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

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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

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

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.