

COMAGRAV manufactures 3 types of routers that differ in design and performance. A team of experts on the development and use of CNC routers combine their expertise in the production of standardized and tailored machines - the machines are equipped with features according to your specific production requirements. Since multifunctionality is our philosophy, you only need one machine to route, engrave, cut with a knife or crease.

COMAGRAV NOTUS PLUS

Top-of-the-range heavy duty CNC routers for professionals. Exceptional-performance servo drives and quality without compromise. COMAGRAV NOTUS PLUS is a richly equipped device with maximum dynamism and superior cutting quality.

- COMAGRAV NOTUS PLUS is designed for milling plastic, wood, aluminum alloys, steel and sandwich composites.
- A high-performance oscillating knife cuts foam, sealing materials, corrugated cardboard, paperboard, rubber, and other materials with specific properties.
- COMAGRAV NOTUS PLUS benefits from its steel base manufactured by precision welding of thick steel profiles which guarantees excellent rigidity and stability in machining. With weld stress relieved in the steel chassis, the machine geometry remains unaffected by external conditions for all its service life and there is no resonance of the frame during machining. The bed for linear guide and positioning mechanism is milled into the frame, and a flat surface for work desk mounting is machined.
- We produce NOTUS PLUS CNC router in special series with composite gantry made of carbon fibres. With this newest technology the router reaches extreme dynamics, which is significantly beneficial when cutting with MULTI heads.

COMAGRAV NOTUS

Professional CNC routers with multifunctional equipment

- COMAGRAV NOTUS is designed for woodworking jobs, aluminum, steel and tough plastic fabrication
- With the cutting head, NOTUS becomes a true multifunctional device - with a blade, it covers a huge amount of workable materials that cannot be split by milling.
- Servo motors are the perfect driving force of this professional modular system.

COMAGRAV ZONDA

A range of CNC routers with outstanding utility value

- COMAGRAV ZONDA is the basis of our wide range of CNC machines
- These are professional large-area milling machines with rigid steel structure.



Composite gantry made of carbon fibres for extremely fast cutting



also produce and supply for you

CUTTING SYSTEMS



SPECIAL CUSTOM MACHINES



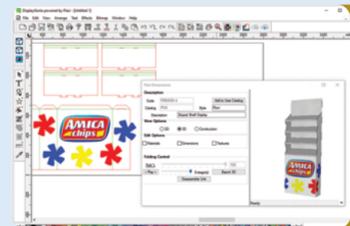
CNC ENGRAVING AND DESKTOP MACHINES



MILLING TOOLS AND KNIVES FOR DIGITAL SYSTEMS



GRAPHIC, PACKAGING AND CAD/CAM SOFTWARE

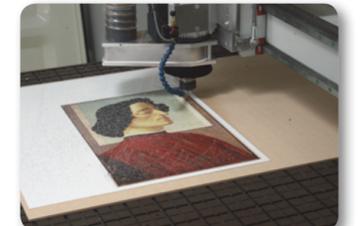


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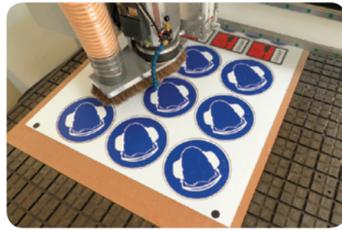
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CNC ROUTERS



MULTIFUNCTION IN THE BEST QUALITY



Camera system for printmarks



Automatic Z sensor



Control panel for serial production

COMAGRAV CNC routers are equipped with modern devices for routing, cutting, creasing and more. The most popular equipment options include a 9 kW routing spindle with pneumatic tool clamping and storage for automatic tool change. Standard linear storage helps save overall dimensions and reduce costs. Optional carousel tool storage does not block the area at the back of the machine, thus allowing materials exceeding the work table length to be inserted. As moving across the whole area of the work table is not required for every tool change, tools stored in carousel are easily accessible.

Its large working area and short Z-axis shifting distance make a standard CNC router a natural choice for routing panel materials.

COMAGRAV offers 140 mm gantry clearance as standard, which makes it ideal for 3D machining and model making.

