







\ ONA - WE ARE EDM. Knowledge and experience at the client's service.

06

20

22

28

04

\ INSPIRED BY TECHNOLOGY.

High technology with the greatest precision.

MULTIPLE SOLUTIONS FOR DIFFERENT IDEAS.

Unprecedented flexibility.

\ ECO DESIGN.

Resource optimisation to raise productivity.

ONA SMART SERVICE.

Much more than the best service.

TECHNICAL SPECIFICATIONS.

Product datasheet in mm. Product datasheet in inches.

Changing times for EDM.

ONA

ONA EDM

We and our products are represented by eco philosophy as a way of being; this is the future.

Eco technology, used in our product design processes, combine power and precision, with special attention paid to every detail, and at no time affecting efficiency in performance and consumption.

A new generation of top-of-the-range machines with revolutionary and intuitive control including a touch screen, to make our clients' lives easier.

A new concept for new needs. Welcome to the future.

ONA - WE ARE EDM

Knowledge and experience at the client's service.

At ONA, we are pioneers in EDM technology. Throughout our over 65 years of experience we have always been closely linked to this technology which has made us the world's most specialized manufacturer.

With ONA, the client is guaranteed a highly qualified team of experts in the manufacture of EDM machines and precision assemblies. We are characterised by our proximity and accessibility, which is why we are present all over the world with a wide range of distributors. At our main production centre, with 11,000 m2, we design and create customised solutions for each client; we own a major infrastructure designed to provide efficient support for our clients and to cater for each individual

Over 65 years of experience.

15.000 machines installed in more than 60 countries

98% overall effectiveness of the equipment.

Machines 100% manufactured in Europe

\ EUROPEAN TECHNOLOGY, GUARANTEEING \ INNOVATION AT THE SERVICE OF MAXIMUM RELIABILITY.

Our machines are 100% manufactured in Europe using top-of-the-range components. We are leaders in technology and provide the best performance with maximum



\ CLIENT-ORIENTED CUSTOMISED SOLUTIONS.

Not only are we experts, we are also flexible. Our aim is to guarantee our clients' competitiveness, by creating longterm alliances, providing advisory services throughout the entire process in order to ensure the optimum performance of each machine installed. Each project is unique, and we are totally committed to the end result. We are world leaders in the manufacture of EDM machines for large pieces and we excel in special solutions. Each client has their own objectives and, at ONA, they will find the partner to help fulfil them.

PROFITABILITY.

In our R&D center, we work on a daily basis to develop the technology necessary for increasing the profitability of our clients' projects. We collaborate with a range of technology research centres (ILT-Frauhofer and WZL-Aachen, in Germany, and Tekniker, Tecnalia, Ideko and the University College of Industrial Engineers of Bilbao, in Spain, among others) and we participate in European research and development projects, constantly seeking improvements to apply to the solutions required by each client. We innovate to create more productive, reliable and robust machines.

\ GUARANTEE AND SUSTAINABILITY.

We are committed to the environment. We do day-to-day research on new cleaner production processes which are respectful of people and their environment. All our machines are designed from the industrial eco-design point of view, with an aim to optimising performance and energy efficiency. Our clients place our general efficiency rating at 98%, one of the highest in the market. The machines manufactured in ONA's production centre are certified to ISO 9001 and ISO 14001 in accordance with EC electromagnetic safety and compatibility standards.



INSPIRED BY TECHNOLOGY

High technology with the greatest precision.

The AV range wire machines combine cutting-edge technology within the EDM sector with great robustness in their mechanics and design. Their great precision and capacity to obtain excellent surface finishes make these machines the perfect solution. They include an advanced numerical control with an intuitive interface designed to simplify production processes, thus guaranteeing maximum productivity. Their new generator ensures low roughness surface finishes even in the most complicated materials, and guarantee maximum productivity with full traceability.

The most advanced technology with more intuitive control.

\ INNOVATION AND SIMPLICITY WITH THE BEST NUMERICAL CONTROL.

We have taken the final step for optimising EDM work processes, making them simpler and more intuitive. The new machines in the AV wire cutting range have a very powerful numerical control whose main advantage is its easy operation. All users can obtain excellent results thus improving performance and optimising times. Yet another example of innovative development aimed at designing increasingly perfect machines adapted to the demands of the current

