

**BTX Window Automation
Product Specifications
Shade Lifting Systems**

MotorBlind™ MLS-40

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Part 1 – General

1.01 Abstract:

- A. Scope of work is to provide horizontal blinds, pleated shades, and cellular shades that are operated by BTX motorized lift 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

2.01 Manufacturer:

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

2.02 Components:

- A. 8/03 1-1/2" OD tubular motors shall be asynchronous 110v/60Hz rated at 110 watts developing 3 NM torque at 27 rpm capable of lifting up to 26 lbs. 220v versions of each motor are available. Motors shall have fully encapsulated shock resistant motor coil and be moisture resistant and fire resistant. All motors are UL and CSA recognized and equipped with a self-adjusting conical brake. Each motor is equipped with precision planetary gears and pre-set internal limit switches. Motors shall also have thermal protector for automatic switch off to prevent overheating. Limit switches shall be easily adjustable in either direction by means of separate adjustment knobs.
- B. Tube shall be made of extruded aluminum, 44mm (1.7325") overall width and octagonal in shape.
- C. Cradle for 50mm (1.97") shuttle shall be made of injection molded plastic and made to fit into a precut opening in the headrail.
- D. Shuttle shall be made of molded plastic with 50mm (1.97") outside dia. and octagonal inside with 46mm (1.8124") dia. to snugly match and smoothly slide on octagonal shaft.
- E. Adaptor Set allows the motor to drive the tube and shall be manufactured from injection molded plastic.
- F. Idler insert shall match the tube shape internally and is provided with a round steel shaft for mounting in the end bracket. Inserts are made from injection molded Durethan¹ plastic.
- G. End Brackets shall be made of molded plastic.
- H. Mounting Brackets shall be made of formed steel with quick release capability.
- I. End Caps shall be made of molded plastic and give a finished look to the overall assembly.

¹ Durethan is a registered trademark of Bayer Corp.

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- J. Headrail shall be made of formed rolled steel. Colors shall be as specified, white, alabaster, silver, bronze, or black.

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

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. Lift system components should not require routine maintenance under normal operating conditions.
- B. For care of blinds and shade materials refer to manufacturer's care and use directions.