

DONATONI D-SERIES

CNC bridge saws

 **DONATONI**
Stone Tech Creators



**Simple.
Precise.
Flexible.**



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Advantages

- Maximum **cutting precision**
- **Easy and quick** to program
- **Wide range** of feasible operations
- **Power** and **reliability**
- A wide choice of **accessories** and **configurations**
- Maximum **strength** and **resistance**

Main characteristics

- The DONATONI D-Series machines are **simple and compact** 5 interpolated axis bridge cutters, ideal for producing kitchen and bathroom countertops, shower trays and claddings for the building industry in general (including blocks cutting and processing) that are made of marble, granite and artificial stone. The **perfect balance** between size and flexibility.
- They are extremely versatile machines that can be used for a **wide range of machining operations**: from cutting to milling, to drilling and shaping. The vast choice of accessories makes these operations simpler and faster, without having to move the piece from the work bench and without prolonged downtime. all from the perspective of **automation and production optimisation**.
- The different levels of machine **personalisation** mean that the most demanding requests of our clients can always be satisfied. The D-Series machines offer a **vast choice of configurations** that can adapt perfectly to the needs of our clients.

The D-Series machines



D625



D725



D725 Q



D825 Q



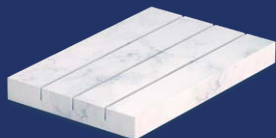
D1600



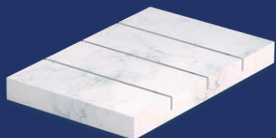
D2000

Machining

The **D-Series** machines can be used for a wide range of machining operations, for example:



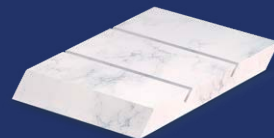
Longitudinal cuts



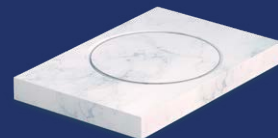
Transverse cuts



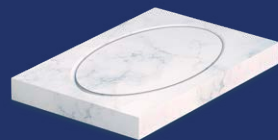
Oblique cuts



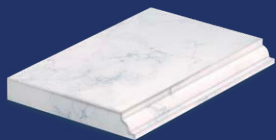
Inclined cuts 0-90°



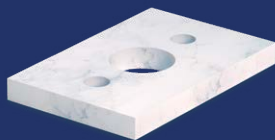
Curved cuts



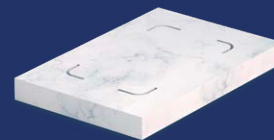
Elliptical cuts



**Shaping
(only with Isocam)**



Drilling



Milling



Blocks milling

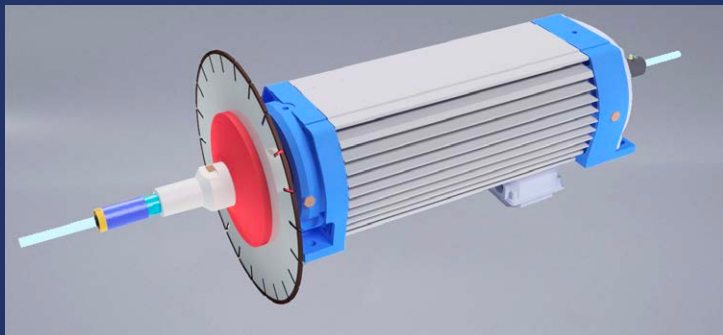
Achievements

DONATONI D-Series can be used to make different types of product:





Components



Electrospindle

Top quality electrospindles controlled by inverter that make it possible to use the blade and diamond tools of the core bit or milling cutter type. Each D-Series machine has a **wide range** of electrospindles to choose from according to the specific requirements of the client. The tool change can be either manual or automatic. You can use the technical data sheet on pages 20 and 21 of this catalogue to verify the various models that are available for each of the D-Series machines.



Control panel

Everything kept handy. The control panel is the basic instrument for using and programming the machine, so it must be as **simple and intuitive** as possible. It is a control unit with an innovative design and a large 21" touch screen. Operators can either program operations in automatic or manage them in manual, as required. Thanks to its ergonomic structure, the operator can use the machine easily and functionally.



