

# **Turntable TT 4.0-4t**



# **Technical Data**

Diameter 4.0 m Permissible load 4.000 kg

Point load 600 kg (at area of 10cm x 10cm)

Total height min. 500 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 4.5 m x 4.5 m

(Easy fitting into Groundplane of chamber)

Temperature range +10°C to +35°C

Total weight approx. 3.000 kg

Accessories Interface to SCU/MCU/NCD Controller

1.5 m power supply cable

Service manual

## **Brief description**

The turntable **TT 4.0-4t** is especially designed for flush mounted installation in semi anechoic electromagnetic absorption chambers. The carrier plate is made of stainless steel.

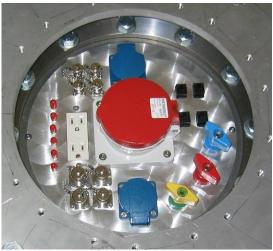
A 290 mm diameter opening in the centre of the turntable provides the capability to insert power supply for testing.

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





eMail:

Web:

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.