



 GEMMA

Rumba
4 axis machining center



STANDARD CHARACTERISTICS

Structure

- heavily ribbed electro-welded steel basement with rotating beam and mobile column
- thanks to its strength and stability, it guarantees high quality machining and long-lasting reliability

Working area

- 4 double action pneumatic clamps
- Rotating beam controlled by CN: -90° / 0° / $+90^{\circ}$ and intermediate degrees



Axes (x-y-z)

- axis movements are controlled by brushless motors through precision ball screws
- movement on linear guides with automatic grease lubrication



Control panel

- OSAI control equipped with HICAM 2 operator interface to upload and run machining programs; list machining and visualization of workpiece lead time
- operator interface on PC-Windows
- wifi and teleassistance
- meets Industry 4.0's requirements



Electrospindle group

- Compact electrospindle equipped with:
- high precision ceramic bearings lubricated for life
 - ISO30 electrospindle taper
 - inverter for correct tool speed selection
 - air cooling
 - automatic tool changer for maximum flexibility in machining operations

Electrical cabinet

- IP 55 protection
- air conditioning

Safety

- protection cabin for the operator group
- complies with CE safety regulations as standard

General specifications



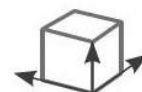
140 mm



4 kW



2.500 / 3.500 kg



4.100/5.100x2.100x2.100 mm



CNC machining center for milling and drilling of components made of aluminum, PVC, light alloys and steel

TECHNICAL DATA

Orthogonal axes (x-y-z)			Pivoting axis (a)	
X axis	Stroke	3.000 / 4.000 mm	Pivoting angle	+/- 90°
	Speed	100 m/min		
	Acceleration	1,5 m/s ²		
Y axis	Stroke	475 mm		
	Speed	50 m/min		
	Acceleration	1,5 m/s ²		
Z axis	Stroke	400 mm		
	Speed	50 m/min		
	Acceleration	1,5 m/s ²		

Power supply	
Electric power (three phase)	400 V / 50 Hz
Compressed air supply	7 Bar

Machining tolerance	
Positioning accuracy	± 0,2 mm
Positioning repeatability	± 0,1 mm

Electrospindle group		Automatic tool change	
Electrospindle power	4 kW	Tool magazine	retractable
Electrospindle bearings lubrication	lifelong	Number of tools	10 positions
Electrospindle taper	ISO30	Blade diameter	140 mm
Rotation speed (with inverter)	1.000-24.000 g/min	Max. tool cone length + tool	130 mm
Table – spindle nose distance	250 mm	Max. weight tool cone + tool	10 kg
		Max. diam tool ISO30	20 mm
		Collet cones	4