The new numerical control, designed on the concept of



\ ONA EDM

ONA







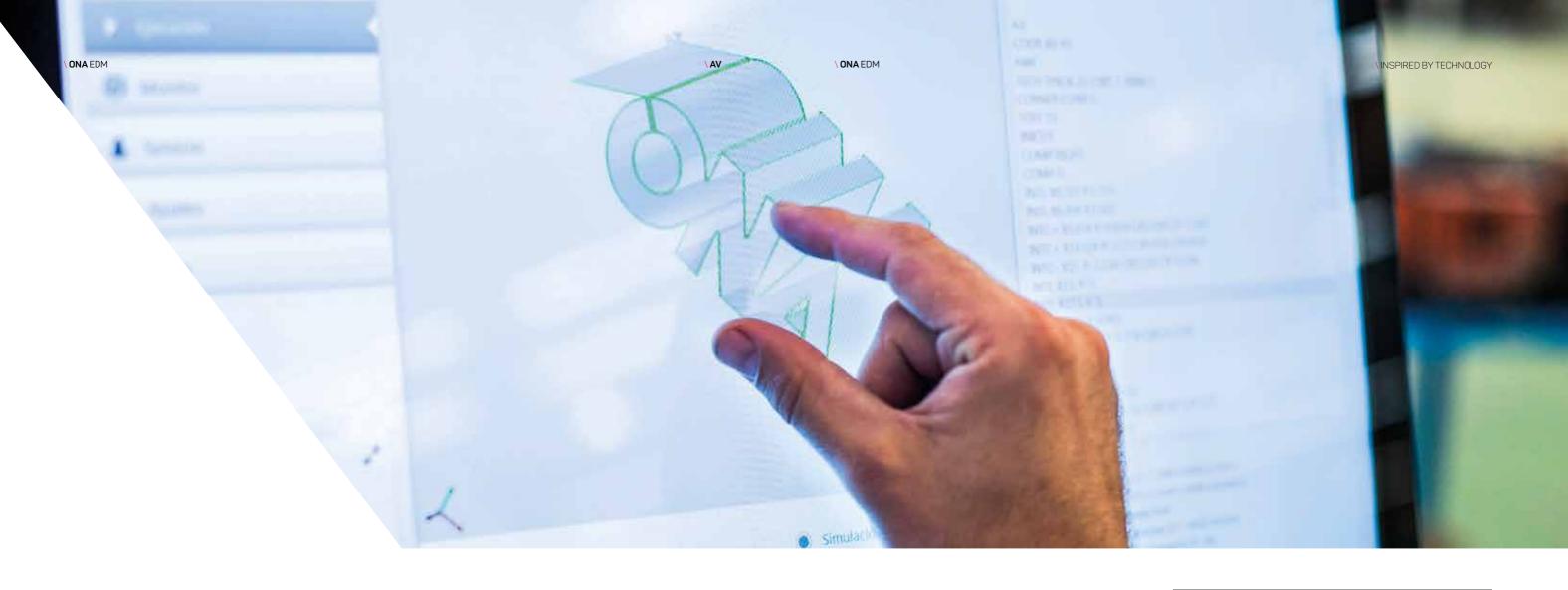


Intuitive and visuallyfriendly menus.

Applications represented by icons.

Real-time information. greatercontrol oftheprocess.

It includes the maximum number of functions with an aim to optimising the production cycles and reducing programming and set-up times. By simplifying each EDM job, we get greater capacity for improvement and enhance the performance of each piece of equipment.



\ PERFECT RESULTS. CNC-CAM WITH 3D GRAPHIC ENVIRONMENT.

The AV machines include very simple programming thus reducing possible human error. Their technology was designed for all kind of users, and achieves top quality results without the need of being experts, and necessary work near the machine itself is reduced. With an aim to increasing performance, we have optimised processes and times, thus guaranteeing a perfect result from the start. Technology aimed at achieving maximum automation, with centralised control software and integration with CAD/CAM for the automatic generation of programs.



Maximum

automation.





Centralis control software.

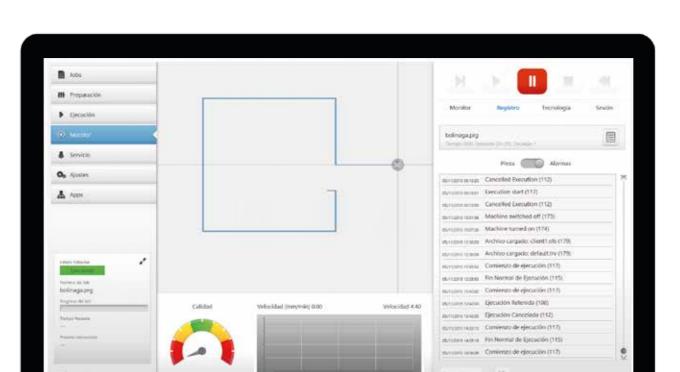
ted Integration with CAD/
. CAM for the automatic generation of programs.

CAD

The new interface displays the workpiece in 3D and allows the operator to rotate and move it according to their requirements with a simple tap on the screen thanks to its tactile technology. This screen also displays the execution in real time of the wire cutting process on the workpiece, and provides information on the location of the wire and the completion time for each piece.

\TASK PLANNING.

The optimisation of work times is another of the main functions of the AV machines. The system allows you to view the list of jobs (JOBs list). Each user can order their tasks according to their priority. In addition, they can bring jobs forward, thus ensuring the greatest autonomy possible to each machine.



ONA SCRIPT PROGRAMMING.

For the very demanding, customised setup cycles can be created, actions conditioned to a series of premises can be carried out, programming with variables is possible and personalised dialog boxes can be generated, etc. In addition, as it includes *in-process measurement*, thanks to auxiliary elements, it can optimise the workpiece measurement process without the need to remove them from the machine, as it has the autonomy to take decisions depending on the result.

\ GREATER CONTROL, RAPIDITY AND EFFICIENCY. UP TO 8 AXES.

AV wire cutting machines have a very powerful control with up to 8 interpolable axes working simultaneously. They are quicker and more efficient and can self-adjust in order to always obtain the best possible performance with minimum operating costs.

Their high resolution ensures excellent finishes with perfect precision due to the precise control of the positioning of the machine at every moment. Its interface allows a display resolution of up to 0.0001 mm.

\ MAXIMUM COMPATIBILITY WITH FUTURE NEEDS.

