

charlyrobot

by

MÉCA  numéric

DMC II

The mini CNC machining centre



Other products
in the CHARLYROBOT RANGE



Charly2U
Compact milling machine



Charly4U
Mini milling machine



Charly4T
CNC lathe



CAD/CAM 3D softwares

STRENGTHS

- Rigid steel/cast aluminium structure.
- Double guide grinded steel prismatic rails and preloaded ball bearings.
- Transmission by ball screws.
- Fixed table / mobile gantry kinematics
- Available in servo-brushless motorization.
- Economical version with step by step motorization.
- Design and ergonomics.
- Small footprint.
- Available with automatic tool change.
- Very high frequency spindle for machining and fine works.
- Parts held by vacuum table (option).
- ISO programming, industry standard.
- Machining of soft materials and metals.
- Quality and industrial performances of Charlyrobot machines.
- Compliant with European safety directive Machine 2006/42/CE.

Designed for fine, precise, intensive works in small formats, the CharlyDMC milling machines are used for many applications: metal engraving, fine machining, plasty, design, rapid prototyping, electronics...



Listening



Custom-made



Multi-purpose



100% integrated



DMC II

Compact CNC milling Machines.

FEATURES FOR ALL MODELS

Passage under gantry/aluminium table	175 mm
Passage under spindle nose/aluminium table	128 mm
Maximum speed (Brushless version)	X,Y,Z = 10 m/mn
Repeatability (at 20°C +/-2°), Brushless version	0,05 mm
Maximum speed (step by step version)	6 m/mn
Repeatability (at 20°C +/-2°), step by step version	0,1 mm
CN PA9000 SSD 128Go / CN Méca (16K) and machine interface touchscreen	

CHARACTERISTICS	DMC 301/303	DMC 601/603	DMC 6121/6123
X stroke	310 mm	610 mm	610 mm
Y stroke (without auto tool changer/with auto tool changer)	430 / 250 mm	600 / 420 mm	1200/1060 mm
Z stroke	120 mm	120 mm	120 mm
Table dimensions (X xY)	400 x 480 mm	710 x 640 mm	710 x 1120 mm
Maximum material width	360 mm	670 mm	670 mm
Standard motorization	Step by step (301)	Step by step (601)	Step by step (6121)
Optional motorization	Brushless (303)	Brushless (603)	Brushless (6123)
Width	700 mm	1060 mm	1975 mm
Depth	1150 mm	1620 mm	1208 mm
Height (without / with technical cabinet)	1010/1810 mm	1010/1810 mm	1010/1810 mm
Average weight (according to options without / with technical cabinet)	335/560 kg	415/680 kg	525/860 kg

High frequency standard electrospindle with continuous electronic variation of speed

Model	Rotation speed (mx)	Power S1	Power S6	Cooling system	Pneumatic needs	Tool changing	Clamp Type mm
HF 1,0 kW	24000 tr/min	1,0 kW	1,3 kW	air/fan	N/A	Manual	ER20 2-13
HF 0,5 kW	80000 tr/min	0,5 kW	-	compressed air	27 NI/min	Automatic	Pick-up
HF 0,5 kW auto	50000 tr/min	0,5 kW	-	compressed air	130 NI/min at 5 bars	Auto. ISO 10	EX11 1-7
HF 1,0 kW auto	50000 tr/min	1,0 kW	1,2 kW	liquid	60 NI/min at 5 bars	Auto. ISO 10	EX11 1-7