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# FIVE<sup>3D</sup> TWELVE<sup>3D</sup>

Turn, tilt and elevating table positioners  
500 and 1200 kg carrying capacity

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# FIVE<sup>3D</sup> TWELVE<sup>3D</sup>

## Turn, tilt and elevating table positioners 500 and 1200 kg carrying capacity

- These turntable positioners are provided with mechanical motorized tilting and hydraulic elevation.
- Both the models are available with rotation driven either by AC motor or by brushless motor, if a better and wider speed regulation is required.

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Both FIVE-3D and TWELVE-3D, compared to FIVE and TWELVE models, are provided with a hydraulic cylinder for the lifting of the table. Lifting takes place safely thanks to the non-return valve installed on the cylinder.

**Each model is available in two versions:**

- with rotation driven by AC motor with 1/10 speed regulation range.
- with rotation driven by brushless motor with encoder with 1/100 speed regulation range and greater precision.

**The other two axes are driven at fixed speed:**

- tilting is driven by AC motor
- elevation is driven by hydraulic power unit with AC motor



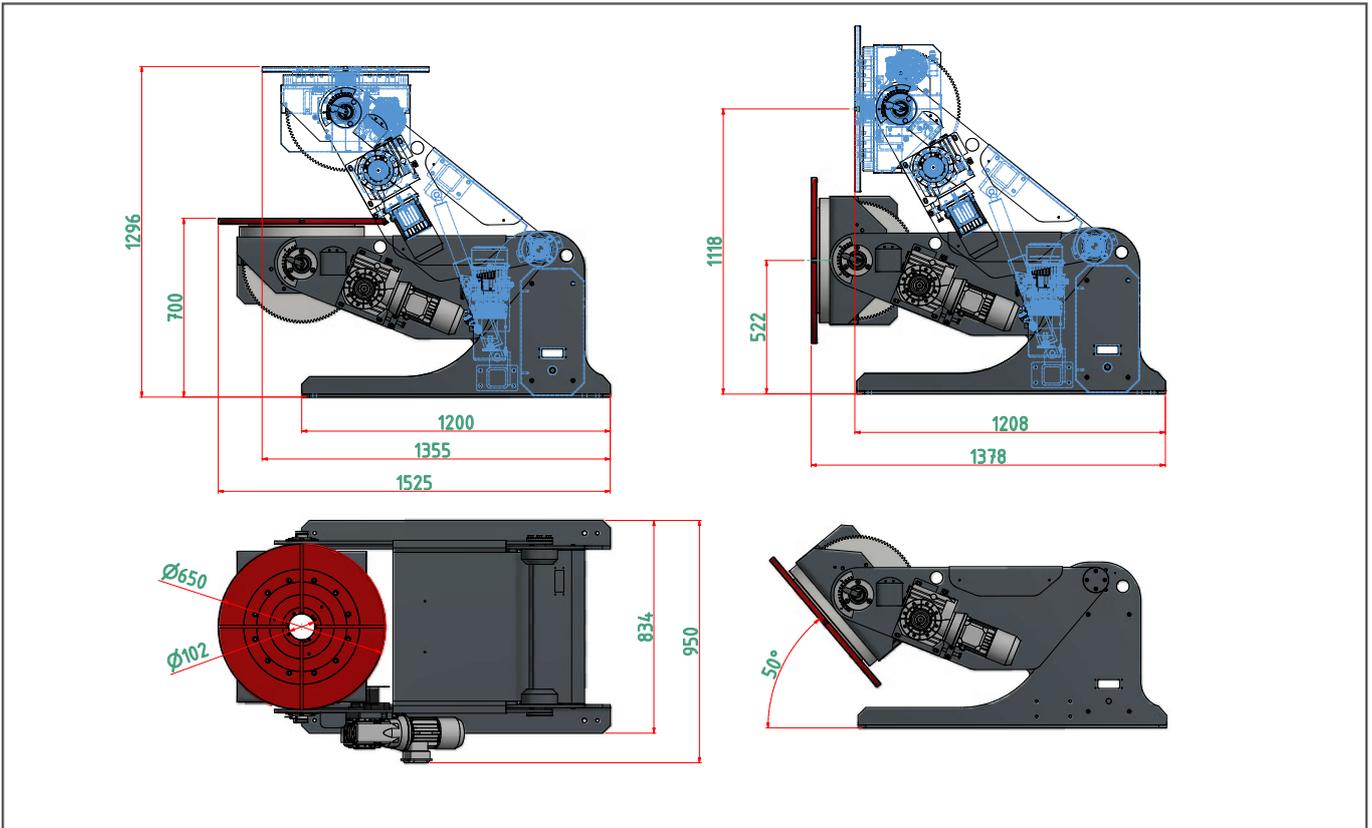
**Remote control pendant with 5m cable and the following controls:**

