

**BTX Window Automation  
Product Specifications  
Vertical Blind Systems**

Slope

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**Part 1 – General**

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**1.01 Abstract:**

- A. Scope of work is to provide vertical blinds for commercial and/or residential applications that are operated by BTX motorized traverse systems along with, accessories, attachment hardware, and equipment necessary to complete satisfactory installation.

**1.02 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.

**1.03 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.

**1.04 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.

**1.05 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.

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**Part 2 – Products**

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**2.01 Manufacturer:**

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

**2.02 Components:**

- A. Motors shall be synchronous planetary drive. Rotation only shall require one motor. Rotation and traversing shall require two motors. Slope control relay shall synchronize the traversing and rotation action. Motors shall operate at constant speed regardless of load. Motors shall be rated at 30 watts and either 110v/60Hz or 220v/50Hz and are UL recognized. Motors shall have fully encapsulated shock resistant motor coil and are moisture resistant and fire resistant. Motors shall also have thermal protector for automatic switch off to prevent overheating. Each motor shall be provided with precision planetary gears and internal limit switches protected by security cover. The limit switches shall ensure automatic motor switch off at the end of traversing and/or rotation cycle.
- B. Drive Assembly and Return Assembly shall be manufactured from injection molded plastic.
- C. Headrail shall be manufactured from extruded aluminum 1-3/4" in width, 2" in height with .051" wall thickness. Headrail is also grooved to accept color-coordinated fabric facing.
- D. Screw drive rod shall be composed of extruded aluminum and pushes the carrier along the head channel.
- E. Rotation drive rod shall also be formed of extruded aluminum and turn the vanes 180 degrees at the end of the cycle.
- F. Carriers shall be manufactured from precision molded acetyl resin to ensure smooth operation inside head channel. Each carrier shall be spring loaded and provided with stainless steel metal hook. The carriers will be no more than .425" (11mm) wide. Carrier No. 09.103.10S0 for slopes up to 35 degrees incline. Carrier No. 09.103.11S0 for slopes from 35 to 55 degrees. The carriers shall rotate to a full 180 degrees for full closure and will be provided with 150-degree rotation control for movement into stack to prevent jamming of stacking vanes. Carriers are provided with a slip clutch mechanism to prevent jamming.
- G. Wall brackets are made of extruded aluminum and fit into headrail slot. Drilling directly through the headrail center channel shall make ceiling mount possible.

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**2.03 Controls:**

- A. The switching device to activate the system shall be either a BTX switch for hardwired control or the BTX radio or IR remote control. Multiple systems shall be controlled either individually or by BTX group controllers or automatic controllers including sun sensors and programmable digital timers. Controls can be integrated with home automation, or building management systems.

**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 shall be 110v or 220v AC three conductor to the primary switch (hardwire switch, radio or IR receiver unit, or BTX automated controls). Wiring between primary switch and selected control units shall be in accordance with manufacturer's wiring schematics and specifications. 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.