

# BI-PARTING MRI SLIDING DOOR





## Bi-Parting MRI Sliding Door

### Key Features

- Fully compatible with all major MRI manufacturers and RF shielding requirements
- Touch-screen HMI control panel with keyed security mode
- Linear sliding motion designed for smooth, controlled operation
- Narrow operator profile to preserve space within treatment and imaging rooms
- Quiet motion system ideal for intra-operative environments
- Multiple interlock options for access control and patient/staff safety

The Bi-Parting MRI Sliding Door is engineered for MRI imaging environments, where reliability and RF integrity are essential. Using a pneumatic transport system, the door provides stable, consistent movement while maintaining MRI-level RF shielding performance. All threshold and track components are designed to meet operating-room standards.

### Standard Features

- Interlock-ready for room control integration
- ADA-compliant, low-profile threshold
- Pneumatic drive system for smooth, quiet motion
- Pressure-monitoring that reverses the door if resistance is detected
- Touch-screen control panel
- Status outputs for Door Open and Door Closed
- Compact track design to maximize room space
- Built maintenance reminder

### Operation

The door moves along a fixed linear axis, ensuring dependable performance and predictable operation. The bi-parting design minimizes required side clearance and keeps equipment pathways unobstructed. The door system employs quiet-motion components that reduce noise. A built-in pressure sensing system prevents the door from closing when personnel or equipment. Multiple interlock configurations can be integrated with MRI systems, safety panels, and facility controls.

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## MRI Compatibility

The Bi-Parting MRI Sliding Door meets the RF attenuation requirements of all MRI OEM's and is fully compliant with all magnet manufacturers' RF specifications.

## Safety Systems

- Emergency stop control located on the operator panel
- Pneumatic pressure-monitoring that detects obstructions and automatically reverses the door when resistance is sensed
- Fire alarm and magnet-status integration options

## Standard User Connections

- Door Fully Open
- Door Fully Closed
- Fire Alarm input/output

## Technical Specifications

### Electrical

- Input: 100–240 VAC, 50/60 Hz
- Current Draw: Approximately 2.8–1.4 A depending on input voltage
- Control Output: 24 VDC, 5 A for system electronics

### Pneumatic Requirements

- Clean, dry compressed air supply
- Minimum **100 psi** and **10 cfm**
- Fully pneumatic door travel
- 24 VDC electro-pneumatic signal control

## Door Performance

- Designed to meet or exceed **100 dB RF attenuation** at MRI operational frequencies (up to 150 MHz)
- Threshold and track engineering suitable for surgical and sterile environments
- Heavy-duty components engineered for high cycle counts and low maintenance requirements

### **Bi-Parting MRI Sliding Door**

start with trust.



## **Albatross Projects**

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