

Technical Features

Electronic :

- | Charlyrobot CNR3 micro-step digital control.
- | 3 to 5 interpolated electronic axes.
- | Communication: serial RS232
- | Power supply 240 volts or option 110 volts single phase + earth
- | Installed power: 2KW with HF spindle 1.1 KW.

Drive :

- | Stepped motor, micro-step management.
- | Ball screw diameter 12 mm with a thread of 5 mm on X, Y and Z.
- | Guides by prismatic rails with ball recirculation shoes on X and Y.
- | Protection of axes by lip seals on X, Y and Z.
- | Greaser on guide shoe and drive ball screw bushing.

Options :

- | Microlubrication
- | Floating suction sensor in Z, for 2D application only.
- | Standard 600 W spindle with speed converter by mecanical potentiometer on the spindle. Rotation of 8000 to 24000 rpm. Maximum tightening diameter of 8 mm.
- | High frequency spindle 1.1 KW without tool changer with electronic frequency converter controlled by potentiometer on the front panel. Rotation of 6000 to 24000 rpm, EX20 collet with maximum tightening diameter of 13 mm.
- | 4th axis (brushless).
- | Bushless servo motors with CNR3 digital control, 3 axes extensible to 5.
- | Vaccum table.

Safety :

- | Integral cover with 180° vision, very bright.
- | Compliant with the European Directive "machine n° 98/37/CE".
- | "Punch button" type emergency stop.
- | Cover opening detection.
- | Electromagnetic cover locking, controlled by the spindle.



charly4U Charlyrobot

Features

Features	charly4U
Stroke in X	310 mm
Stroke in Y	220 mm
Stroke in Z	160 mm
Table size	375 x 330 mm
Architecture:	fixed gantry with mobile table in Y
Structure:	Tack welded steel
Passage between column	450 mm
Passage under gantry	115 mm
Passage under spindle nose (1.1 KW)	165 mm
Max. speed	100 mm/s
Max. feedrate	100 mm/s
Standard Motorization	Stepper motors of 90Ncm
Resolution	0.003 mm
Repeatability	0.02 mm
Length (with cover)	620 mm
Depth (with cover)	850 mm
Height (with cover)	730 mm
Weight kg (with cover)	~81 Kg

