

DONATONI JET625

CNC bridge saw

 **DONATONI**
Stone Tech Creators



**Simple.
Compact.
Complete.**



Contents

4	.....	Main characteristics
4	.....	Advantages
5	.....	Processing
6	.....	Production
7	.....	Components
9	.....	MOVE System
10	.....	Optional extras
12	.....	Software
13	.....	Optional – Software
14	.....	Technical data sheet
15	.....	Machine layout
16	.....	D-MES and D-PORTAL
17	.....	Donatoni Service
18	.....	Donatoni Group
19	.....	Donatoni Academy

Advantages

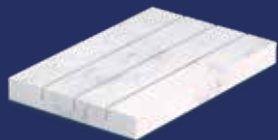
- **Easy and quick** to program
- Extremely **compact**
- Can be used for a **wide range of operations**
- Automated machining processes possible
- Can also be used in manual
- Complete with accessories
- **Easy to transport and quick** to assemble

Main characteristics

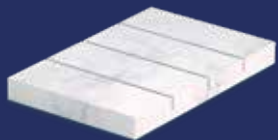
- The **DONATONI JET 625** CNC is a simple and compact 5 interpolated axis numeric control bridge saw, conceived for the production of kitchen and bathroom countertops, shower trays, different kinds of claddings for the building industry, made of marble, granite, artificial stone and ceramic.
- Extremely **flexible**, it can be used for a wide range of operations. The available layouts and optional extras mean that all the **can be fully automated**, thus reducing operating times and increasing productivity.
- Installation is quick thanks to the **monobloc system** and the **reduced dimensions** of the machine, which were studied specifically to make these operations easier.

Machining

Donatoni JET625 can be used for a wide range of operations, for example:



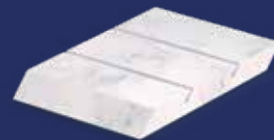
Longitudinal cuts



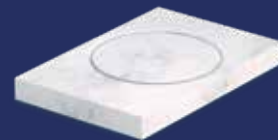
Transverse cuts



Oblique cuts



Inclined cuts



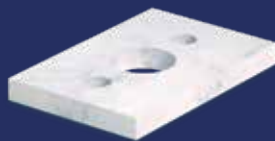
Curved cuts



Elliptical cuts



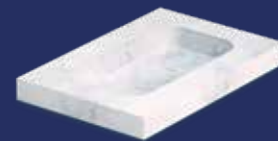
Shaping with blade
(only with Isocam)



Drilling



Milling



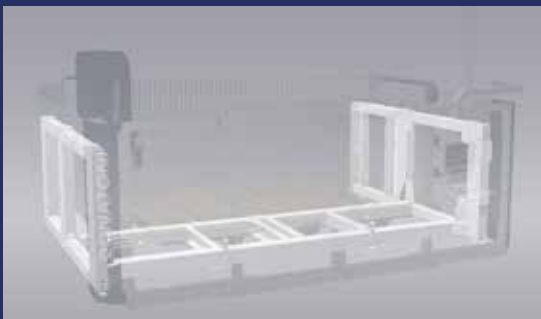
Blocks milling

Achievements

Donatoni JET625 can be used to make different types of product:

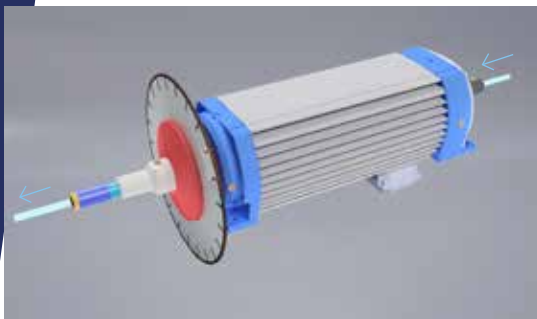


Components



Monobloc frame

Compact, rigid and long-lasting. The new monobloc is made up of a single **load-bearing structure** that has been hot-dip galvanised and painted, with supporting walls and a supporting base to which the tilting bench is fixed.



Electrospindle

Electrospindle with inverter control of the number of rotations. Can be used with the blade and diamond tools of the core bit or milling cutter type. Tool change is manual. Internal water passage.



