV80

100% ECOLOGICAL
FILTER



ONA AV80	
Travel of X axis	1000 mm
Travel of Y axis	600 / 800 / 1000 mm
Travel of Z axis	500 / 600 / 700 / 800 mm
Maximum workpiece dimensions (Length x Width x Height)*	1500 x 1040 x 500 mm
Maximum workpiece weight	5000 Kg
Travel of the U/V axes	500 x 500 mm
Maximum angle of conical cut	± 30° / 400 mm
Wire diameter	0.20 - 0.30 mm
Maximum cutting speed	360 mm²/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 AV MODULAR
ONA AV100

LARGE MACHINING
CAPACITY



ONA AV100	
Travel of X axis	1500 mm
Travel of Y axis	1000 / 1300 mm
Travel of Z axis	600 / 700 / 800 mm
Maximum workpiece dimensions (Length x Width x Height)*	1950 x 1600 x 600 mm
Maximum workpiece weight	10000 Kg
Travel of the U/V axes	500 x 500 mm
Maximum angle of conical cut	± 30° / 400 mm
Wire diameter	0.20 - 0.30 mm
Maximum cutting speed	360 mm²/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.

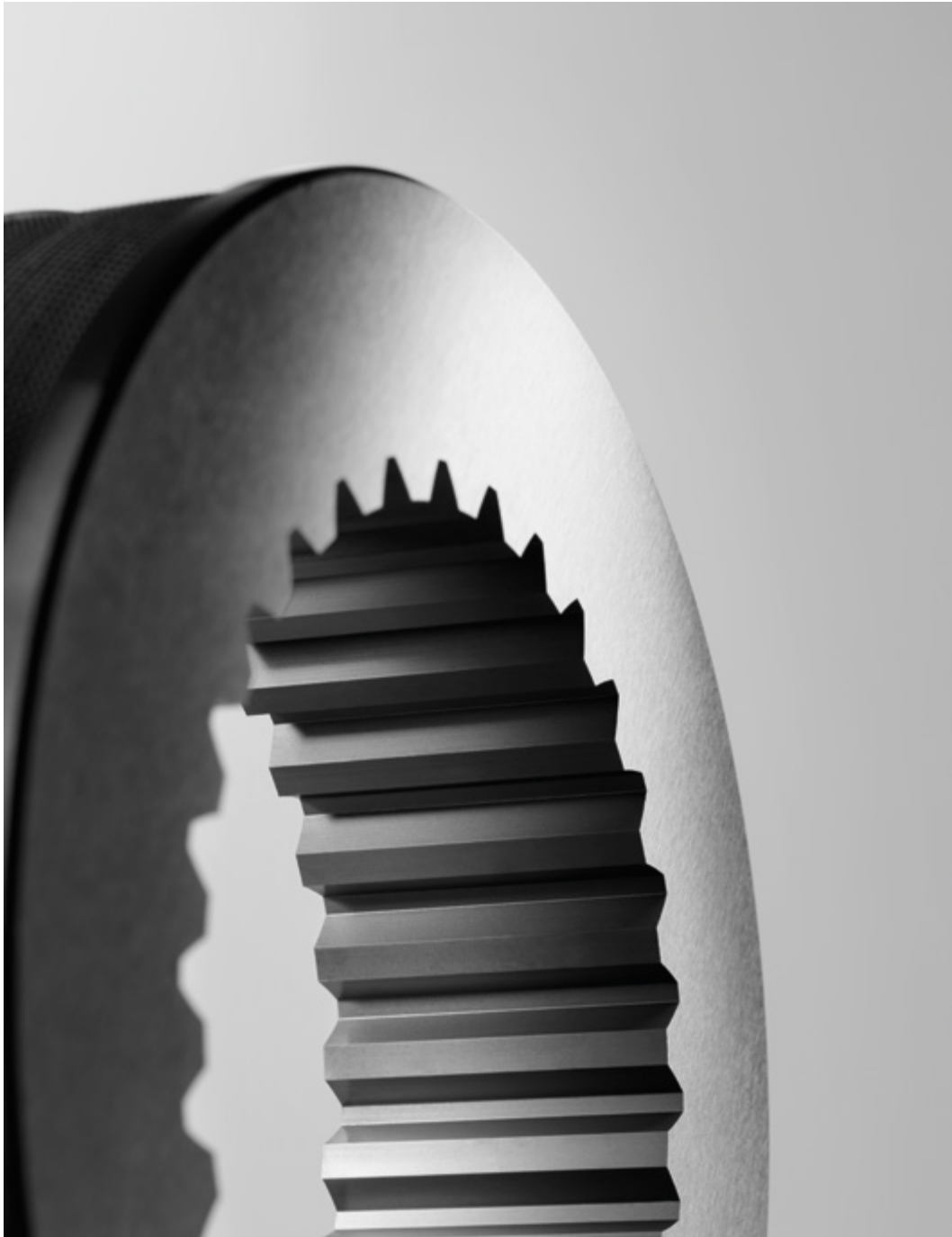
\ ONA AV MODULAR
ONA AV130

GREAT AUTONOMY
AND VERSATILITY



ONA AV130	
Travel of X axis	2000 mm
Travel of Y axis	1000 / 1300 mm
Travel of Z axis	600 / 700 / 800 mm
Maximum workpiece dimensions (Length x Width x Height)*	2500 x 1600 x 600 mm
Maximum workpiece weight	10000 Kg
Travel of the U/V axes	500 x 500 mm
Maximum angle of conical cut	± 30° / 400 mm
Wire diameter	0.20 - 0.30 mm
Maximum cutting speed	360 mm²/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.



>>

Cutting of a pattern for high precision gears (max. error: DIN 3962 Grade 3) in an **AF25 ONA** machine.

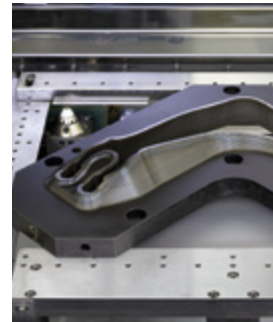