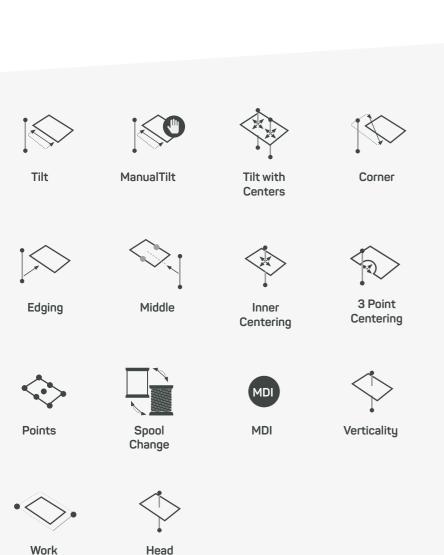
AV machines are designed to adapt to possible future requirements. They include proven and highly reliable architecture which is compatible with the installation of any software responding to future demands relating to measurement, display systems of the erosion process, etc. We are therefore in the position to offer our clients a guarantee for the future with more flexible machines with a great capacity to update.

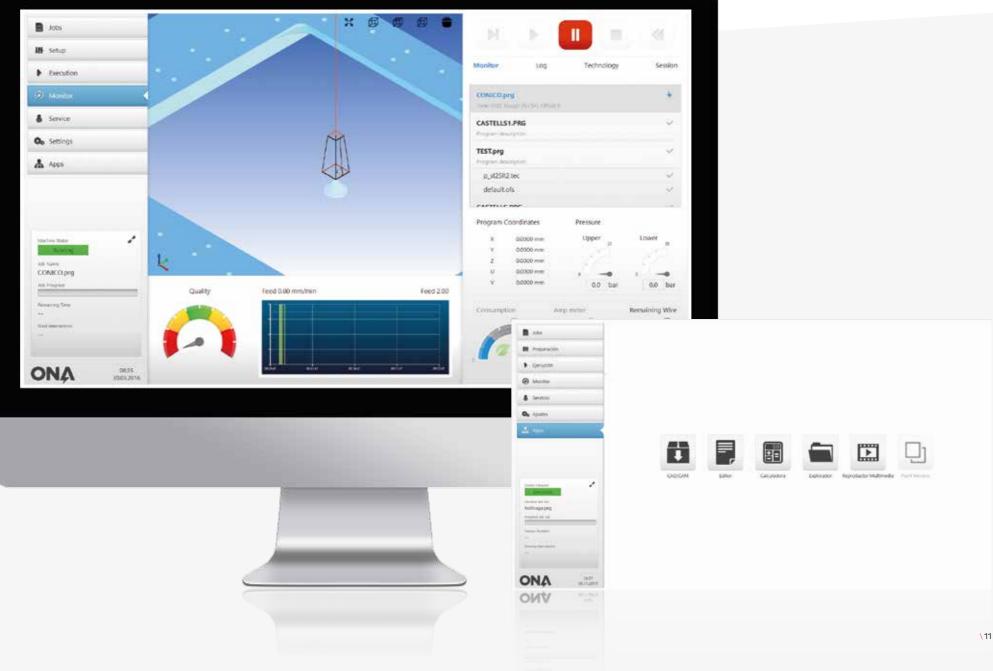
\ DOCUMENT MANIPULATION.

The control includes direct accesses to the different programs in order to easily run them. Everything is digitalised. All the flow of information relating to the machining of workpieces is stored digitally, thus avoiding the loss of data and errors.

\VOLUMETRIC COMPENSATION.

Much more precise than linear compensation, it guarantees maximum precision and delivers excellent quality finishes. Thanks to the measuring of the mechanics of the axes, the program is capable of automatically compensating any deviation.





Агеа

Adjust

\ ONA EDM \ ONA EDM \ \ NSPIRED BY TECHNOLOGY

Digital generator.

The AV range machines have a digital generator which optimises speed and precision by up to 50%, thus enhancing their performance.

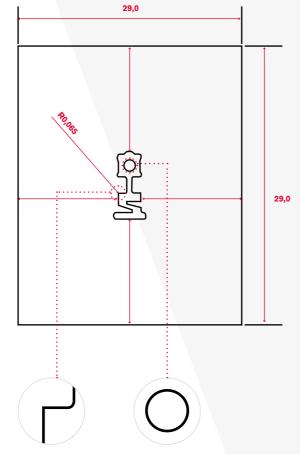


\ GREAT PRECISION IN THE CUTTING PROFILE.

As it can select the discharges, the new digital generator allows you to select only those with the best quality. The discharges are monitored to obtain statistics in order to evaluate the status of the process. This means that it is an intelligent generator that adjusts automatically.

All the technological improvements in the process implied by the new generator mean you can work with high voltages without breaking the wire, which improves verticality precision. The combination of the new generator with the automatic corrections of the new intelligent CNC prevents errors being made in relation to conicity or the appearance of curvatures in the central part of the workpiece.

The client can create pieces with very complex geometries with great speed and precision thanks to all these improvements which are standard in all ONA's AV range.



In addition, precision at the critical points of the workpiece (corners and circles) is increased thanks to new compensation algorithms and to the control of the lateral discharge during reruns. The new generator was designed to maintain precision at these points where change in direction is critical and the optimisation of braking ramps helps prevent losing time on the curves.

\GUARANTEED SURFACE INTEGRITY.

The control of each of the digital generator's discharges ensures the surface integrity of the workpieces even in the strictest conditions. The AV machines deliver perfect finishes without micro-crack, thus preventing the appearance of the recast layer (white layer). The material does not undergo any changes in properties and maintains its original hardness. The new generator significantly reduces brass waste even in roughing conditions.