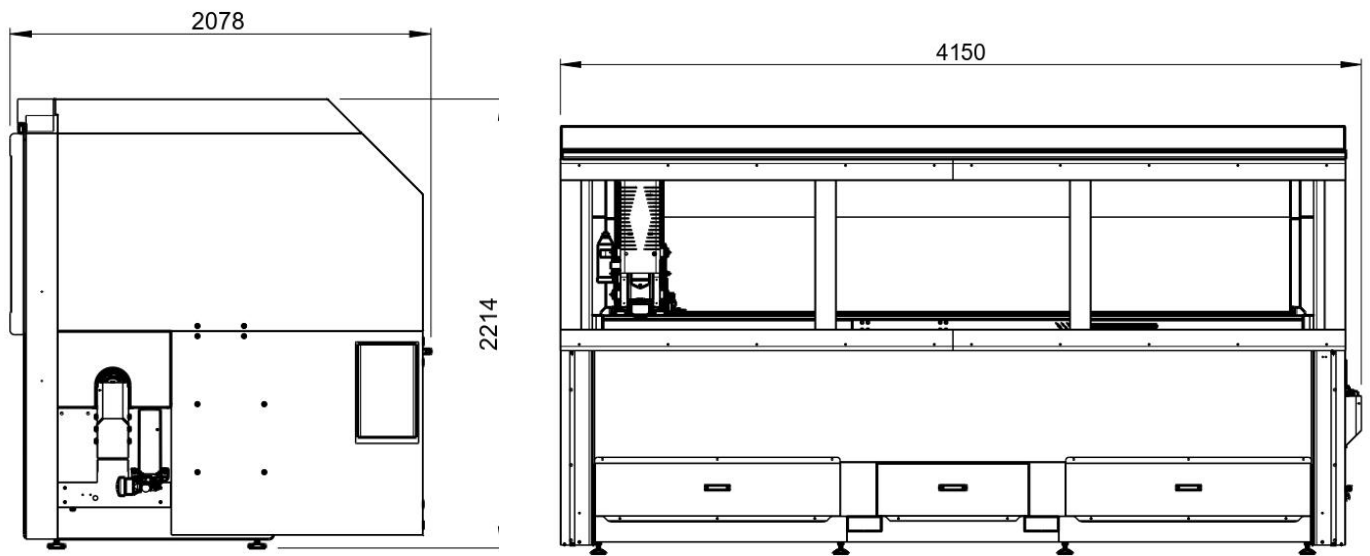


Optionals

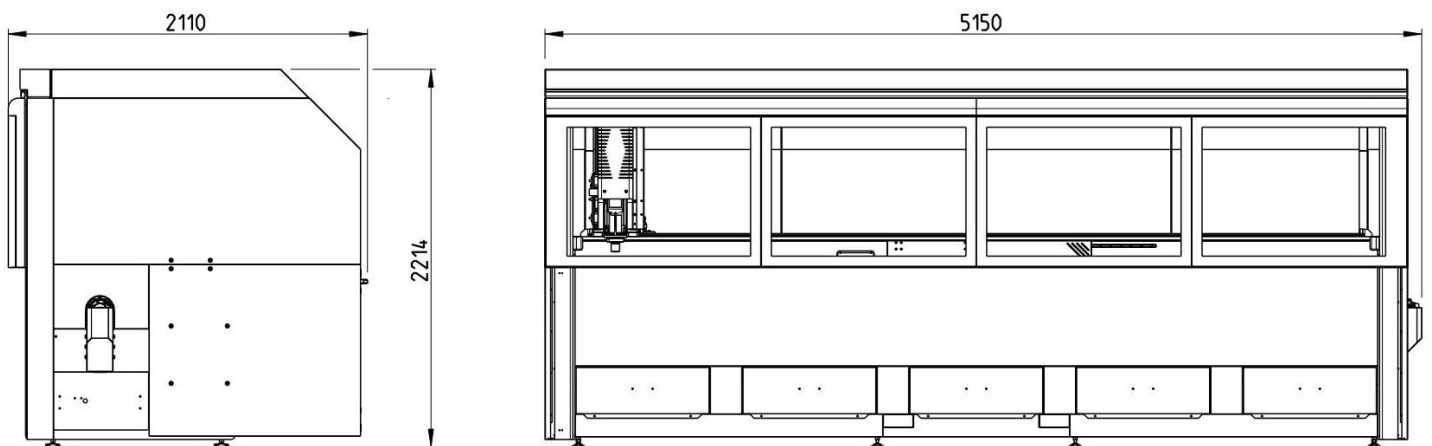
- "Inox" setup (electrospindle 6,6 kW HSK63F and water lubrication system)
- Raising right side stop
- Full top cover
- 6,6 kW HSK63F electrospindle
- Motorized clamps (non available with "Inox" setup)
- Clamps movement through operator's head
- Additional manual clamp
- Additional automatic clamp
- Bar code reader
- Micro-drop lubrication system with pure oil
- Tool length measuring device
- 90° cutting head
- HICAM 3 ADVANCE software license
- HICAM 3 ADVANCE additional software license
- Data import module in NCX format for HICAM 3
- CAMQUIX software license
- CAMQUIX additional software license
- Data import module in Text, XML or CSV formats
- CADXTRACT 3D file detection software
- CADXTRACT additional software license
- USA-CANADA setup (UL-CSA standards)
- Autotransformer for special voltage
- Ocean freight packaging

Machine layout

Rumba 3000



Rumba 4000





Gemma Group srl
Via Dante Alighieri, 6
47853 Coriano – Rimini – Italy
Tel. +39 0541 905811
www.gemma-group.com
email: info@gemma-group.com