

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

Motorized Gemini – ABC-05

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Part 1 – General

1.01 Summary:

Scope of work is to provide Gemini shades that are operated by BTX motorized lift system along with accessories, attachment hardware, and equipment necessary to complete satisfactory installation.

1.02 Turnkey responsibility for motorized roller shade systems:

- A. To ensure control of responsibility for satisfactory performance and installation of the motorized roller shade 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. Shade 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 Warranty

- A. Manufacturer shall provide five (5) year warranty from the date of installation on all shade motors. All operating control and electronic accessory components shall carry a one (1) year limited warranty against defects in materials and workmanship.

1.05 Delivery and storage

- A. Systems shall be delivered to the site in original manufacturer's containers.
- B. Containers shall be uniquely labeled to identify the corresponding window openings and locations.
- C. All materials shall be stored in a dry, secure place protected from weather, water and heat, surface contaminants, construction traffic and all other potential damage.

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Part 2 – Products

2.01 Manufacturer:

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

2.02 Components:

- A. ABC-05 tubular motors shall be asynchronous 12V-24V DC rated at 7 watts developing 0.8 NM torque at 28rpm capable of lifting 6 lbs. The motor shall be powered by either 100V-240V AC to 24V DC power transformer, 15V DC battery wand, or 12V solar panel. All motors are equipped with a mechanical brake. 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. Tube shall be 38mm extruded aluminum.
- C. Snap-in motor and idler brackets shall be either stamped steel and allow the motor or idler ends to lock into the bracket for ease of installation.
- D. Idler end plug shall match the tube shape internally and is provided with accompanying idler pin that attaches to mounting bracket. Idler components are made from injection molded plastic.
- E. Double-sided tube tape is used and for fabric attachment.
- F. Adaptor Set allows the motor to drive the tube and shall be manufactured from injection molded plastic.
- G. Bottom Bar set shall be extruded aluminum and utilizes two parts, internal and external. The fabric shall wrap around the internal bottom bar component from within the external bottom bar component. This is to ensure uniform weight distribution and operation and allow fabric to loop back up toward the system brackets.
- H. System shall utilize fascia or top mounting profile hardware for capturing the end of the fabric panel to apply the dual-layer effect. Fascia shall be extruded aluminum.
- I. Shade Pocket and Pocket Enclosure shall be made of extruded aluminum for optional mounting in recessed ceiling pocket.
- J. Fabric shall be specified by designer/decorator/end-user. Please refer to BTX sample cards for specifics on color selection, parameters/guidelines and attributes.

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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

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