Automatic greasing

The sliding lines of some D-Series machines (D625, D725, D1600 and D2000) are lubricated with grease; lubrication is **automatic and centralised**. Thanks to the innovative linear guiding systems installed on the lateral crosspieces, the bridge travels **easily and precisely**, offering fast, efficient movements. The digitally controlled brushless motors and cutting-edge gearboxes guarantee absolute precision and a surprising speed, with energy consumption reduced to a minimum.



Oil bath lubrication (D725 Q and D825Q)

Instead of being greased automatically, some D-Series machines (D725 Q and D825Q) have an oil bath, an option that ensures additional advantages in terms of efficiency. In particular, the oil bath keeps **sliding perfect** even with prolonged machine use, which means minimum maintenance and **maximum precision** while working.



Blade Presetting + Slab Thickness Probe

The blade presetting unit is a **dedicated system for detecting** the blade diameter or the length of a tool mounted on the main spindle or TOOL+ spindle. The slab thickness probe is the system that **automatically detects the slab thickness**, of fundamental importance for 45° cutting.



Monobloc frame (D625 only)

Compactness and simplicity. The D625 model has a monobloc frame made of supporting walls and supporting beams for the tilting bench, which make its installation **quick and simple**. It is made of hot-dip galvanised steel that is electric resistance welded and painted. The tilting bench has a hydraulic system, a wooden or rubber surface, and a maximum capacity of 1650 kg.



Steel walls

The D-Series machines have an optional extra: instead of the client having to make cement walls, steel walls can be installed to fix the Y axis sliding rails. The structure is made of welded steel which has been heat-treated to improve its **resistance**, and painted with three coats for greater **protection** against external agents.



Work bench

Clients can purchase the work bench in various sizes and with different surfaces according to the accessories that are chosen and specific production requirements. The bench can be fixed or tilting, with the latter making slab **loading simpler and more functional**. The range of possibilities means you can choose the solution that best suits your requirements.



TOOL+

A vertical side electrospindle, controlled by an inverter with 0-14.000 rpm, that allows the operator to use small-diameter diamond tools with ½ "gas connections for incremental cutting / blind or through-hole drilling, as well as combined operations with the blade and milling cutter. Thanks to TOOL+ the **range of possible machining operations increases staggeringly**.



Camera + Photoslab

New high resolution industrial camera, with support studied to reduce bulk. Photoslab automatically detects the surfaces of the slabs on the work bench. The images are acquired thanks to integration of the software with Parametrix. The result turns into countless advantages, among which process **programming speed**, and the **detection of possible defects** in the slab.



Handheld terminal

The handheld terminal has various keys and a 7" touch screen from which various operations can be carried out, among which **moving the machine axes manually, saving the origin points, seeing the machine quotas**, and other operations such as switching the laser on and off.



Lower-Cut unit

This cutting system is useful for inserting rodding into the lower section of kitchen countertops (requires the Y axis to be lengthened). The material positioning, supported by the suction cups (MOVE System), and the performance of cuts are **carried out in automatic mode** and managed through the Parametrix software. The ideal solution for marble workers specialised in such kind of machining operations.



Tool holder (only with electrospindle ATC)

In addition to the configuration of the D-Series machines, DONATONI also installs a linear tool holder complete with a stainless steel cover that is raised pneumatically. It is the ideal optional extra for making tool changes **faster and more functional** during production.



Lathe

Widening the **range of processing options** is simple with a DONATONI machine. With some D-Series machines, a specific lathe for making columns, shrines and elements with circular section or complex forms can be added to the package as an optional extra (the Y axis has to be lengthened).

MOVE System

MOVE, the system with an innovative design, has 6 **excludable picking-up zones** for lifting even small pieces and a load capacity of up to 600 kg.

