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Turntable TT 5.0-5t

Technical Data

Diameter		5.0 m
Permissible load		5.000 kg
Point load		750 kg (at area of 10cm x 10cm)
Total height	min.	600 mm
Material carrier plate		stainless steel
Rotating speed adjustable between		0.5 to 1.5 rpm
Rotating angle		+400°/-200°
Positioning accuracy		+/- 0.5°
Turntable drive		Helical-bevel gear
Motor		Servo motor, frequency inverter
Interference suppression:		20 dB under limits EN 55022 class B

Fig.: Drive unit assembly of turntable

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Control cable		Plastic optical fibre cable 980/1000 µm
Attenuation of fibre cable		625 nm
Remote control via		IEEE interface
Current consumption	max.	16 A
Voltage		380-400 VAC, 50/60 Hz, 3-phase
Concentricity tolerance		+/- 3 mm
Elevation tolerance less than		5 mm
Ground plane connecting every		50 mm
Square border interface (Easy fitting into Groundplane of chamber)		5.5 m x 5.5 m
Temperature range		+10°C to +35°C
Total weight	approx.	5.500 kg
Accessories		Interface to SCU/MCU/NCD Controller 1.5 m power supply cable Service manual

Brief description

The turntable **TT 5.0-5t** is especially designed for flush mounted installation in semi anechoic electromagnetic absorption chambers. The carrier plate is made of stainless steel.

A 290 mm diameter opening in the centre of the turntable provides the capability to insert power supply for testing.

The **IEEE 488.2 (GPIB) bus** provides an additional control option for all functions, when operated with the **SCU/MCU or NCD Controller.**

Power supply in the centre of the turntable:
It is possible to integrate various types of connectors for the power supply of the EUT

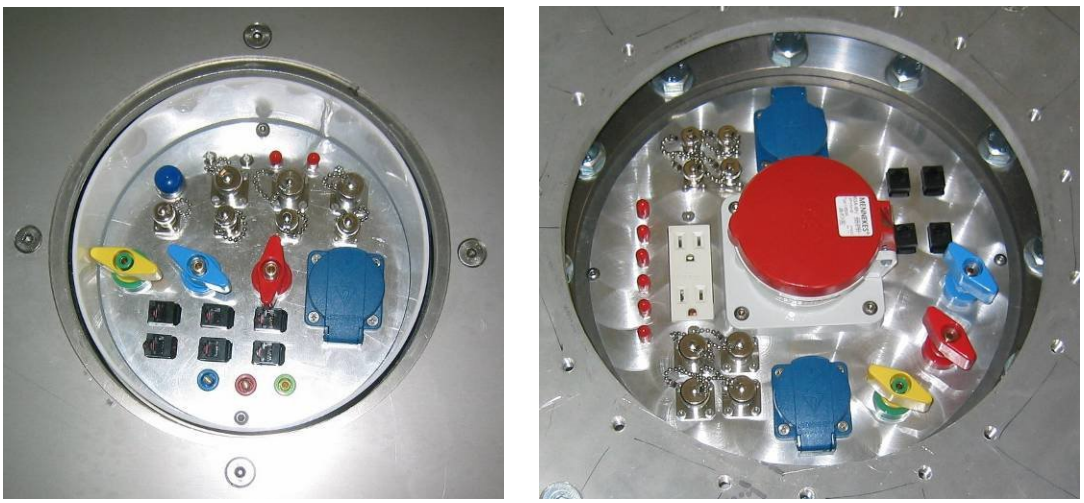

Figure: Power supply in the centre for EUT

Limit switches:
The turntable is equipped with a limit switch and positioning switch system to guarantee the exact positioning of the turntable. An “overturning” of the system is prevented by using limit switches.

Connection to the ground plane:
There is a long-lasting, maintenance-free contact systems included:
Material: hollow core copper beryllium tubing

Figure: Contact system between the turntables and to the ground plane

Covering and tolerances:
The covering is made of stainless steel, the gap between the turntable and the ground plane less than 5 mm.
The radial run out is within a tolerance of +/- 3 mm.
The height differences are within a range of 10 mm or better.

Figure: Level system of turntable for height adjustment

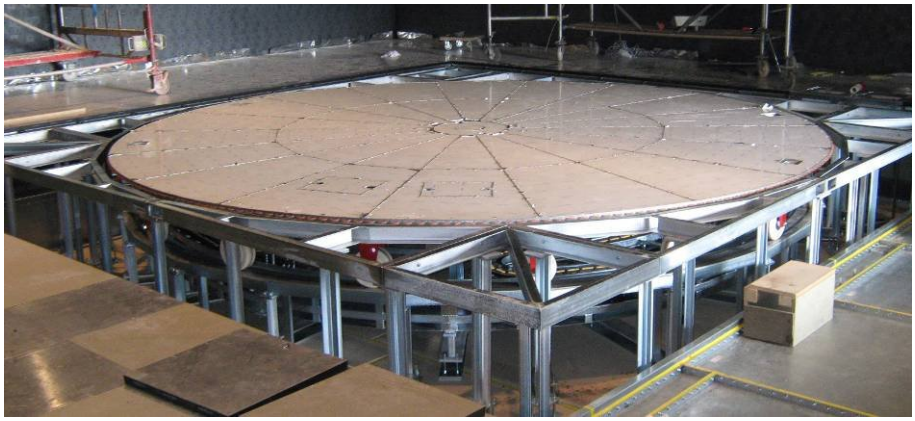

Figure: Stainless steel cover plates

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Turntable structure:
Solid welded steel construction; parts are assembled with screws (for easy transportation).
The complete structure is galvanised for long-lasting performance of the system.

Figure: Turntable structure made of solid welded galvanised steel

Further specifications and options available upon request

The following options are available upon request:

- Power supply in the centre with different connectors
- External power supply outside the centre with energy chain
- Continuous rotation with integrated slip rings or rotary joints
- Integrated exhaust gas extraction system
- Higher positioning accuracy
- Outdoor applications

Information presented enclosed is subject to change as product enhancements are made regularly. Pictures included are for illustration purposes only and do not represent all possible configurations.