- Emergency button
- Impulsive/Continuous rotation switch
- Clockwise/Counterclockwise rotation switch
- Rotation speed 10 turn potentiometer
- Backward/Forward tilting switch
- Up/Down elevating switch
- Stop button (for continuous rotation only)
- Welding On/Off switch

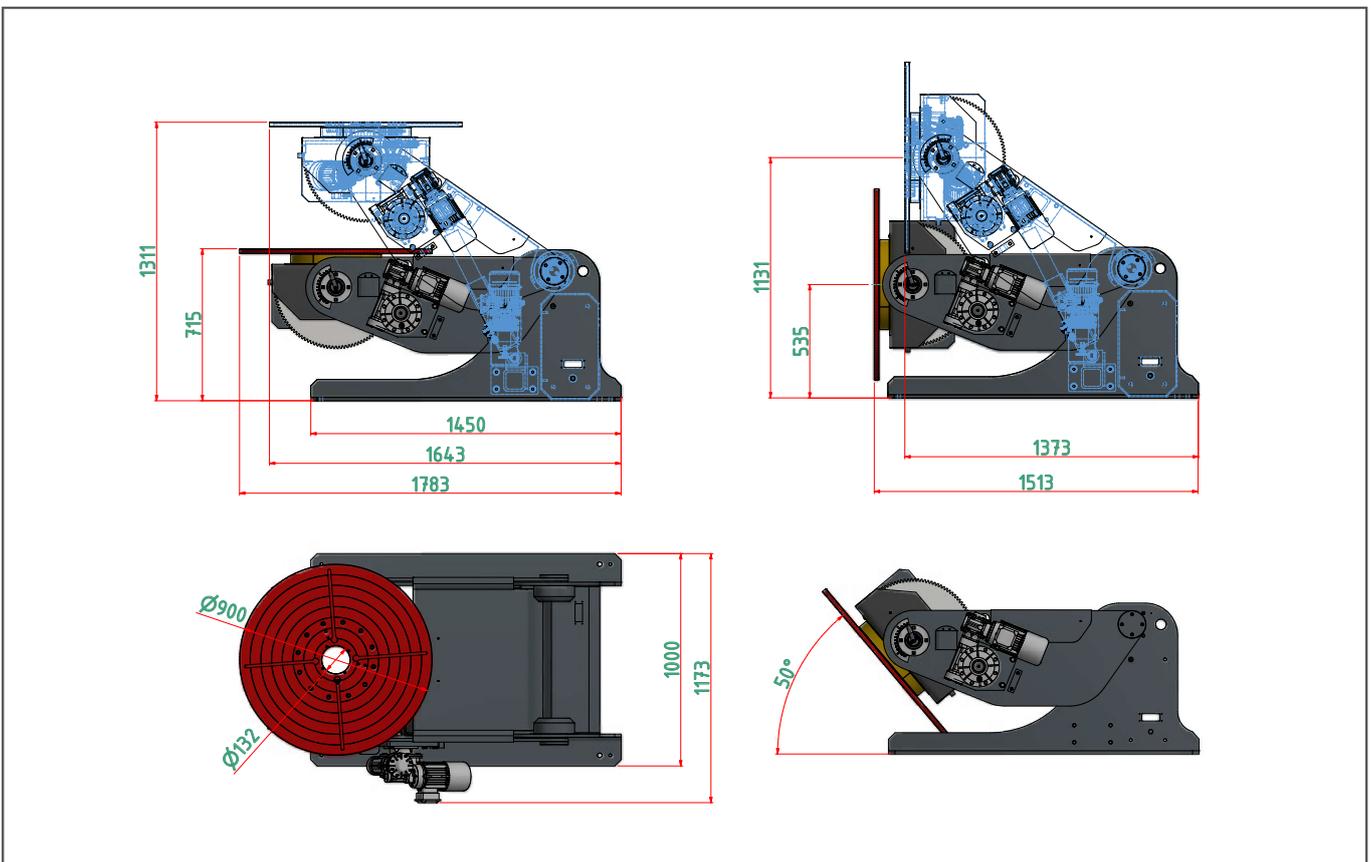
## Technical data

Model	FIVE-3D	FIVE-3D BR	TWELVE-3D	TWELVE-3D BR
<b>Tilt</b>	500 kg	500 kg	1200 kg	1200 kg
<b>TorqueRotation</b>	100 kgm	100 kgm	310 kgm	310 kgm
<b>Torque Tilting</b>	65 kgm	65 kgm	150 kgm	150 kgm
<b>Tilting</b>	0°<>130° motorized	0°<>130° motorized	0°<>130° motorized	0°<>130° motorized
<b>Motor</b>	AC	Brushless motor with encoder	AC	Brushless motor with encoder
<b>Rotation gearings</b>	Worm gear motor, pinion and slewing ring			
<b>Rotation speed</b>	0.2<>2 rpm different speed range on request	0.02<>2 rpm different speed range on request	0.16<>1.6 rpm different speed range on request	0.02<>2 rpm different speed range on request
<b>Table</b>	Ø650 mm hollow spindle Ø100 mm	Ø650 mm hollow spindle Ø100 mm	Ø900 mm hollow spindle Ø130 mm	Ø900 mm hollow spindle Ø130 mm
<b>Weight</b>	About 550 kg	About 550 kg	About 850 kg	About 850 kg
<b>Feeding</b>	400V - 3 phases			
