

**GT SYSTEM 710 "GEMINI"**  
**SUGGESTED ARCHITECTURAL SPECIFICATIONS**  
**SECTION 8**  
**AUTOMATIC ENTRANCE SYSTEMS**

## **PART 1 - GENERAL**

### **1.01 DESCRIPTION**

- A. Furnish and install automatic entrance equipment as indicated on drawings and as specified.
- B. Related work specified elsewhere. (See note to Specifier\*)
  - 1. Electrical Supply: Section \_\_\_\_\_
  - 2. Floor Preparation: Section \_\_\_\_\_

### **1.02 QUALITY ASSURANCE**

- A. Manufacturer's Qualifications:  
Products specified shall be represented by a factory authorized and trained distributor. Distributor shall maintain a parts inventory and trained personnel capable of providing service.
- B. Requirements of Regulatory Agencies: Meets requirements of disabled in accordance with Federal Regulations ANSI 117.
- C. All automatic equipment to comply with ANSI A156.19.
- D. Gyro Tech equipment as manufactured by NABCO ENTRANCES, INC. has been specified and shall be quoted as the base bid. Other systems can be quoted along with information specifically detailing the differences from the following specification.

### **1.03 SUBMITTALS**

- A. Shop drawings showing complete elevations, detail and method of anchorage to location; installation of hardware; size, shape, joints and connections; and details of joining with other construction.
- B. Templates and diagrams and/or shop drawings, as needed shall be furnished to fabricators and installers of related work for coordination of operators with doors, frames, hardware, concrete work and other work.
- C. A copy of appropriate manual shall be provided to owners engineer upon completion of installation.

### **1.04 WARRANTY**

- A. Warranty of power operators controls, and labor provided by automatic door equipment installer against defects in material and workmanship at no cost to owner, for a period of one year from date of substantial completion of installation.

## **PART 2 - PRODUCTS**

### **2.01 APPROVED MANUFACTURER**

- A. Automatic entrance equipment and controls shall be manufactured by:  
NABCO ENTRANCES INC.  
S82 W18717 Gemini Drive  
P.O. Box 906  
Muskego, Wisconsin 53150  
Phone: (877) 622-2694  
Fax: (888) 679-3319

### **2.02 AUTOMATIC SWING DOOR SYSTEM**

- A. Gyro Tech System: Automatic swing door system for physically challenged as indicated on door schedule and details.
- B. Mode of Operation: Spring-close operator shall open door by energizing motor and shall stop by stalling motor against mechanical stop. Door shall close slowly by means of spring energy; closing force shall be controlled by an adjustable hydraulic closer independent of the motor and electric control. Complete automatic door cycle - 8 to 20 seconds. Closing speed shall be fully adjustable. Manual door operation shall require less than 12 pounds of force applied to door stile. System shall also operate as a manual door in event of a power failure. Hold open time shall be adjustable from 0-60 seconds.

C. Components:

1. Operator Housing
2. GT System 710 Power Operator
3. Electronic Control
4. Connecting Hardware

1a) Operator Housing shall be 5 3/4" (146mm) deep by 6" (152.4mm) high x 36" (914.4mm) long aluminum extrusion with finished end caps and shall be prepared for mounting to new or existing door frames. All structural sections shall have a minimum thickness of .166 (4.2mm) and shall be fabricated of 6063-T5 aluminum alloys. Housing cover shall be removable to provide service access and shall be extruded from 6063-T5 aluminum alloys to a minimum thickness of .100 (2.5mm). Plastic covers shall not be acceptable.

1b) Finish: Aluminum shall have a standard finish of AA-M12-C22-A31 (204R1 Clear) or AA-M12-C22-A42 (313 Dark Bronze). Black and special finishes available upon request.

2) "GEMINI Power Operator completely assembled unit shall include silent bevel gear and roller chain transmission. Gears and chain coated with a special dry lubricant for extreme temperature conditions. Closer to be an adjustable self contained, sealed, spring/hydraulic unit. Attached to the transmission system shall be a DC permanent magnet motor. Motor shall operate from electronic control and require less than 3 amps at full power stall. Complete unit shall be mounted with provisions for easy replacement without removing door from pivots or frame.

3) Electrical Control: Self contained 100% solid-state unit with all electronic components for proper operation and switching of "GEMINI Power Operator. Control shall include time delay, Push-N-Go circuitry. Control shall also include sequential mode, and shall have variable opening speed adjustment.

4) Connecting Hardware: Connect Conversion Unit (CU-GT400) drive arm to inswing door with a urethane covered roller, which shall ride in a track fabricated of 6061-T6 aluminum alloy attached to the door rail where required for pull-type operation. Outswing doors shall be connected to operator by a two piece drive arm with self aligning rod ends and connecting door bracket for push-type operation.

### **2.03 ACTIVATING DEVICES**

A. Wall Switches: Stainless steel, flush or surface mounted, engraved or plain as manufactured by NABCO ENTRANCES, INC.

B. Optional activators available - See Product Catalog.

## **PART 3-EXECUTION**

### **3.01 INSTALLATION**

A. Automatic door equipment shall be installed by factory-trained installers in compliance with manufacturer's recommendations and approved shop drawings.

### **3.02 CLEANING AND PROTECTION**

A. After installation, clean framing members as recommended by manufacturer. Aluminum surfaces in contact with masonry, concrete, and steel shall be protected from contact by use of neoprene gaskets where indicated, or a coat of bituminous paint to prevent galvanic or corrosive action. Protect unit from damage during subsequent.

#### **\* COVER NOTE TO SPECIFICATION WRITER**

Indicate under appropriate Section the following by others:

ELECTRICAL INSTALLER shall furnish and install all conduit and electrical wiring for activating and door operator. A minimum of 5 amperes, 115-volt, A/C, 1-phase circuit shall be furnished for each door operator, terminate and connect to operator control panel in operator housing.

CONCRETE INSTALLER shall prepare floor at location of automatic entrance system to accommodate the surface or recessed electric switch mats as indicated on drawings.