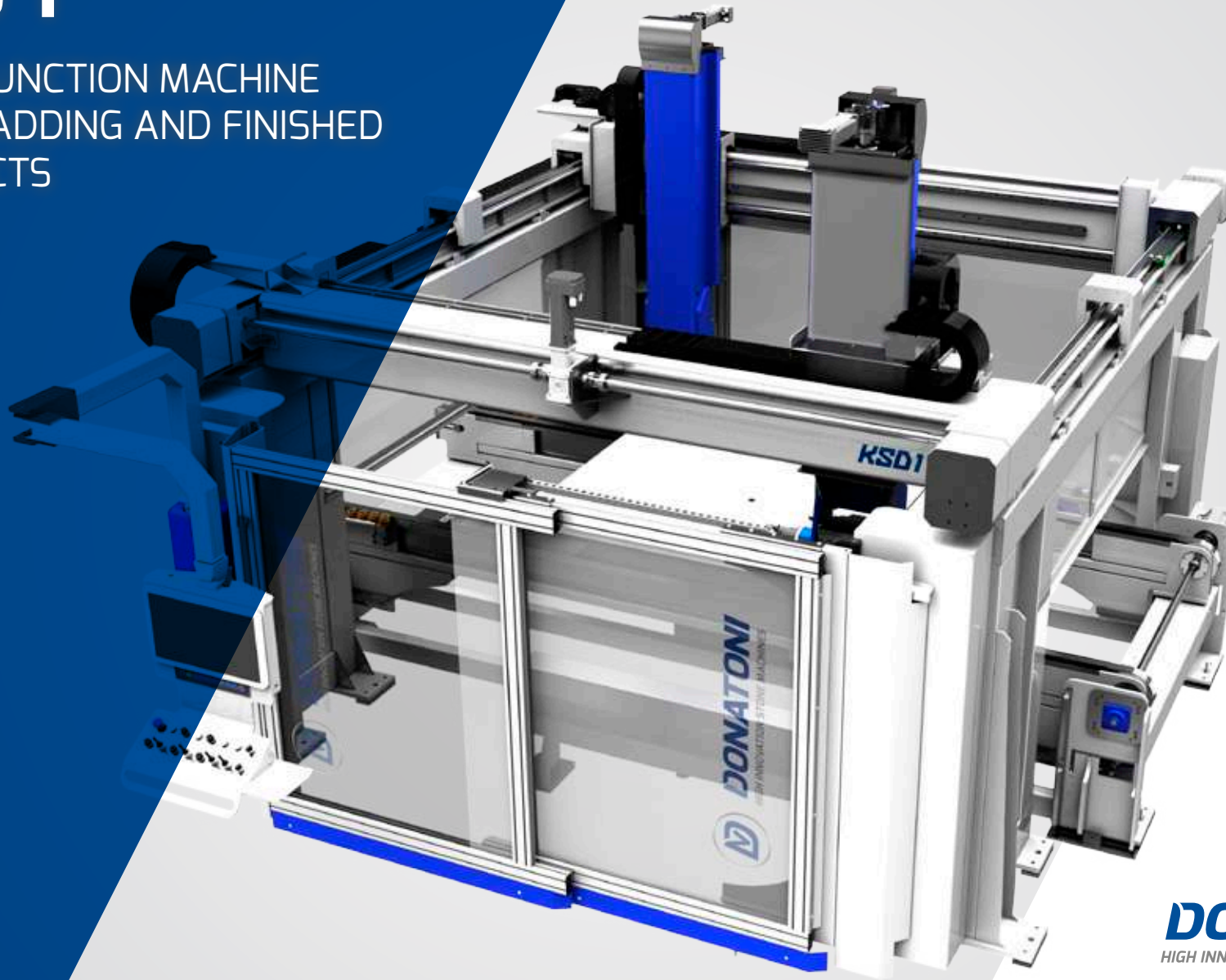


KSD 1

MULTIFUNCTION MACHINE
FOR CLADDING AND FINISHED
PRODUCTS



DONATONI
HIGH INNOVATION STONE MACHINES

Highest quality For your skill

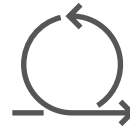
AUTOMATION FOR CLADDING PROCESSING

KSD 1 is a multifunction machine with 9 interpolated axes (4+4+1 optional) designed for drilling, milling and fixing pre-set of marble, stone and ceramic slabs, claddings and panels in curtain walls, ventilated and non-ventilated facades, in internal and external, residential and non-residential application. The machine is equipped with 2 independent bridges, each one having mounted n. 1 ISO 40 electric spindle and n. 1 tool storage with 8 positions (6 + 2 disks). Maximum slab thickness 100 mm, minimum slab dimensions 210x210 mm, maximum slab dimensions 1500x2000 mm (width x length).

Slab processing can be carried out in different ways:

