



 **GEMMA**

**Rumba**  
4 axes machining center



4 axes CNC machining center for milling and drilling of components made of aluminium, steel and light alloys

## STANDARD CHARACTERISTICS

### Structure

- Heavily ribbed electrowelded steel basement with rotating beam and mobile column
- Thanks to its strength and stability, it guarantees high quality machining and long-lasting reliability
- Tanks to collect swarf

### Working area

- 4 double action pneumatic clamps
- Rotating beam controlled by CN: -90° / 0° / +90° and intermediate degrees



### Axes (x-y-z)

- Axes movements controlled by brushless motors
- 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 17" Windows PC
- Wi-fi 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 unit

### Safety

- Protection cabin for the operator group
- Complies with CE safety regulations as standard

### General specifications



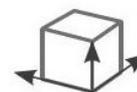
140 mm



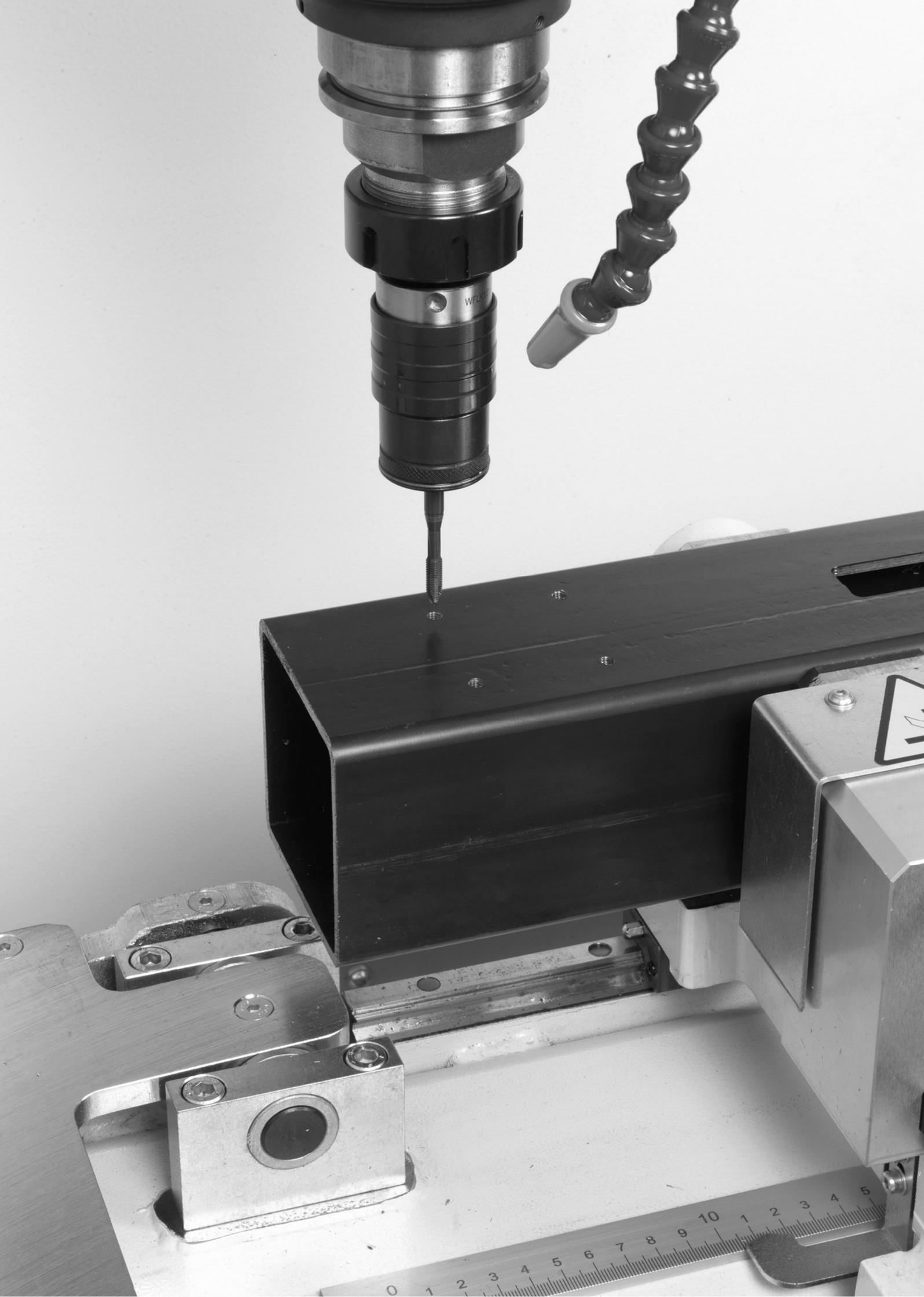
4 kW



2.500/3.500 kg



4.100/5.100x2.100x2.100 mm



## TECHNICAL DATA

### Orthogonal axes (x-y-z)

X axis (longitudinal)	
Useful working field	3.000/4.000 mm
Speed	100 m/min
Acceleration	6 m/s <sup>2</sup>
Y axis (transversal)	
Stroke	475 mm
Speed	50 m/min
Acceleration	5 m/s <sup>2</sup>
Z axis (vertical)	
Stroke	400 mm
Speed	50 m/min
Acceleration	5 m/s <sup>2</sup>

