



MECAPRO

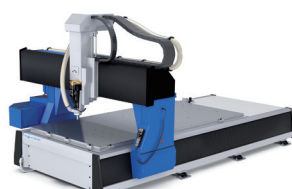
The versatile milling machine



Other products of the CNC MILLING PRODUCT RANGE



MECAPLUS
High productivity
3 axis CNC milling machine



MECAPLUS-HP
High performance
3 axis CNC milling machine



MECAEASY
Industrial milling machine
small and large format



TRIAX Mobile
Milling center
for precision 3D

STRENGTHS

- Precision milling/cutting CNC machine (router), easy to use with numerous possibilities of customization.
- Designed and realized for a professional use.
- Machining of sheet plates in various fields such as aeronautics, plastic processing and composites, precision mechanics, aluminium processing, advertising and POP...
- Equipment with fixed table in working areas from 1000x1500 mm to 2500x6000 mm as standard and up to 3500 x 16000 in special realization.
- Innovative and efficient vacuum tables with turbine technology or vacuum pumps.
- MECANUMERIC numerical controls as standard or SIEMENS or HEIDENHAIN type as option.
- Quality kinematics integrating industrial components delivered by the world leaders in their field, mounted on stabilized and welded steel frames.
- Options for trades adapted to the current requirements of customers in each activity sector.



Listening



Custom-made

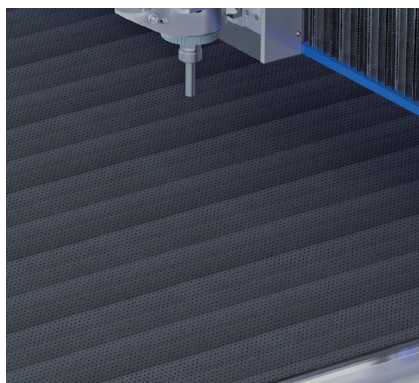


Multi-purpose



100% integrated

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MECAPRO

a CNC 3 axes milling machine adapted to various activity sectors

CHARACTERISTICS

- **Structure:** high inertia steel welded mobile frame and gantry.
 - **Table top:** aluminium fixed table top with consumable table.
 - **Guidance:** grinded steel rails and preloaded ball bearings.
 - **Transmission:** high precision ball screw on all axes with double ball screw on X axis Except MPR 6020 : transmission realized by double racks on X axis and ball screws on Y and Z axes.
 - **Motorisation:** 3x BRUSHLESS motors 750 W (X1, X2, Y) + 1x 750 W (Z).
- Suction nozzle with pneumatic or motorized driving.

FEATURES	MPR 1015	MPR 3015	MPR 3020	MPR 4020	MPR 6020
X-axis travels in mm	1020	3050	3050	4050	6050
Y-axis travels in mm	1520	1520	2070	2070	2070
Z-axis travels in mm	250/400	250/400	250/400	250/400	250/400
Maximum material width	1640	1640	2200	2200	2200
Passage under gantry (standard / option)	260/405	260/405	260/405	260/405	260/405
Maximum speed in mm/sec	417	417	417	417	500
Resolution in mm	0,0006	0,0006	0,0006	0,0006	0,001
Repeatability in mm at 20°C +/- 2°	+/-0,025	+/-0,025	+/-0,025	+/-0,03	+/-0,075
OPTIONS AND ACCESSORIES					
Vacuum table					
Box vacuum table with two-stage side channel turbine 7.5 kW, 520 m³/h	1	2	2	2	3
Box vacuum table with three or four-stage turbine 15 kW, 1350 m³/h	1	1	1 or 2	1 or 2	2 or 3
Vacuum table with vacuum pump 250 m³/h, 4.5 kW	1	1	1 or 2	1 or 2	2 or 3
Vacuum table with T grooves and two-stage side channel turbine 7.5 kW, 520 m³/h	1	2	2	2	3
Tool cooling systems (frozen air, lubrication...)	✓	✓	✓	✓	✓
Chip and dust suction systems	✓	✓	✓	✓	✓
Adaptative suction nose	✓	✓	✓	✓	✓
Static automatic tool shop, by 6 position module	1 or 2	1 or 2	1 to 3	1 to 3	1 to 3
On-gantry rotating tool shop, capacity 6 tools	✓	✓	✓	✓	✓
Cutting head with a floating or tangential knife	✓	✓	✓	✓	✓
OPTISCOUT (vision registration / compensation system by camera)	✓	✓	✓	✓	✓
Multi tool cutting head for fixed tangential knives or vibrating knife and grooving	✓	✓	✓	✓	✓
Automatic flatness follow up with HF80 and ES351	✓	✓	✓	✓	✓
OVERALL DIMENSIONS					
Length in mm pumps not included	2520	4600	4600	5750	7330
Width in mm (static tool shop / rotating tool shop)	2400/2550	2400/2550	2500/2930	2500/2930	2500/2930
Height in mm with Z 250 mm	2300	2300	2300	2300	2300
Average weight in kg	2500	3800	4500	5000	7500
SUPPLIES					
Air supply	Pressure: 6 bars / Flow 6 to 40 m³/h				
Power supply	400 VAC three-phases 50 Hz + ground - 20 to 100 A				

ELECTRO SPINDLES

High frequency electro spindles with electronic continuous variation of the speed.

Type	Power S1 - S6 in W	Rotation speed rpm	Cooling	Tool change
HF80	2500 - 3200	8000 - 40000	Water with cooling unit	Automatic, SKI20
SEV1090	3400 - 4200	2000 - 24000	Air by electric fan	Manual
ES929	7500 - 10000	2000 - 28000	Air, natural convection	Automatic, ISO30
ES351	6500 - 9000	2000 - 40000	Water with cooling unit	Automatic, HSK E32

NUMERICAL CONTROL

Standard: MECANUMERIC numerical control CN7000 ISO.

- MHI on mobile control panel with 15 inches touch screen.
- Data entry via Ethernet link RJ45 and 1 USB port.

Options: Numerical control SIEMENS SINUMERIK 840DSL or HEIDENHAIN TNC 640.

