





JET / 03



UNPRECEDENTED QUALITY AND FINISH

The **JET 625 CNC** is a **5 interpolated axis** simple and compact bridge cutter, ideal for the production of kitchen tops, vanity tops, shower trays and claddings for the building industry in marble, granite and artificial stone. It allows to perform several types of processing such as orthogonal cuts up to 200 mm thickness, oblique, circular, elliptical, inclined, togheter with milling, drilling and straight, concave, convex, arched or elliptical shapes. The "Tools" version, equipped with inverter-controlled electro-spindle, is fitted with diamond tools, such as an end mill, excavation wheel and horizontal blade. Thanks to X and Y axes sliding

system on linear guides with recirculating balls and racks with hardened and ground steel teeth both with automatic centralized grease lubrication, the **JET 625 CNC** allows to obtain finished products extremely fine and precise

The motion is given by brushless motors coupled to high precision gearboxes.

It is supplied complete with a series of optional and hot-galvanized monoblock structure that does not require foundations, allowing installation and start-up in a very short time.



COMPLETE SOLUTION



EXTREMELY COMPACT



PRECISE CUTS AND SHAPES



SIMPLE AND QUICK TO PROGRAM



WIDE RANGE OF PROCESSING



NO NEED OF FOUNDATION



EASY TO TRANSPORT AND TO ASSEMBLY







/ JEI / U3



PROCESSING

Kitchen tops, vanity tops, floors, panels for external and internal claddings, stairs steps, window frames, shower trays, building products.

















/ JEI / U/



- / 5 INTERPOLATED AXES
- / Z-AXIS STROKE: 400 MM
- / BLADE DIAMETER MIN / MAX: 400-625 MM
- / MAXIMUM CUTTING DEPTH: 200 MM
- / MOVE-SYSTEM SUCTION CUPS MOTION SYSTEM
- / MAXIMUM LIFTING WEIGHT WITH SUCTION CUPS: 300 KG
- / AUTOMATIC CENTRALIZED GREASE-LUBRICATION OF SLIDING GUIDES
- / NORMALIZED, SANDBLASTED AND PAINTED STEEL STRUCTURE
- / BRUSHLESS MOTORS AND HIGH-PRECISION GEARBOXES CONTROLLED BY INVERTER FOR X-Y-Z AXIS SLIDING

TYPE OF PROCESSING













OBLIQUE CUTS

STRAIGHT, CONCAVE, CONVEX, ARCHED, ELLIPTICAL SHAPES



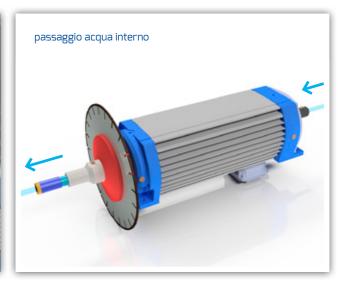




High quality electro-spindles controlled by an inverter allowing the adjustment of the nr. of revolutions from 0 to 5500 rpm, so granting the use of blade and diamond tools such as a core drill or milling cutter. The tool change is of manual type.







Monoblock structure composed of supporting walls and supporting beams of the tilting bench, all in sandblasted steel and painted in triple layer with normalized structure.









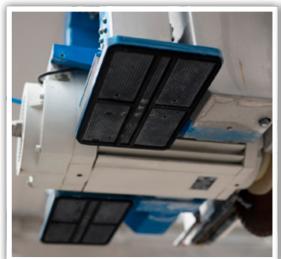
The Move-System allows to work at the same time and in automatic mode both with a tool and blade, by moving pieces on the bench through the suction cups, with no need to switch off the machine.

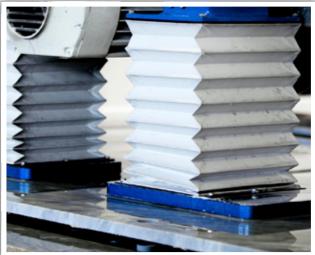
- > easy to use even for operators with no experience
- > it makes the machine totally automatic
- > piece motion without operator intervention
- > makes full use of the slab's surface
- > increase the efficiency
- > reduction of downtimes

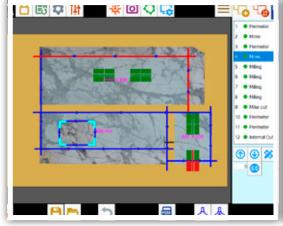


MOVE-SYSTEM

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 300 kg. it can be used with blade up to 525 mm diameter.









Blade presetting unit: measurement system of blade diameter.





Slab thickness detector: system for automatic detection of slab thickness, for use with a max. 525 mm. blade diameter.



