

COMAGRAV NOTUS

Product information



COMAGRAV NOTUS is a professional CNC router for milling and cutting. It is a multifunctional, dynamic, reliable and affordable CNC system.

COMAGRAV NOTUS is characterized by a rigid steel construction, rich equipment and high accuracy. It is constructed with a steel baseframe and steel gantry.

It brings AC servo technology for maximal reliability and to achieve high cutting speeds. You can choose from a wide range of work tables and spindles with an output of up to 9,6 kW with automatic tool change.

Machines from the COMAGRAV NOTUS family works in many industries, from signmaking, packaging industry, metal industry to demanding workshops with mass production.

MULTI head option offers the possibility of professional cutting. We recommend pneumatic oscillating knife for soft materials cutting and tangential head for direct cutting.

Standard equipment:

- working area from 1000x1500mm to 2040x4200mm
- feed rate up to 500mm/s (optionally up to 1100mm/s)
- AC servo Mitsubishi, planetary gearboxes, helical rack&pinion system
- clamping of up to 120mm thick material
- automatic tool length measurement
- spindles with power up to 9,6kW
- high-speed spindles up to 50.000 RPM
- dust collector
- tools cooling for working with aluminum
- high pressure vacuum table with vacuum pump
- T-slot table as basic option for manual clamping
- Vectric Cut2DPro, software
- support for CAM programs
- library of materials and presets
- PILOT TDP controller
- panel for the operator with built-in PC, with LCD and ON/OFF/E-STOP buttons
- DELL PC and Windows 10 IoT Enterprise
- pre-installed Teamviewer remote access (along with PC)

Optionally

- custom dimension
- high pressure vacuum table made of aluminum alloy
- automatic tool change with linear tray
- carousel tray for 8 tools
- ISO or HSK toolholders (for ATC)
- rotary adapter
- vertical table
- cyclone dust collector with integrated cooling system
- MULTI head equipment with wide gantry (for installation of tangential modules for cutting)
- camera system for reading registration marks and for checking tools in ATC tray
- QR code support
- compatibility with RIP software
- carbon fiber composite gantry
- high Z axis

Parameters

	NOTUS
Baseframe	welded steel, annealed
Gantry	200x150mm steel (optionally carbon fiber composite)
Drives	helical rack&pinion system in XY axes ballscrew in Z axis precision planetary gearboxes
Engines	AC servo Mitsubishi 750W
Control	PILOT Advanced
Z sensors	for automatic change: fixed sensor and movable sensor for manual spindle: movable sensor
Working table	high pressure vacuum table or T-slot table
Vacuum	high pressure, phenolic resin (optionally aluminium)
Vacuum zones	from 4 to 12 depending on the size of the table
Control software	PILOT TDP
Tool change	manual or automatic
ATC tray	carousel for 8 tools or linear for 8 tools (optionally up for 14 tools)
Camera system	optionally
Control PC	DELL Corei3
OS	Windows 10 IoT Enterprise

COMAGRAV NOTUS 1515



T- slot table, manual tool change spindle.

COMAGRAV NOTUS 2030 VACUUM ATC MULTI



Vacuum table made of phenolic resin, automatic tool change spindle, MULTI heads.

Dimensions and weights

Technické parametry / Technische Parameter / Parámetros técnicos / Technical parameters/ Технические характеристики

