



One head multifunction machine with  
numeric control

model MONO SP

# DPR MACCHINE

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## Technical description of the machine components

The machine consists, mainly of:

**BRIDGE:** The machine consists of an electro-welded strong section bridge. In the bridge two Linear guides for disc carrying unit movement take place. Both guides are lubricated by automatic lubricating sys. The guides are protected, on all their length, with protection proofs against water and foreign bodies

infiltration. The bridge

translates on two side guides by rack and pinion system..



**POLISHING SPINDLE UNIT:** The unit consists of a carrying unit on

which a polishing spindle is located. The spindle is allowed to carry an abrasive holder plate with diameter [mm] 470 equipped with N° 7 frankfurt abrasive holders.

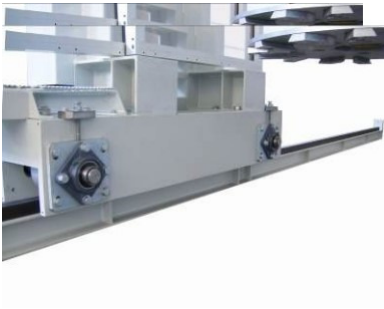
The spindle lifting/lowering movements are permitted by mean of a pneumatic cylinder. Pressure and reverse pressure are allowed and adjustable by proper device



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**SIDE TRANSLATION GUIDES:** one is a floor guide, which



allows accessing to the working table very easily. The other (opposite the main electric box) is elevated and located either



on an electro-welded support (optional) or on a concrete wall

executed by customer.

The elevated one is protected with proper protection proof.

## **CONTROL PANEL:**

It consists in an industrial PC touch-screen 12" on a windows xp pro base. Using the industrial PC it is possible, by the Ethernet Lan, (we have two entries on the PC) connect the machine to the company lan and make a remote checking from you and from our technicians. Besides we can upload the programme when we will develop new versions.

Integrated in the interface there is a detailed part for the inlet/outlet diagnostic so that the operator can check the right working of the limits devices, press button, electric valves and other parts of the machine. the big size of the display allows a easy and comfortable reading of the set up details.

The industrial PC allows, installing the right programme (cad cam), to use the machine as a profiling machine with two interpolated axis because it can read iso files and each line can be programmed. With the right tool it is possible to make special works inside the slab (special shapes, drawing and words) previously drawn by the costumer.

The machine allows four automatic working mode:

- Parametrical
- Vertical "greca"
- Horizontal "greca"
- Transversal



**SAFETY DEVICES (ONLY FOR EC MACHINES):** The machines is projected and

produced in the respect of EC rules. The machine will be supplied together with instruction and use book which is to be considering a part of machine.



TECHNICAL DETAILS

Description	m.u.	Value
Max working width	[mm]	2.100
Max working length	[mm]	4.000
Z axis travel	[mm]	300
Rails length	[mm]	7.000
Spindle motor power	[Hp ]	15
Y axis speed (bridge)	[m/min]	15
X axis speed (spindle)	[m/min]	15
Working pressure	[Bar]	0-6
Spindle rotation speed	[rpm]	350
Abrasive plate diameter	[mm]	470
Frankfurt abrasives N° in one plate	[N° ]	7
Water need	[l/min ]	40
Voltage	[V ]	400
Frequency	[Hz ]	50
Overall dimensions	[mm]	4000x2000

☞ Use and maintenance handbook conforming to EEC ☞ regulations

Maintenance spanners and standard accessories.



☞ Corrosion proofing treatment


- 1° treatment : sandblasting
- 2° treatment : rust inhibitor
- 3° treatment : first painting
- 4° treatment : durable heavy finish painting
- 5° treatment : final finished layer

☞ All stainless steel guards

Accessories on request

Code	Description	Picture
MONO-1	ABRASIVE HOLDER PLATE WITH ISO CONE FOR TOOL CHANGING DEVICE	
MONO-2	GRINDING PLATE	
MONO-3	KIT FOR AUTOMATIC TOOL CHANGING (SPINDLE + SOFTWARE + SPINDLES HOLDER STATION)	
MONO-4	TILTING TABLE WITH OVERALL DIMENSIONS ABOUT [mm] 4000x2000	
MONO-5	GRANITE SATELLITE HEAD	
MONO-6	GRANITE HEAD WITH NR. 7 SWINGING ARMS	
	ELETRO-WELDED SUPPORT FOR USEFUL	

# DPR MACCHINE

MONO-7	WORKING LENGTH OF 4 MT (FOR ONE LEG ONLY)	
MONO-8	CAD-CAM PROGRAMME FOR SHAPES DRAWING	
MONO-9	RAILS FOR 8 MT USEFUL WORKING LENGTH	
MONO-10	RAILS FOR 12 MT USEFUL WORKING LENGTH	
MONO-11	INVERTER FOR THE POLISHING HEAD	