

DONATONI[®] DJ6.6

Combined cutting center | Disc and Waterjet

 **DONATONI**
Stone Tech Creators



Perfect combination of 2 technologies.



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Advantages

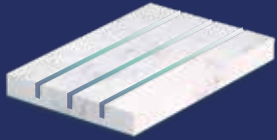
- 2 machines in 1
- Extremely **versatile**
- **Automatic** working process
- **Slab optimization**
- **Easy and quick** to program
- **Wide range of machining processes**

Key features

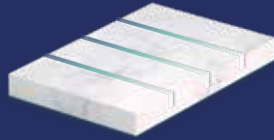
- **DONATONI DJ 6.6** is a 5 interpolated axes **cutting centre with combined technology**, disc and waterjet, extremely versatile, ideal to manufacture a wide range of items made of marble, stone, agglomerated material and ceramic.
- This machine is designed to perform **cutting operations** using blade and waterjet technology in combination, as well as **milling operations** with a tool installed on the shaft of the main motor.
- **DONATONI DJ 6.6** is suitable for small or large companies mainly involved in the manufacture of kitchen and bathroom countertops, thresholds, staircases, and cladding panels, or for companies that are looking for a multi-purpose machine to perform all cutting operations with one machine only.

Machining

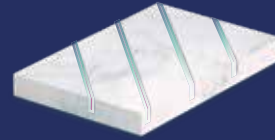
Donatoni-DJ6.6 can be used for a wide range of machining processes, including:



Longitudinal cut



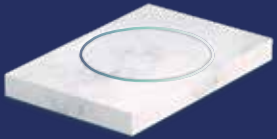
Transverse cut



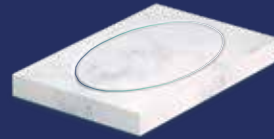
Oblique cut



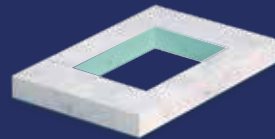
Inclined cut 0-90°



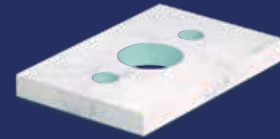
Curved cut



Elliptical cut



90° internal cut



Blind and through
drilling

Production

With a **DONATONI DJ 6.6** it is possible to realize different typologies of products.



Various Solutions for Top Performance

DONATONI HydroX

Why choose the Donatoni HydroX pump? The **DONATONI HydroX** pump is engineered to deliver outstanding performance and tangible benefits at every stage of the waterjet cutting process.

With advanced technology and innovative systems, HydroX is the ideal solution for those seeking a significant boost in productivity and a **reduction in operational costs**.

HydroX is a **triplex direct-drive pump**, where water is pressurized through three pistons connected to a crankshaft. This configuration ensures high efficiency, reliability, and superior performance.



Advantages

Active Pressure Control

- Continuous monitoring of the output pressure via digital pressure switch.
- Automatic pressure adjustment to ensure **perfect cuts**.
- Instant intervention in case of leaks in the circuit to maintain cut quality.

Energy Savings

- **Inverter** control for motor rotation.
- **Energy savings** compared to traditional pumps, reducing **operating costs** and environmental impact.

Economic Benefits

- **Access to incentives** for adopting advanced technological solutions.
- **Innovation and savings** for your business.

Sustainability and water recovery

- Recovery of head cooling water and waste water.
- **Water savings** and more **sustainable practices**, helping reduce operational costs.



Hypertherm Dynamax350

To meet a variety of high-precision cutting needs, in addition to the DONATONI HydroX triplex direct-drive pump, a **high-performance alternative high-pressure system** is also available.

Equipped with a 37 kW pump capable of reaching pressures up to 4200 bar, this system ensures **constant and controlled pressure** throughout the process, delivering clean, precise, and consistent cuts.

The use of a **high-volume pressure accumulator** minimizes pressure fluctuations and reduces wear on internal components, improving reliability, operational efficiency, and service life.

Whatever your needs, **Donatoni offers the right solution** to maximize performance and optimize costs.

Components



Waterjet system

The waterjet system is mounted on the spindle head and it is equipped with an independent system for waterjet nozzle tilting.



Blade presetting

The blade presetting unit is a dedicated system, designed to detect the blade diameter or the length of a tool mounted on the main spindle or on the TOOL+ spindle.



Slab thickness probe

The slab thickness probe is a system designed for automatic detection of the slab thickness. This is a helpful instrument for all kinds of cutting processes, especially 45° cutting.