- Laterally to the slab: to perform holes, milling and built-in processes;
- Above to the slab: to perform holes, reliefs, millings, rims.

ADVANTAGES



**AUTOMATION OF THE
PRODUCTION PROCESS**



**HIGH
PRODUCTIVITY**



**REDUCTION OF
PROCESSING COSTS**

MAIN FEATURES

**/ TILTING BLADE-HOLDER HEAD
FROM 0 ° - 90 °**

/ Z AXIS STROKE: 700 MM

/ MIN/MAX BLADE DIAMETER: 300 MM

/ 4+1 INTERPOLATED AXES:

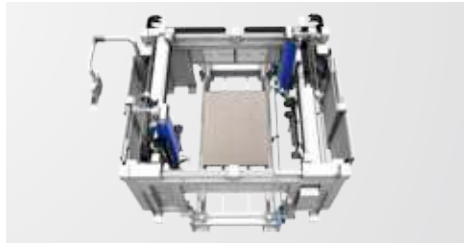
- Y, FORWARD-BACKWARD BRIDGE
- X, RIGHT-LEFT TOOL CARRIAGE
- Z, UPWARD / DOWNWARD TOOL-HOLDING SPINDLE
- A, TILTING BLADE-CARRYING HEAD
- VERTICAL INTERPOLATED LATHE

PROCESSING

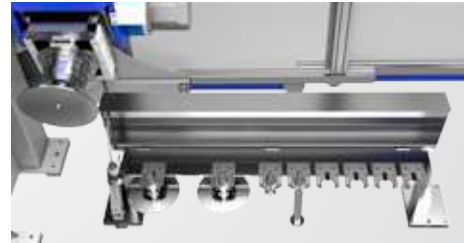


MAIN COMPONENTS

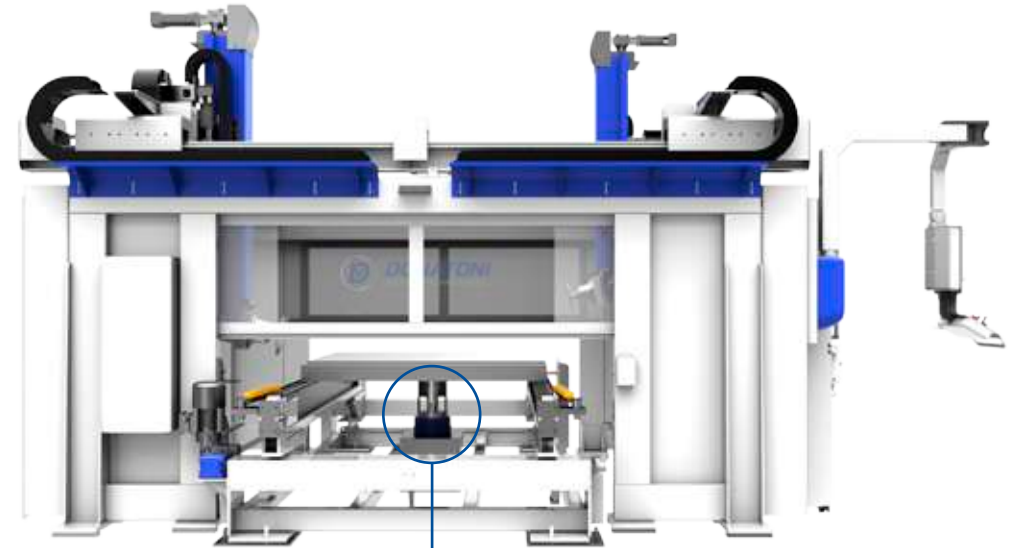
2 Bridges / Heads: 2 bridges each one equipped with n.1 ISO 40 11kW / S6 electro-spindles, controlled by inverter. C-axis electro-spindles rotation 0°-90°.



