







QUALITY AND FINISH WITHOUT PREDECESSORS

The **DONATONI D725** is a **5/6** axis interpolated milling machine particularly flexible, suitable for the production of different types of products such as kitchen tops, bathroom tops, shower trays, engravings, bas-reliefs and various coatings for the building industry.

It is a machine that allows a wide range of processes, from cutting, to milling, drilling, shaping and, thanks to the countless accessories, it is possible to carry

out these operations simultaneously without moving the piece from the bench or prolonged machine stops. **DONATONI D725** is suitable for those in need of power, high output and small footprint. The different levels of customization of the machine make it possible to satisfy the most demanding customer requirements and this is made possible by the wide range of accessories available.



HIGH QUALITY OF THE MATERIALS USED



EXTREMELY FLEXIBLE



WIDE RANGE OF ACCESSORIES AND CONFIGURATIONS



PRECISE FOR A PERFECT RESULT



SIMPLE AND QUICK TO PROGRAM



WIDE RANGE OF PROCESSES



REDUCED DIMENSIONS









PROCESSING

Kitchen tops, bathroom tops, floors, panels for exterior and interior cladding, stair steps, window frames, shower trays, building products, artefacts for funerary art.



















- / 5/6 INTERPOLATED AXES
- Z-AXIS STROKE: 550 MM
- / DIAMETER MIN / MAX DISKS: 350-725 MM
- / MAXIMUM CUTTING DEPTH: 250 MM
- / STEEL BRIDGE WITH NEW REINFORCED STRUCTURE FOR GREATER STABILITY
- / MOVE-SYSTEM SUCTION HANDLING SYSTEM
- / MAXIMUM LIFTING WEIGHT WITH SUCTION CUPS: 500 KG
- / AUTOMATIC, CENTRALISED GREASE-LUBRICATION OF SLIDING GUIDES
- / BRUSHLESS MOTORS AND HIGH-PRECISION GEARBOXES CONTROLLED BY INVERTER FOR X-Y-Z AXIS SLIDING

TYPES OF WORKING













ORTHOGONAL CUTS UP TO 250 mm



STRAIGHT, CONCAVE, CONVEX, ARCHED, ELLIPTICAL SHAPES



OBLIQUE CUTS



CIRCULAR CUTS

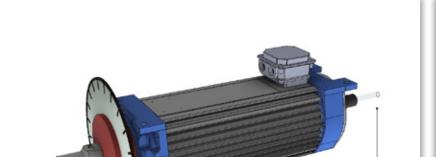


EXCAVATION OF TWO-DIMENSIONAL AND THREE-DIMENSIONAL SECTION BLOCKS



High quality electro-spindles controlled by an inverter allowing the adjustment of the nr. of revolutions from 0 to 5500/7500 rpm, so granting the use of blade and diamond tools such as a core drill or milling cutter. The tool change is of automatic or manual type.

water outlet



water inlet **Electric panel** cooled by air conditioner to keep the temperature constant during hot periods or in areas where temperatures are always high.





Control console: mounted on a double-articulated arm, with manual controls, a 21" colour touch screen display, a keyboard and a USB port for importing DXF files



Sliding front safety guards with locking system: have a small footprint and allow maximum visibility of the work area, while guaranteeing high safety standards.

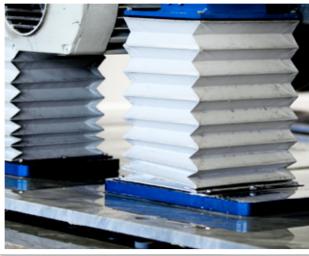


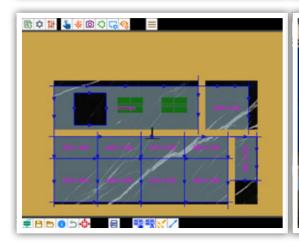


MOVE-SYSTEM

Suction cups system for the automatic lifting and positioning of cut-to-size pieces granting processing times with minimum waste. The 2 aluminum suction cups are equipped with sectors of various sizes allowing lifting operation of large and small pieces, up to a maximum of 500 kg. it can be used with blade up to 625 mm diameter.









The Move-System allows to work at the same time and in automatic mode both with a tool and blade, by moving pieces on the bench through the suction cups, with no need to switch off the machine.