Tilting work bench + fixed extension

Bench available with either a wooden or a **rubber** surface (selectable). Maximum capacity 1650 kg. The bench can be tilted from 0° to 85° by a hydraulic system. The bench is fastened directly to the monobloc frame. The fixed **extension** bench with plywood supporting surface is included.



Sliding front guards

Frontal protective barriers with closing system; allow **maximum visibility** of the work area and reduced bulk, guaranteeing **elevated safety standards**. The front close is 2+2 wings. The ample access to the work area given by the fully-open doors makes material loading and unloading easier.



Cut marking laser and cross-shaped laser

The 30 mW cut marking laser (red) can be used to control the cutting path. The cross-shaped laser is installed on the spindle unit and detects the head position. It is necessary for detecting the slab parameters, defining the origin when machining with cad/cam programs, and is an aid for additional software that can generate profile and shape templates.



Blade presetting + Slab thickness probe

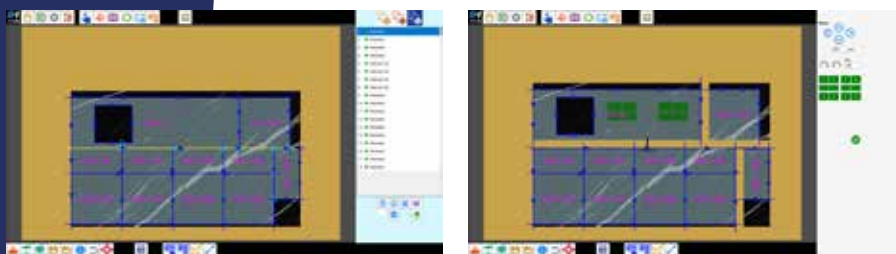
The blade presetting unit is a dedicated system for **detecting the blade diameter or the length of a tool** mounted on the main spindle or Tool+ spindle. The Slab Thickness Probe is a system for the automatic detection of **slab thickness**, which is essential for inclined cutting. Both solutions guarantee maximum operating precision.

MOVE System

The newly designed **MOVE** System with 6 excludable picking-up zones for lifting even small pieces and a load capacity of up to 500 kg. Thanks to the **MOVE** System you can **take full advantage of slabs**, **avoiding their manual movement**.

Advantages

- It makes the most of the slab surface, reducing processing waste.
- Increased efficiency and reduced downtimes.
- Pieces can be moved without needing the operator's intervention.
- Easy to use, even for operators with no experience.
- It makes the machine totally automatic.



Optional extras



Camera

New industrial camera mounted on a redesigned stand to reduce overall dimensions. Photoslab automatically detects the surfaces of the slabs on the work bench. The images are acquired thanks to integration with Parametrix.



TOOL+

A vertical side electrospindle, inverter-controlled from 0 to 14,000 rotations, which can be used with small diameter diamond tools with a 1/2" gas connection for incremental cutting / blind or through-hole drilling and **operation combinations with the blade and milling cutters.**



Tool holder

A holder unit with 6 positions +1 for ISO 40 cones blade. The stainless steel cover is lifted pneumatically and the blade change is automatic. It is the ideal optional for making tool changes **faster and more functional** during the production process.



Adjustable bench extension

Height-adjustable bench extension, ideal for machining thick materials. It can be positioned level with the table or lowered to -200 mm below table level.



Dressing station

A new bench-mounted unit made up of a support and the dressing stone, which is fixed directly to the supporting bench structure. The dressing cycle is managed **automatically by the Parametrix software.**



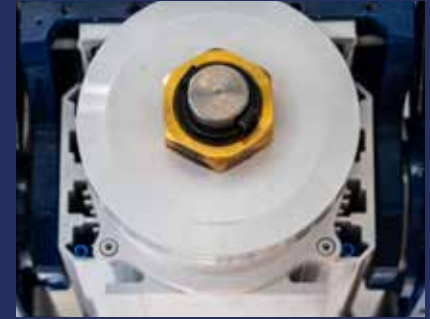
LED lighting

Two LED lighting devices positioned perpendicular to the working surface. The soft light gives even lighting, while the LED technology **reduces consumption** and avoids overheating; it also improves camera image acquisition if the area lighting is poor.



Frankfurt abrasive holder plate

Abrasive holder plate with TOOLS M48 or ISO 40 connection, aluminium, indicated for **polishing, smoothing and brushing marble** and artificial stone. The dedicated DM TL software has to be installed on-board the machine to polish and brush slabs.