\ ONA AF STANDARD

MORE PRECISE AND AUTOMATED SOLUTIONS

The STANDARD **ONA AF** machines are noted for their high cutting speed and low maintenance costs, thanks to the AquaPrima ecological filtration system patented by **ONA**.

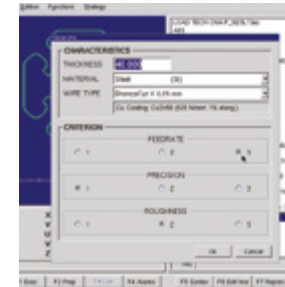
The entire **ONA AF** range has been created under the premises of productivity, quality, simplicity and automation, resulting in machines that combine the robustness, speed and precision that our customers are looking for in wire EDM.

TECHNOLOGICAL ADVANTAGES:



MÁXIMUM PRODUCTIVITY

The ONA AF machines are noted for the high cutting speed (450 mm2/minute with wire of 0.33 mm diameter) and low maintenance costs, thanks to the ecological filtration system, ONA AquaPrima, which does not require replaceable cartridges.



AUTOMATIC GENERATION PROGRAMS

Technological tables for highprecision cutting. Expert system for wire-cut electro-erosion. Easycut digital generator which ensures maximum productivity and excellent quality.



SURFACE INTEGRITY 100% PRESERVED.

The ONA AF series includes the ONA Easycut generator, which provides a cut that is 100% free from electrolyte corrosion, without affecting the speed, and while preserving the surface integrity of the material being cut (best surface finish: 0.2 µm Ra – 6 VDI).



6 AXES CONTROLLED BY THE CNC.

The AF models incorporate the latest generation CNC, ONA-W64, able to control 6 axes, 5 of them (B, X, Y, U, V) at the same time, enabling the machine to incorporate a rotation axis which is totally controlled by the CNC.

