



RF Shielded Fixtures

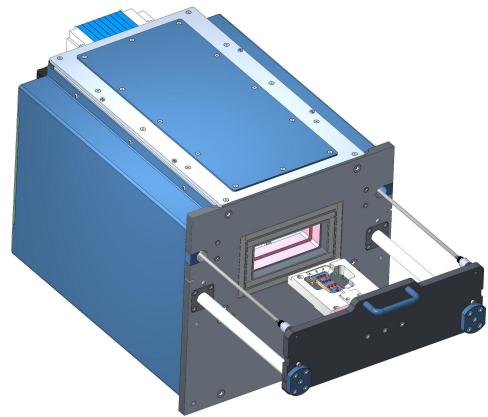
26.08.2025 v1.2



PRODSF
TECHNOLOGIES

Features and Benefits

- **Ultimate RF measurement solution:** Custom chamber design for a wide variety of applications.
- **Easy to expand platform:** Due to standard U size, more chambers can be installed together.
- **Optimal for mass testing:** Automated product handling built in.
- **Multi purpose:** Can be used for radiated and conducted measurements.
- **Large isolation:** Minimum 70dB inside to outside isolation from any direction.
- **Versatility:** Customizable chamber interface - for antennas and control signals.
- **Anechoic chamber:** The inside is coated with high loss RF material to eliminate reflexions inside.
- **Easy to access:** 130 mm x 370 mm Service opening on the top.
- **Large frequency range:** Operation between 1GHz and 10GHz.
- **Rack mount and table top versions available**
- **Manual and robotic feeding available**



Applications

- Product testing
- RF Automotive development and testing
- End of line testing
- Component characterization

Description

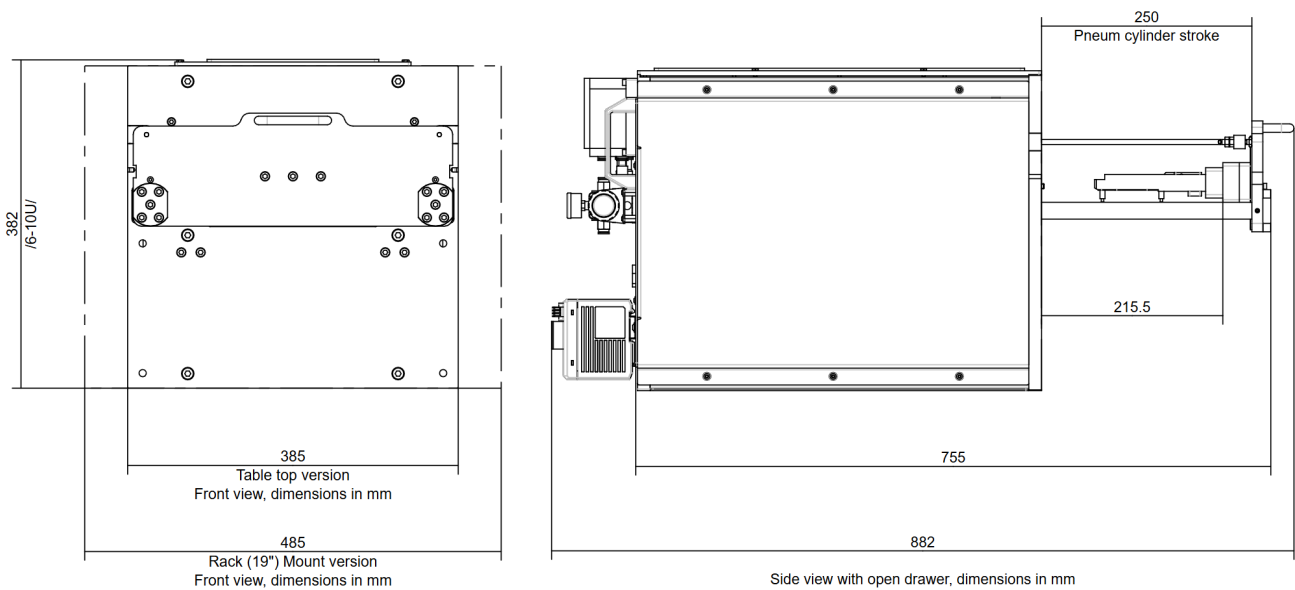
Our RF chamber for automotive end-of-line testing is a shielded environment designed to isolate and accurately measure radio frequency signals from outside noise sources. It ensures minimal external interference for precise validation of wireless systems such as keyless entry, **Bluetooth, Wi-Fi, or UWB**. The chamber is equipped with high-performance absorbers designed for automotive frequency bands. Easy integration with automated test equipment enables efficient throughput. LED measurement and pneumatic button actuation are available as optional features.