Advantages

- It makes the most of the slab surface, reducing processing waste.
- Increased efficiency and reduced downtimes
- Pieces can be moved without requiring any intervention by the operator.
- Even operators with little experience will find it easy to use.
- Makes the machine totally automatic

Move System can be added to the D725, D725 Q and D825Q machines.

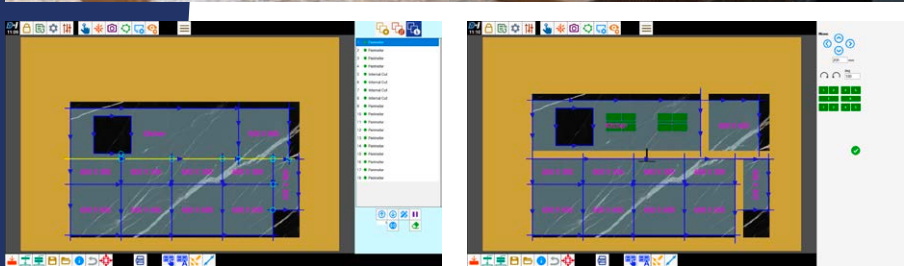


Table of components

	D625	D725	D725 Q	D825 Q	D1600	D2000
Oil bath lubrication	X	X	S	S	X	X
Automatic greasing	S	S	X	X	S	S
Blade presetting	S	O	O	O	O	O
Slab probe	S	O	O	O	X	X
ATC electrospindle	O	O	O	O	X	X
Monobloc frame	O	X	X	X	X	X

S Standard
 O Optional
 X Not available

	D625	D725	D725 Q	D825 Q	D1600	D2000
MOVE System	X	O	O	O	X	X
Camera	O	O	O	O	O	O
Lower Cut	X	O	O	O	X	X
TOOL+	O	O	O	O	X	X
Tool holder	X	O	O	O	X	X
Lathe	X	O	O	O	X	X
Handheld terminal	O	O	O	O	O	O
Steel walls	O	O	O	O	O	O

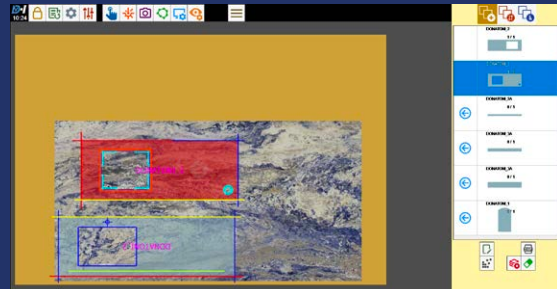
S Standard
 O Optional
 X Not available

Software

Donatoni Digital Suite

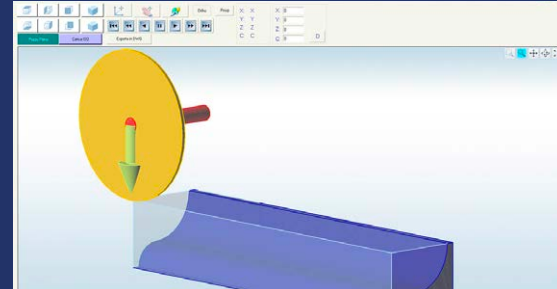
Over the years, DONATONI has developed a network of software and platforms capable of interacting with each other and supporting customers towards **complete automation and digitisation** of their production processes. The intention is to harmonise the different digital tools produced over time so as to **make the daily life of those who use the machines** simpler and less costly. **More automation means more efficiency.**