\ LOW SURFACE ROUGHNESS AND PERFECT FINISHES.

The greatest accomplishment of the new generator is undoubtedly its capacity to deliver micro-fine surface roughness of 0.1 μ m Ra. We can achieve even better results if the conditions are right and with more complicated materials like steel.

The impeccable result of the finish is ensured by the fact that the table is insulated with ceramic materials and by the addition of a super-finish module. AV machines can guarantee this precision in processes at great speed due to the fewer reruns required.

\ GREATER SPEED, MAXIMUM PERFORMANCE.

The new generator enables cutting at high speeds and guarantees great efficiency of the machines. Savings of 30% are obtained in production time with excellent precision. In record time, with fewer reruns, finishes of 0.1 Ra are achieved, with a guaranteed reduction in the cost of each piece.



Savings of up to 30% in time with fewer reruns.

Our machines can work with all kinds of wires and cut all kinds of materials even those which are particularly complicated to erode, like Inconel, in the aeronautical sector, or tungsten carbide. Moreover, the new technology means that we can work with Moldmax.



Tungsten carbide



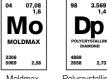
Ceramic Matrix Composites











Polycrystalline diamond

\12

Great robustness in mechanics and design.

\ TABLE FOR WORKPIECES OF UP TO 10 TONS.

The AV range enables working with large workpieces of up to 10 tons. The machine's fixed table ensures the automation of the process and the adaptation of each machine to the client's requirements, by helping to enhance the machine's accuracy.

\ FAIL-SAFE PRECISION OF POSITIONING.

Linear scales with direct measuring of positioning which guarantees precision throughout the machine's entire useful life. Direct measurement of position using linear scales with a resolution of 0.1 μm . We have designed an error detection process guaranteeing foolproof verification of positioning in real time, thus preventing precision errors. In addition, it removes the need for periodic maintenance and calibration operations.



\ HIGHLY RELIABLE ANTI-COLLISION SYSTEM.

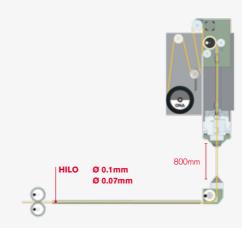
The machine has a quicker, more reliable anti-collision system, with the capacity to detect collision forces of just 0.8 kg (8 N), thus guaranteeing the perfect condition of the machine and preventing damage caused by human error. The machine always stops just in time, and prevents the workpiece from being damaged.

\SELF-CLEANING SEALING SYSTEM.

The machines have a sealing system ensuring the proper functioning of the machine while preventing leaks. This system includes a self-cleaning system which ensures continuous operation, without downtime, thus maximising performance.

\ THREADING WITH ALL KINDS OF WIRE.

The AV machines include a threader that is leader in the market due to its simple design and its minimum number of mobile parts. Its simplicity implies savings in replacement parts and helps in its maintenance. Yet another step towards increasing profitability and reducing costs while guaranteeing its reliability even with soft and coated wires.



\ GREAT AUTOMATION WITH COLLAPSIBLE DOOR.

The new Smart Design with collapsible door enhances automation and increases the machine's autonomy. Access to the table is quick and easy, and was designed to raise performance and help in positioning the workpiece.

We have improved the movement of the wire, without stress or vibrations, to make it uniform so as to reduce wire breakage. It allows threading in groove and submerged.



\ 3D SET-UP.

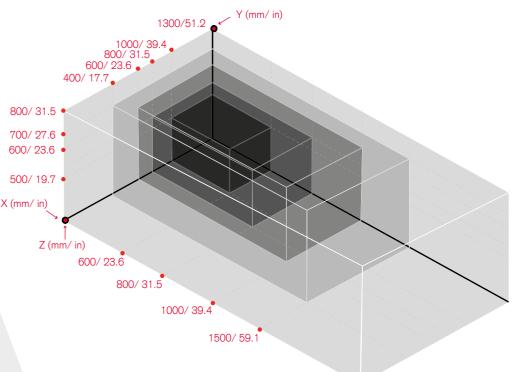
The alignment of the machine's axes with respect to those of the workpiece makes it easier to work on pieces in any direction and angle. The machine itself is in charge of setting the coordinates with respect to the workpiece, thus saving the user from having to do so manually, and optimising their work time.



MULTIPLE SOLUTIONS FOR DIFFERENT IDEAS

Unprecedented flexibility.





The data refer to the possible travel of the machine's axes.

2000/78.7



\ ALL KINDS OF CUSTOMISED PROJECTS FOR EACH CLIENT.

We analyse what the client needs and offer the perfect machine for them.

At ONA, we always adapt to the specific requirements of each client. We offer all kinds of solutions; from highly flexible, versatile machines for various types of applications to machines designed especially in accordance with a client's needs with an aim to optimising their work process so as to improve their business's profitability. These machines can be designed to work with large workpieces.

They are incredibly flexible and there are no limits to their adaptation to the client's specifications. We offer the possibility to increase the automation of processes, including any accessory whatsoever from third parties, like rotary tables, sensors, display systems, etc.

\ MORE AUTONOMOUS AND EFFICIENT MACHINES.

Maximum number of hours without downtime thanks to process automation.

