Turntable TT 8.0-10t

Technical Data

Diameter 8.0 m
Permissible load 10,000 kg
Point load 1,250 kg (at area of 10cm x 10cm)

Total height min. 1.0 m
Material carrier plate stainless steel

Rotating speed adjustable between 0.3 to 1.0 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
Attenuation of fibre cable
Remote control via
Current consumption
Voltage
Concentricity tolerance
Elevation tolerance less than
Ground plane connecting every
Square border interface
Concentricity tolerance
Elevation tolerance less than
Voltage
Current consumption max.

Plastic optical fibre cable 980/1000 µm
625 nm
IEEE interface
32 A
380-400 VAC, 50/60 Hz, 3-phase
+/- 3 mm
5 mm
50 mm
8.5 m x 8.5 m

Brief description

The turntable TT 8.0-10t 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

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.

![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.