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CNC cutting and routing machines

MT Profi

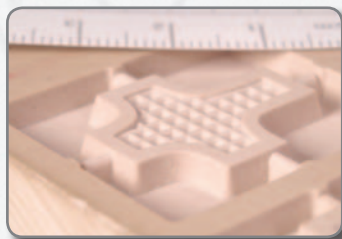
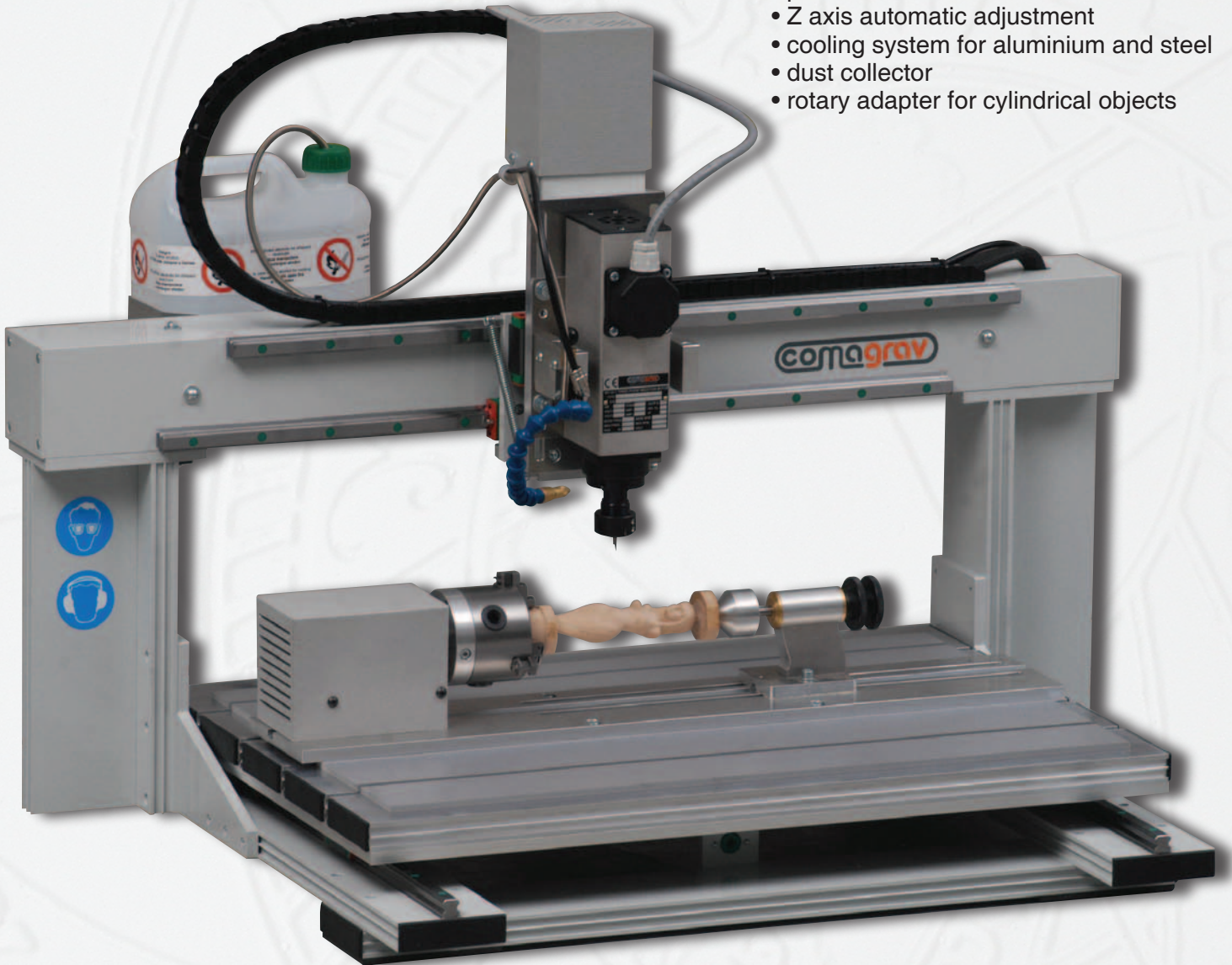
A desktop 3D CNC router

This is COMAGRAV MT Profi, a professional three-axis router. It is a desktop version of a 3D router available for engraving, modelling and scanning.



COMAGRAV MT Profi features

- routing and engraving spindle
- additional vacuum table
- 3D laser scanner
- 3D contact scanner
- professional software
- Z axis automatic adjustment
- cooling system for aluminium and steel
- dust collector
- rotary adapter for cylindrical objects





MT Profi

Introducing the smallest router machine in our CNC portfolio. MT Profi represents an ideal tool for fabrication of stamps, engraved signs and plates, and it is also useful in resin and wood 3D modelling. Connection with a Windows PC makes router operation intuitive and effortless. Spindle power of up to 550 W - unique in this category - enables effective engraving of both non-ferrous metals and steel. For this purpose, a special cooling system is included. Based on our customers' needs, the router can be equipped with other professional spindles.

