

comagrav

CNC cutting and routing machines

ZONDA

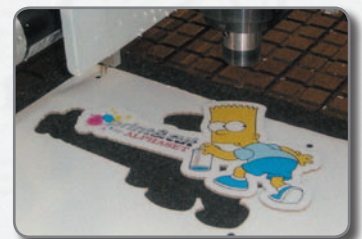
A true specialist in cutting and routing

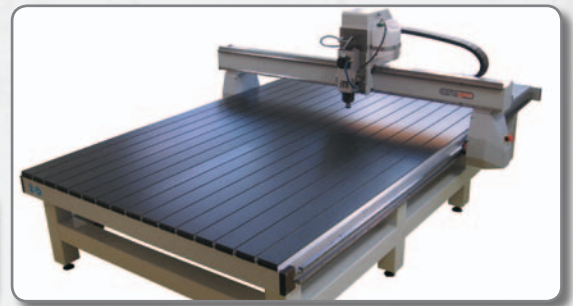
This is COMAGRAV ZONDA generation II, a multifunctional plotter. Utilizing new cutting and routing technologies, it offers equipment tailor-made just for you.



COMAGRAV ZONDA features

- routing spindle
- vacuum table
- oscillating knife
- camera system for accurate positioning using 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
- Z axis automatic adjustment
- cooling system
- dust collector





ZONDA

Introducing our professional 3D routers suitable for routing, engraving, carving, drilling, milling, cutting and creasing. They are accurate, reliable and work ceaselessly. CNC router COMAGRAV ZONDA is a unique product designed for use in many industrial spheres, both in graphics fabrication and wood-working. We have constructed an affordable tool fit for machining aluminium and its alloys. COMAGRAV ZONDA provides high-quality plastic separation, printed images routing and cutting, as well as industrial plastic moulding. It fabricates flawless 3D creations, relief lettering, effective 3D logos, and inlays, etc., and it is also suitable for woodworking. 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 excel in package prototyping. Together with the camera system, they help convert a router into a multifunctional plotter that can be used for cutting printed images. 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.

One of the obvious advantages of new construction of the moving gantry, is the fact that all parts of the equipment can operate along the full width of the table, whether it is a spindle, a camera or the combined cutting heads. Moreover, disassembly is not required for common use! The new gantry also makes it possible to have two spindles in the one machine, thus enabling two motifs to be fabricated in one working cycle.

All COMAGRAV machines work in 3D as standard. ZONDA 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:

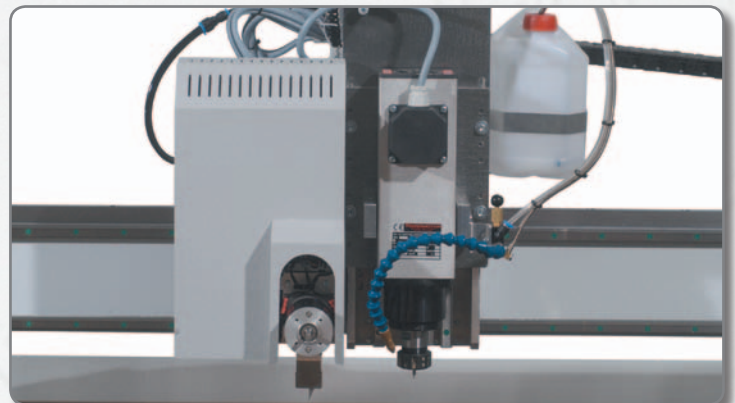
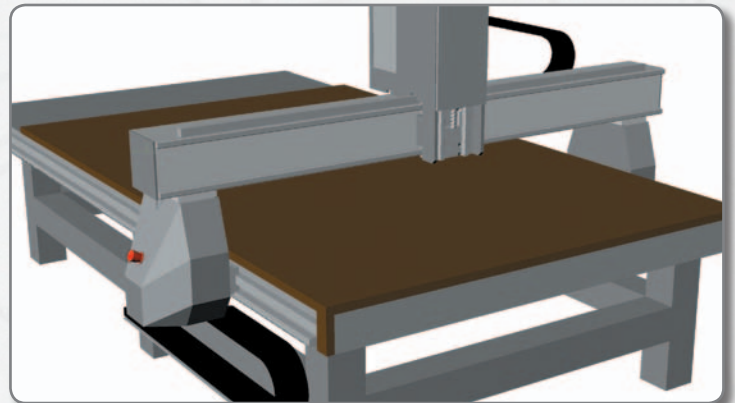
Stepper motors, planetary gearboxes and rack and pinion drive system in X and Y axis
 Stepper motor and ballscrew in Z axis
 Microstepping mechanism
 High-precision linear ball bearings in X, Y and Z axis

Standard equipment:

Professional router software Delcam ArtCAM Express
 MDF work table
 Automatic Z axis sensor
 Emergency STOP buttons

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
 T-slot work table
 Slot for dust collector
 Industrial dust collector
 3D contact scanner
 3D laser scanner
 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



	Working area	Machine dimensions	Weight (depending on equipment)	Resolution	Feed rate	Z axis shifting distance	Gantry clearance	Spindle power
COMAGRAV ZONDA 2000	1290x2000mm	1780x2450x1210mm	500 kg	0.01 mm	0.5-170 mm/s	130 mm	140 mm	2000 W, 24 000 RPM
COMAGRAV ZONDA 2600	1640x2600mm	2070x3050x1210mm	700 kg	0.01 mm	0.5-170 mm/s	130 mm	140 mm	2000 W, 24 000 RPM
COMAGRAV ZONDA 3000	2040x3000mm	2480x3460x1210mm	800 kg	0.01 mm	0.5-170 mm/s	130 mm	140 mm	2000 W, 24 000 RPM
COMAGRAV ZONDA 4000	2040x4000mm	2480x4460x1210mm	900 kg	0.01 mm	0.5-170 mm/s	130 mm	140 mm	2000 W, 24 000 RPM