

# Specimen preparation



**Charly 4U and 2U, compact and easy-to-use Milling machine.** Especially fit for preparing specimen in “dogbone” shape, or any other shape, for tensile tests or other material tests.

## **ENDUTEQ**

ENDUTEQ develops automatic Test- and Measuring systems to measure movement (position, speed and acceleration), force and temperature. In close cooperation we develop tailor-made solutions for every testing challenge you may have.



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### Charly 4U and 2U, compact and easy-to-use Milling machine.

Especially fit for preparing specimen in "dogbone" shape, or any other shape, for tensile tests or other material tests.

Frame is built from a welded steel structure. With a fixed gantry and a mobile table in Y, to create a robust Milling machine. Spindle 800 W, for rotational speed from 8.000 to 24.000 rpm. Max milling tool diameter 8mm.

### Charly Graal 2D Software

2D CAD module, 2,5 axis CAM module for toolpath processing and driving module for Milling Machine. Accepts .ISO and .PCB format.

### Electronic

Charly CN3 microstep digital control; 3 interpolated electronic axes. Communication RS232.

Steppermotors, microstep management; resolution 0,003mm.

Maximum speed 100 mm/s.

Ball type linear guides and ballscrew spindles for X,Y,Z movements.

### Safety

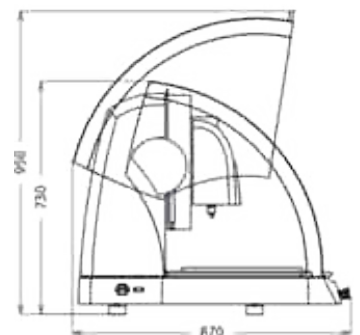
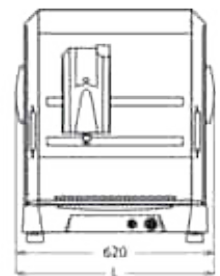
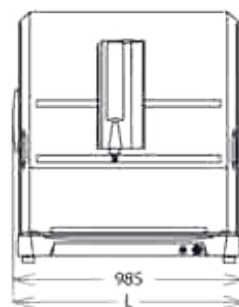
Integral transparent cover with 180° free sight.

Safety Cover is locked during operation.

Compliant with CE Machine Directive regulations.

### Options

- Floating suction sensor on Z ,for 2D application only.
- Industrial chip suction device.
- High frequency spindle 1,1 kW, for rotational speed from 6.000 to 24.000 rpm. Max milling tool diameter 13mm.
- Microlubrication.
- Vacuumtable.
- 4th rotary axis, punch height 130mm, max part diameter 200mm.



### Charly 2U

Working area 600 x 420 mm

Z-axis 280 mm

### Charly 4U

310 x 220 mm

160 mm



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