Turn-Table TT-100 Robot Combination

The perfect solution for coating production of small components

The model TT-100 & Robot Combination is single axis, heavy duty, easy to install and operate turn table robot combination especially designed for today's thermal spray applications.

There are two versions available:

TT-100 Model A: The standard unit is supplied with a robot controlled 100 kg turn table with rotation only (no tilt, no indexing/positioning)

TT-100 Model B: Fully robot (ABB IRB 2600 for ex.) integrated 100kg turn table as 7th axis, rotation/indexing.

Turn-Table TT-100 robot combination

This compact design results in:

- More compact spray booth required
- Easy to install and maintain
- Robust & simple design
- Quick part access and change over

Turntable rotation axis

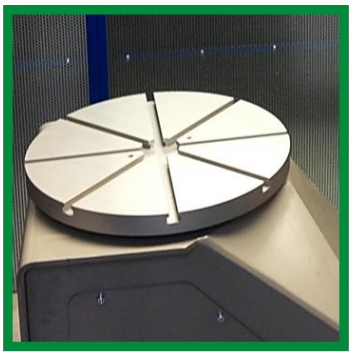
Coordinated motions of the robot arm in combination with the rotation and/or indexing/positioning allows for the spraying of components with complex geometries. The movements and positions are programmed via the Robot teach pendant or off-line using robot simulation/development software.

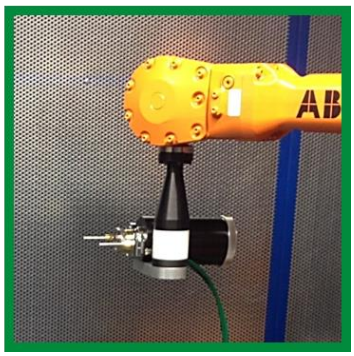
The turntable robot combination can be either master slave integrated with the FST thermal spray equipment or can be operated as stand-alone with limited integration.

A zero speed sensor is used to constantly monitor the rotational movement of the turntable during the spray process. In case of an unforeseen stop of the turntable rotation, the control system will immediately stop the spray process and initiate the emergency shutdown mode. This feature prevents damage to the spray part by the thermal spray process.

Rotation Only (Model A):
In this mode, the turntable rotates at a constant speed between 0 to 300 RPM. The RPM is closed loop controlled in this mode. The operator can program different speeds. The rotation direction is programmable.

Position (Model B):
In this mode, the position of the faceplate is controlled and synchronized with the Robot as the 7th robot axis. The turntable faceplate can be moved/ positioned to any desired position.





Specifications

Descriptions	TT-100
Load Capacity – Horizontal (0°)	100kg
RMP range	0 – 300 (±1 rpm)
Direction of Rotation	CW/CCW
Tilting Positioning	n/a
Rotary Table Positioning (Model B)	Accuracy <±1° repeatability
Face plate	High Strength Aluminum Diameter: 400mm Thickness: 35mm 8 T-slots
Zero speed sensor	Yes
Total Weight	Xx kg

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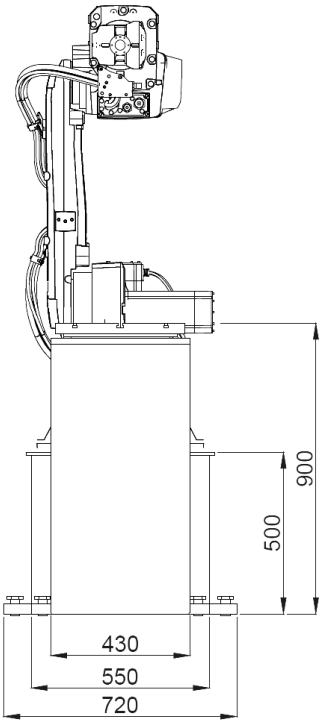

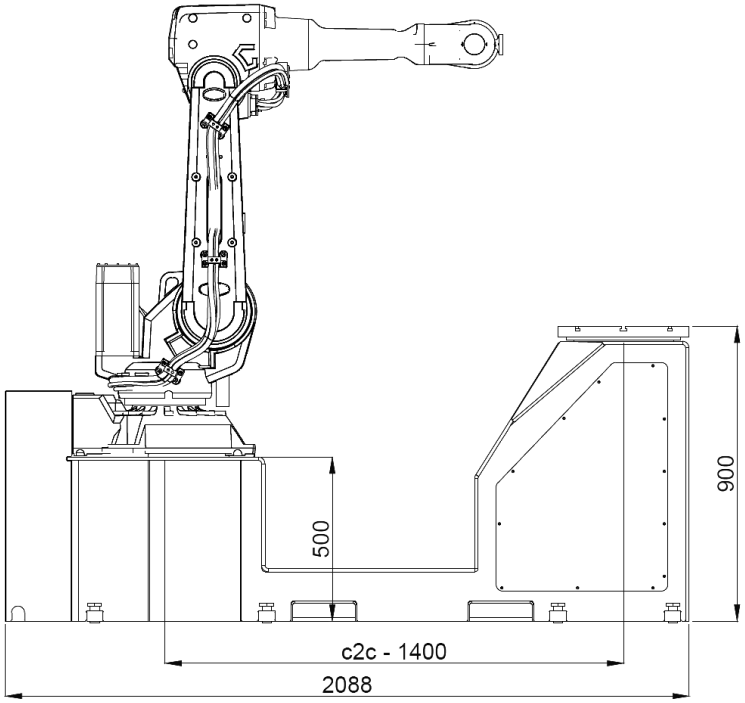

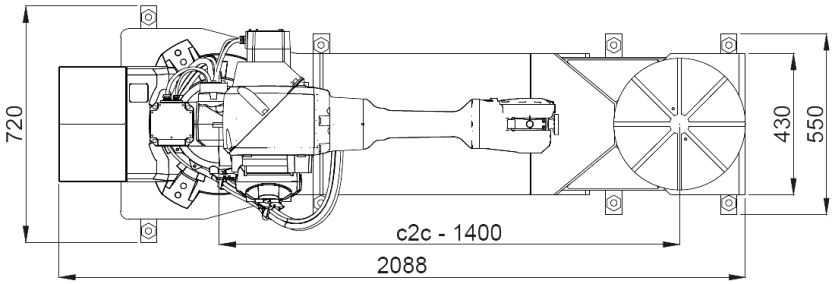

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