At ONA, we offer an integral automation service to each client to improve their work processes, with the possibility of integrating machines in flexible manufacturing cells. We work together with each client throughout the entire process, and carry out customised monitoring of the working of each machine and adapt to what each user requests. We are flexible and analyse the type of workpiece of each client and study how to manufacture it in the most efficient way possible.

Our aim is to achieve maximum profitability by offering equipment with great autonomy. The 45-kg spool and min-

eral filter guarantee a significant reduction in manual tasks, and ensure that the machines work unattended for long periods of time, thus reducing human error. In addition, the machine's design facilitates access to the work area by robots, thanks to its collapsible door.

At ONA, we continue to advance towards monitoring and greater control of erosion with new services included in ONA Smart Connect, such as traceability.

\ EASY INTEGRATION OF TABLES AND ROTARY AXES.

Its robust mechanics and great control means it can work with up to 8 interpolable axes simultaneously, and can run applications requiring all kinds of rotary tables.



60µm





Resource optimisation to raise productivity.

One of our objectives is to optimise resources while looking after the environment. The whole range of AV machines was conceived from the point of view of industrial **Eco Design** with the clear goal to improve their performance by designing more efficient and user-friendly machines. Our Innovation and Development team has done research for many years on new, cleaner production processes which respect people and their natural environment. We include two concepts under the term ECO: **Economics and Ecology**; offering the most profitable and environment-friendly solutions in the EDM



Optional eco filter system.

There is nothing but advantages when using the environment-friendly filter with hardly any maintenance costs.

• 100% environment-friendly:

- without any waste, apart from that from the erosion process itself
- Lower maintenance costs.Suitable for all kinds of mate-
- rials.
- •Filtration quality of 3µm.
- Maximum productivity.



Long-lasting reliable machines.

The new generation of ONA AV machines maintains the traditional robustness and reliability that has always characterized ONA machines. Their robust design and the top quality of their manufacture guarantees a useful life of the machine of over 30 years. The quality of their assembly and materials make them "machines to last".



Smart Design: more compact and ergonomic.

Compact design. We focus on a compact design which helps reduce the carbon footprint from transport and packaging materials by 30%

Ergonomic design: A more ergonomic and functional design thanks to the new head. The opening system has been renewed, making it more convenient and improving access for tasks like the handling of the wire, thus saving on maintenance time and user time.

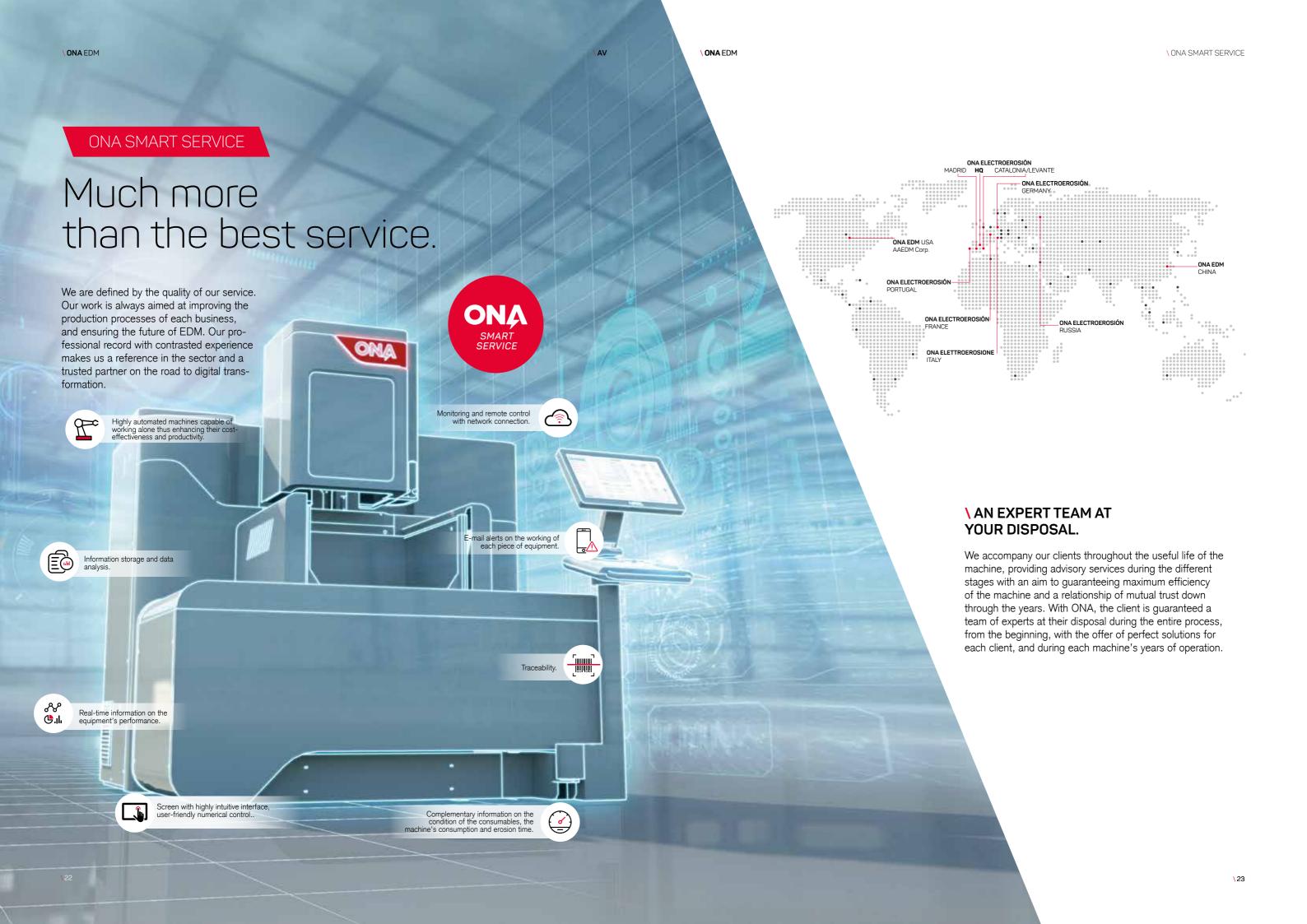


Maximum profitability.