\ ONA AF STANDARD
ONA AF25

CERTIFIED
PRECISION



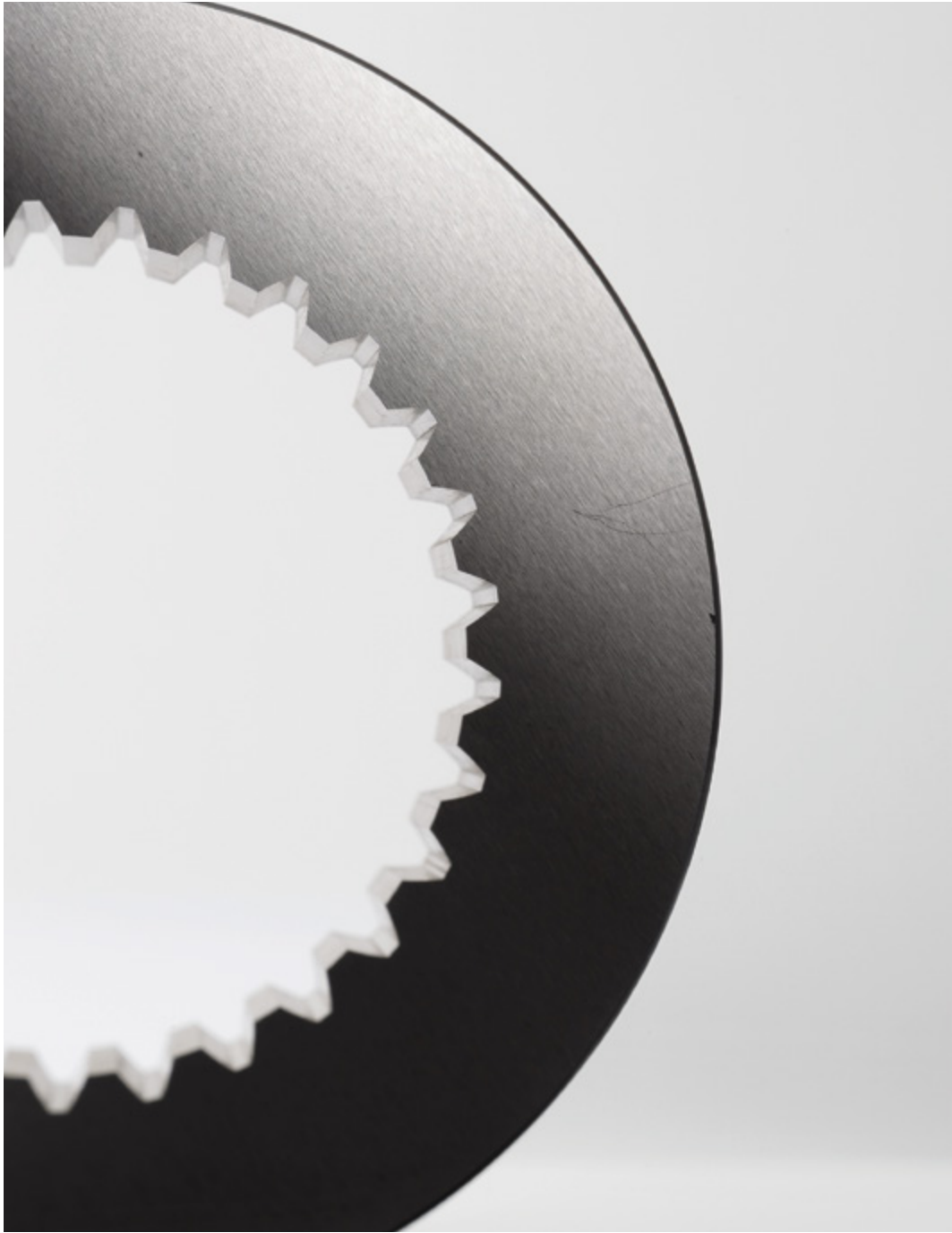
ONA AF25	
Travel of X axis	400 mm
Travel of Y axis	300 mm
Travel of Z axis	250 mm
Maximum workpiece dimensions (Length x Width x Height)	700 x 650 x 250 mm
Travel of the U/V axes	120 x 120 mm
Maximum angle of conical cut	± 30° / 87 mm
Wire diameter	0.10 - 0.33 mm
Maximum cutting speed	450 mm²/min - Ø 0.33 mm (wire Xcc)
Minimum roughness	0,2 µm Ra

\ ONA AF STANDARD
ONA AF35

COLLISION
PROOF



ONA AF35	
Travel of X axis	600 mm
Travel of Y axis	400 mm
Travel of Z axis	400 mm
Maximum workpiece dimensions (Length x Width x Height)	1060 x 750 x 400 mm
Travel of the U/V axes	120 x 120 mm
Maximum angle of conical cut	± 30° / 87 mm
Wire diameter	0.10 - 0.33 mm
Maximum cutting speed	450 mm²/min - Ø 0.33 mm (wire Xcc)
Minimum roughness	0.2 µm Ra



>>
Cutting of a pattern for high precision gears (max. error: DIN 3962 Grade 3). First hole made with a DR2 drilling machine.

