



Rainford Heavy Duty Turntable TT 10.0-70t



Technical Data

Diameter	10.0 m
Load Capability	70,000 Kg
Point Load	8,000 kg (at 300 x 200 mm)
	No other loads within an area of radius 1 m
Height	1.8 m
Material Cover Plate	Stainless Steel
Rotating Speed Adjustable Between	0.3 to 1.0 rpm
Positioning Accuracy	+/- 0.5°
Rotating Angle	0° to 400°
Turntable Drive	High Precision Helical-Bevel Gear Asynchrony Motor
Frequency Inverter	Manufacturer Siemens
Drive Unit	Shielded and Radio Interference suppressed less than 10 dB under EN 55022 class B

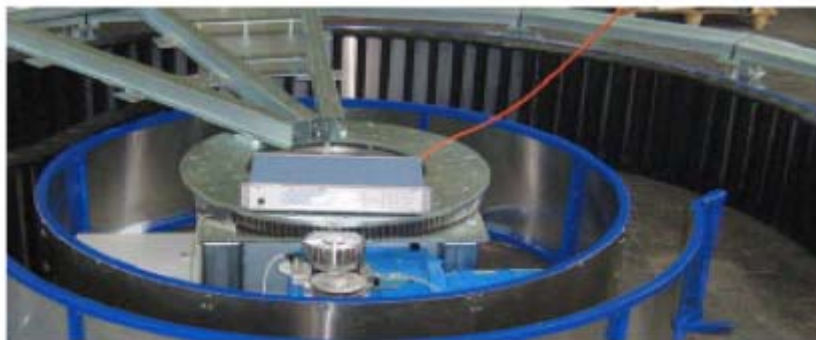


Figure: Drive Unit Assembly of Turntable

Control Cable
Attenuation of Fibre Cable

Plastic Optical Fibre Cable 980/1000 µm
625 nm



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Remote Control via	IEEE Interface
Current Consumption	Max. 32A
Voltage	400 VAC, 50/60 Hz, 3 Phase
Concentricity Tolerance	+/- 3 mm
Elevation Tolerance Less Than	5 mm
Ground Plane Connecting Every	50 mm
Temperature Working Range	-10°C...+40°C
Accessories	Interface to SCU/MCU Controller 3 m Power Supply Cable Service Manual

Brief Description

The turntable **TT 10.0-70t** is especially designed for flush mounted installation in semi anechoic electromagnetic absorption chambers. The carrier plate is made of stainless steel.

A 400 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 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.



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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:

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

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.

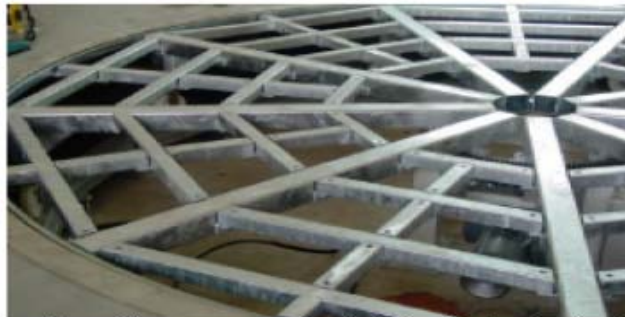


Figure: Turntable Structure Made of Solid Welded Galvanised Steel



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