

## Turntable TT 3.0-3t



### Technical Data

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| Diameter                          | 3.0 m                               |
| Permissible load                  | 3.000 kg                            |
| Point load                        | 500 kg (at area of 10cm x 10cm)     |
| Total height                      | min. 400 mm                         |
| Material carrier plate            | stainless steel                     |
| Rotating speed adjustable between | 0.5 to 2.0 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  |         | 208-230 VAC, 50/60 Hz, single phase   |
| Concentricity tolerance  |         | +/- 3 mm  |
| Elevation tolerance less than  |         | 5 mm  |
| Ground plane connecting every<br>Square border interface<br>(Easy fitting into Groundplane of chamber) |         | 50 mm<br>3.4 m x 3.4 m  |
| Temperature range  |         | +10°C to +35°C  |
| Total weight   | approx. | 1.100 kg  |
| Accessories  |         | Interface to SCU/MCU/NCD Controller<br>1.5 m power supply cable<br>Service manual |

### **Brief description**

The turntable **TT 3.0-3t** 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

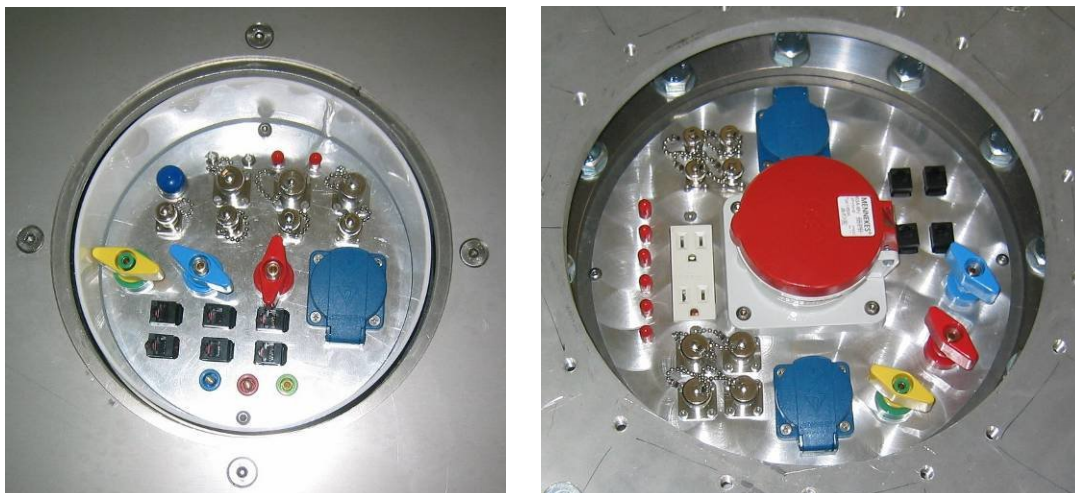


Figure: Power supply in the centre for EUT

**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

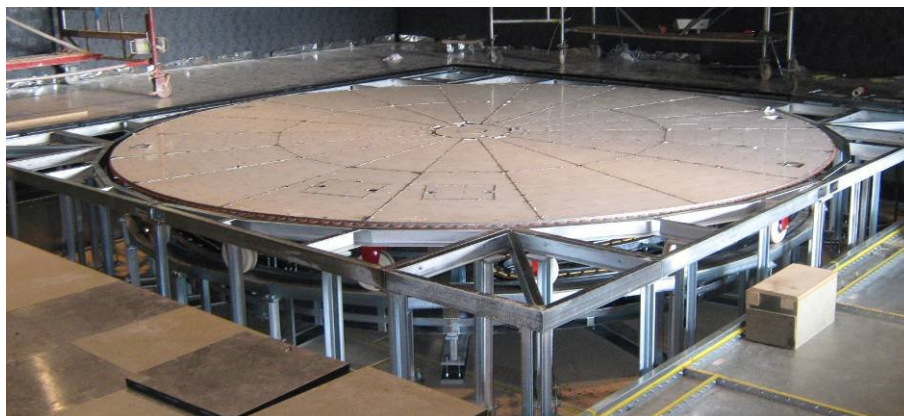


Figure: Stainless steel cover plates

**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.