<b>Power installed</b>	1,5 kVA	1,5 kVA	1,8 kVA	1,8 kVA
<b>Remote control pendant with 5m cable</b>	<ul style="list-style-type: none"> <li>- Rotation speed potentiometer</li> <li>- CW/CCW</li> <li>- Cont/Int rotation</li> <li>- BCKW/FW tilting</li> <li>- UP/DOWN elevation</li> <li>- Emergency</li> <li>- Welding ON/OFF</li> </ul>	<ul style="list-style-type: none"> <li>- Rotation speed potentiometer</li> <li>- CW/CCW</li> <li>- Cont/Int rotation</li> <li>- BCKW/FW tilting</li> <li>- UP/DOWN elevation</li> <li>- Emergency</li> <li>- Welding ON/OFF</li> </ul>	<ul style="list-style-type: none"> <li>- Rotation speed potentiometer</li> <li>- CW/CCW</li> <li>- Cont/Int rotation</li> <li>- BCKW/FW tilting</li> <li>- UP/DOWN elevation</li> <li>- Emergency</li> <li>- Welding ON/OFF</li> </ul>	<ul style="list-style-type: none"> <li>- Rotation speed potentiometer</li> <li>- CW/CCW</li> <li>- Cont/Int rotation</li> <li>- BCKW/FW tilting</li> <li>- UP/DOWN elevation</li> <li>- Emergency</li> <li>- Welding ON/OFF</li> </ul>
<b>Ground bearing</b>	300 Amp @100%	300 Amp @100%	300 Amp @100%	300 Amp @100%
<b>Elevation</b>	double-acting hydraulic cylinder with non-return valve			