ISO 40 electrospindle

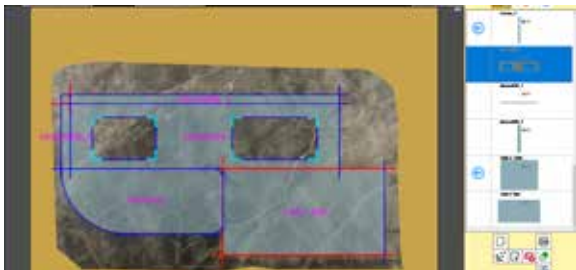
An electrospindle with encoder that aligns the head with the ISO 40 cone during tool changes. It is a very functional solution because it automatically verifies if the tool is present or not.

Software

Donatoni Digital Suite

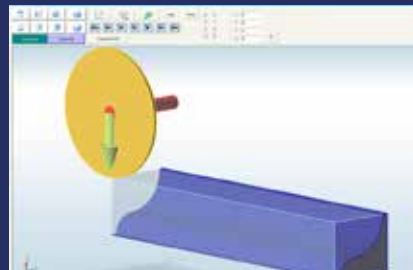
Over the years, DONATONI has developed a network of software and platforms capable of interacting with each other and supporting customers towards complete automation and digitalisation of their production processes. The intention is to harmonise the different digital tools produced over the years so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

PARAMETRIX



PARAMETRIX is the simple and user-friendly Software developed by Donatoni Machine that was conceived to **optimise cutting different shaped pieces from slabs.** It is a software which allows you to manage cutting processes using a blade, it allows the user to input both rectilinear and curvilinear shapes (steps, kitchen worktops, rectangles, covers) using pre-defined shapes or shapes imported from DXF files. Depending on the surface, it is possible to set the position of the pieces and the sequence of the cuts, optimising the times and reducing the material waste. This software includes collision prevention functions for the workpieces, manual and automatic piece nesting, as well as production and job order statistics management.

Optional – Software



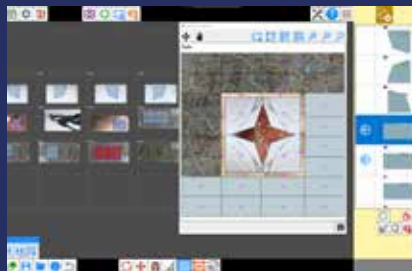
ISOCAM

DONATONI Isocam allows files to be created for the execution of straight or concave and convex arc shapes, with vertical and horizontal blades. Shaping can be done in the **roughing (combing) and the finishing (brushing) modes, also in the combined mode.** Importing from DXF, modifying the designed shapes and repeating the design of the same shape are some of its other functions.



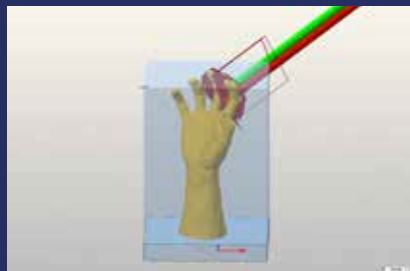
EASY MATCH

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.



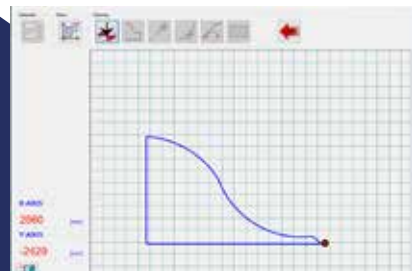
PROJECT MATCH

PROJECT MATCH is a design software developed by Donatoni that allows **complex open-book projects** to be realised on several slabs simultaneously. It is a highly professional tool, ideal for all companies realising contract projects for designers and architects, where a high aesthetic component is required.



EASYSTONE

The CAD-CAM software allows the user to design, import and execute 2D and 3D files in DXF, IGES, STL, PNT, STEP and RHINO formats, and to define surfaces and shapes using laser scanning. It allows the performing of **roughing, drilling, profiling, emptying and polishing**, optimising the execution process.