Front and rear guards: front and rear protections with double locking allen key system. The closures have the possibility of folding opening so allowing a smaller footprint.



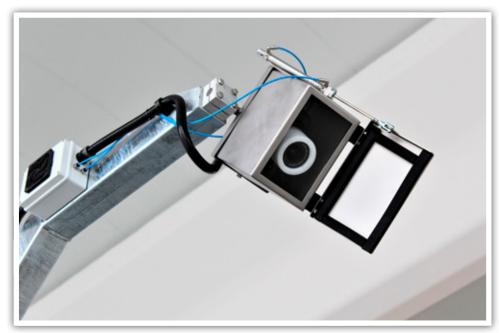
Laser marking

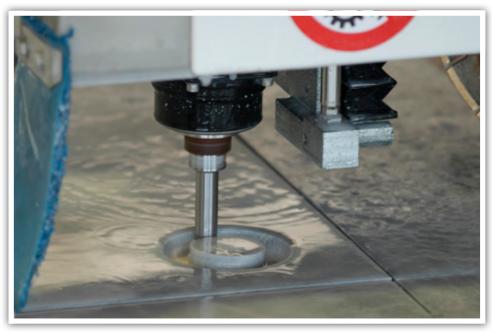




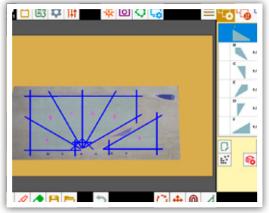
Photoslab: slab detection system, with camera placed above the working bench and image acquisition software. The application allows to speed up machine programming, pieces positioning and slabs defects detection.

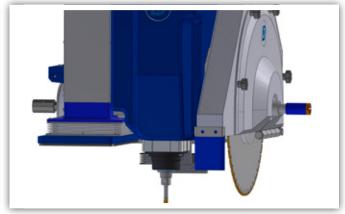














/ JEI / 15



D-INSIDE:

EQUIP YOURSELVES WITH A SUPERIOR FORM OF INTELLIGENCE



OPERATOR INTERFACE WITH PC AND 15" VIDEO

COLOUR TOUCH-SCREEN

PRECISION OF MOVEMENTS WHICH ENABLES COMPLEX AND INTRICATE PROCESSING

USB PORT FOR TRANSFERRING FILES

CONTROLS FOR MANUAL MOVEMENT OF AXES



Perfection in the machining is achieved through multiple movements that need perfect coordination between them. While in the human body all movements are managed through brain impulses, similarly in our machines the management of movements takes place through the integration of the machine with the programming software.

Every Donatoni machine is born with an intelligent work management system, integrated with all the parts that manages its movements; we call this system **D-Inside**, the real brain of the machine; it is an advanced but simple interface in terms of its usability, even for inexperienced operators, which enables the machine software system to be coordinated.

The D-Inside system offers many programming options and can be interfaced with the different kinds of Donatoni software, such as Parametrix and all additional modules, or the CAD-CAM DDX EasySTONE, in such a way as to make it possible to adapt the machine in the best way to suit the requirements of the customer.



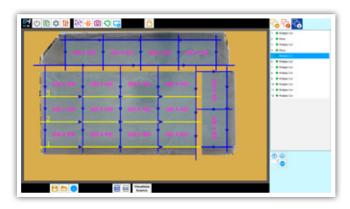
Parametrix is the **simple and user-friendly software** developed by Donatoni Macchine and conceived to **optimise the management of cutting different shaped pieces from slabs**.

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 pre-defined 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.

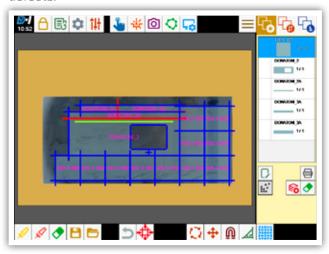
Included in the software are functions for anti-collision of pieces, manual and automatic piece nesting, book matching, managing statistics, production and orders, rendering pieces and holes.