The lowest operating cost in the market.

The AV range is the machine with the lowest operating cost on the market, guaranteeing unbeatable performance.

- •A more efficient, low-energy generator. It allows for higher productivity and great energy savings with a reduction in losses from cable length. Its maximum electricity consumption is less than 7kva at full capacity.
- Optimum consumption adaptation of pumps. Designed to consume only the required energy at all times.
- Reduction in outlay on consumables. Low-energy wire technology.



The AV range's connectivity.





Customised systems: Security Pack.

We design customised solutions for the client's specific needs, such as our Security Pack: A protection system to guarantee the security of the company's sensitive information. A system for creating an administrator, configuring different profiles, limiting deletion or modification of files as well

as external access blocking or recording the machine's Onhours and working hours. The most efficient way to protect our businesses by preventing data loss.

\ EXPERT ADVISORY SERVICES.

Greater efficiency of the machine.

From the very start of our relationship, we commit to the client to guarantee the success of the machine's installation process. Prior to the sale, our advisory team is in charge of finding the best option for each client. We analyse each client's needs, carry out a preliminary study and design a perfect customised solution for them. This preliminary analysis is essential in order to get to know each business, thus ensuring the greater productivity and enhanced efficiency of each machine.

Our goal is to guarantee that each machine is in the best working condition in the specific environment of each client.

\ CUSTOMISED DESIGN AND PROGRAMMING.

A competitive edge.

We accompany our clients throughout the entire deployment process. We carry out preliminary studies after which we can introduce improvements into the manufacturing process, thus optimising times and obtaining more precise finishes in workpieces. An integral customisation service adapted to each client for the purpose of improving their production processes and profitability. Within this philosophy of customisation and automation, we design customised machines, we work on projects to deliver turnkey solutions and we develop applications and software adapted to the needs of each client.



\ APPROVED CONSUMABLES.

ONA guarantee with each consumable.

We have always been in favour of using approved top-quality consumable products and original replacement parts. Their use guarantees optimum production and prolongs the useful life of each piece of equipment while optimising costs. In addition, it ensures maximum efficiency and the best results. Our catalogue has all the necessary consumables for the maintenance of the machine such as wires, filters, Ekoadd, resins, guideways, power taps, oils, blades and drilling electrodes.



\TRAINING.

Committed to the training of future experts in the sector.

We have developed a training programme, offering basic instruction and more advanced training, in order to bring EDM closer to each client and make the processes both

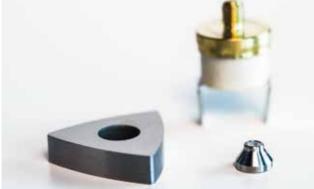
intuitive and simple. These training sessions can take place at ONA premises or at the client's own premises in other parts of the world.



\ ORIGINAL REPLACEMENT PARTS.

Immediate availability.

Our broad network of distributors around the world guarantee quick assistance in the face of any event. We can guarantee a stock of original parts in a period of 24 hours to almost anywhere in the world.



\TECHNOLOGICAL UPGRADING.

Technology always at the ready.

At ONA, we work to maintain our machines in optimum condition to ensure maximum efficiency and optimum working of each machine. We analyse each case and lay down measures for optimising processes: software updates, data analysis, improvements in applications, quick replacement of damaged parts. All of the aforesaid together with the ONA guarantee and our experience as the manufacturer with the longest history in EDM sector in the world.

\ PERFECT MAINTENANCE OF THE MACHINERY.

Immediate availability of original replacement parts.

One of our most significant competitive edges is our customised preventive maintenance service for each client. We can anticipate the next change in parts, improving remote assistance and guaranteeing optimum working of the machine, thus avoiding unnecessary downtime which has a negative impact on production. We offer:

- Call centre.
- On-site assistance.
- Preventive and customised maintenance contracts.
- Network of technical service points in a variety of countries.



\ ONA EDM \ ONA EDM **\TECHNICAL SPECIFICATIONS**

TECHNICAL SPECIFICATIONS



SPECIFICATIONS		ONA AV35
MACHINE	Units	
X axis travel	mm	600
Y axis travel	mm	400
Z axis travel	mm	400
U-V travel	mm	120 x 120
Maximum dimensions of the workpiece	mm	1060 x 750 x 400
Maximum weight of the workpiece	kg	1500
Maximum speed of the axes	mm/min	2000
Maximum cutting cone angle	mm	30°/87 27°/100 ±45°/40
Wire diameter	mm	0.1-0.33
Wire guide		High-precision enclosed diamond
Automatic wire threader		Standard
Wire cutter		Optional
Cutting technology		By immersion

Due to its continuous review of technology and design, ONA ELECTROEROSIÓN reserves the right to modify the specifications of this catalogue without prior notice.