2 Tools storage: the tool holders are placed on opposite sides one to the other along the sides of the access doors. Each one is equipped with 6 tool positions and 2 blade positions (up to max. blade diameter 300 mm) and a tool presetting.



2 belts monoblock conveyor, automatically adjustable in width according to the dimensions of the piece to be processed. The open-close motion takes place through 2 guides where the belts are sliding. The belt is fitted with guiding rollers for proper alignment of the stone piece to the belts. Each belt is equipped with lateral band (such as backguard) allowing to keep the piece steady. The motion in width is given by 1 three-phase motor and the pieces are conveyed on a belt through a brushless motor.



SOFTWARE

KSD 1 is equipped with a specific software developed by Donatoni Macchine software team allowing wide range of processing to pre-set and to fix cladding and panels for external and internal applications. The software is equipped with a basic library where the different types of workings are preset, such as drilling, lowered drilling, horizontal drilling, Kerf, stubbing kerf, rounding, lowering, drip and other applications and working kits allowing to combine the tool with a specific processing. The libraries and the processing kits can be customized by the customer according to the processing to be performed; the software is furthermore integrated with an order management system allowing the operator to reduce machine downtime together with the kit management system.

TYPES OF PROCESSING



DRIP



DRILLING WITH MILLING TOOL



KERF



STUBBING KERF



45° ANGLE



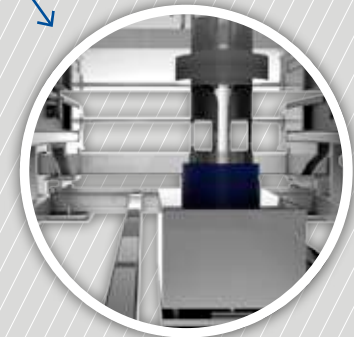
LINEAR STUBBING WITH MILLING TOOL



DRILLING WITH FLARING



STATUES



REVOLVING TABLE

Number of interpolated axes	N°	4+4+1 (opt.)
X axis Carriage stroke	mm in	2200 86,6
Y axis Bridge stroke	mm in	2600 102,4
Z axis Vertical stroke of the head	mm in	700 27,5
Disc head rotation (axis C)	degrees	0-90°
Belt conveyor dimensions	mm in	MAX 1520 – MIN. 300 59,8 – 11,8
Blade diameter	mm in	300 11,8
Max cutting depth	mm in	120 4,7
Electro spindle power	kW	11/56
Blade motor shaft diameter	mm in	50 1,9
Max speed axis X	m / min ft/min	0-40 0-131,1
Max speed axis Y	m / min ft/min	0-30 0-98,4
Max speed axis Z	m / min ft/min	0-5 0-16,4
Cutting blade water consumption (3 bar)	l/min gal/min	100 26,4
Internal water consumption (3 bar)	l/min gal/min	50 13,2
Air consumption	l/min gal/min	20 5,3
Standard voltage	V/Hz	400 (+ -10%) / 50
Approx total weight of the machine	Kg lb	6000 13227,7

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.



Member of:



CONFINDUSTRIA MARMOMACCHINE
ASSOMARMOMACCHINE

Donatoni Macchine Srl

Via Napoleone 14, 37015 Domegliara
Sant'Ambrogio di Valpolicella / Italy

Tel. +39 045 6862548

Fax +39 045 688 43 47

info@donatonimacchine.eu

www.donatonimacchine.eu