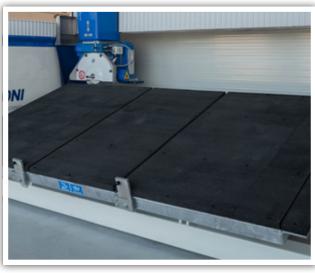
- > easy to use even for operators with no experience
- > it makes the machine totally automatic
- > piece motion without operator intervention
- > makes full use of the slab's surface
- > increase the efficiency
- > reduction of downtimes



MOVE-SYSTEM / BLADE / TOOL

Workbench available in different models, sizes and surfaces, based on the selected accessories and customer needs.





Disk presetting unit: measurement system of blade diameter



Photoslab: Plate detection system, with camera positioned above the workbench and image acquisition software. The application allows to speed up the machine programming.





Lower-Cut Group: cutting system for inserting reinforcement bars in the lower part of the kitchen tops. (the optional needs the increase of Y axis stroke length).



Tool+: vertical lateral electrospindle managed by inverter with 0-14,000 rpm, allows the operator the use of small diameter diamond tools with $\frac{1}{2}$ "gas connection for incremental cutting / blind or through hole drilling and the execution of combined operations with disk and milling cutter.





Slab thickness detector: system for automatic detection of slab thickness.



Linear tools storage: with 20 stations for ISO 40 cones of max. 600 mm, complete with pneumatic lifting stainless steel cover (only for ATC Electrospindle).



Lathe Lathe for the execution of columns, capitals and elements with circular cross-section or complex shapes (the optional needs the increase of Y axis stroke length). Max. diagonal is equal to 850 mm.





D-INSIDE:

EQUIP YOURSELVES WITH A SUPERIOR FORM OF INTELLIGENCE



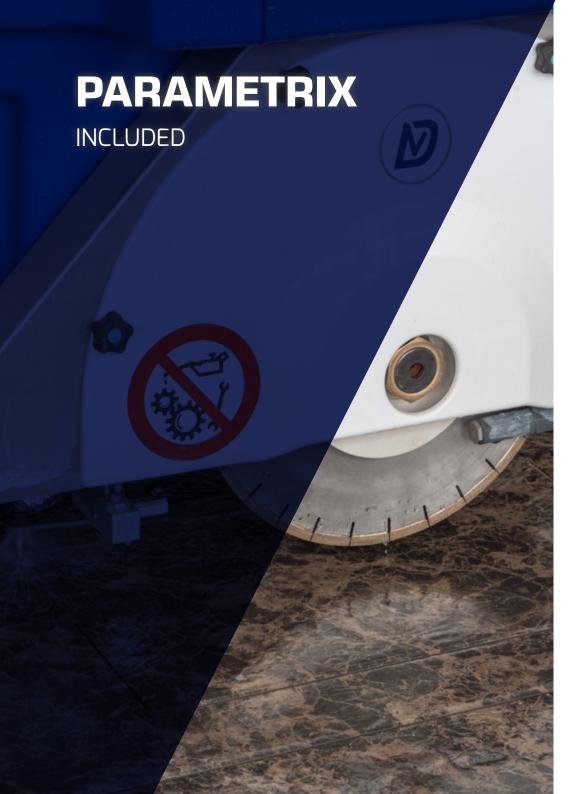


Perfect machining can only be achieved through multiple movements that need to be perfect coordinated. Just as all the movements in the human body are managed through brain impulses, similarly, the movements of our machines are managed by integrating the machine with the programming software.

Every Donatoni machine is born with an intelligent work management system, integrated with all the parts that manage its movements; we call this system **D-Inside**, the real brain of the machine. It is an advanced interface that is simple to use, even for inexperienced operators, which allows the machine-software system to be coordinated.

The D-Inside system offers many programming options and can be interfaced with the different types of Donatoni software, such as Parametrix and all the additional modules, or with CAD-CAM DDX EasySTONE, so as to customise the machine to meet the customer's requirements.

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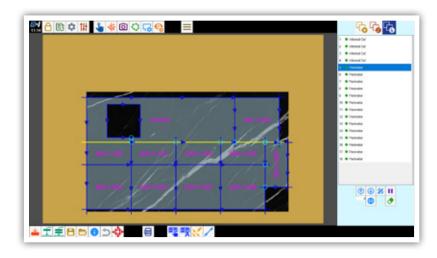


Parametrix is the **simple and user-friendly software** developed by Donatoni Macchine and conceived to **optimise the management of cutting different shaped pieces from slabs**.