Control panel

Everything within reach. The control panel is the basic instrument required to operate and to programme the machine. This is why it must be as user-friendly and intuitive as possible. It consists in a PC monitor fitted in the control panel with a large 21" touch screen display. Operators can either program operations in automatic or manage them in manual, as required.



Laser

The cut marking laser is used to monitor the cutting path. The cross-shaped laser is installed on the spindle unit and is designed to detect the position of the head. It is used to detect the perimeter of the slabs and to define the zero point for machining processes based on CAD/CAM programs; it can also assist additional software in generating profile and shape templates.



Tank

The tank, entirely made of hot galvanized steel, is provided with a worktable that includes galvanized blades for waterjet cutting and is used to support the material to be processed. The blade table is easy to remove for simplified cleaning operations. The possibility to remove the blade table in one step makes maintenance and cleaning extremely easy. The tank is galvanized and painted on the outside for greater corrosion resistance. The tank is also provided with adjustable feet and connectors to the water drain system.

Optional



Osmosis system

Optional system for treating the water entering the pressure intensifier, based on reverse osmosis technology. It reduces salinity and removes unwanted dissolved components (e.g. chlorides, sulfates, chlorine, iron, nitrites). It is equipped with a control unit featuring a touch screen for intuitive operation and is supplied with cartridge filters for pre-filtration down to 5 microns. Essential when the water exceeds the required parameters and cannot be treated with traditional softeners. It ensures optimal performance and longer lifespan of the UHP intensifier, reducing maintenance.



Support walls

Support walls are made of sandblasted steel and are painted with three coats.



Tilting loading system

This is a tilting system with four hydraulically-driven arms, used to discharge the slab. The tilting worktable makes material loading easier and safer.



Slab camera

New, high resolution industrial camera provided with a mount specifically studied to reduce its footprint. Photoslab automatically detects the surfaces of the slabs on the workbench. The image is acquired thanks to the built-in EasyJET software. This offers countless advantages, among which fast process programming and detection of possible defects in the slab.



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



Bench extension

Wooden bench extension, ideal for the **machining of material longer than the bench length**.



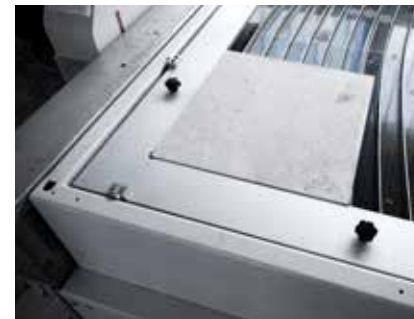
Spent abrasive removal system

A system consisting of a series of galvanized sheet metal containers placed inside the tank, designed to collect sand and processing waste. When the maximum capacity is reached, they can be easily removed using traditional hooks.



Additional blade kit

This special kit doubles the number of blades available in the basic version, **reducing the pitch from 60 to just 30 mm**. This closer spacing between the blades allows for a **greater contact surface supporting the material**.



Workpiece positioning L-shaped set square

Ground aluminium solution, specially designed to make the **mechanical stop of the workpiece easier**. Thanks to its practical and functional design, it is the ideal tool for dealing with repetitive machining operations, always guaranteeing excellent results.

Software

Donatoni Digital Suite

Over the years, DONATONI has developed a suite of software and platforms that interact and support customers toward **complete process automation and digitization**. The aim is to harmonize all digital tools to make **daily operations simpler and more efficient**.



HEGLMEIER

Heglmeier is the integrated software for managing the DJ 6.6 by Donatoni Macchine. It enables combined cutting with disc and Waterjet technology, allowing the production of complex pieces such as kitchen countertops with internal cutouts or inscriptions carved into stone.

Main features:

- Piece Creation and Import: Manual design of parametric shapes or import from DXF files, with automatic recognition of contours and cutting sides.
- Slab Management: Loading via camera or

manual input of slab dimensions and parameters.

- Smart Nesting: Intelligent placement of pieces on the slab with vein visualization and maximum material optimization.
- Cutting Precision: Use of disc probe and slab probe for accurate thickness and tool measurement, including probing on inclined cuts.
- Advanced Cut Management: Automatic, customizable cutting plan proposal, combined disc and Waterjet management, automatic piece handling with suction cups to prevent overlaps and optimize processing times.
- Multi-Slab Capability: Ability to work with multiple slabs to complete a single cutting job.
- Parameter Control: Adjustment of speed, spindle rotation, and drilling time, with the creation of customized Kits based on the material.

