

**ROMOCUT**



**World's first**  
mobile NC modeller aid





**Clean and silent**  
**Dedicated for rapid milling of soft materials**

Specially designed for styling and design studios in the automotive industry, ROMOCUT is a NC milling tool developed by ROMER France, a leading manufacturer of portable articulated arms.

Thanks to its superb design, ROMOCUT allows designers to create new models in record times.

ROMOCUT is a Mobile Modeller Aid allowing to mill soft materials (lab, polystyrene, resins, clay and similar) or to modify and correct existing parts right on the shop floor.

ROMOCUT is easy to install and to run. It saves considerable by letting designers modify full-scale models in real time on site.

ROMOCUT is the first milling tool that delivers on the promise of providing clean, quiet operation. It creates no dust during the milling process thanks to the hollow tool and the integrated vacuum system (total efficiency with polystyrene). The noise level is kept to an acceptable 80dB or lower.

ROMOCUT doesn't require any construction work during the installation, saving you money.



- No need for construction or modifications on the installation site.



## Features:

- Quick setup, requiring only 15 minutes for referencing (one-time only) and 10 minutes for the milling tool
- Speed: traverse speed of the tool at the top of the arm limited to 6m/min, speed of the 4,5 and 6 axis of the arm limited for safety reasons
- Noise level linked to spindle speed, depth and feed rate: during roughing mode, 20 mm tool path, 10 mm pitch, it moves at 6m/min speed generating 80dB of noise at 1 m distance. Finishing mode measurements done for path of less than 2 mm
- Minimum dust during roughing and finishing modes when tools recommendations and path depths are honored
- Safety: the arm is equipped with emergency stops and with SICK sensors monitoring the working area; two operating modes: in alert mode, a signal indicates if you are too closely approaching the protected area; in emergency stop mode, entering the protected area completely shuts down the tool, with a restart possible only after clearing the protected area and conducting a process reset
- Easy installation, requiring a 3-phase outlet at 400 V $\pm$  10%; 50 Hz  $\pm$  2% (EU version) + neutral + ground, 32A outlet

## Included in the delivery

- Milling tool
- Milling head rated at 4.4 kW with adjustable speed from 2,000 – 12,000 RPM
- Tracklink: a laser tracker system, 30 m measurement volume, accuracy 0.05mm; Tracklink allows the milling arm to move around the part in the same permanent reference system; one Tracklink can monitor multiple Romocut sin the same area
- Vacuum system generating 23.5 kPa with 60 l/s capacity and running on 220 V
- Tool set of finishing milling cutters, 20 – 50 m in plus set of 50 mm ROMER roughing milling cutters
- Tool tester: probe manually used when changing the tool
- Wireless referencing probe
- Arm lifting system
- Set of two car frame supports

## Software

- Interface operator/milling arm
- PC linked to the NC milling arm via Ethernet; this software module is used for defining NC parameters for speed, acceleration and similar
- Tool path conversion module and local reference module
- Module allowing follow the move of the arm around the part: permanent calculation of the arm position in the part reference system through the measured data by Tracklink
- Module for global reference system of the part

## Technical data

- Performances
  - Milling accuracy, Path repeatability 0.12 mm.
- Area accuracy: 0.17 mm
- Compensation accuracy: theoretically 0.1 mm
- Volume capacity
  - Arm length 1,800 mm working in a hemisphere
- Weight
  - Arm 800 kg, spindle 25 kg, NC cabinet 200 kg
- Arm dimensions: 1,200 x 1,200 x 2,300 mm
- Cabinet dimensions: 1,000 x 600 x 1,300 mm



- Mobile milling tool that continuously keeps its position in the part reference system and is dedicated to milling soft materials and creation of full-scale models.



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