PARAMETRIX



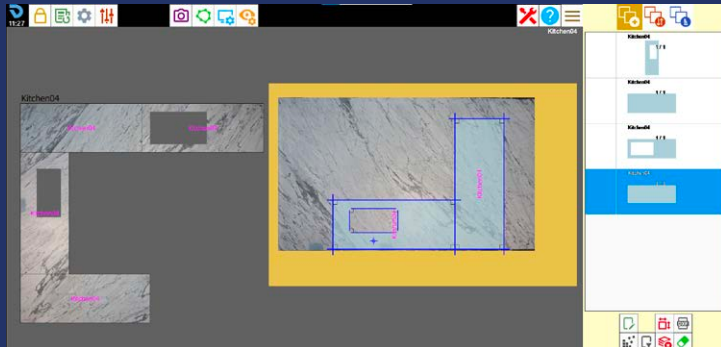
Optimising operations such as cutting, drilling and milling becomes simple and intuitive with Parametrix, the software that was designed by DONATONI in 2006 and which was improved over the subsequent years. With Parametrix you can manage **blade cutting operations and insert straight and curvilinear shapes** (stairs, kitchen countertops, rectangles, covers) using forms that are pre-set or which have been imported from a DXF file. The **pieces can be laid out and the cutting sequence** set according to the surface, optimising times and reducing material waste at the same time. This software includes collision prevention functions for the workpieces, manual and automatic nesting, as well as production and job order statistics management. Parametrix can be used together with **Photoslab and Move-System**, which allow the slab to be detected automatically and the cut pieces to be moved using a suction cup system, thereby reducing operator intervention to a minimum.

ISOCAM



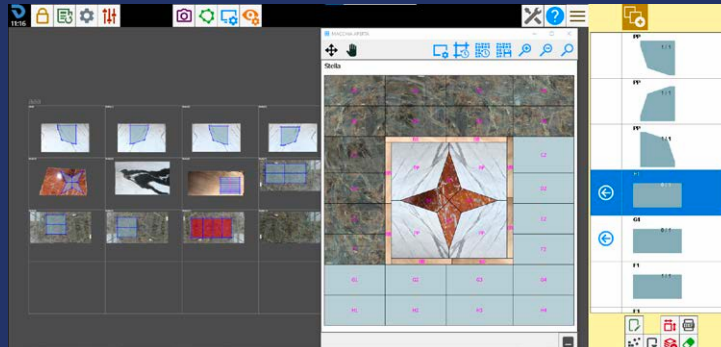
DONATONI Isocam allows files to be created for the **execution of straight or concave and convex arc shapes, with vertical and horizontal blades**. With DONATONI Isocam, shaping can be done in the roughing (combing) and finishing (brushing) modes, but also in the combined mode. This **flexibility** lets the operator create frames, window sills, and building products in general with simple, regular shapes. Importing from DXF, modifying the designed shapes and repeating the design of the same shape are some of its other functions.

Optional – Software



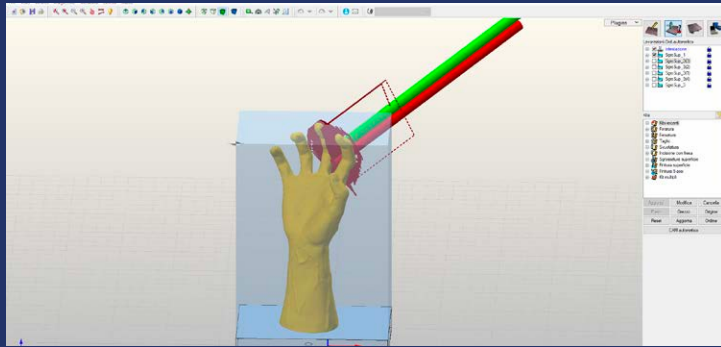
EASY MATCH

EASY MATCH is a programming software developed by DONATONI specifically for the realisation of **simple open-book projects**. It is an extension of the Parametrix software and gives a preview of the final result and slab cutting.



PROJECT MATCH

With **PROJECT MATCH** you can actualise complex open-book projects, working on several slabs simultaneously. It is a highly professional tool, ideal for companies that actualise contract projects for designers and architects, where the aesthetics have to be high level. This function has been designed for the office workstation.



EASYSTONE

EASYSTONE is the CAD/CAM software specifically for the marble processing sector. It is a **simple, intuitive software program**: all the functions are “click-friendly” and can be used even by people with no specific computer skills. The software can be used to design or import 2D and 3D files in different formats, or to define surfaces and shapes through laser scanning. Ideal for shaping, drilling, profiling, emptying, polishing and 5-axis machining because it optimises the execution process.