Table 3D router COMAGRAV MT Profi is also suitable for teaching NC programming in schools, as students can make their own programmed models easily and quickly. Moreover, it is available with a Z axis shifting distance of up to 220 mm, thus avoiding any size limitations. The controlling unit is an open-loop controller, operating trajectories in HPGL and ISO G-code formats. As a result, router control using CAM software and graphic programmes is trouble-free.

The ballscrews guarantee modelling accuracy, convenient for goldsmiths in resin jewellery modelling. Computer design and router-aided jewellery manufacturing have become common practice.

Available on request, the rotary adapter facilitates clamping and engraving of cylindrical objects. It is also fit for modelling and scanning of cylindrical objects and statuettes.

High gantry clearance makes it possible to clamp sizeable objects such as boxes and other ready-made parts. They can be then easily inscribed using engraving, drilling, etc. The available space also enables a large vise to be applied.

An automatic Z axis sensor is included in standard equipment. COMAGRAV MT Profi is delivered with professional engraving and routing software Delcam ArtCAM Express, providing everything necessary for surface machining. Just connect it to your PC and you are ready to start. The main software characteristics include data import in EPS, DXF, DWG and AI formats, distortion detection and selection of areas by pocket machining. It is also applied to drilling and performs basic 3D machining operations. The software can be upgraded to one of the ArtCAM advanced versions: Insignia and PRO.

Controlling unit:

PILOT 3D controller for Windows XP/Vista (32 bit systems)

Drive components:

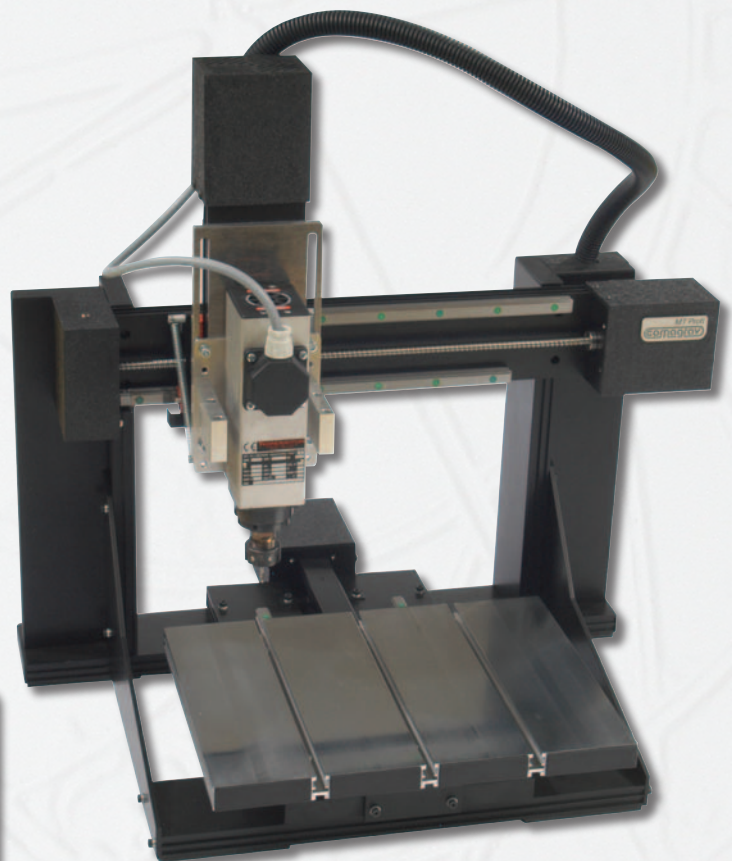
- Stepper motors
- Ballscrews in all axes
- Microstepping mechanism for stepper motors
- High-precision linear ball bearings in X, Y and Z axis

Standard equipment:

- Professional router software Delcam ArtCAM Express
- Aluminium T-slot work table
- Automatic Z axis sensor
- Emergency STOP button

Optional equipment:

- Professional router software Delcam ArtCAM Insignia
- Professional router software Delcam ArtCAM PRO
- Spray cooling system
- High-pressure vane vacuum pump and vacuum table
- Slot for dust collector
- 3D contact scanner
- 3D laser scanner
- Rotary adapter



| | Working area | Machine dimensions | Weight | Resolution | Feed rate | Z axis shifting distance | Gantry clearance | Spindle power |
|----------------------|--------------|--------------------|--------|-------------|---------------|--------------------------|------------------|------------------|
| COMAGRAV MT Profi | 320x215 mm | 70x65x69 cm | 40 kg | 0.003125 mm | 0.1 - 50 mm/s | 95/220 mm | 165/290 mm | 550 W, 24000 RPM |
| COMAGRAV MT Profi XL | 640x420 mm | 98x83x71 cm | 65 kg | 0.003125 mm | 0.1 - 50 mm/s | 95/220 mm | 165/290 mm | 550 W, 24000 RPM |