### Pivoting axis (a)

Pivoting angle	+/- 90°
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### 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

Electrospindle power	4 kW
Electrospindle bearings lubrication	Lifelong
Electrospindle taper	ISO30
Rotation speed (with inverter)	1.000-24.000 g/min
Refrigeration	Air

### Automatic tool change

Tool magazine	Retractable
Number of tools	10 positions
Max tool diameter	140 mm
Max tool cone length + tool	130 mm
Max tool cone weight + tool	10 kg
Max tool diameter ISO30	10 mm
Tools included	4 (standard)
Holder clamp cones included	4

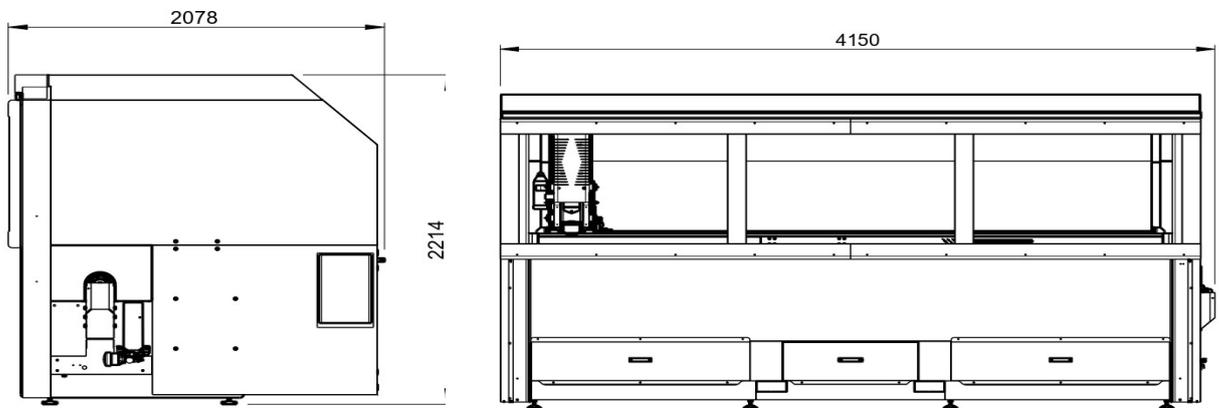


## Optionals

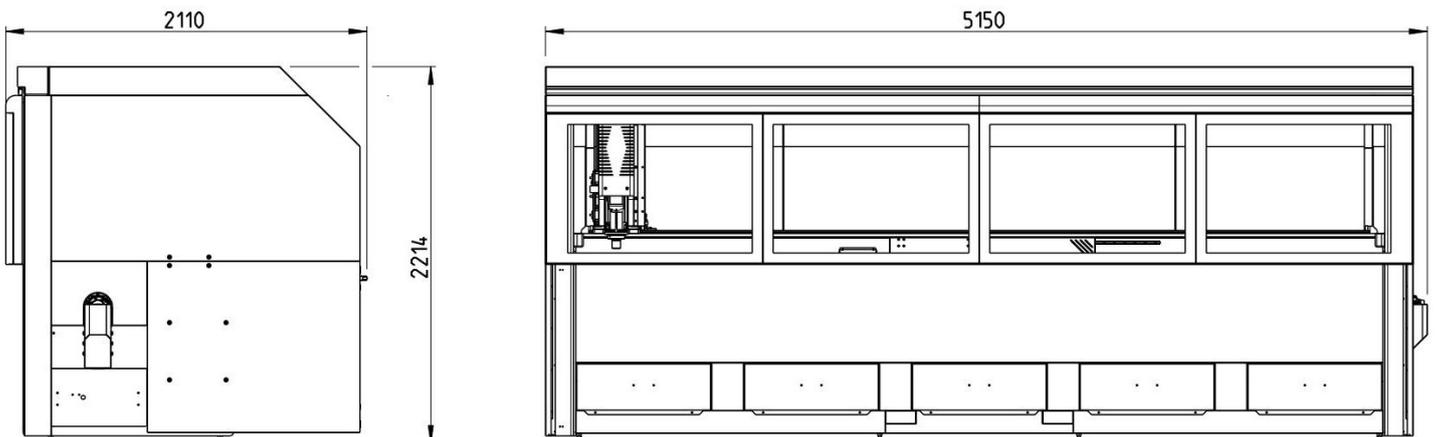
- "Inox" version: electrospindle 6,6 kw (S6) HSK63F and water system for lubrication
- Right folding stop
- Full fairing
- Electrospindle 6,6 Kw (S6) HSK63F
- Motorized clamps (not for inox version)
- Automatic clamps (moved by spindle)
- Additional manual clamp
- Additional automatic clamp
- Additional motorized clamp
- Bar code reader
- Microdrop lubrication system with pure oil
- Tool length measuring device
- Angular head with blade for 90° cuts
- Oil tank 25 l
- HICAM 3 ADVANCE software license
- Additional HICAM 3 ADVANCE license
- Module to import data in NCX format for HICAM 3
- CAMQUIX software license
- Additional CAMQUIX license
- Module to import data in Text, XML or CSV for CAMQUIX
- 3D STEP-file detection CADXTRACT license
- Additional CADXTRACT license
- Unilink Rumba (SW)
- Autotransformer for special voltage (230V/480/600V)
- UL-CSA compliant components
- Ocean freight packaging