SCAN CNC

Detection system made up of a laser pointer mounted on the machine head and a software program integrated with Parametrix that identifies two-dimensional shapes. When detection has ended, the operator **elaborates the shape** on the machine display with Parametrix, and can archive the file, either in the on-board machine pc or in an external pc.

Technical data sheet

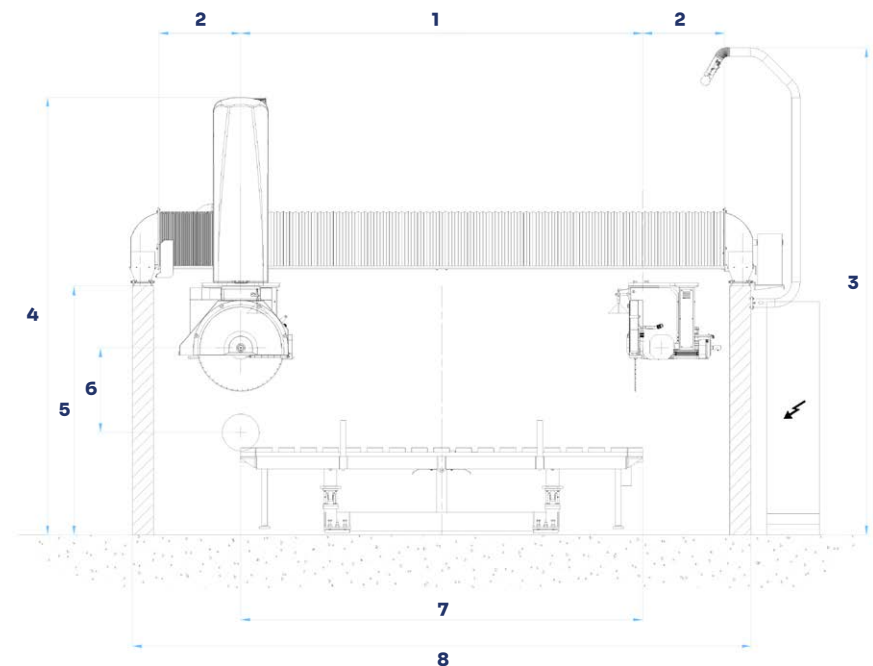
		D625	D725	D725 Q	D825 Q	D1600	D2000
Interpolated axes	N°	5	5	5	5	5	5
Carriage travel (X axis)	mm	3800	3700; 3800*	3900	3800	4000	4000
Bridge travel (Y axis)	mm	2780	2900	2950	2950	3500	3500
Head up/down travel (Z axis)	mm	450	550	600	800	1400	1400
Blade holder head rotation (C axis)	gradi	- 5° / + 365°	- 5° / + 365°	- 5° / + 365°	- 5° / + 365°	- 5° / + 545°	- 5° / + 545°
Blade holder head angle (A axis)	gradi	0° / + 90°	0° / + 90°	0° / + 90°	0° / + 90°	0° / + 90°	0° / + 90°
Slab support bench dimensions	mm	3800 x 2000	3500 x 2000; 3800 x 2400*	3500 x 2000; 3800 x 2400*	3500 x 2000; 3800 x 2400*	3500 x 2000	3500 x 2000
Minimum blade diameter	mm	350	350	350	350	750	750
Maximum blade diameter	mm	625	750	750	850	1600	2000
Max cutting depth	mm	200	250	260	310	635	800
Blade motor power	kW	13/S6	17,6/S6	17,7/S6	22/S6	35/S6	46/S6
Blade rotation speed with inverter	Rpm	0/5500	0/5500	0/5500	0/5500	0/2400	0/2400