SPECIFICATIONS		ONA AV35		
CNC				
Display		22" TFT colour touch		
Min. programmable and controllable increase		0.0001 mm/0.001°		
Max. programmable dimension		±9999.999 mm		
Memory capacity		8Gb RAM		
Keyboard		Flat, anti-dirt		
Remote control		Standard		
GENERATOR				
Maximum cutting speed		450 - wire Ø 0.33 (XCC) mm²/min		
Minimum final surface roughness		0,1 Ra		
FILTRATION UNIT				
Paper cartridges		2 cartridges		
Dielectric capacity		1200		
GENERAL CHARACTERISTICS	Units			
Total weight	kg	4000		
Maximum height	mm	2560		
Floor surface area	mm	2740 x 3350		

Automatic mineral filter (no replaceable cartridges). Working tank door with window. CAD CAM programming system. Rotary B axis.

Wire guides: 0.07 0.1 0.15 0.20, 0.30, 0,33.

Optional wire: 0.07

Automatic ONApure/E.KO IONISER© machine for deionising water by Easymetal Prozesstechnik GmbH.

\ONA EDM \ONA EDM \TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS



SPECIFICATIONS		ONA AV60	ONA AV80	ONA AV100	ONA AV130	
MÁQUINA	Units					
X travel	mm	800	1000	1500	2.000	
Y travel	mm	600	600/800/1000	1000/1300	1000/1300	
Z travel	mm	500/600/700	500/600/700	600/700	600/700/800	
U-V travel	mm	500 x 500	500 x 500 mm	500 x 500	500 x 500	
Maximum dimensions of the workpiece	mm	1300 x1040 x 500 (*)	1500 x1040 x 500 (*)	1950 x1600 x 600 (*)) 2450 x1600 x 600 (*)	
Maximum weight of the workpiece	kg	10000	10000	10000	10000	
Maximum speed of the axes	mm/min	2000	2000	2000	2000	
Maximum cutting cone angle	mm	±30°/400	±30°/400	±30°/400	±30°/400	
Wire diameter	mm	0.20 - 0.33	0.20 - 0.33	0.20 - 0.33	0.20 - 0.33	
Wire guide		High-precision enclosed diamond				
Automatic wire threader		Standard				
Wire cutter		Optional				
Cutting technology		By immersion				

^(*) Request the different configurations available. The data specified correspond to the configuration of the smallest machine in each of the models.

Due to its continuous review of technology and design, ONA ELECTROEROSIÓN reserves the right to modify the specifications of this catalogue without prior notice.

SPECIFICATIONS		ONA AV60	ONA AV80	ONA AV100	ONA AV130	
CNC						
Monitor		22" TFT colour touch				
Min programmable and controllable increase	9		0.0001	mm/0.001°		
Max. programmable dimension			±9999	9.999 mm		
Memory capacity		8Gb RAM				
Keyboard		Flat, anti-dirt				
Remote control		Standard				
GENERATOR						
Maximum cutting speed		450 - wire Ø 0.33 (XCC) 360 - wire Ø 0.33 (XCC) mm²/min				
FILTRATION UNIT						
Paper cartridges		2 cartridges				
Dielectric capacity		1610 (*)	1980 (*)	3500 (*)	4500 (*)	
GENERAL CHARACTERISTICS	Units					
Total weight	kg	7500	9000	15500	21000	
Maximum height	mm	2920	2920	3100	3280	
Floor surface area	mm	3625 x 3345	4140 x 3345	5490 x 4330	6200 x 4330	

OPTIONS

Automatic mineral filter (no replaceable cartridges). Working tank door with window.

CAD CAM programming system. Rotary B axis.

Wire guides: 0.20, 0.30, 0.33.

Automatic ONApure/E.KO IONISER© machine for deionising water by Easymetal Prozesstechnik GmbH.

\30

\ ONA EDM \ AV \ \TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS



SPECIFICATIONS		ONA AV35
MACHINE	Units	
X axis travel	inches	23.6
Y axis travel	inches	15.7
Z axis travel	inches	15.7
U-V travel	inches	4.7 x 4.7
Maximum dimensions of the workpiece	inches	41.7 x 29.5 x15.7
Maximum weight of the workpiece	lbs	3306.9
Maximum speed of the axes	inches/min	78.7 in /min
Maximum cutting cone angle	inches	30°/3.4 27°/3.9 ±45°/1.5
Wire diameter	inches	0.002-0.012
Wire guide		High-precision enclosed diamond
Automatic wire threader		Standard
Wire cutter		Optional
Cutting technology		By immersion
:		

Due to its continuous review of technology and design, ONA ELECTROEROSIÓN reserves the right to modify the specifications of this catalogue without prior notice.

SPECIFICATIONS		ONA AV35		
CNC				
Display		22: touch-screen monitor		
Min. programmable and controllable increase	e	0.000004 in /0.001°		
Max. programmable dimension		±393700.9 in		
Memory capacity		8Gb RAM		
Keyboard		Flat, anti-dirt		
Remote control		Standard		
GENERATOR				
Maximum cutting speed		450 - wire Ø 0.0005 (XCC) in ² /min		
Minimum final surface roughness		0.1 Ra		
FILTRATION UNIT				
Paper cartridges		2 cartridges		
Dielectric capacity		1200		
GENERAL CHARACTERISTICS	Units			
Total weight	lbs	8818.4		
Maximum height	inches	100.7		
Floor surface area	inches	107.8 x 131.8		

SMOITEC

Automatic mineral filter (no replaceable cartridges). Working tank door with window.