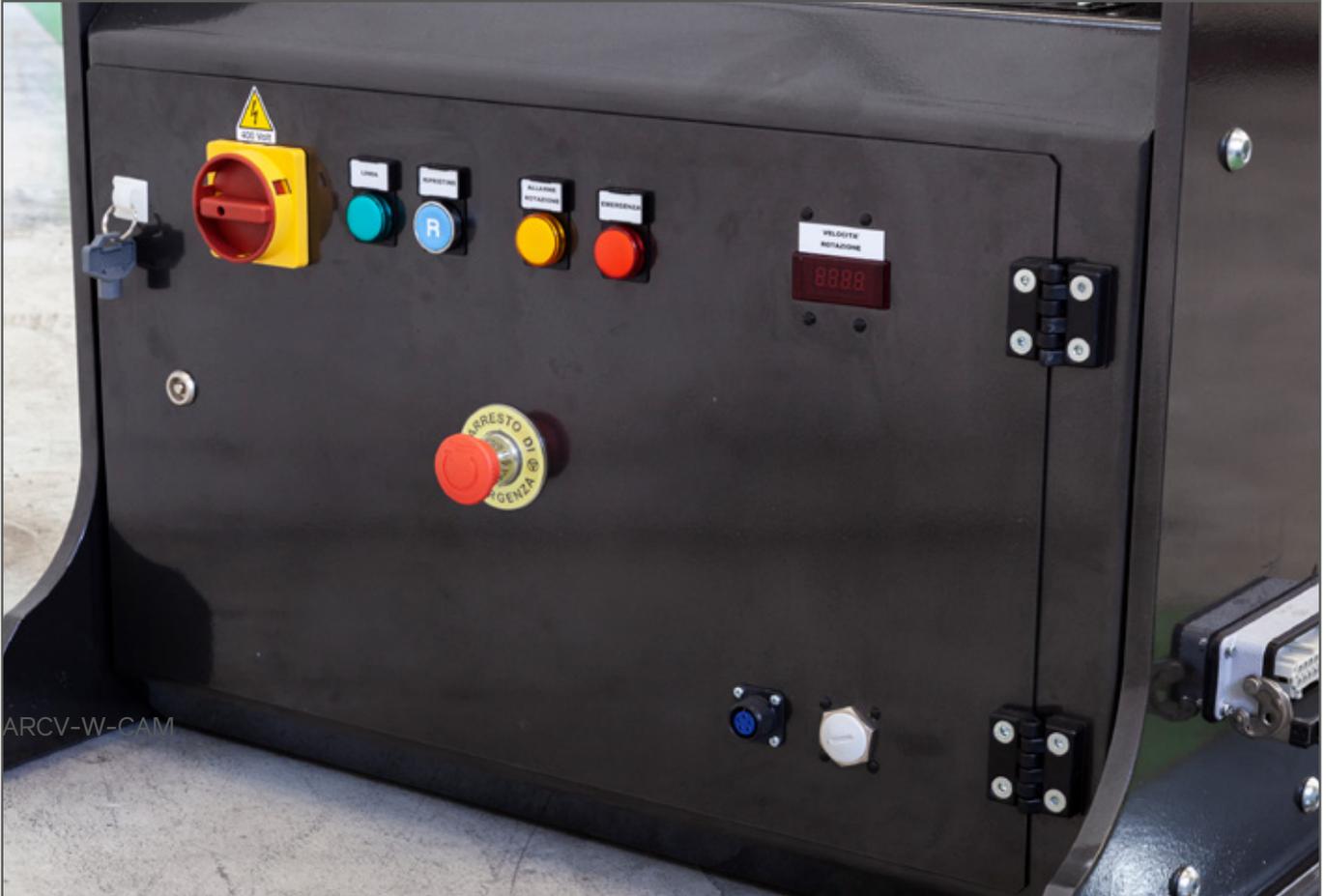
FIVE 3D



TWELVE 3D



## Interface dimensions



## FIVE-3D special execution with 750 mm octagonal table



- The table must be bolted onto the standard one, which is provided with centring system
- Octagon having distance between the opposite sides equal to 750 mm and width equal to 50 mm
- Machined sheet with medium thickness 12-15 mm
- Bored holes 16 mm diameter, 50 mm grid
- Plasma nitriding and oxidation treatment
- Available also the table 1000x1000x50 with holes 16 mm diameter
- Available also the table 1000x1000x100 with holes 28 mm diameter, thickness 22-25mm (for model TWELVE only)





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