

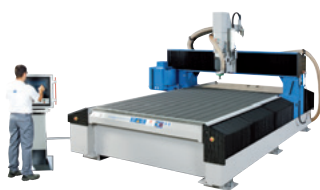


MECAPRO

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

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	4500 - 5500	2000 - 24000	Air, natural convection	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.	
<ul style="list-style-type: none"> • 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.	





MECAEASY

A milling machine for every one



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Milling center
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STRENGTHS

- Rapid, fitted with a mono-block frame and a rigidified gantry, equipped with powerful spindles, MECAEASY will meet your most demanding production requirements in 2D and in 3D.
- The simplicity of use.
- Quality and performances adapted to your production.
- Machining of sheet plates in the fields of advertising and POP, plastic processing, aluminium processing, rapid prototyping...
- A range of 5 sizes for versatility : Equipment with fixed table, working travels from 500 x 700 mm to 1500 x 3000 mm.
- Innovative and efficient vacuum tables with turbine technology or vacuum pumps.
- Numerical controls CN7000 with touch color screen and motorization by brushless servomotors.
- Quality kinematics integrating industrial components delivered by the world leaders in their field, mounted on stabilized and welded steel frames.
- Z axis with 350 mm as option for 3D applications.
- Many options : microlubrication, automatic tool changer, high frequency spindles, fourth axis...



Listening



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Multi-purpose



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MECAEASY

The 3 axis CNC milling machine for every one

CHARACTERISTICS

- **Structure:** high inertia steel welded frame and gantry, fixed table.
- **Guidance:** grinded steel rails and preloaded ball bearings.
- **Transmission:** high precision ball screw on all axes.
- **Motorisation:** AC Brushless servo motors

FEATURES	ES 0507	ES 0710	ES 1007	ES 1510	ES 3015
X-axis travel in mm	520	720	1050	1550	3050
Y-axis travel in mm	750	1020	750	1020	1520
Z-axis travel in mm	200/350	200/350	200/350	200/350	200/350
Maximum material width	900	1250	900	1250	1650
Passage under gantry	210/360	210/360	210/360	210/360	210/360
Maximum speed in mm/sec	300	300	300	300	300
Resolution in mm	0,0015	0,0015	0,0015	0,0015	0,0015
Repeatability in mm at 20°C	± 0,025	± 0,025	± 0,025	± 0,025	± 0,05
Numerical control	CN 7000	CN 7000	CN 7000	CN 7000	CN 7000
MHI Machine human interface	15 inches Colour touch screen				
OPTIONS					
Spindle 2,2 kW – 24000 rpm -Manual tools change	✓	✓	✓	✓	-
Spindle 3,8 kW – 24000 rpm - Automatic tools change ISO 30	✓	✓	✓	✓	✓
Spindle 4 kW – 50000 rpm – Automatic tools change HSK E25	✓	✓	✓	✓	✓
Spindle 3,4 kW – 24000 rpm – Manual tools change	✓	✓	✓	✓	✓
Automatic tool change with a static 6-tool shop	✓	✓	✓	✓	✓
Tool shop cover	✓	✓	✓	✓	✓
Tool length measuring sensor	✓	✓	✓	✓	✓
Vacuum table 2.2 kW turbine(s), with T grooves	1	1	1	1 - 2	2
Vacuum table 7.5 kW turbine(s), with T grooves	-	-	-	1	1 - 2
Vacuum box with turbine(s) 7,5 KW with box	-	-	1	1	1
Vacuum pump table (60 m³/h)	1	1	-	-	-
Vacuum pump table (140 m³/h)	1	1	1	1	-
Vacuum pump table (250 m³/h)	-	-	-	1	1
Automatic suction nozzle	✓	✓	✓	✓	✓
Tool coolant system	✓	✓	✓	✓	✓
Professional chip suction 2.2 kW / 4 kW	✓	✓	✓	✓	✓
OPTISCOUT / GTK (vision registration / compensation system by camera)	-	-	-	✓	✓
Multi tool cutting head for fixed or oscillating tangential knives and bending roll	-	-	-	✓	✓
4th axis horizontal divider	✓	✓	✓	✓	✓
Safety enclosure	✓	✓	✓	✓	-
OVERALL DIMENSIONS (without enclosure)					
Overall length in mm	1970	2210	2520	2990	4400
Overall width in mm	1375	1750	1375	1750	2200
Overall height in mm	2100	2100	2100	2100	2100
Average weight in kg	1400	1500	1700	2000	2800
SUPPLIES					
Air supply	Pressure : 6 bar / Flow 6 to 40 m³/h				
Average electric power	400 VAC three-phases 50 Hz + ground + neutral - 15 to 40 A				