

**BTX Window Automation  
Product Specifications  
Panel Track Systems**

Motorized Panel Track System

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**Part 1 – General**

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**1.01 Abstract:**

- A. Scope of work is to provide direct-drive traversing tracks for panel systems that may be built to precise specifications for commercial and/or residential applications that are operated by a BTX motorized traverse system along with accessories, attachment hardware and equipment necessary to complete satisfactory installation.

**1.02 Turnkey responsibility for motorized drapery systems:**

- A. To ensure control of responsibility for satisfactory performance and installation of the motorized drapery systems, the design, engineering and installation shall be assigned to a single manufacturer and his authorized dealer/installer.
- B. The base building contractor (main contractor) shall provide and coordinate the following items with the window shade contractor/installer for all window shade systems:
  - 1. Pockets recessed into ceiling
  - 2. Power wiring
  - 3. Wire conduits as required
  - 4. Duplex outlets and J-boxes

**1.03 Submittals:**

- A. Manufacturing literature to describe assembly, materials, installation instructions, and specific data. Include any pertinent wiring diagrams.
- B. Shop drawings are to include but are not limited to, all components, fasteners, and installation methods.
- C. Window systems are custom-built based on measurements taken in the field.

**1.04 Quality Assurance:**

- A. Manufacturer's Qualification
  - 1. BTX Window Automation is the original manufacturer of a unique line of motorized headrail systems, electronic shading devices and controls.
- B. A qualified installer or sub-contractor shall perform installation.
- C. Installation shall conform to Local and National Building Code and any applicable local standards.
- D. Sample system may be provided upon Architect's request and BTX authorization.

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**1.05 Delivery, Storage, and Handling**

- A. Systems to be delivered to installation site or to installer intact in original manufacturer's custom-built containers.
- B. Systems shall be operated under normal room temperature range, humidity, and operating conditions.

**1.06 Warranty**

- A. Provide BTX standard limited warranty of five (5) years from date of shipment against defects in materials and workmanship of motors and hardware. Electronic and electrical controls are warranted against defects in materials and workmanship for one (1) year from date of shipment from the factory.

**Part 2 – Products**

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**2.01 Manufacturer:**

- A. BTX Window Automation  
10763 Sanden Drive  
Dallas, TX 75238  
(800) 422-8839

**2.02 Components:**

- A. ABC-04-LW panel track motors shall be asynchronous 12V-24V DC rated at 7 watts developing 30 N torque traveling at 2.5 in/sec capable of moving 33 lbs. The motor shall be powered be either 100V-240V AC to 24V DC power transformer, 15V DC battery wand, or 12V solar panel. Motors shall have a thermal protector to prevent overheating. Motor includes internal electronic limit switches. Limit switches shall be easily adjustable in either direction by means of BTX compatible control device.
- B. Drive Assembly and Return Assembly shall be manufactured from injection molded plastic.
- C. Headrail shall be manufactured from extruded aluminum and will be available in 3-channel, 4-channel, or 5-channel profiles.
- D. Drive chain shall circulate internally in the headrail to ensure smooth operation.
- E. Sliding profiles of the panels shall have protruding stoppers for alignment and operation.
- F. Fabric panel profile attachment shall easily connect to sliding profile, joining the hanging panel and the traversing profile.

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- G. Fabric panels shall be calculated for coverage across full track width. Custom panel sizes can be requested from factory.
- H. Wall/Ceiling Brackets shall be made from formed steel with quick release and allow for mounting of system either to wall or ceiling.

**2.03 Controls:**

- A. The switching device to activate the system shall be either a BTX RF remote control, wall-switch, or contact closure. Systems can be controlled individually or as a group with the use of the RF control devices. Motors can be integrated with virtually any home automation/lighting control, or building management systems utilizing contact closure and wireless mesh network.

**Part 3 – Execution**

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**3.01 Inspection and Preparation:**

- A. Qualified installer shall be responsible for window measurements prior to installation, installation conditions, and preparation of all mounting surfaces.
- B. The power supplied to the transformer shall be 100V – 240V AC 50Hz. All on-site wiring shall be provided by the owner.

**3.02 Installation:**

- A. System installation shall be in accordance with BTX mounting instructions.

**3.03 Maintenance:**

- A. Traversing system components should not require routine maintenance under normal operating conditions.
- B. For fabric care refer to fabric manufacturer's care and use directions.