Typ	Pracovní plocha Šířka x Hloubka [mm]	Šířka [mm]	Hloubka [mm]	Výška [mm]	Osa Z [mm]	Světlost pod portálem [mm]	Hmotnost [kg]	Rozlišení [mm]	Nejvyšší rychlost obrábění [mm/s]	Nejvyšší rychlost rychloposuvu [mm/s]	Vřeteno: viz výrobní šiték [kW/RPM]	Max.výkon [kW]	Tlak vzduchu [bar]	Napájení	Příkon [kW]	
Typ	Arbeitsfläche [mm]	Breite [mm]	Länge [mm]	Höhe [mm]	Z-Achse [mm]	Lichte Weite unter dem Portal [mm]	Gewicht [kg]	Auflösung [mm]	Maximale Fräsgeschwindig- keit [mm/s]	Maximale Vorschubgeschw- indigkeit [mm/s]	Spindel: siehe Typschild [kW/RPM]	Max.Leistung [kW]	Druckluft [bar]	Stromversor- gung	Strombedarf [kW]	
Modelo	Superficie de trabajo [mm]	Larghezza [mm]	Lunghezza [mm]	Altezza [mm]	Eje Z [mm]	Luz de paso bajo el portal [mm]	Peso [kg]	Resolución [mm]	Velocidad máxima de fresado [mm/s]	Velocidad máxima de desplazamiento [mm/s]	Motor de corte: ver etiqueta [kW/RPM]	Potencia [kW]	Presión del aire comprimido [bar]	Alimentación	Vatíaaje [kW]	
Type	Working area [mm]	Width [mm]	Length [mm]	Height [mm]	Z axis [mm]	Clearance under gantry [mm]	Weight [kg]	Resolution [mm]	Maximum milling speed [mm/s]	Maximum moving speed [mm/s]	Spindle: See label [kW/RPM]	Max.power [kW]	Compressed air pressure [bar]	Supply	Power requirement [kW]	
Тип	Рабочая зона Ширина x Глубина [мм]	Ширина [мм]	глубина [мм]	Высота [мм]	Ось Z [мм]	Дорожный просвет под портала [мм]	Вес [кг]	Разрешение [мм]	Максимальная скорость обработки [мм/с]	Максимальная скорость быстрого [мм/с]	Стебель: см этикетке продукта [кВт / RPM]	Максимальная мощность [кВт]	Давление воздуха [бар]	мощность	Потребляемая мощность [кВт]	
NOTUS 1515	1550 x 1500	A: 2230 B: 2550 C: 2230 D: 2900 E: 3220 F: 1560	A: 2620 B: 2620 C: 2920 D: 2920 E: 2620 G: +165	A: 2160 B: 2160 C: 2160 D: 2000 E: 2000 F: 860 G: 3500			A: 1250 B: 1350 C: 2160 D: 1550 E: 2000 F: 500 G: +50									
NOTUS 1520	1550 x 2000	A: 2230 B: 2550 C: 2230 D: 2900 E: 3220 F: 1560	A: 3120 B: 3120 C: 3420 D: 3420 E: 3120 G: +165	A: 2160 B: 2160 C: 2160 D: 2000 E: 2000 F: 860 G: 3000			A: 1300 B: 1400 C: 1400 D: 1600 E: 1600 F: 570 G: +50									
NOTUS 1526	1550 x 2600	A: 2230 B: 2550 C: 2230 D: 2900 E: 3220 F: 1560	A: 3720 B: 3720 C: 4020 D: 4020 E: 3720 G: +165	A: 2160 B: 2160 C: 2160 D: 2000 E: 2000 F: 860 G: 3000	175	140	A: 1360 B: 1460 C: 1460 D: 1660 E: 1660 F: 650 G: +50	0,00078	500	500 Max. 1150 (additional safety may be required)	ATC 4,6/24000 ATC 9/24000 ATC 3/40000 ATC 6,5/40000 MAN 5,6/24000	9	7	3 x 400VAC/50Hz /16A	A,B,D: 3,5 kW C,E: 4,5 kW + spindle power	
NOTUS 1530	1550 x 3150	A: 2230 B: 2550 C: 2230 D: 2900 E: 3220 F: 1560	A: 4270 B: 4270 C: 4570 D: 4570 E: 4270 G: +165	A: 2160 B: 2160 C: 2160 D: 2000 E: 2000 F: 860 G: 3000			A: 1420 B: 1520 C: 1520 D: 1720 E: 1720 F: 770 G: +50									
NOTUS 2030	2040 x 3150	A: 2530 B: 3050 C: 2530 D: 3400 E: 3720 F: 2050	A: 4270 B: 4270 C: 4570 D: 4570 E: 4270 G: +165	A: 2160 B: 2160 C: 2160 D: 2000 E: 2000 F: 860 G: 3000			A: 1550 B: 1650 C: 1650 D: 1850 E: 1850 F: 1120									

