

QUADRIX XL 1600

CNC CUTTING CENTER



DONATONI
HIGH INNOVATION STONE MACHINES

Highest quality For your skill

THE SOLUTION FOR GREAT CHALLENGES

QUADRIX XL 1600 is a 5 interpolated axes CNC cutting and shaping centre with Z-axis stroke of 1000 mm, rotating blade head swiveling from -5° to $+545^{\circ}$ degrees and tilting from 0 to 90 degrees, to perform orthogonal cuts up to 635 mm, for the execution of marble, granite and sintered stone works of middle and large dimensions.

It is suitable for oblique, circular, elliptical, inclined cuts, rectilinear, concave, convex, arched, elliptic shapes, excavations of two-dimensional and three-dimensional slabs.

Electro-spindles with high quality produced in Italy, with adjustment of the nr. of revolutions, blade head rotating from -5° to $+545^{\circ}$ degrees and inclinable from 0 to 90 degrees, mounted on steel carriage.



Sliding cross-beams and bridge with linear bearings and helicoidal-teeth racks for the X and Y axis, with oil bath lubrication and bellows for protection with labyrinth closure.



Disk diameter of 1600/2000 mm for cutting up to 635 mm depth on marble and granite.



Head up-down sliding (Z axis) on recirculating linear ball guides with ACS safety system.



PROCESSING



SOFTWARE

PARAMETRIX

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 allows you to manage different kind of cutting processes using predefined shapes in the programme or imported from DXF files and automatically to set the position of the pieces and the sequence of cuts, optimizing the times and reducing material waste.



ISOSAG

The software allows 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.



SCAN CNC

Detection system composed of a laser pointer mounted on the machine head and a software integrated with Parametrix, allowing to detect two-dimensional profiles with linear or curvilinear shape, create the drawing (file dxf) on the machine monitor and reproduce automatically the file.



PHOTOSLAB

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.



TYPES OF PROCESSING



INCLINED CUTS 0-90°



ELLIPTICAL CUTS



LONGITUDINAL CUTS



SHAPES



OBLIQUE CUTS



CIRCULAR CUTS



CROSS CUTS

Max number of interpolated axes	N°	5	Max cutting depth	mm in	635 (800 optional) 25 (31,5 optional)
Carriage stroke axis X	mm in	3700 145,6	Electrospindle power	kW	35 / 56 (46 / 56 optional)
Bridge stroke axis Y	mm in	3000 118	Disk rotation with inverter	RPM	0 / 2400
Vertical stroke of the head axis Z	mm in	1300 51,2	Speed of axes X- Y	m / min ft / min	0 / 40 0 / 131,2
Disk head rotation axis C	Degrees	-5° / 545°	Speed axis Z	m / min ft / min	0 / 10 0 / 32,8
Disk head tilting movement (axis A)	Degrees	0° / 90°	Water consumption	l / min gal / min	50 13,2
Maximum disk diameter	mm in	1600 / 2000 63 / 78,7	Air consumption	l / min gal / min	5 1,3
Minimum disk diameter	mm in	750 29,5	Standard voltage	Volt / Hz	400 / 50
			Approx total weight of the machine	Kg lb	12000 26455,5



Member of:



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