It is a programme which allows you to manage cutting processes with disks, it enables input of rectilinear shapes as well as curvilinear shapes (steps, kitchen work-tops, rectangles, covers) using predefined shapes in the programme or imported from DXF files. Depending on the surface available it is possible to automatically set the position of the pieces and the sequence of cuts, optimising the times and reducing material waste.

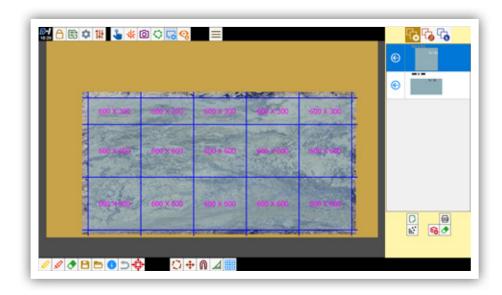
Included in the software are functions for anti-collision of pieces, manual and automatic piece nesting, book matching, managing statistics, production and orders, rendering pieces and holes.

Parametrix can be combined with Photoslab and Move-System, which allow automatic detection of the slab and movement, via a suction cups system, of the cut pieces **reducing operator intervention to a minimum**.



Nesting (included)

Automatically inserts squared or rectangular pieces in the working area optimizing the exploitation of the slab and automatically avoiding highlighted defects.



Drilling and processing with milling cutter (included)

It allows you to manage the use of tools, drills and milling cutters, with which it is possible to cut pieces or parts of the slab, to complete the initial processing with blade, such as "L-shaped" internal corners, or to make reductions for recesses. The change from disk to core during processing is automatically managed by the program.

(only for machines version tools, top, mtc, atc, and with tool+ accessory).

Positioning of the pieces on the slab (included)

With the manual nesting program it is possible to preview any collisions between parts so making easier the piece best positioning. The "magnet" function helps the operator to align the pieces one next to the other in order to reduce the number of cuts.

Managing and changing of cuts (included)

After positioning the pieces, cuts can be modified: it is possible lengthen it, to change order of cuts, to disable it, to add pauses; other types of modification before pressing the start button to process the cuts can be made.

Book matching (optional)

Starting from a project in DXF format, it allows to have a 2D image of the parts to be cut and therefore to appreciate before the cut the aesthetic result obtained by the combination of the pieces, evaluating overall and in full the "bookmatching" type processing.

Piece unloading Module (optional)

The program allows to unload the piece in a predefined area; the operator can select on the screen the cut pieces to be unloaded with the Move System of the machine (the software needs the increase of Y axis stroke length).

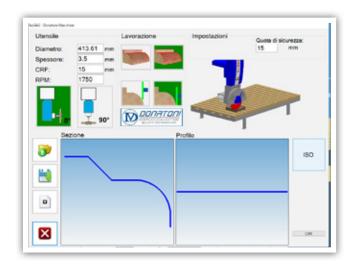
DM_TL (optional)

Program for slabs smoothing / polishing / brushing by means of plate carrying FRANKFURT abrasives.



ISOSAG is the software allowing to create files for the performance of rectilinear or concave shapes and convex arc both with vertical and horizontal blade. The shaping process can be performed both in roughing (combing) and finishing (brushing) or in combined mode.

The program is supplied with a library of profiles that can be quickly modified in size, by the machine operator and saved as a new profile.



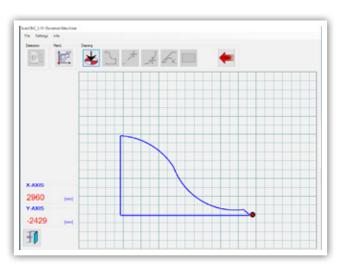




Detection system composed of a laser pointer mounted on the machine head, allowing to detect two-dimensional profiles with linear or curvilinear shape. In real time the software creates the drawing (file dxf) on the machine monitor.

Once the detection operation has been completed, the operator can:

- · Process the template on the touch screen of the machine using the optional Parametrix or Easycut, Easystone Basic or Premium.
- \cdot Store the template file in the machine's PC archive.
- \cdot Store the file on an external PC, using a USB key, to create possible processing and association with other files by using external CAD CAM software.