PARAMETRIX

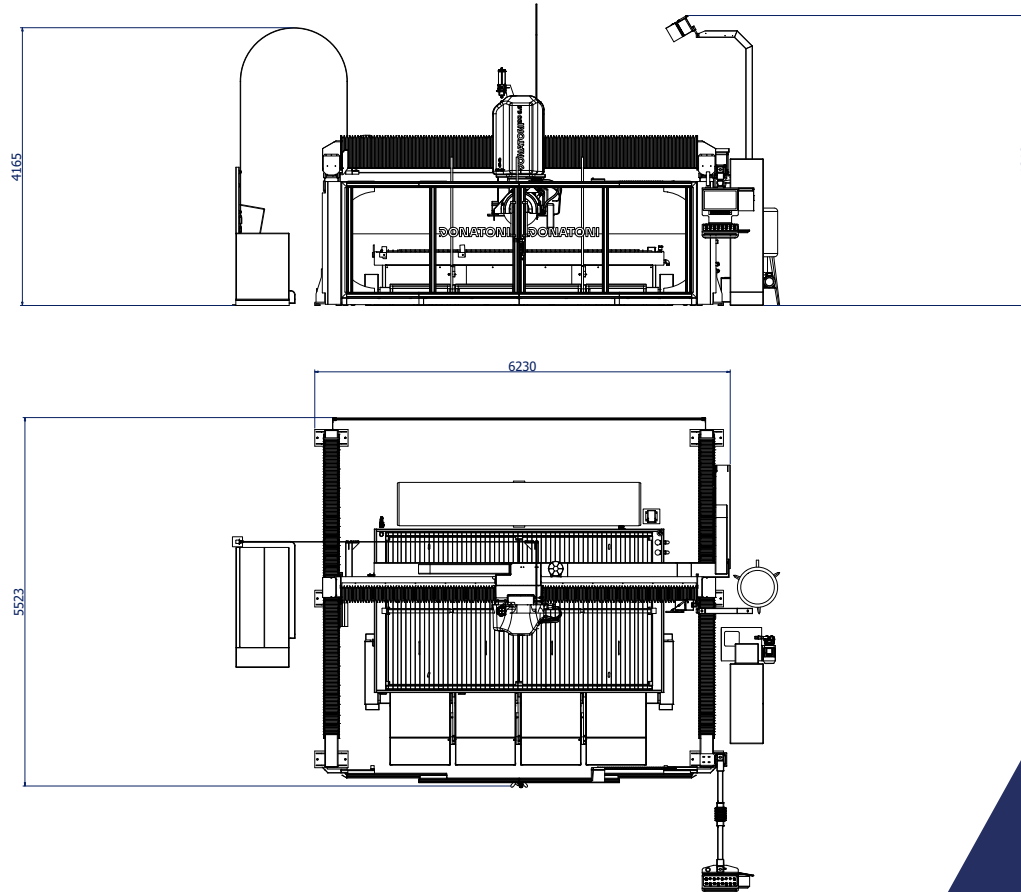
PARAMETRIX is the simple and user-friendly software developed by Donatoni Machine that was conceived to **optimise cutting different shaped pieces from slab**. Parametrix allows you to manage cutting processes using a blade, it allows the user to input both rectilinear and curvilinear shapes (steps, 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.



Technical data sheet

Interpolated axes	N°	5+1	Rated torque of electrospindle motor, TOOL	kW	73,0 S1 / 87,1 S6
X-axis carriage stroke	mm	4100	Electrospindle speed range	rpm	0 - 5500
X-axis max. carriage speed	m / min	40	Max. blade when using suction cups	mm	625
Y-axis bridge stroke	mm	3250	Max. tot. weight suction cups can lift	kg	500
Y-axis max. bridge speed	m / min	30	Max. blade with slab thickness gauge	mm	625
Z-axis head up/down stroke (optional: tilting bench)	mm	450 (425)	Water consumption, excluding WJ consumption (3 bar)	l/min	35
Z-axis max. head speed	m / min	5	Air consumption, excluding abrasive system consumption	l/min	20
Head rotation (C-axis)	degrees	-5°/365°	Intensifier electric power (HP)	kW	37
Blade holder head rotation (A-axis)	degrees	0/90°	Max. intensifier operating pressure	bar	4000
Water cutting head tilting (B-axis)	degrees	0 - 60°	Max. intensifier water flow rate	l/min	3,8
Max. cutting slab dimensions (optional: tilting bench)	mm	3700 x 2200 (3700 x 2000)	Abrasive agent tank capacity	l	200
Tilting bench loading capacity (opt)	kg	500	Standard voltage	V/Hz	400±10% / 50
Max. cutting thickness with WJ and blade (max. Ø 525)	mm	140	Total installed power,	kW	21
Max. cutting thickness with blade only (max. Ø 625)	mm	200	Overall dimensions (width/length/height)	mm	8460 x 5550 x 4520
Nom. diameter of blades - combined cutting (max.)	mm	300 - 500 (530)	Total weight (approx.)	kg	7000
Nom. diameter of blades - cutting with blade only (max.)	mm	300 - 600 (625)			
Electrospindle motor power	kW	11 S1/ 13 S6			

Machine Layout



D-MES

DONATONI MES is the first MES system on the market specifically designed for the stone industry.