SCAN CNC

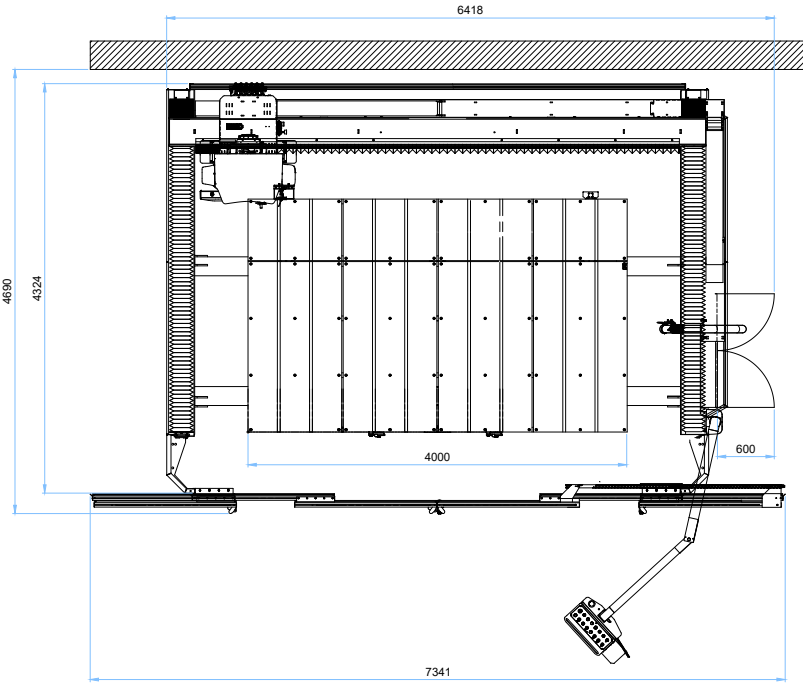
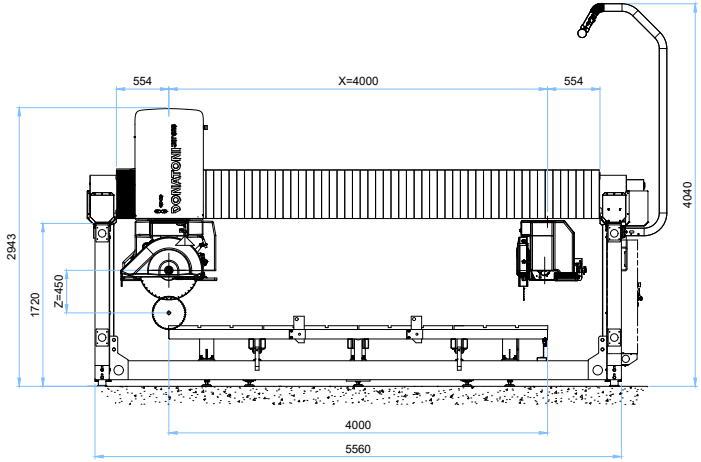
Detection system made up of a laser pointer mounted on the machine head and a software program integrated with PARAMETRIX that **identifies two-dimensional shapes**.

Technical data sheet

Interpolated axes	N°	5
Carriage stroke X axis	mm	4000
Bridge stroke Y axis	mm	2780
Head vertical stroke Z axis	mm	450
Blade-carrying head rotation (C axis)	degrees	-5°/365°
Blade tilting A axis	degrees	0°/90°
Workbench dimensions + table extension	mm	4000 x 2450
Minimum blade diameter	mm	350
Maximum blade diameter	mm	625
Max cutting depth	mm	200
Electrospindle motor power (TOOL 13 - 17)	kW	13/S6 17/S6 (opt)
Tool rotation with inverter (TOOL)	Rpm	0/5500
Electrospindle motor power (ISO 40)	kW	13 S6
Tool rotation with inverter (ISO 40)	Rpm	0/7000

Carriage speed X axis	m / min	0 - 40
Bridge speed Y axis	m / min	0 - 30
Head speed Z axis	m / min	0 - 5
Forward cutting speed (adjustable)	m / min	0 - 25
Water consumption (3 bar)	l / min	35
Air consumption	l / min	20
Standard voltage	V / Hz	400 / 50
Max blade diameter with use of suction cups system	mm	625
Max blade diameter with use of slab	mm	625
Max blade diameter with Tool+	mm	425
Max weight liftable by suction cups system	kg	500
Total machine weight	kg	5200

Machine layout



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



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 to give 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 knowledge 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.