CAD CAM programming system. Rotary B axis. Wire guides: 0.07, 0.1, 0.15, 0.20, 0.30, 0.33.

Optional wire: 0.07

Automatic ONApure/E.KO IONISER© machine for deionising water by Easymetal Prozesstechnik GmbH.

\ ONA EDM \ AV \ \TECHNICAL SPECIFICATIONS

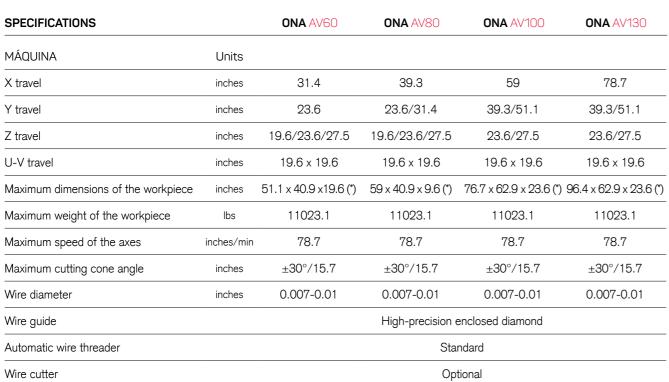
TECHNICAL SPECIFICATIONS







By immersion



(*) Request the different configurations available. The data specified correspond to the configuration of the smallest machine in each of the models.

Due to its continuous review of technology and design, ONA ELECTROEROSIÓN reserves the right to modify the specifications of this catalogue without prior notice.

SPECIFICATIONS		ONA AV60	ONA AV80	ONA AV100	ONA AV130		
CNC							
Monitor			22: touch-screen monitor				
Min programmable and controllable in	crease		0.000004	in / 0.001°			
Max. programmable dimension			±3937	700.9 in			
Memory capacity			8Gb	RAM			
Keyboard		Flat, anti-dirt					
Remote control		Standard					
GENERATOR							
Maximum cutting speed		450 - wire Ø 0,0005 (XCC) in ² /min 360 - wire Ø 0.0005 ((XCC) in ² /min					
FILTRATION UNIT							
Paper cartridges		2 cartridges					
Dielectric capacity		1610 (*)	1980 (*)	3500 (*)	4500 (*)		
GENERAL CHARACTERISTICS	Units						
Total weight (*)	lbs	16534.6	19841.5	34171.6	46297		
Maximum height (*)	inches	114.9	114.9	122	129.1		
Surface area (*)	inches	142.7 x 131.6	162.9 x 131.6	216.1 x 170.4	244.0 x 170.4		

OPTIONS

Automatic mineral filter (no replaceable cartridges). Working tank door with window.

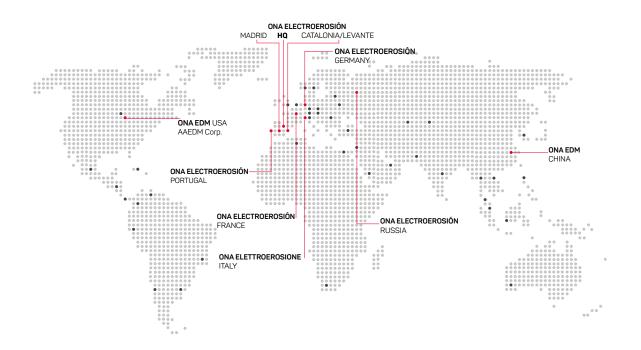
CAD CAM programming system. Rotary B axis.

Wire guides: 0.20, 0.30, 0.33.

Automatic ONApure/E.KO IONISER© machine for deionising water by Easymetal Prozesstechnik GmbH.

Cutting technology

We are at your service anytime and anywhere in the world



ONA ELECTROEROSIÓN (central)

Eguzkitza, 1 48200 Durango Spain \ ona@onaedm.com

ONA EDM GERMANY

\serviceanfrage@onaedm.com

ONA EDM USA, INC.

7455 Newman Blvd Dexter, Mi. 48130 USA \ service@onaedmusa.com \ onausa@onaedm.com

ONA ELECTRO-EROSION, S.A.R.L.

20 rue Salvador Allende I. Molina / La Chazotte 42350 La Talaudiere

\ onafrance@onaedm.com

ONA ELETTROEROSIONE S.R.L

Via M. D'Antona 59/61 10040 Rivalta di Torino (TO) Italy \ onaitalia@onaedm.com

ONA EDM Machine Tool (Shenzhen) Co. Ltd.

Room 108B, Building 8, Phase II, Nanshan Yungu Innovation Industrial Park, Nanshan District, Shenzhen Guangdong 518000 China \ onachina@onaedm.com

ONA ELECTRO-EROSION, LDA.

C. Emp. Vilar do Pinheiro Via José Regio (EN 13) Fracção 1- Nº 388 4485-860 Vilar do Pinheiro Portugal \ onaportugal@onaedm.com

000 ONAELECTROEROSIÓN

125080, Moscow , Volokolamskoye shosse, 2, floor 24, premises 1, room 1. Russia \ orussia@onaedm.com

(+34) 946 200 800

✓ ona@onaedm.com

\ www.onaedm.com

Copyright© 2021 ONA ELECTROEROSION, SA. All rights