\ ONA DR HOLE DRILLING EDM MACHINE

FAST, DURABLE AND PRODUCTIVE

An essential complement to any wire cut EDM machine, the high-speed EDM drill makes it easy to drill start holes for a range of applications. Electrodes as small as 0.3 mm can be used on this CNC controlled high-speed vertical drill.

CHARACTERISTICS:

- > Ecologic: Works with normal water.
- > The data input on the operator console is quick and simple.
- > Drilling: with electrodes of 0,2 up to 3 mm at high speed.
- > It is possible to drill: hardened steel, self-hardening steel, stainless steel, carbides, copper, aluminum.
- > CT "compact tools" fixing system.
- > Single and multi-channel.
- > New electrode guides: higher precision, long duration, increased productivity.
- > Guide made of hard metal.

\ ONA DR
ONA DR1
INTEGRATED CNC



ONA DR1	
X-Y-Z axes travel	300 x 200 x 300
Extended travel length of the Z axis	100 mm
Machine dimensions (Length x Width x Height)	1325 x 1065 x 1765
Worktable dimensions	400 x 320
Allowable weight on table	100 kg
Generator intensity	30 A
Voltage levels	9
Electrode diameter	0.3 – 3 mm
Water tank capacity	13 l

\ ONA DR
ONA DR2\DR4
HIGHER PRECISION
DRILLING MACHINE



	ONA DR2	ONA DR4
X-Y-Z axes travel	350 x 250 x 380 mm	500x400x380mm
Extended travel length of the Z axis	300 mm	300 mm
Machine dimensions (Length x Width x Height)	1000 x 750 x 2000 mm	1200 x 900 x 2100 mm
Worktable dimensions	550 x 360 mm	700 x 400mm
Allowable weight on table	350 kg	500kg
Generator intensity	30 A	30 A
Voltage levels	9	9
Electrode diameter	0.3 – 3 mm	0.3– 3 mm
Water tank capacity	25 l	25 l

HIGHLIGHTS DIE SINKING QX

HIGH SPEED DIE SINKING EDM,
HIGH PRECISION AND EASY
AUTOMATION.

The **ONAM QX** range, based on industrial
eco-design, has been created to increase
the simplicity and efficacy of its operation.
It incorporates the most advanced CNC
technology with Windows-type interface

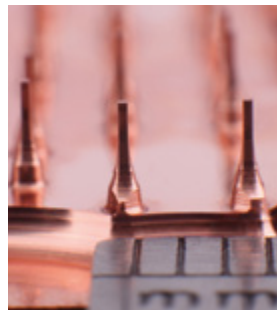
that offers the operators significant
improvements regarding ease of use and a
higher level of automation. As an example of
its excellent ergonomics, worth noting is its
mobile console included by the CNC.

TECHNOLOGICAL ADVANTAGES:



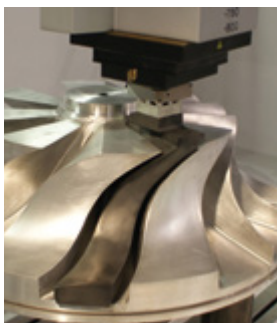
100% DIGITAL GENERATOR

The generator of the
QX machines allows
an improvement in the
performance of the
machine in fine finishing
processes which makes it
possible to achieve a final
minimum roughness in the
order of 0.08 µm Ra.



MINIMUM WEAR

New possibilities
in the finishing of
microcomponents,
enabling the production
of corners with minimum
internal radii of only 5
microns.



3D WITHOUT LIMITATIONS

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 is made of
stabilised grey cast iron,
allowing the loading of
workpieces weighing up to
25 tonnes.



EASY AUTOMATION

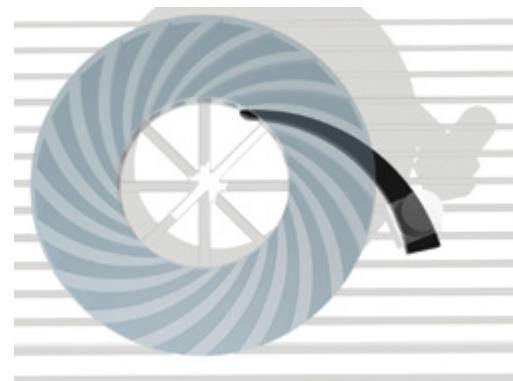
Easy integration of robots,
workpiece changers and
electrodes. Simple and
effective automation.
Rotating electrode
changer for 20 or 40
electrodes.