More than just software, DONATONI MES is a **complete Manufacturing Execution System** capable of managing and scheduling the entire production workflow—from slab acquisition and cataloging in the warehouse to final processing, packaging, and shipping.

It includes instant reporting features for production statistics, consumption tracking, and detailed reports on each production cycle.

The D-MES system provides a comprehensive solution to streamline production management, improve process traceability, and integrate all business areas into a single, unified workflow.



What needs does D-MES address?

- Support for preparing quotes thanks to the ability to program the entire work cycle.
- Real-time and final production monitoring.
- Management of slab inventory with all properties, dimensions, and associated job orders.
- Optimization and reuse of scrap materials.
- Centralized management of all production files—from job order to cutting and processing programs—in a single database.

D-PORTAL

D-Portal is an exclusive, completely free platform designed for Donatoni customers. Through D-Portal, users can access all documentation related to their Donatoni machines, including manuals, electrical diagrams, CE declarations, and layout drawings. In the **Interactive Manuals** section, machine information is easily accessible and enriched with an **interactive spare parts catalogue**.

The platform also features a collection of short video tutorials covering maintenance and machine programming tasks, helping operators independently resolve common operational questions. Finally, **D-Portal allows users to open support tickets directly**, ensuring fast and efficient customer service.



Donatoni Service

Specialized Support and Rapid Solutions to Maximize Machine and Plant Efficiency.

Support

For any need, our customer service department can be contacted to promptly identify and resolve any issue, offering the fastest and most effective solution. Our support team is always available to assist customers with all aspects related to machine functionality.



Tel. +39 - 045 6862899

From Monday to Friday, 7.30-18.30

Saturday 8.00 - 12.00

(UTC +1 CET – Central European Time)

Maintenance

Donatoni's ordinary and extraordinary maintenance service is entrusted to our specialized technicians, who ensure long-term reliability and efficiency of our customers' machines, both in Italy and abroad.

Our highly qualified experts are trained to quickly identify and resolve faults, optimizing response times and ensuring longer life for machines and systems.

Whatsapp: + 39 0457740052

Telegram: @donatonimacchine_bot

Installation and more

Donatoni Service is not only support—it also includes installation, commissioning, and training on machines and systems.

Our highly qualified technicians assist customers through every phase, ensuring a smooth start-up and providing comprehensive training to guarantee optimal and independent use of the technologies.



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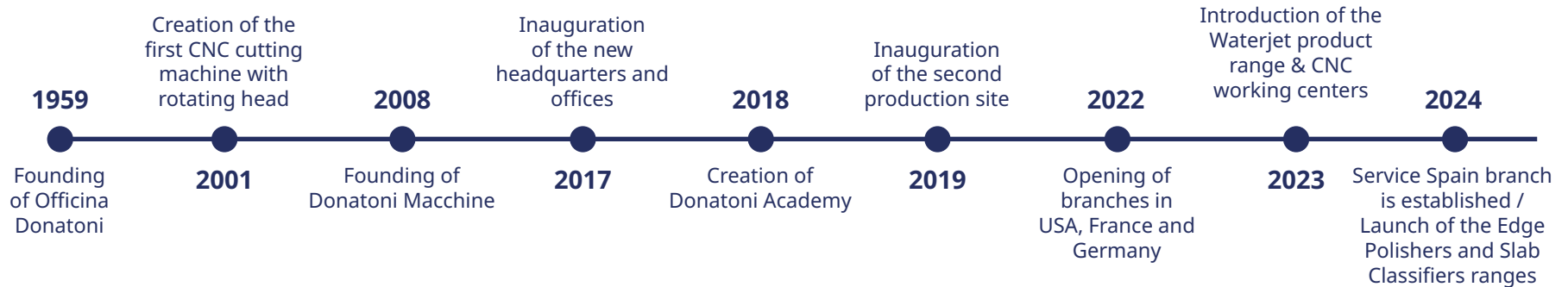
Donatoni Group

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 modifications to its machines that it deems, at its sole discretion, to be improvements. Therefore, all information, data, or images included in this catalog are for indicative purposes only and in no way constitute a contractual commitment by Donatoni Machine Srl.

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