		D625	D725	D725 Q	D825 Q	D1600	D2000
Maximum carriage speed (X axis)	m / min	40	40	45	45	37	37
Maximum bridge speed (Y axis)	m / min	30	30	45	45	37	37
Maximum head speed (Z-axis)	m / min	5	5	6	6	10	10
Water consumption	l / min	35	50	50	50	150	150
Air consumption	l / min	20	20	20	20	5	5
Standard voltage	V / Hz	400±10 / 50	400±10 / 50	400±10 / 50	400±10 / 50	400±10 / 50	400±10 / 50
Max blade using slab thickness probe	mm	625	725	725	725	NP	NP
Total installed power	kW	23	27	34	37	42	52
Max weight liftable by suction cups system	kg	NP	500	600	600	NP	NP
Total machine weight	kg	4650	4350	4500	4800	11500	12000

* Optional **NP** Not present

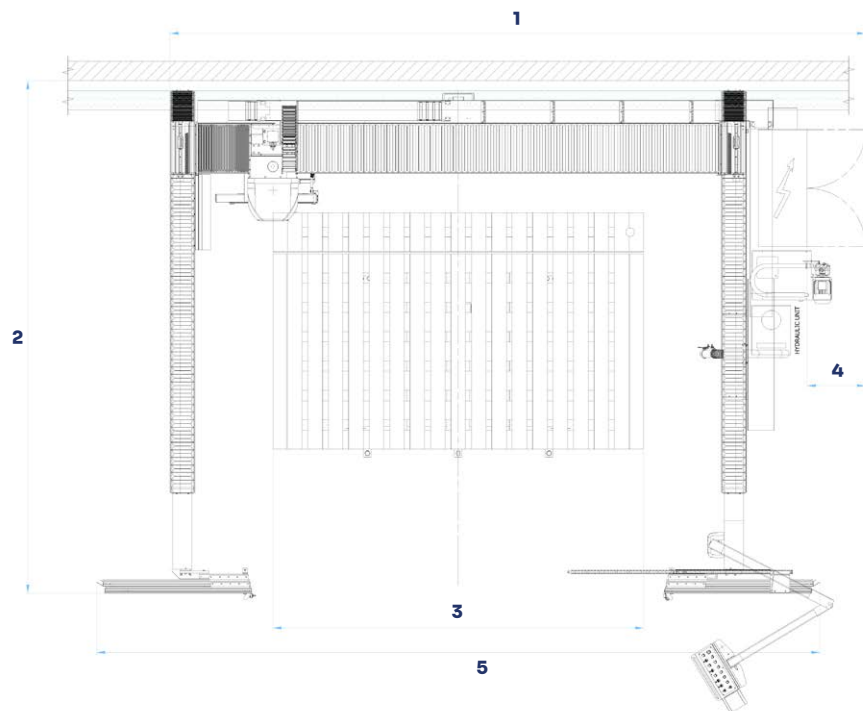
Electrospindle	D625	D725	D725 Q	D825 Q	D1600	D2000
ST (Cut Only)	not available	standard	standard	standard	standard	standard
TOOL (M48 tool holder)	standard	optional	optional	optional	not available	not available
TOP (ISO 40 with manual tie rod)	not available	optional	optional	optional	not available	not available
MTC / ATC (ISO 40 pneumatic-automatic tool coupling)	not available	optional	optional	optional	not available	not available

Machine layout



	D625	D725	D725 Q	D825 Q	D1600	D2000
1	3800	3800	3800	3800	4000	4000
2	640.5	646	723	773	1850	1850
3	4060	4430	4400	4750	5143	5350
4	2933	3429	3706	4133	5500	5700
5	1735	2050	2100	2350	2950	3150
6	450	550	600	800	1400	1400
7	3800	3800	3800	3800	3800	3800
8	5643	5875	5450	5450	7700	7700

All values are in **millimetres**.



	D625	D725	D725 Q	D825 Q	D1600	D2000
1	6395	6877	6975	7100	9115	9115
2	4912	5164	5164	5242	7044	7044
3	3800	3800	3800	3800	3800	3800
4	600	800	500	600	800	800
5	7564	7752	7756	7881	9115	9115

All values are in **millimetres**.