ONAM QX STANDARD

HIGHLY RIGID MECHANICAL
STRUCTURE FOR EXTREME
PRECISION

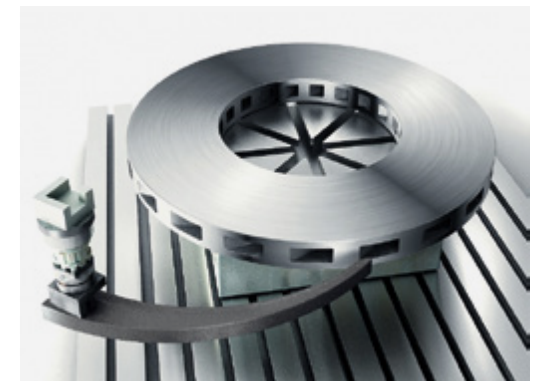
The **ONAM QX** STANDARD family of machines
incorporates a new digital generator
for greater efficiency which brings a
great improvement in productivity, while
significantly reducing the wear of the
electrodes.

Compared to conventional machines, the
improvement in productivity of the **ONAM 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%.



SYNCHRONISED INTERPOLATION IN C AXIS

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



EROSION STABILITY WITH C AXIS

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

\ ONA QX STANDARD
ONA QX3

UNBEATABLE
MACHINING
EFFICIENCY



ONA QX3	
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)	910 x 610 x 350mm
Worktable	600 x 500 mm
Admissible weight on the table	750 Kg
Type of work tank	Rise and fall tank
Maximum weight of the electrode	100 Kg
Minimum roughness	0.08 µm Ra
Intensity of the generator	100 A

\ ONA QX STANDARD
ONA QX4

NEW
DIGITAL
GENERATOR



ONA QX4	
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)	1070 x 770 x 450 mm
Worktable	800 x 600 mm
Admissible weight on the table	1500 Kg
Type of work tank	Rise and fall tank
Maximum weight of the electrode	200 Kg
Minimum roughness	0.08 µm Ra
Intensity of the generator	100 A

\ ONA QX STANDARD
ONA QX6
GREAT AUTONOMY
AND VERSATILITY



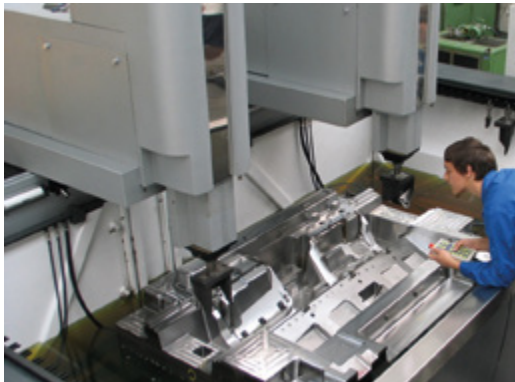
ONA QX6	
Travel of X axis	1000 mm
Travel of Y axis	600 mm
Travel of the electrode holder	500 mm
Maximum distance between head and table	760 mm
Internal dimensions of the tank (Length x Width x Height)	1700 x 1000 x 600 mm
Worktable	1200 x 800 mm
Admissible weight on the table	4000 Kg
Type of work tank	Drop door
Maximum weight of the electrode	200 Kg
Minimum roughness	0.08 µm Ra
Intensity of the generator	100 / 200 A

\ **ONA QX**
MODULAR

UP TO 40 MODELS OF LARGE-SCALE
MODULAR MACHINES

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

The generation of **ONA QX** 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.



EXTENSIVE TRAVEL AND HIGH LOAD CAPACITY
This new series utilizes pre-built axes modules to drastically reduce machine assembly time. Highly rigid mechanical structure constructed of stabilized fine grained cast iron blended with graphite. Fixed bedframe machine that allows work pieces up to 25.000 kg.



DOUBLE HEAD OPTION
One or two heads commanded by two independent CNC generators. This allows the possibility of eroding two cavities simultaneously and independently in a big workpiece.

