

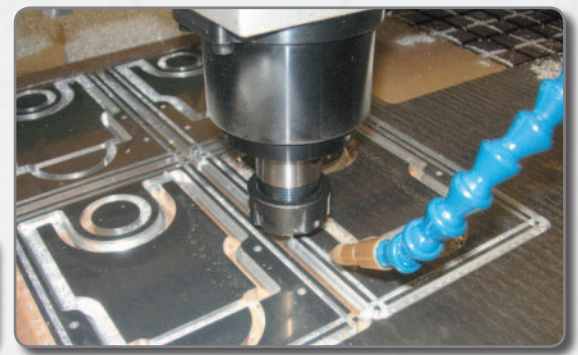


CNC cutting and routing machines

## NOTUS

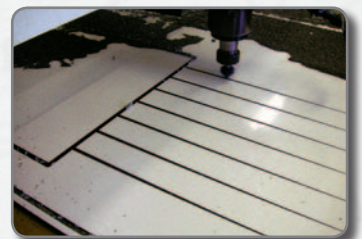
### A three-axis CNC router for large sheet work

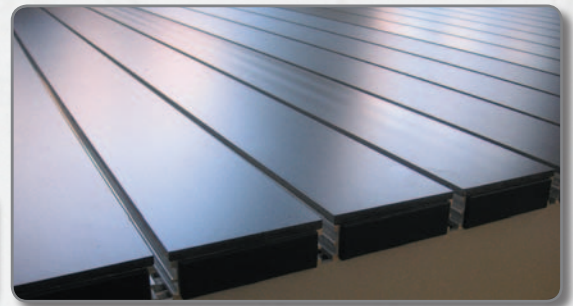
Our professional router for application in industry and signmaking is equipped with servo motors and a rigid steel frame, and offers a range of equipment options: spindles with an automatic tool changer, a variety of cutting and scanner heads, and other professional equipment is available.



### COMAGRAV NOTUS features

- AC servo motors with planetary gearboxes
- routing spindle
- automatic tool changer
- vacuum table
- oscillating knife
- Z axis automatic adjustment
- camera system for accurate positioning of print marks
- combi-head with oscillating knife and creasing wheel
- combi-head with oscillating knife and tangential knife for vinyl sheet cutting
  - 3D laser scanner
  - 3D contact scanner
  - professional software
  - cooling system
  - dust collector
  - flatness compensation





# NOTUS

COMAGRAV NOTUS is primarily a professional tool for 2D and 3D routing. The working area is designed for machining standard-size panel materials. Characterized by high rigidity, the router can be used with extremely heavy spindles. We recommend a 5.6kW spindle as standard. Its high performance is convenient for operating staff, especially in woodworking and tough plastic fabrication where high rigidity plays a significant role in extending tool durability. The planetary gearboxes are constructed for a substantially greater torque demand than those actually required by the applied motors. This only means one thing: you can be sure that COMAGRAV NOTUS will be at your service for years on end.

COMAGRAV NOTUS is a professional 3D router suitable for routing, engraving, cutting, carving, drilling, milling and creasing. It is accurate, reliable and works ceaselessly. It is a unique product, useful in many industrial spheres, including graphics fabrication and woodworking.

Our machine is fit for machining aluminium and its alloys, plastic panel separation, printed images, routing and cutting. It is also ideal for fabricating flawless 3D creations, relief lettering, effective 3D logos, inlays, etc. By mounting panel materials on the vacuum table, separation and moulding can be easily achieved. Divided into several zones, the high-pressure vacuum table holds down both small and large parts. The oscillating knife and creasing wheel, together with the camera system, help convert a router into a multifunctional plotter that can be used for cutting printed images and effective package prototyping. Without localization by means of a camera system, such a task would be virtually impossible. The processing software automatically locates reference markers on a print file and adjusts the image for any detected distortion.

The oscillating knife can also be applied to non-standard seal fabrication, and in all areas where strenuous manual cutting proves ineffective and where precision and reproduction are necessary. All COMAGRAV machines work in 3D as standard. NOTUS features a high-performance 3-axis tool PILOT, designed for smooth axis movement. High accuracy of router positioning and very good repeatability are the main characteristics of our first-rate machines, developed for quality production.

### Controlling unit:

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

### Drive components:

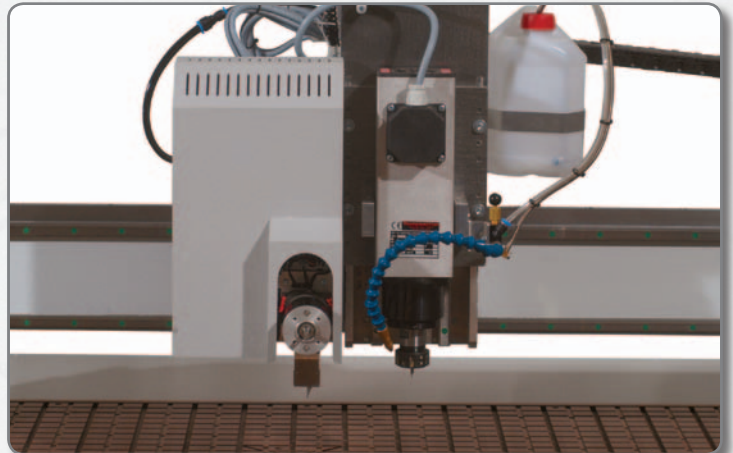
AC servo motors in all axes including carousel tool changer  
Planetary gearboxes and rack and pinion drive system in X and Y axis  
Ballscrew in Z axis  
High-precision linear ball bearings in X, Y and Z axis

### Standard equipment:

Professional router software Delcam ArtCAM Express  
T-slot work table  
Automatic Z axis sensor  
Emergency STOP buttons  
Spindle-weight air compensation

### Optional equipment:

Professional router software Delcam ArtCAM Insignia  
Professional router software Delcam ArtCAM PRO  
4.6kW 24000 RPM ISO 30 spindle with pneumatic clamping  
8.0kW 24000 RPM ISO 30 spindle with pneumatic clamping  
1.5kW 40000 RPM ISO 20 spindle with pneumatic clamping  
6.5kW 40000 RPM HSK 32 spindle with pneumatic clamping  
8-tool carousel storage for automatic change  
Spray cooling system  
High-pressure vane vacuum pump and vacuum table  
Slot for dust collector  
Industrial dust collector  
3D contact scanner  
3D laser scanner  
Electric oscillating tangential knife  
Pneumatic oscillating tangential knife  
Combi-head: oscillating knife + creasing wheel  
Combi-head: oscillating knife + tangential knife for vinyl sheet cutting  
Camera system for print marks  
Front panel control of vacuum zones  
Flatness compensation



	Working area	Machine dimensions	Weight (depending on equipment)	Resolution	Feed rate	Z axis shifting distance	Gantry clearance	Spindle power
<b>COMAGRAV NOTUS 1600</b>	2100 x 1600 mm	2630 x 2100 x 1370 mm	750 kg	0.01 mm	0.5 - 500 mm/s	130 / 175 mm	150 mm	5600 W, 24,000 RPM
<b>COMAGRAV NOTUS 3000</b>	2100 x 3200 mm	2630 x 3750 x 1370 mm	950 kg	0.01 mm	0.5 - 500 mm/s	130 / 175 mm	150 mm	5600 W, 24,000 RPM
<b>COMAGRAV NOTUS 4000</b>	2100 x 4200 mm	2630 x 4750 x 1370 mm	1200 kg	0.01 mm	0.5 - 500 mm/s	130 / 175 mm	150 mm	5600 W, 24,000 RPM