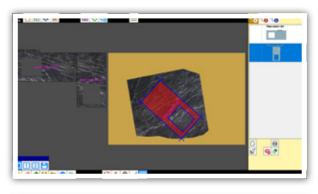


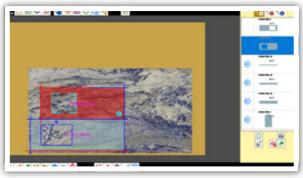


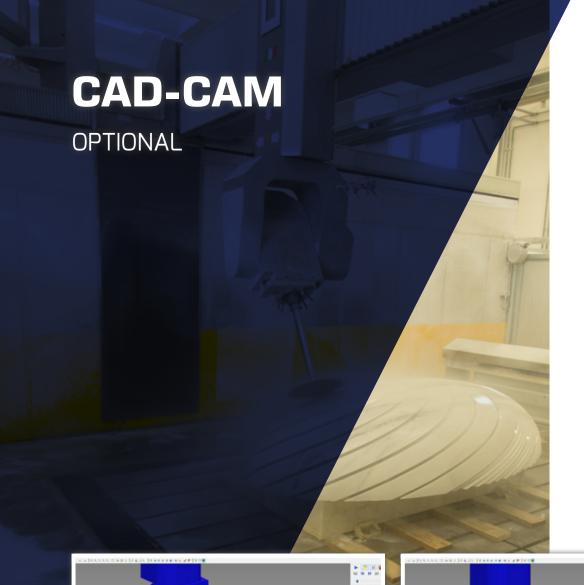
By means of a camera placed above the machine and the related record software, the slab being cut is automatically detected.

The system allows the optimization and the exploitation of the slab dimensions, the speeding of pieces positioning, avoiding possible defects or enabling to perform cuts by following the veins of the material.

The software is automaticlly enabled with installation of "camera for slabs".







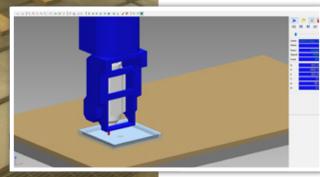
The software allows to design, import and execute 2D and 3D files in DXF, IGES, STL, PNT, STEP and RHINO formats and to define surfaces and shapes through laser scanning.

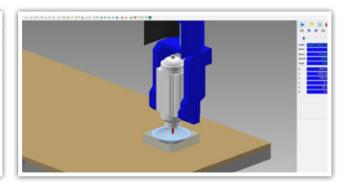
Multiple processes can be set: roughing, drilling, profiling, emptying and polishing, which can be carried out by optimizing the execution process.

After the import, the software optimizes processing paths, performs roughing / finishing taking into account the raw material resulting after processing.

With CAD-CAM it is possible to display the processing 3D image with virtual milling and to modify it if required. The 3D simulation of the processing, including free displacements, is realistic as it is based on the Customer's machine model and shows the three-dimensional model of the working center, of the bench, of the motors, the tools, the sub-pieces and the pieces .

Once the design phase is completed, CAD-CAM generates the piece-programs and sends it directly to the Customer's working center. Finally, it calculates times, lengths and processing costs, allowing accurate reporting of the work performed.







DIRECT CONNECTION WITH OUR TECHNICIANS

WORLDWIDE ASSISTANCE STRUCTURE

Donatoni is present in many countries worldwide thanks to a structure of reliable and competent partners and agents, among which the Biesse group Intermac branches.

MACHINE INSTALLATION

Our machine are installed by highly specialized technicians granting extraordinary levels of professional work. Installation includes a careful installation service, commissioning of the machine and training of operators according to the model of machine installed.

ON SITE ASSISTANCE

We provide on site assistance at the clients premises if not possible to use the Tele Assistance by modem.

Donatoni Service is the company department that is totally devoted to our customers and their needs; it provides a wide range of **services aimed at meeting our customers' all-round requirements**, before, during and after the delivery and installation of the machine and throughout its useful life.

Our highly-qualified personnel have sound experience and are capable of responding to any question or request. We use an open approach that is attentive to specific individual needs since our objective is

DIRECT CONNECTION - ON-LINE ASSISTANCE

Each machine is supplied with a system that enables it to be connected by Tele-Assistance to our After-sale service (we require connection to the network via a cable). This service enables our technical staff to virtually access the customer machine and to carry out checks, updates and to provide technical assistance as if they were there at the machine location in person.

PARTS AND REPLACEMENTS SERVICE

We handle requests for parts and replacements in any part of the world, in short time frames in order to minimise machine down-time.

CAD-CAM TECHNICAL ADVICE

we help our customers in creating and designing projects and objects.