\ ONA QX MODULAR
ONA QX7

FLEXIBILITY
OF HEADS



ONA QX7

Total travel of the X axis (individual TQX)	1500 mm (830 mm)
Travel of Y axis	750 mm
Travel of the electrode holder	650 mm
Maximum distance between head and table	970 mm
Internal dimensions of the tank (Length x Width x Height)*	2300 x 1500 x 1000 mm
Worktable	1700 x 1000 mm
Admissible weight on the table	15000 Kg
Maximum weight of the electrode	200 Kg
Intensity of the generator	100 / 200 / 400 A

\ ONA QX MODULAR
ONA TQX7



ONA TQX7

Total travel of the X axis (individual TQX)	1500 mm (830 mm)
Travel of Y axis	1000 mm
Travel of the electrode holder	800 mm
Maximum distance between head and table	1170 mm
Internal dimensions of the tank (Length x Width x Height)*	2300 x 1500 x 1000 mm
Worktable	1700 x 1000 mm
Admissible weight on the table	15000 Kg
Maximum weight of the electrode	200 Kg
Intensity of the generator	100 / 200 / 400 A

\ ONA QX MODULAR
ONA QX8

3D SET UP:
EFFECTIVE
SET UP



ONA QX8

Total travel of the X axis (individual TQX)	2000 mm (1200 mm)
Travel of Y axis	750 mm
Travel of the electrode holder	650 mm
Maximum distance between head and table	970 mm
Internal dimensions of the tank (Length x Width x Height)*	2800 x 1500 x 1000 mm
Worktable	2200 x 1000 mm
Admissible weight on the table	20000 Kg
Maximum weight of the electrode	200 Kg
Intensity of the generator	100 / 200 / 400 A

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

\ ONA QX MODULAR
ONA TQX8



ONA TQX8

Total travel of the X axis (individual TQX)	2000 mm (1200 mm)
Travel of Y axis	1000 mm
Travel of the electrode holder	800 mm
Maximum distance between head and table	1170 mm
Internal dimensions of the tank (Length x Width x Height)*	2800 x 1500 x 1000 mm
Worktable	2200 x 1000 mm
Admissible weight on the table	20000 Kg
Maximum weight of the electrode	200 Kg
Intensity of the generator	100 / 200 / 400 A

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

\ ONA QX MODULAR
ONA QX10

REINFORCED
C AXIS



ONA QX10	
Total travel of the X axis (individual TQX)	3000 mm (2000 mm)
Travel of Y axis	1000 mm
Travel of the electrode holder	800 mm
Maximum distance between head and table	1170 mm
Internal dimensions of the tank (Length x Width x Height)*	4000 x 2000 x 1250 mm
Worktable	3200 x 1600 mm
Admissible weight on the table	25000 Kg
Maximum weight of the electrode	200 Kg
Intensity of the generator	100 / 200 / 400 A

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

\ ONA QX MODULAR
ONA TQX10



ONA TQX10	
Total travel of the X axis (individual TQX)	3000 mm (2000 mm)
Travel of Y axis	1500 mm
Travel of the electrode holder	1000 mm
Maximum distance between head and table	1470 mm
Internal dimensions of the tank (Length x Width x Height)*	4000 x 2000 x 1250 mm
Worktable	3200 x 1600 mm
Admissible weight on the table	25000 Kg
Maximum weight of the electrode	200 Kg
Intensity of the generator	100 / 200 / 400 A

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



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

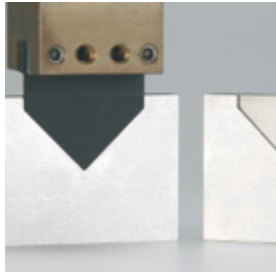
\ ONA NX STANDARD

HIGHLY RIGID MECHANICAL
STRUCTURE FOR EXTREME PRECISION

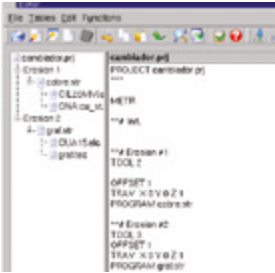
The **ONA NX** STANDARD generation of machines feature high rigidity and precision. This has been possible thanks to the use of the most modern design and analysis methods in their development, as well as the use in their construction of the most modern machining and assembly techniques.

