# Technical Data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>3.0 m</td>
</tr>
<tr>
<td>Permissible load</td>
<td>3,000 kg</td>
</tr>
<tr>
<td>Point load</td>
<td>500 kg (at area of 10cm x 10cm)</td>
</tr>
<tr>
<td>Total height min.</td>
<td>400 mm</td>
</tr>
<tr>
<td>Material carrier plate</td>
<td>stainless steel</td>
</tr>
<tr>
<td>Rotating speed adjustable between</td>
<td>0.5 to 2.0 rpm</td>
</tr>
<tr>
<td>Rotating angle</td>
<td>+400°/-200°</td>
</tr>
<tr>
<td>Positioning accuracy</td>
<td>+/- 0.5°</td>
</tr>
<tr>
<td>Turntable drive</td>
<td>Helical-bevel gear</td>
</tr>
<tr>
<td>Motor</td>
<td>Servo motor, frequency inverter</td>
</tr>
<tr>
<td>Interference suppression:</td>
<td>20 dB under limits EN 55022 class B</td>
</tr>
</tbody>
</table>

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**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
50 mm

Square border interface
3.4 m x 3.4 m

(Easy fitting into Groundplane of chamber)

Temperature range
+10°C to +35°C

Total weight approx.
1.100 kg

Accessories
Interface to SCU/MCU/NCD Controller
1.5 m power supply cable
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](image)
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.