

Joseph
machine

RUMBA

4 axis machining center



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

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) Axes

- 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



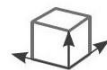
140mm



4 kW



2.500 / 3.500 kg



4.100/5.100x2.100x2.100 mm

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TECHNICAL DATA

Orthogonal axes (x-y-z)

| | |
|---------------|----------------------|
| X axis | |
| Stroke | 3.000 / 4.000 mm |
| 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 |

Pivoting axis (a)

| | |
|-----------------|---------|
| Pivoting angles | +/- 90° |
|-----------------|---------|

Power supply

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

Machining tolerance

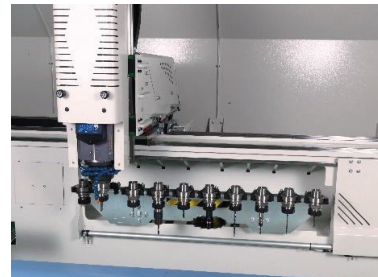
| | |
|---------------------------|----------|
| Positioning accuracy | ± 0,2 mm |
| Positioning repeatability | ± 0,1 mm |

Electrospindle group

| | |
|-------------------------------------|--------------------|
| Electrospindle power | 4 kW |
| Electrospindle bearings lubrication | lifelong |
| Electrospindle taper | ISO30 |
| Rotation speed (with inverter) | 1.000-24.000 g/min |
| Table – spindle nose distance | 250 mm |

Automatic tool change

| | |
|------------------------------|--------------|
| Tool magazine | retractable |
| Number of tools | 10 positions |
| Blade diameter | 140 mm |
| Max. tool cone length + tool | 130 mm |
| Max. weight tool cone + tool | 10 kg |
| Max. diam tool ISO30 | 10 mm |
| Collet cones | 4 |

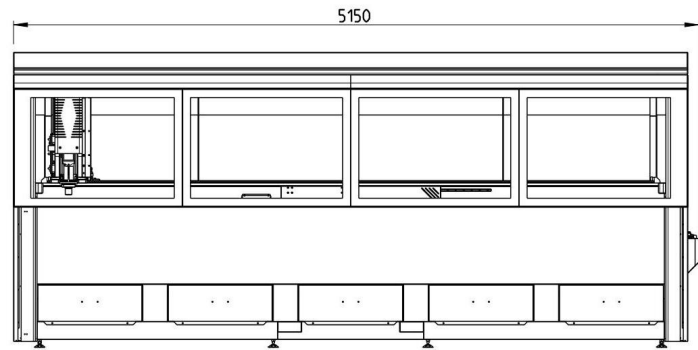
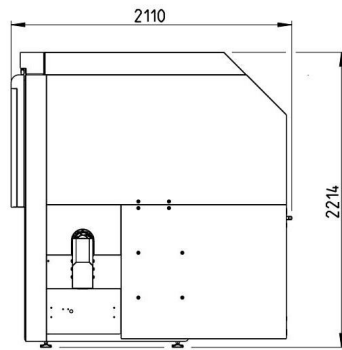


Optionals

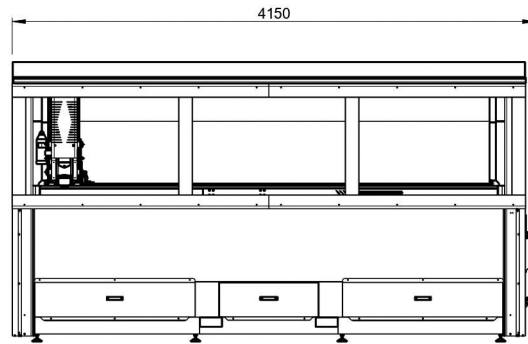
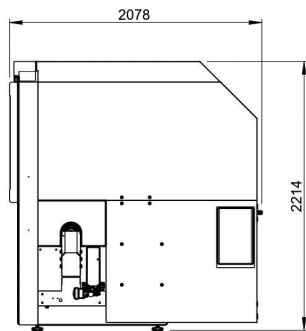
- "Inox" setup (electrospindle 6,6 kW HSK63F and water lubrication system)
- Raising right side stop
- Full top cover
- 6,6 kW HSK63F electrospindle
- Motorized clamps (non available with "Inox" setup)
- Clamps movement through operator's head
- Additional manual clamp
- Additional automatic clamp
- 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

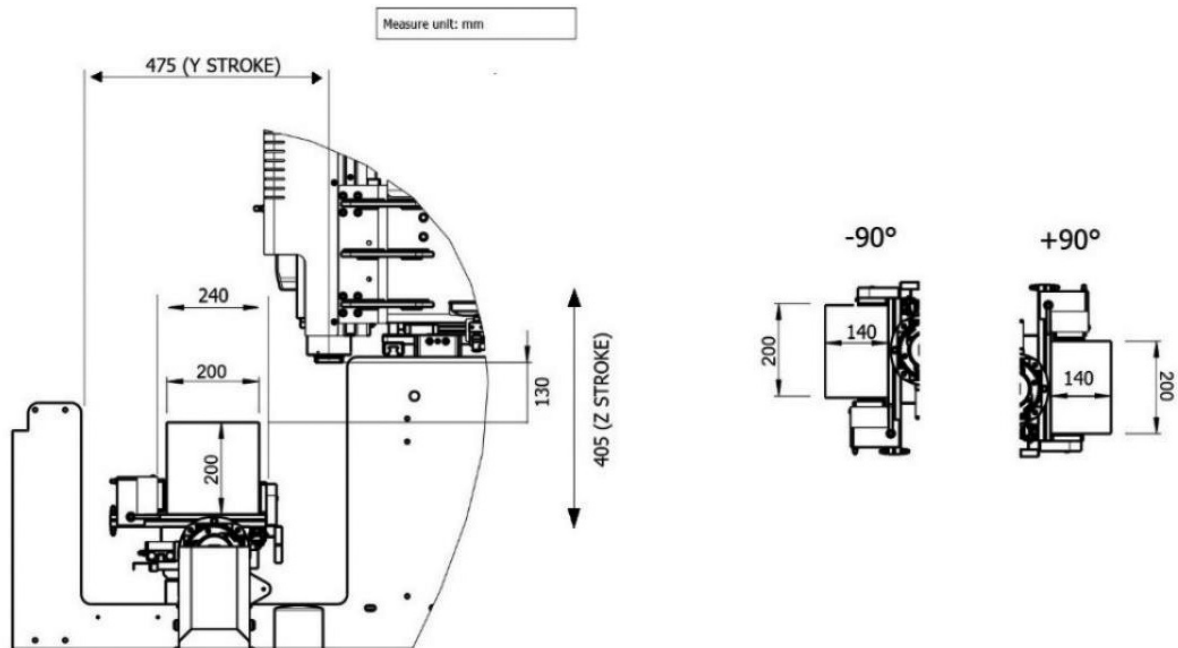
Rumba 3000



Rumba 4000



Working fields



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