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
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: 5.5 m x 5.5 m
(Easy fitting into Groundplane of chamber)

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](image-url)
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

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.
**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](image)

**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.