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 disc 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)

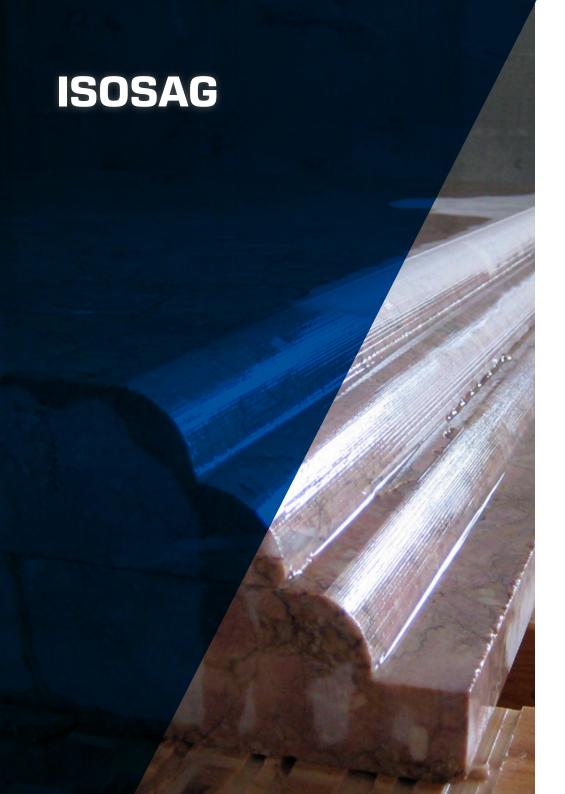
Starting from a project in DXF format, it allows to have a 2D image of the parts to be cut and therefore to appreciate before the cut the aesthetic result obtained by the combination of the pieces, evaluating overall and in full the "bookmatching" type processing.

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).

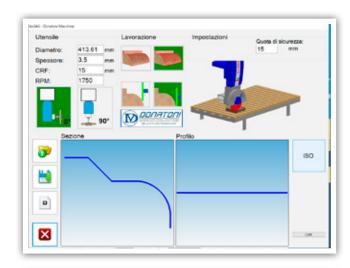
DM_TL (optional)

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.



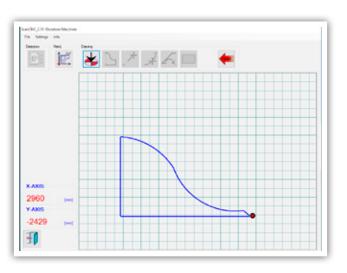




Detection system composed of a laser pointer mounted on the machine head, allowing to detect two-dimensional profiles with linear or curvilinear shape. In real time the software creates the drawing (file dxf) on the machine monitor.

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.

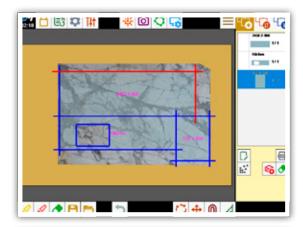


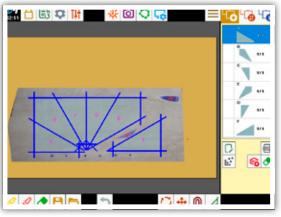


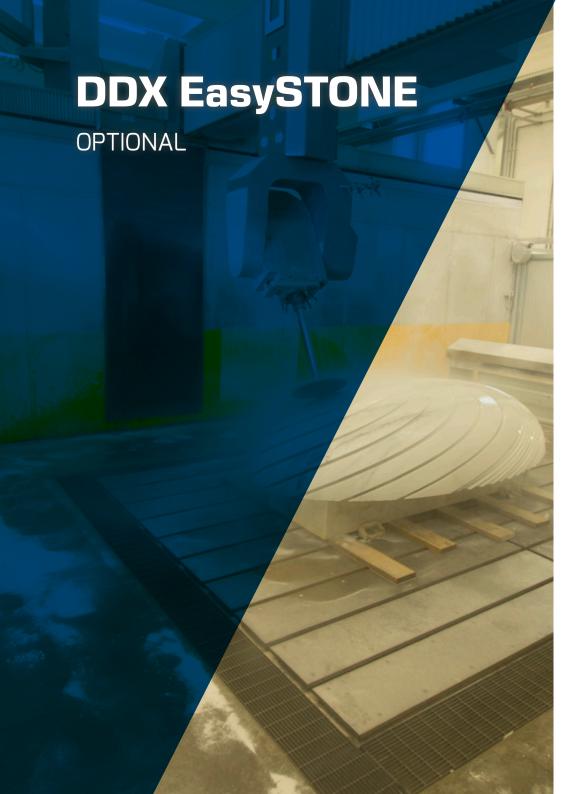
By means of a camera placed above the machine and the related record software, the slab being cut is automatically detected.

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".







DDX Easystone is powerful, simple and intuitive CAD / CAM software for machines Donatoni.

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.

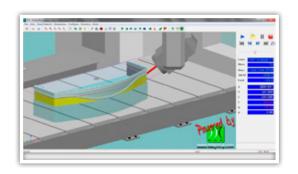
Multiple processes can be set: roughing, drilling, profiling, emptying and polishing, which can be carried out by optimizing the execution process.