A: bez ATC / without ATC

B: ATC s karuselem / ATC with carrousel

C: Lineární zásobník ATC / Linear storage ATC

D: Multifunkční jednotky a Lineární zásobník / Multifuncioal units and Linear storage ATC

E: Multifunkční jednotky a ATC s karuselem / Multifuncioal units and ATC with carrousel

F: Velikost stolu bez portálu (Pro transport) / Table size without gantry (For transport)


G: Konzole odsávání / Dust collector steel ramp


Spindles


We install professional spindles with automatic or manual tool change for COMAGRAV NOTUS.


Professional spindles with automatic tool change:

ATC professional spindle 4,5 KW 24.000	
 <p>S-ATC-4.5KW24T-ISO30</p>	<p>High frequency spindle with automatic tool change. Ideal for cutting common materials (acrylic, plexiglass, brass, aluminum, MDF, wood, etc.). Pneumatic tooling ISO30. 4 toolholders included equipped with ER32 collets. Cooled with electric fan. Linear storage for 8 toolholders. Second sensor for automatic tool length measurement. Requires clean and dry compressed air. Includes a linear storage, 4 collets, 4 toolholders and wrenches for tightening.</p> <hr/> <p>Tool change: automatic Bearings: ceramic Power: 3,8 KW(S1)/4,5 KW(S6) RPM: up to 24.000/min Clamping: pneumatic, ISO30 toolholders, ER32 collets Cooled with electric fan.</p>

ATC professional spindle 9,6 KW 24.000	
 <p>S-ATC-9.6KW24T-ISO30</p>	<p>High frequency spindle with automatic tool change. Ideal for cutting aluminum, plastics and other materials. Pneumatic tooling ISO30. 4 toolholders included equipped with ER32 collets. Cooled with electric fan. Linear storage for 8 toolholders. Second sensor for automatic tool length measurement. Requires clean and dry compressed air. Includes a linear storage, 4 collets, 4 toolholders and wrenches for tightening.</p> <hr/> <p>Tool change: automatic Bearings: ceramic Power: 8 KW(S1)/9,6 KW(S6) RPM: up to 24.000/min Clamping: pneumatic, ISO30 toolholders, ER32 collets Cooled with electric fan.</p>

ATC professional spindle 3,6 KW 40.000	
	<p>High frequency spindle with automatic tool change. Ideal for cutting steel, aluminum, brass, stainless steel, plexiglass, plastics, etc. Pneumatic tooling HSK E25. 4 toolholders included equipped with UP ER16 collets. Liquid cooled. Second sensor for automatic tool length measurement. Requires clean and dry compressed air. Includes a linear storage, 4 collets, 4 toolholders and wrenches for tightening.</p>
<p>S-ATC-3.6KW40T-HSKE25</p>	<p>Tool change: automatic Linear storage for 8 toolholders. Bearings: ceramic Power: 3.0 KW(S1)/3.6 KW(S6). RPM: up to 40.000/min Clamping: pneumatic, HSKE25 toolholders, ER16 UP collets Spindle cooling with liquid, includes active flow cooling. Other features: ultra precise clamping, high power, extremely high rounds, quiet operation.</p>

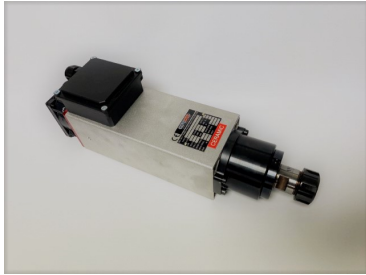
ATC professional spindle 3,6 KW 50.000	
	<p>High frequency spindle with automatic tool change. Ideal for cutting steel, aluminum, brass, stainless steel, plexiglass, plastics, etc. Pneumatic tooling HSK E25. 4 toolholders included equipped with UP ER16 collets. Liquid cooled. Second sensor for automatic tool length measurement. Requires clean and dry compressed air. Includes a linear storage, 4 collets, 4 toolholders and wrenches for tightening.</p>
<p>S-ATC-3.6KW50T-HSKE25</p>	<p>Tool change: automatic Linear storage for 8 toolholders. Bearings: ceramic Power: 3.0 KW(S1)/3.6 KW(S6). RPM: up to 50.000/min Clamping: pneumatic, HSKE25 toolholders, ER16 UP collets Spindle cooling with liquid, includes active flow cooling. Other features: ultra precise clamping, high power, extremely high rounds, quiet operation.</p>