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.

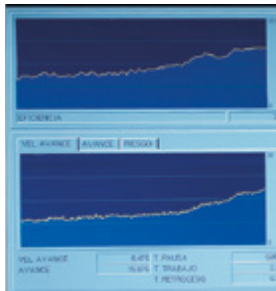
TECHNOLOGICAL ADVANTAGES:



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



CNC WITH EXPERT EROSION SYSTEM
Project Generator Wizard (strategy and electrode manager) and Strategy Generator Wizard (automatic program generation assistant). BES (Burning Expert System) Expert Erosion System that guarantees 100% performance in highly difficult jobs.



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



6 AXES CONTROLLED BY THE CNC
6 axes simultaneously controlled by the CNC (X, Y, Z, C, A, B). The CNC ONA-S64 incorporates the function A-SPACE (axis for erosion in SPACE). With this function, any programmable CNC erosion function (spheres, taper machining, orbital machining, vectors, etc.) can be carried out in any spatial direction.

\ ONA NX STANDARD
ONA NX3F

EXCELLENT
GENERATOR



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	450 mm
Internal dimensions of the tank (Length x Width x Height)	800 x 500 x 380 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 NX STANDARD
ONA NX4F

GUARANTEED
LONG-LASTING
PRECISION



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	570 mm
Internal dimensions of the tank (Length x Width x Height)	1125 x 765 x 440 mm
Worktable	800 x 600 mm
Admissible weight on the table	1500 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

\ MICROHOLE & FASTHOLE EDM

SIMPLE, EASY TO USE MACHINES WITH LOW MAINTENANCE COSTS.

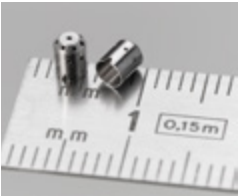
Specialized in precision EDM for production of parts requiring precisely placed small holes with repeatable flow characteristics, the ONA MF5 micro hole machine features intuitive operation, easy setup and maintenance and solid construction for long life.

We supply to a wide range of industries, from aerospace and automotive to power generation and medical. The result is the fast and accurate production of parts on a versatile, reliable, easy to operate and long-lived machine.

TECHNOLOGICAL ADVANTAGES:



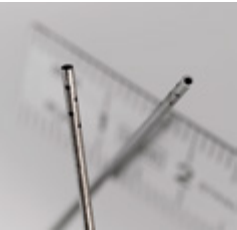
ALL RANGE OF MATERIALS
Our machines drill holes in a range of materials, including aluminum, carbides, inconel, steel and stainless steel using oil and water dielectrics.



AEROSPACE COMPONENTS
The fasthole head is designed for production of holes and/or slots in large aerospace components. The machine can handle the complex geometry found in aircraft combustion liners, industrial turbine blades, nozzle guide vanes and heat shield segments as well as other parts requiring precisely placed holes with repeatable flow characteristics.



OPTIONAL AUTOMATION
Many parts such as gasoline injector plates are fed from a small vibratory feeder bowl or are loaded and unloaded into tubes or cassettes for up to eight hours of continuous unattended operation. Optional automation equipment designed for volume production of diesel fuel injectors, fuel metering components and other parts requiring precisely placed small holes with repeatable flow characteristics is available.



MODULAR CONSTRUCTION
Machines feature modular construction with a distributed architecture and fiber optic networking for better reliability and ease of maintenance with minimal footprint.



\ ONA MF MICROHOLE ONA MF5

DESIGNED FOR PRODUCTION OF DIESEL FUEL INJECTORS



ONA MF5

Travel of X axis	150mm
Travel of Y axis	150mm
Travel of Z axis	150mm
Travel of W axis	25mm
Axis Head Tilt	110°
C Axis Rotary Table	360°
Machine Height	1864mm
Machine Weight	363kg
Electro Diameter	100-400 µm
Electrode Material	Any
Dielectric Fluid	Water
Power Requirement	1.5 KVA
Power Supply	ONA MF5 Microhole Generator

A high-contrast, black and white close-up photograph of a mechanical component, likely a bearing or a part of a machine. The image shows curved, polished metal surfaces with sharp edges and a central hub-like structure. Two thin red lines are drawn on the image, one pointing to the top edge and another pointing to a lower edge, framing the central text.

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