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

With EasySTONE 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, EasySTONE 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.





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DIRECT CONNECTION WITH OUR TECHNICIANS

The commitment to our Customers continues even after delivery of the machine, offering a service of support and aftersales service of utmost quality. For Donatoni Macchine the best service is to supply efficient and long-lasting machines which require little maintenance and aftersales assistance.

We believe that the added value that we can offer customers is a series of services including technical advice and support and training activities for operators regarding technical aspects or the software.

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.

CAD-CAM TECHNICAL ADVICE

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

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.

EXTENSIVE SALES AND 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.

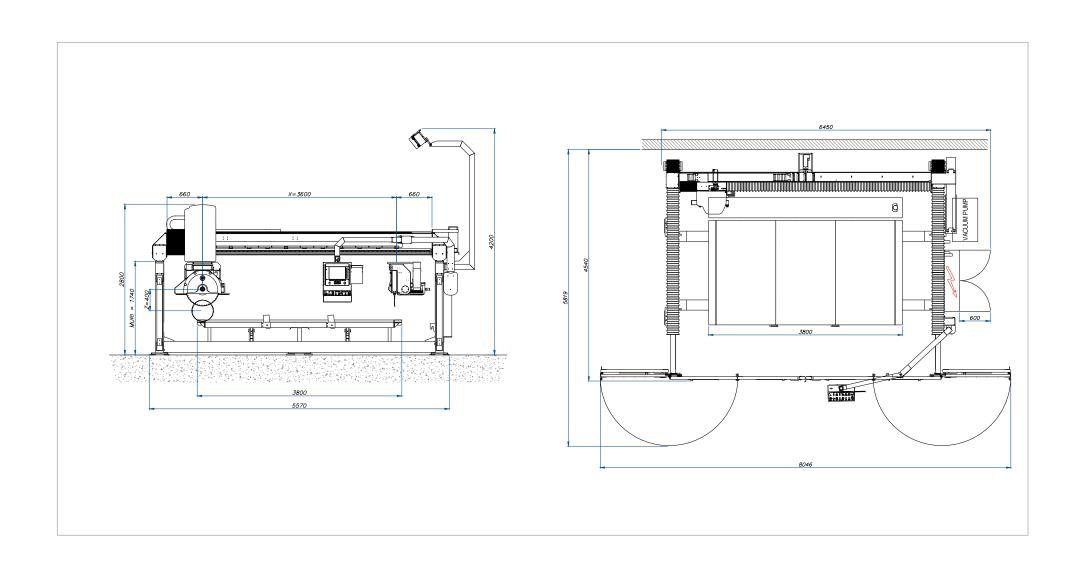
THEORETICAL/PRACTICAL TRAINING

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.



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TECHNICAL DATA



JET

Number of interpolated axes	N°	5	Tools rotation with optional TOOLS	rpm	0 / 5500
Carriage stroke axis X	mm in	3600 141,7	Disc motor shaft diameter	mm in	50 1,9
Bridge stroke axis Y	mm in	2650 104,3	Max speed axis X	m / min ft / min	0 – 40 0 – 131,2
Vertical stroke of the head axis Z	Mm in	400 15,7	Max speed axis Y	m / min ft / min	0 – 30 0 – 98,4
Disc head rotation (axis C)	degrees	-5° / 365°	Max speed axis Z	m / min ft / min	0 – 5 0 – 16,4
Disc head tilting movement (axis A)	degrees	0 / 90°	Adjustable cut feeding speed	m / min ft / min	0 – 25 0 - 82
Working table dimensions	mm in	2400 x 3800 94,4 x 149,6	Water consumption (3 bar)	l / min gal / min	35 9,2
Minimum disc diameter	mm in	400 15,7	Air consumption	l / min gal / min	20 5,2
Maximum disc diameter	mm in	625 24,6	Standard voltage	Volt / Hz	400/50
Max cutting depth	mm in	200 7,87	Max Disc with suction cups (stroke 195 mm)	mm in	525 20,6
Electro spindle motor power	kW Hp	13 / 56 17,4 / 56	Total weight max lifting with suction cups	Kg lb	300 661,3
Disc rotation with inverter	rpm	0 / 2400	Approx total weight of the machine	Kg lb	5000 11023

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.

NOTE

NOTE

NOTE

ALL IN ONE



THREE EXCELLENCES, ONE PARTNER.

INTERMAC

Three leaders in the stone machining sector, combine skill, technology and a widespread distribution network to support customers in the creation of the intelligent factory, elevating the service provided in order to ensure 360° customer care.



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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.



www.donatonimacchine.eu