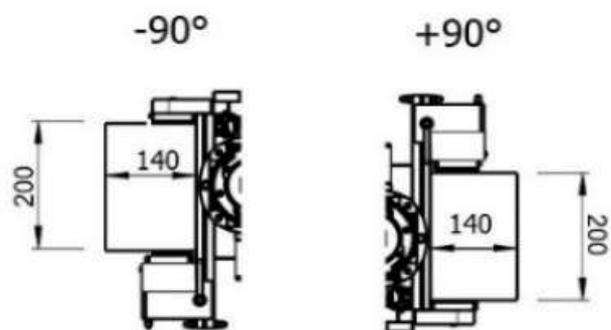
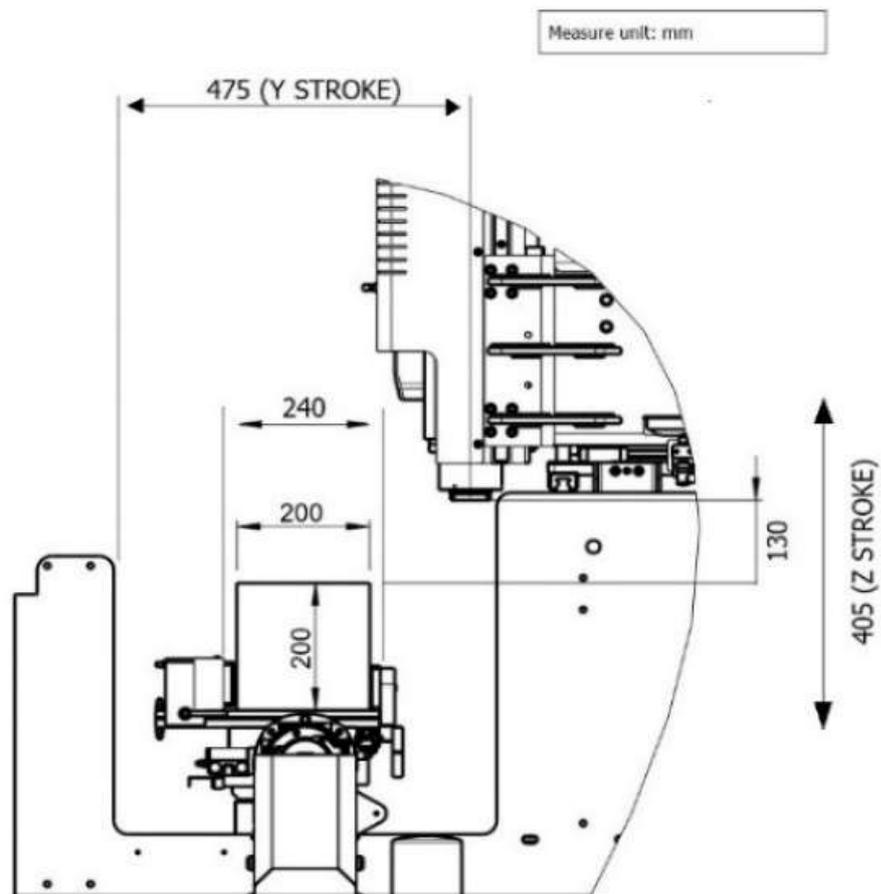
## Machine layout

### Rumba 3000



### Rumba 4000







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