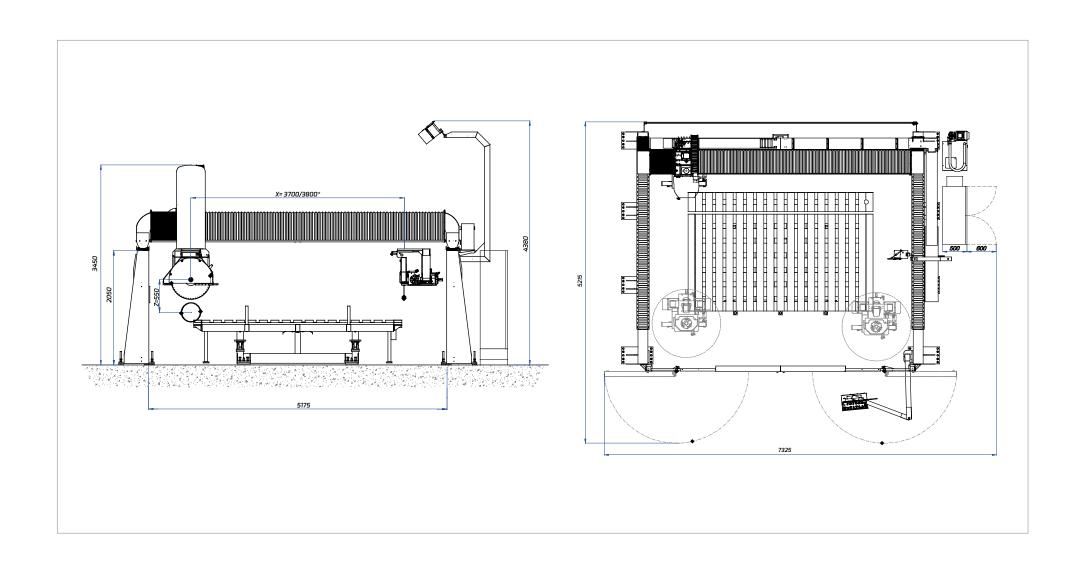
to cooperate with and support the customer in its production activities, not only through assistance but also with **technical services and advice** which allow operators to improve their know-how and enhance their production. Speed, reliability and professionalism are the strengths that allow us to ensure an efficient response to your requests; our Service uses the latest generation communication tools and a **global network of partners** so as to provide prompt answers and solutions.

THEORETICAL/PRACTICAL TRAINING

Training courses and update courses regarding new applications and software at our offices or at customer premises. Our offices are equipped to host courses for technicians and operators. The rooms are next to the machines on display in our show room and therefore this allows tests and checks to be carried out directly on the console of the machine and the level of learning can be evaluated.



TECHNICAL DATA



DONATONI D725

Number of interpolated axes	N°	5
Carriage stroke axis X	mm	3700 3800 <i>(1)</i>
Bridge stroke axis Y	mm	2900
Vertical stroke of the head axis Z	mm	550
Disc head rotation (axis C)	degrees	-5° / +365°
Disc head tilting movement (axis A)	degrees	0°/90°
Working table dimensions	mm	3500 x 2000 3800 x 2400 <i>(2)</i>
Minimum disc diameter	mm	350
Maximum disc diameter	mm	725
Max cutting depth	mm	250
Disc motor power (vs ISO 40)	kW	17,6 / 56 13 / 56
Tools rotation with inverter (opt. Tools) ISO 40 (optional)	RPM	0 / 5500 0 / 9000

mm	50
m / min	0 - 40
m / min	0-30
m / min	0 – 5
m / min	0 - 35
l / min	35
l / min	20
Volt / Hz	400 / 50
mm	625
Kg	500
Kg	3500
	m / min m / min m / min m / min l / min l / min Volt / Hz mm Kg

(1) with steel walls - (2) with MOVE System

The technical data and images in this catalog are indicative and do not constitute a constraint. The manufacturer reserves the right to make changes to the product, technical data and images without prior notice.

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Donatoni Macchine, founded by Vittorio Donatoni in 1959 in Domegliara, one of the main marble and granite processing districts, is recognised, thanks to their years of experience gained in the natural stone industry during this time, as one of the world leaders in manufacturing **cutting-edge machines** of very high quality for working stone.

Constant research, technological innovation and customer service are key concepts for the company and in order to pursue them the company employs highly qualified technical and commercial personnel, in order to guarantee the end customer a product that reflects their expectations in terms of quality and performance.