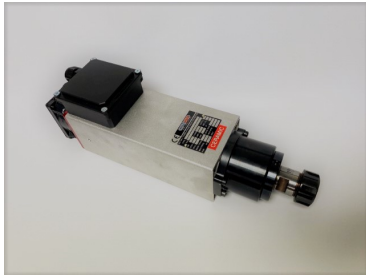
ATC professional spindle 6,5 kW 40.000	
 <p>S-ATC-6.5KW40T-HSKE32</p>	<p>High frequency spindle with automatic tool change. Ideal for cutting aluminum, plastics, etc. Pneumatic tooling HSK E32. 4 toolholders included equipped with UP ER20 collets. Liquid cooled. Second sensor for automatic tool length measurement. Requires clean and dry compressed air. Includes a linear storage, 4 collets, 4 toolholders and wrenches for tightening.</p>
	<p>Tool change: automatic Linear storage for 8 toolholders. Bearings: ceramic Power: 5,5 kW(S1)/6,5 kW(S6) RPM: up to 40.000/min Clamping: pneumatic, HSKE32 toolholders, ER20 UP collets Spindle cooling with liquid, includes active flow cooling. Other features: ultra precise clamping, high power, extremely high rounds, quiet operation.</p>

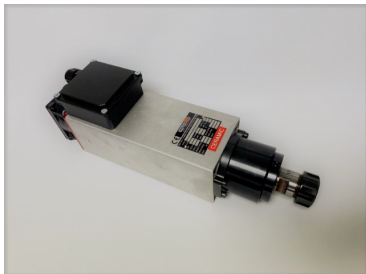
ATC professional spindle Olispeed 6,5 kW 40.000	
 <p>S-ATC-6.5KW40T-HSKE32-OLI</p>	<p>High frequency spindle with automatic tool change. Ideal for cutting aluminum, plastics, etc. Pneumatic tooling HSK E32. 4 toolholders included equipped with UP ER20 collets. Liquid cooled. Second sensor for automatic tool length measurement. Requires clean and dry compressed air. Includes a linear storage, 4 collets, 4 toolholders and wrenches for tightening.</p>
	<p>Tool change: automatic Linear storage for 8 toolholders. Bearings: ceramic Power: 5,5 kW(S1)/6,5 kW(S6) RPM: up to 40.000/min Clamping: pneumatic, HSKE32 toolholders, ER20 UP collets Spindle cooling with liquid, includes active flow cooling. Other features: ultra precise clamping, high power, extremely high rounds, quiet operation.</p>

ATC professional spindle 6,6 kW 24.000	
 <p>S-ATC-6.6KW24T-ISO30</p>	<p>High frequency spindle with automatic tool change. Ideal for cutting wood, plastics and other materials (plexiglass, brass, aluminum, MDF, wood, etc.). Pneumatic tooling ISO30. 4 toolholders included equipped with ER32 collets. Liquid cooled. Second sensor for automatic tool length measurement. Requires clean and dry compressed air. Includes a linear storage, 4 collets, 4 toolholders and wrenches for tightening.</p>
	<p>Tool change: automatic Linear storage for 8 toolholders. Bearings: ceramic Power: 5,5 kW(S1)/6,6 kW(S6) RPM: up to 24.000/min Clamping: pneumatic, ISO30 toolholders, ER32 collets Spindle cooling with liquid, includes active flow cooling.</p>

Professional spindles with manual tool change:

Professional routing spindle COMAGRAV 2 kW 24.000	
 <p>S-MAN-2KW24T</p>	<p>Ideal for engraving and cutting common materials (plastics, plexiglass, brass, aluminum, MDF, wood, etc.). Contains 1 collet, nut and keys.</p>
	<p>Tool change: manual Bearings: ceramic Power: 2 kW RPM: up to 24.000/min Clamping: mechanic, ER25 collets Cooling of spindle is provided by air turbine on the top of shaft. Other features: hardened shaft, balanced nut.</p>

Professional routing spindle COMAGRAV 2 kW 24.000 FAN cooled	
 <p>S-MAN-2KW24T-FAN</p>	<p>Ideal for engraving and cutting common materials (plastics, plexiglass, brass, aluminum, MDF, wood, etc.). Contains 1 collet, nut and keys.</p>
	<p>Tool change: manual Bearings: ceramic Power: 2 kW RPM: up to 24.000/min Clamping: mechanic, ER25 collets Cooling: by air + electrical fan, not intended for non-stop operation. Other features: hardened shaft, balanced nut, quiet operation.</p>

Professional routing spindle COMAGRAV 5,6 kW 24.000	
 <p>S-MAN-5.6KW24T</p>	<p>Ideal for engraving and cutting common materials (plastics, plexiglass, brass, aluminum, MDF, wood, etc.). Contains 1 collet, nut and keys.</p>
	<p>Tool change: manual Bearings: ceramic Power: 5,6 kW RPM: up to 24.000/min Clamping: mechanic, ER25 collets Cooling of spindle is provided by air turbine on the top of shaft. Other features: hardened shaft, balanced nut, great power.</p>

Professional routing spindle COMAGRAV 2 kW 60.000



S-MAN-2KW60T

Precise and powerful spindle for engraving and cutting aluminum alloys, brass, steel, stainless steel, plastics, etc.
 Not recommended for wood cutting.
 Cooling is provided by liquid, the cooling circuit and the unit are part of the delivery.
 Requires clean and dry compressed air (2bar).
 Contains cooling system, 3 UP collets, nuts and keys.

Tool change: manual
 Ložiska: hybrid
 Power: 1,2 kW (S1) 2 kW (S6)
 RPM: up to 60.000/min
 Clamping: mechanic, ultra precise ER11 collets
 Cooling: by liquid
 Other features: ultra precise clamping, high power, extremely high RPM, quite operation.

Professional routing spindle HSD 6,6 kW 18.000



S-MAN-6.6KW18T

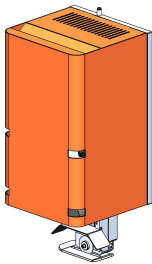
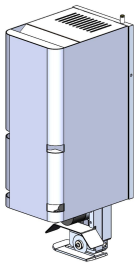
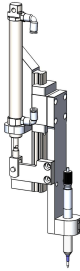

High frequency spindle with steel bearings.
 Ideal for cutting dusty materials.
 Liquid cooled, includes cooling liquid and tubes.
 Requires clean and dry compressed air.
 Contains 1 collet, nut and keys.

Tool change: manual
 Bearings: steel
 Power: 5,5 kW (S1) 6,6 kW (S6)
 RPM: up to 18.000/min
 Clamping: mechanic, ER25 collets
 Cooling: by liquid
 Other features: hardened shaft, balanced nut.

Available modules and tools
(requires MULTI head option)

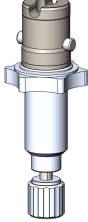
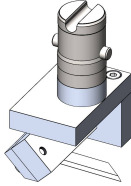

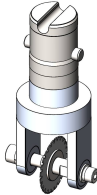
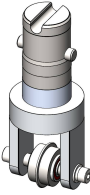
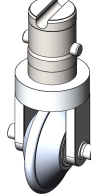
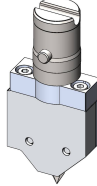
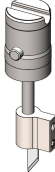


	MODULE A	MODULE B
<p>POT9k Pneumatic oscillating knife 9000 strokes/min, 8mm stroke height</p>		
<p>EOT18k Electric oscillating knife 18000 strokes/min, 0.6mm stroke height</p>		
<p>EOT14k Electric oscillating knife 14000 strokes/min, 1.6mm stroke height</p>		
<p>U1 universal module - with tangential rotation - quick lock system for tools (tools are replaceable by hand)</p>		

