

TDK Fully Automatic Sliding Door

Product Overview The newly developed TDK Sliding Door is an automatic shielded door designed specifically for use in EMC test facilities. The TDK door features fully automatic operation, an ultra smooth sliding mechanism, and quiet operation. The opening and closing mechanism is driven by two synchronized stepping motors, allowing constant, freely programmable operating speeds.

State-of-the-Art Design and Performance The TDK door incorporates a “zero-force” contact clamping mechanism that eliminates the excessive force to the shielded room structure caused by other door designs.

TDK doors are constructed of industrial quality steel panels mounted on a rigid steel core. A special RF sealing provides outstanding performance and stability over time. Door interiors are designed to accept a lining of TDK’s top performing absorbing materials to match the shielding performance characteristics of the chamber.

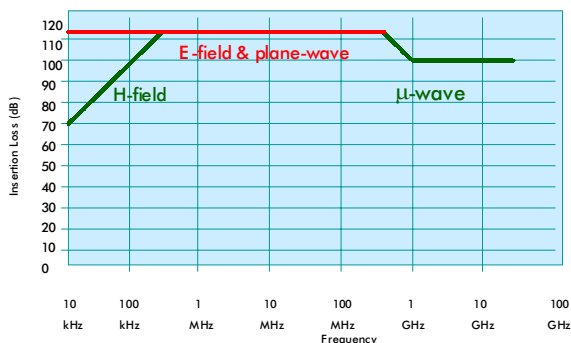
Designed to Meet Your Needs TDK doors are available in a range of sizes to fit your specific chamber application. The door features a self-standing support structure that can be implemented in any kind of shielding application. The standard design comes complete with a fully automatic ramp mechanism that is synchronized to the door opening and closing cycle. A zero-threshold design is also available.



The TDK Sliding Doors combine industrial quality construction with high-performance absorber materials to provide fully automatic operation and excellent RF-shielding.

Features

- Unique vibration-free opening and closing process powered by twin servo motors
- Zero-force contact clamping mechanism (no force to the shielding structure)
- Fully programmable, constant and variable motor speed
- Front panel access for easy maintenance
- Freestanding support structure
- Full CE compliance



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Mechanical Specifications

Door Size:	5'-11" W x 7'-11" H (1.8 m x 2.4 m); non-standard sizes available
Support Structure:	16'-5" L x 11'-6" H (5 m x 3.5 m); depth varies with absorber application
Range of Motion:	X-direction – varies Y-direction – 7'-3" (220 cm); non-standard ranges available
Pit Depth:	10" (25 cm)
Sealing:	Double row of copper finger stock
Load Weight of Leaf:	2200 lbs. (1000 kg) standard
Color:	White (RAL 9010)

Control Specifications

Operation mode:	Operation panel located on the support structure. Activated using twin push button method.
Control Panel Position:	Left or right
Open, Close Process:	Opening and closing process is driven by 2 synchronized stepping motors.
Latching System:	3 lock positions on each vertical side. Mechanical lock system driven by air cylinder.
Interface:	Limit switch in fully closed position signals "Test in Progress"

Electrical Specifications

Power supply:	240/120 V 10 Amp
Air Supply:	85 PSI (6 bar)

Safety Specifications

- Emergency shutdown switch on operation panel
- Touch sensor on door blade reverses the operation if obstructed
- Flashing light activates when door is in motion
- Signal horn activates when door is in motion

Ordering Information

Product:	TDK Automatic Sliding Door
Model Number:	TEE-SD-X-010
Warranty:	1 year limited

To place an order or to learn more about the TDK RF Solutions products that best meet your needs, contact your TDK sales representative:

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