Needless to say, all COMAGRAV machines work in 3D. As a result, COMAGRAV routers can be used for routing solid timber reliefs, MDF and resin models, foam cuttings, polystyrene facade decorations and more.

In the production of bespoke printed graphics, a camera system is a must-have equipment option. It ensures precision cutting in the designated area. This makes the COMAGRAV system a universal tool for Print & Cut. If you are considering purchasing a digital flatbed printer, a CNC router by COMAGRAV is a natural complement.

COMAGRAV collaborates with many different RIP and graphic software vendors, so cutting data preparation is a simple process. Add a barcode reader and operator cannot mismatch print and cut data.

COMAGRAV CNC routers become a multifunctional device thanks to the optional MULTI head. It is placed beside the spindle and offers place for two random modules for cutting and creasing. Camera system is part of the MULTI option.

Modules are easily replaced and combined. It is also possible to install machine without modules and install them later. The machine is fully upgradeable to new technologies!

The most popular module that we install is the oscillating knife, which excels in cutting foam, rubber, corrugated cardboard and paperboard and enables custom seal fabrication. Its 8 mm shifting distance and frequency of 9,000 strokes per minute guarantees admirable performance. A high-pressure vacuum table is used for cutting, which is the same table used for routing, only here a professional cutting mat is added, ensuring that no motion of material occurs during cutting.

Module for U1 universal tools holds a wide range of tools that are quickly inserted by hand. This is where flat knives can be used to cut lot of thin materials (PE, PVC, paper, cardboard, etc.), soft foams and mineral wools quickly and without oscillation.

U1 tools include Kiss-cut for cutting foils or V-cut. V-cut is suitable for re-boards, X-boards, Falconboards, Kapa and similar boards, which can then be bent. This can create impressive P.O.P. and P.O.S. creations.

Other U1 tools are creaser wheels for both thin cartons and thick corrugated cardboard. Creasing allows the user to make one-off packages and prototype them before making the cut.

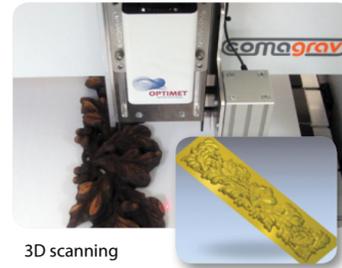
For the production of fibrous materials such as fabrics, banners, textiles, etc., we install a motorized cutting disc module that cuts these materials safely and well into the shapes they need.

The machine can be equipped with pneumatic pins to facilitate material loading in large-scale production.

For COMAGRAV routers, we also offer 3D modeling equipment, especially the 4th axis rotary adapter and 3D high resolution scanners. The rotary adapter is used for milling cylindrical parts and is used, among other things, for the production of sophisticated furniture. It is also suitable for milling of grooves and holes in tubes and cylindrical profiles.

The COMAGRAV ZONDA machine can be equipped with a 3D laser scanner. This makes it easy, fast and accurate to load complex 3D surface into CAD / CAM software where you can edit it, calculate paths for milling, and copy the artwork. The 3D scanner also serves to faithfully capture the shape, making it great for creating replicas of artwork or digital archiving. The scanner speeds up the serial production of hand-crafted originals, helping to produce milled patterns that can be easily delivered with a handcrafted touch. The accuracy of the scanner is stunning, depending on the lens used, it can scan accurately to 0.002 mm!

COMAGRAV machines are easy to operate via the PILOT 3D system that works in Windows and requires no special education. The system will load data for milling and cutting from the CAD / CAM system, RIP, or graphics program. For industry and multiswitch operations, special control panels are available to handle a complete newcomer.



3D scanning



Rotary adapter



Multifunctional head for cutting



Cutting of signage



Routing of acrylic



Cutting with oscillating knife



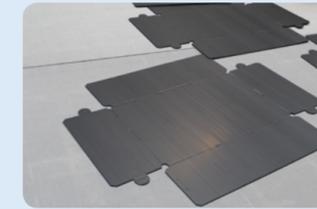
Engraving



Routing of Alucobond



3D modelling



Packaging production



Production of panels and parts



3D milling

APPLICATIONS



COMAGRAV NOTUS



COMAGRAV NOTUS PLUS

MULTI head for cutting modules