DONATONI MACCHINE SRL

T +39 045 686 28 99

M assistenza@donatonimacchine.eu

Lunedì – Venerdì: 7:30 - 18:30

Sabato: 8:00 - 12:00

DONATONI AMERICA Inc.

T +1 3367905056

M service@donatoniamerica.com

Lunedì – Venerdì: 8:00 - 17:00 (EST)

DONATONI DEUTSCHLAND GmbH

T +49 0821 207176-0

M service@donatonideutschland.de

Lunedì – Giovedì: 8:00 - 17:30

Venerdì: 8:00 - 14:00

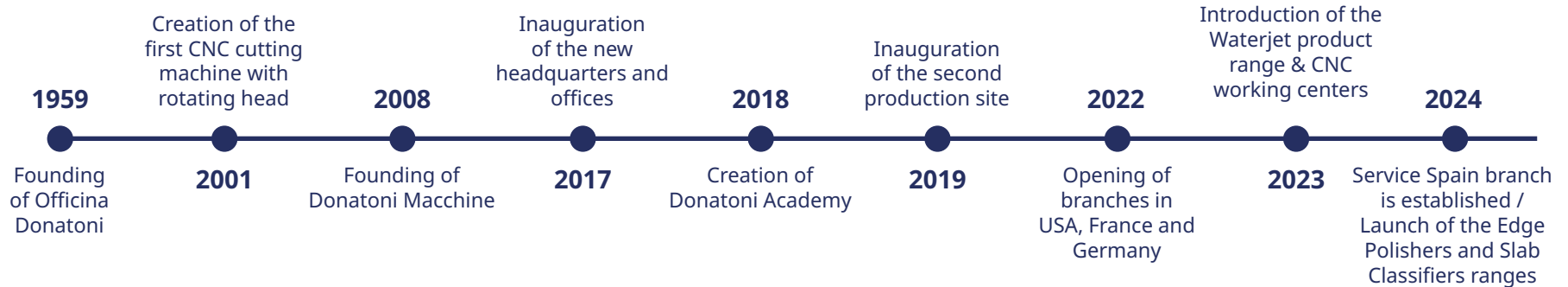
Donatoni Group

Donatoni Group stems from a **long-standing experience** that began in the late 1950s and has since evolved within the stone processing industry.

Today, it is recognized as one of the world's leading companies in the production of high-quality machinery for stone processing.

Ongoing research, technological innovation, and a strong focus on customer service are the pillars on which the company is founded. A highly qualified team ensures that customers receive products that fully meet their expectations in terms of quality and performance.

Supporting its global growth, **Donatoni Group** is present in international markets through a network of agents and direct branches.



Donatoni Academy

Training as a tool for success

Since 2018, Donatoni Academy has supported professionals in the stone industry by offering continuous training on new technologies for marble processing. The Academy combines traditional know-how with innovation, offering both practical and theoretical courses on Donatoni machines and software, and more. Training for CNC operators ensures customers receive complete and qualified preparation to face the challenges of the sector.

Contacts:

info@donatoniacademy.eu

Donatoni Showroom

A space dedicated to the customer

The Donatoni Machine showroom is always available to customers for private demos, refresher courses, and in-depth training on the use of Donatoni machines and software. It also offers customized machining tests and specific consultations on materials and special requests. An excellent service that provides a valuable opportunity to explore the machines' features in detail and optimize production processes through hands-on sessions and personalized consulting.

Contacts:

showroom@donatonimachine.eu





Donatoni Machine 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 Machine Srl in any way.

Donatoni Macchine srl

T +39 045 686 25 48
M info@donatonigroup.com

Via Napoleone, 14
37015 S. Ambrogio di Valpolicella (VR)
ITALY

Donatoni America Inc

T +1 3367904910
M info@donatoniamerica.com

4214 Beechwood Dr, 104
27410 Greensboro, North Carolina
USA

Donatoni Deutschland GmbH

T +49 (0)821-207176-0
M info@donatonideutschland.de

Am mittleren Moos, 39
86167 Augsburg
GERMANY

Donatoni France EURL

M commercial@donatonifrance.fr

33 Rue de la Republique, Allé B
69002 Lyon
FRANCE

donatonigroup.com