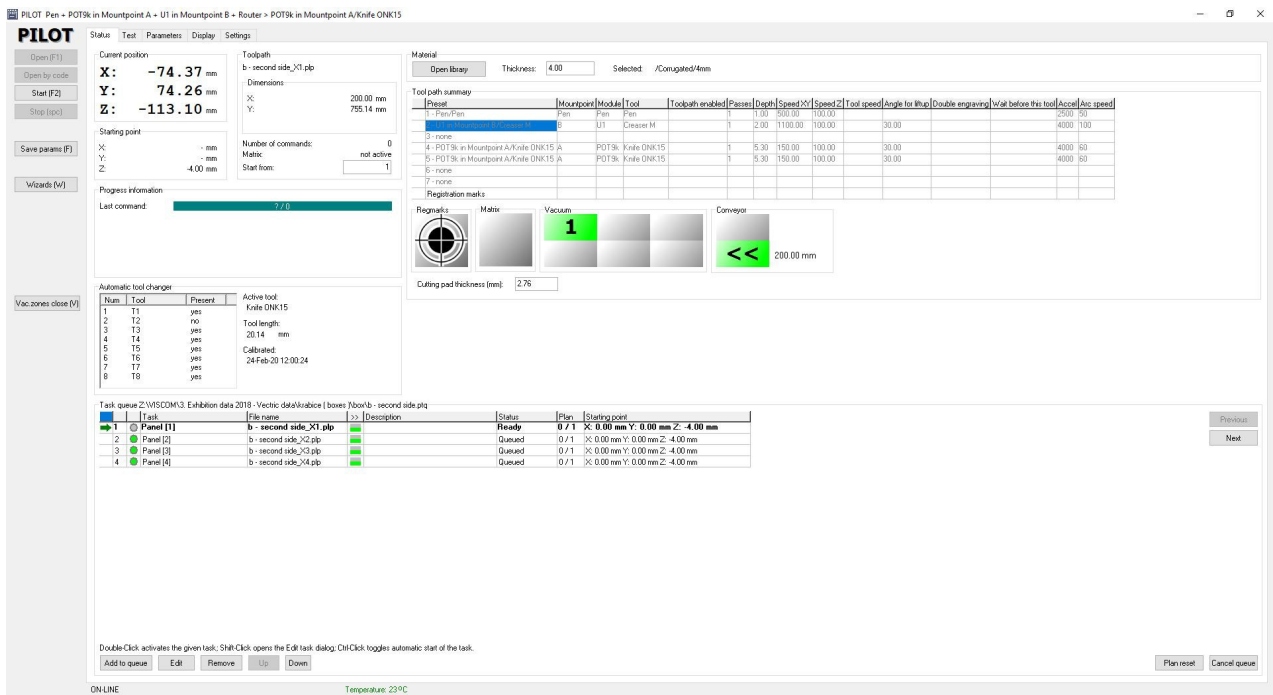
<p>Motorised cutting disc For rotary cutting tools 25mm, 28mm, 32mm, 66mm Custom for 160mm discs.</p>		
<p>Pen</p>		
<p>Drag knife</p>		

U1 tools
(for U1 universal module)

Tools for cutting, creasing, etc.

							
Kiss-cut	V-cut	Pen	CUW Pizza knife	CRW 2PT Creasing wheel in sizes 2pt, 3pt, 4pt	U1 CRW Creasing wheel in sizes S,M,L	U1 DR 1.45 Direct knife	U1 DR 0.63 Direct knife

PILOT control system and software compatibility



PILOT is compatible with HP-GL and G-code. It is possible to open data from CAM and graphics programs.

PILOT TDP supports work with RIP programs. Expect support for Caldera, Onyx, Colorgate, Asanti, Flexi,...

Free plug-ins for Adobe Illustrator and Corel Draw are also available (for generating print marks and exporting cutting data in DXF).