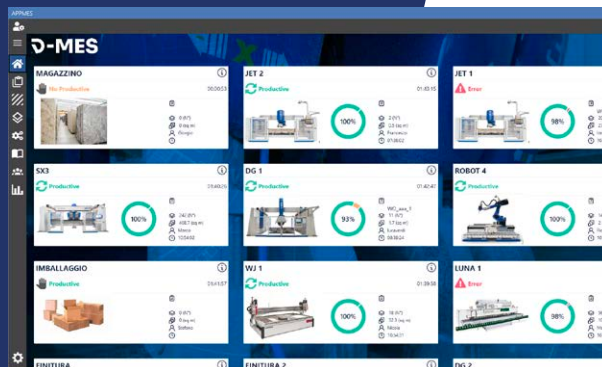
D-MES

DONATONI MES is the first MES system on the market that was designed and produced exclusively for marble workers. DONATONI MES is not just a software: it is a **complete Manufacturing Execution System (MES)** that can support your company's growth.

The company of the future is digital and connected.

Advantages

- Production monitoring
- Real-time data
- Integration with working areas
- Improved efficiency and profits
- Reduced waste and time
- One single database for the whole company



Welcome to D-Portal

Selezionare una macchina per iniziare



D-PORTAL

The **D-Portal** platform can be considered as a **library** for all your Donatoni machine documents and has direct channels for contacting our After Sales service directly, which means that clients can do ordinary maintenance easily and precisely.

Donatoni Service

Donatoni service offers a wide range of consulting services to meet the different needs of customers, wherever they are.

After-Sales Service

You can contact our **after-sales** service for any requirement. In this manner, any type of problem can be identified and solved asap, finding the fastest, **most efficient solution**.

Our telephone assistance department is available for giving support to clients on everything about machine functionality.

Telephone support is available from Monday to Friday, 7.30 a.m. to 6.30 p.m., and on Saturdays from 8 a.m. to 12 p.m. (UTC +1 CET - Central European Time).

Tel. +39 – 045 6862899

Donatoni support is also available by e-mail at the following addresses:

For assistance

assistenza@donatonimacchine.eu / service@donatonimacchine.eu

Whatsapp: + 39 0457740052 **Telegram:** @donatonimacchine_bot

For spare parts

ricambi@donatonimacchine.eu / parts@donatonimacchine.eu

Maintenance

Donatoni's routine and special maintenance service is entrusted to its own **specialist technicians** to guarantee the **reliability** and **efficiency of your machines** over time, no matter whether in Italy or the rest of the world.

Our technicians are trained to recognise and fix faults promptly, helping you save as much time as possible and allowing your machines - and your systems - to last longer.

Consultancy service

To support and enable our customers to meet the demands of the market, we offer **consultancy services** that can widen and **deepen your awareness and skills**. Offering a complete support service does not only mean solving mechanical or software problems, but also **providing tools and knowledge** to find solutions and manage all production needs independently.

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Donatoni Group

The Donatoni Group was established after **long experience** in the natural stone industry, a process that began in the 50s and developed over the years. Today, **Donatoni Group** is recognised as one of the world's leading manufacturers of high-quality stone processing machines.

Constant research, technological innovation, and customer service are key values for the company, which employs highly qualified personnel in order to guarantee the end customer a product that best reflects their expectations in terms of quality and performance. To support its global development, **Donatoni Group** operates in international markets with its own agents and direct overseas branches.



Donatoni Academy



Donatoni Academy supports the marble industry through technical and practical training courses, conferences, events and activities aimed at developing skills and know-how for companies and operators in the sector.

About us

We rely on qualified teachers and speakers to develop technical courses with specific content and linked to the real needs of the industry.

To whom

Donatoni Academy provides services for companies in the stone industry that want to train, perfect or expand the skills of their operators. Our courses are also addressed to students and anyone wishing to update and expand their skills.

Courses location

Courses are held either face-to-face or remotely. We have 3 training rooms for theoretical classes and one showroom for hands-on sessions with 5 machines.



Donatoni Macchine Srl reserves the right to make any technical modification which, under its own incontestable opinion, improves its machines. As a result, all information, data or images in this catalogue are indicative and are not a contractual obligation of Donatoni Macchine Srl in any way.

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