Technical Data

Electrical Specification

Parameter	Test condition	Symbol	Min	Typ	Max	Unit
Frequency range	-	F_{RF}	2	-	10	GHz
Shielding isolation - across F_{RF}	Closed fixture - front		70	80	-	dB
	Closed fixture - under		70	75	-	dB
Reflexion loss	Closed fixture		19	-	-	dB

Dimensions

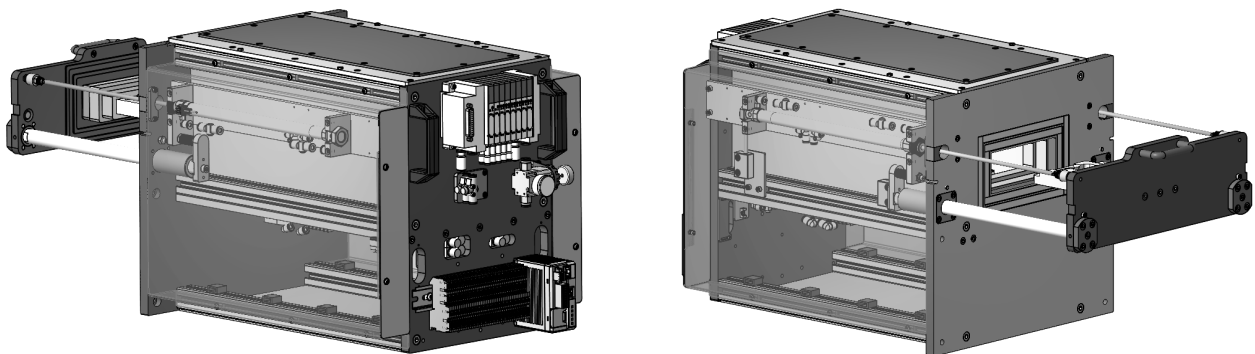


Parameter	Comment	Value	Unit
Outer dimensions	W × H × D	385 × 385 × 650	mm
Inner dimensions	W × H × D	150 × 135.5 × 370	mm
Front opening	W × H	130 × 100	mm
Drawer size	W × D	130 × 250	mm
Drawer stroke	open-close	Up to 350	mm
Rack mount		19", 6-10 U	
Mass		50	kg

Environmental Specification

Parameter	Test condition	Symbol	Min	Typ	Max	Unit
Pneumatic pressure				6	10	bar
Pneumatic fitting			6			mm
Closing force					150	N
Operation temperature			10	-	27	°C
Storage temperature			0	-	50	°C
Humidity			-	-	60	%
Altitude			-	-	2000	m
IP rating			IP20			-
Designed lifetime			10			year(s)

Chamber walls must be directly connected to main Earth.

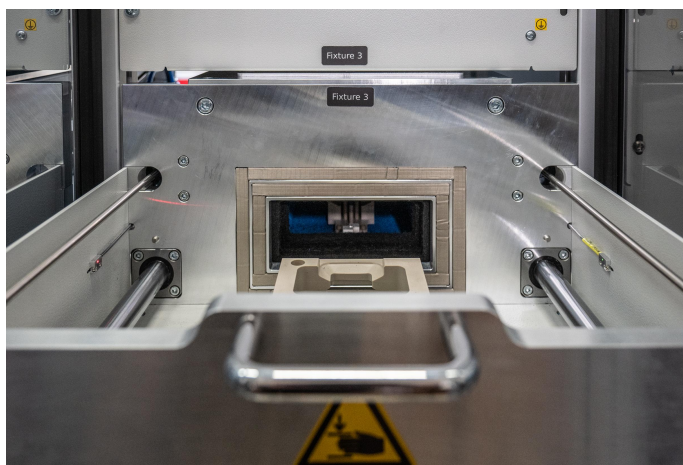


CAD-render of the fixture, front and back isometric view

Application Example



*Test tower with scalable test capacity
for manual and robotic DUT manipulation*



Fixture with open drawer and removed service cover