Models GT710, GT8310 & GT8710  
MEDIUM DUTY - LOW ENERGY - SWING DOOR OPERATOR  
OVERHEAD CONCEALED (OHC) & CONVERSION UNIT (C.U.)

DIVISION 08 – OPENINGS  
SECTION 08 42 29.33 SWINGING AUTOMATIC ENTRANCES

Note to Specifier: Articles and paragraphs below may be edited or modified to suit specific project requirements. Add section numbers and titles per CSI “MasterFormat” and specifier’s standard practice. Contact manufacturer’s representative to discuss specification modifications, performance requirements, accessories and/or related equipment that may be applicable to this project.

Part 1 - GENERAL

1.01 DESCRIPTION
A. Furnish and install automatic swing door equipment as indicated on drawings and specifications.
B. Related work specified elsewhere.
   (See note to Specifier*)
   1. Electrical Supply:
      Section _________

1.02 REFERENCES
A. American Association of Automatic Door Manufacturers (AAADM) - www.aaadm.com
B. American National Standards Institute (ANSI) - www.ansi.org
C. Builders’ Hardware Manufacturers Association (BHMA) - www.buildershardware.com
D. Underwriters Laboratory, Inc. (UL) - www.ul.com
E. Canadian Standards Association (CSA) - www.csa.ca
F. National Fire Protection Association (NFPA) - www.nfpa.org
G. International Code Council (ICC) - www.iccsafe.org

1.03 QUALITY ASSURANCE
A. Manufacturer’s Qualifications: Manufacturer to have at least (5) five years experience in the fabrication of automatic and manual entrance systems.
B. Installer’s Qualifications: Products specified shall be represented by a factory authorized and trained distributor. Distributor shall be AAADM Certified, maintain a parts inventory and have trained service personnel with experience installing and maintaining units indicated for this project.
C. All automatic equipment to comply with UL325 (USA and Canada).
D. All automatic equipment to comply with ANSI A156.19.

1.04 SUBMITTALS
A. Product Data: Submit manufacturer’s product and complete installation data for all materials covered in this section.
B. Shop Drawings: Submit complete elevations, details and methods of anchorage to location; installation of hardware; size, shape, joints and connections; and details of joining with other construction.
C. Templates and Diagrams: As needed shall be furnished to fabricators and installers of related work for coordination of swinging door system with concrete work, electrical work, and other related work.

D. A copy of appropriate manual shall be provided to owner / contractor upon completion of installation.

1.05 SUBSTITUTIONS
A. Gyro Tech equipment as manufactured by NABCO ENTRANCES, INC. has been specified and shall be quoted as the base bid. Proposals for substitution products may be submitted by the bidding contractors a minimum of 10 days prior to bid due date. The proposed substitution shall meet the quality and performance standards described in this specification.

1.06 JOB SITE CONDITIONS
A. Site Survey: Verify site conditions including, but not limited to the following; opening sizes, floor conditions, plumb and level mounting surfaces (substrates shall be of proper dimension and material).

B. Coordinate installation with glass, glazing, hardware and electrical to avoid construction delays.

1.07 WARRANTY
A. Warranted materials shall be free of defects in material and workmanship for a period of one year from date of substantial completion. During the warranty period the Owner shall request NABCO factory-trained technicians to perform service. Warranty repairs are provided during normal business hours. Owner to receive warranty after completion of installation.

1.08 COMPLIANCE
A. A completed American Association of Automatic Door Manufacturers (AAADM) compliance form shall be submitted as proof of compliance with ANSI 156.19 Standard for power operated pedestrian doors. Door(s) shall be inspected and a form shall be signed by an AAADM certified inspector prior to placing door(s) in operation.

Part 2-PRODUCTS

2.01 APPROVED MANUFACTURER
A. Automatic equipment and controls shall be manufactured by:
NABCO ENTRANCES INC.
S82 W18717 Gemini Drive
Muskego, WI  53150
Phone: (877) 622-2694
Fax: (888) 679-3319

2.02 AUTOMATIC SWING DOOR SYSTEM – LOW ENERGY – SURFACE APPLIED
A. Model GT710, GT8310 or GT8710 Side Load Swing Door System as indicated on door schedule and details.

B. Mode of Operation: Hydraulic Close operator shall open door by energizing motor and shall stop door by electrically reducing voltage and stalling motor against mechanical stop. Door shall close slowly by means of an adjustable hydraulic closer independent of the motor and electric control. Closing speed shall be fully adjustable. Manual door operation shall require less than 15 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 1-60 seconds.

C. Components:
1. Operator Housing
2. Gyro Tech GT710 (C.U.), GT8310 (OHC) & GT8710 (C.U.) Swing Door Operator
3. Microprocessor Control
4. Connecting Hardware

1a) Operator Housing for the GT710 shall be 5 3/4" (146mm) deep by 6" (152mm) high aluminum extrusion with finished end caps and shall be prepared for mounting to new or existing door frames. Housing cover shall be removable to provide service access. Plastic covers shall not be acceptable.

1b) Operator Housing for the GT8310 & GT8710 shall be 5 1/2" (140mm) deep by 6" (152mm) high aluminum extrusion with finished end caps and shall be prepared for mounting to new or existing door frames. Hinged housing cover shall be able to be raised and secured or removed to provide service access. Plastic covers shall not be acceptable.
1c) All structural sections shall have a minimum thickness of .166” (4mm) 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” (3mm). Plastic covers shall not be acceptable.  
1d) Finish: Aluminum shall have a standard finish of AA-M12-C22-A31 (204R1, clear) or AA-M12-C22-A44 (dark bronze). Black and special finishes are available upon request. 

2) Power Operator completely assembled unit shall include silent bevel gear and roller chain transmission. Gears and chain coated with a special 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: Shall be a solid-state microprocessor unit. The microprocessor control shall allow the opening speed, closing speed, back check and latch check speed each to be adjusted separately and independently from each other to meet specific site conditions. Adjustable opening and closing speeds shall be set in accordance with ANSI A156.19. Control shall include time delay, Push-N-Go functionality and sequential mode operation. All adjustments shall be specific and reproducible. 

4) Connecting Hardware: Conversion Unit (C.U.) 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. Inswing drive arm with a urethane covered roller, shall ride in a track fabricated of 6061-T6 or A380 aluminum alloy attached to the door rail where required for pull-type operation. Overhead Concealed (OHC) power operator drive arm to door with a pin linkage rotating in a self lubricated bearing, within a self adjusting slide block, traveling in an interconnected steel track and top door pivot assembly. The (OHC) unit will independently support the door on heavy-duty steel top and bottom door pivots. To allow for durability and easy serviceability, the door shall not pivot on shaft of operator. 

**2.03 ACTIVATING DEVICES** 
A. Wall Switches: 6”, 4-1/2” diameter stainless steel surface or flush mounted, engraved or plain, as provided by NABCO ENTRANCES INC. 

B. Optional activators and safety sensors are available - See Product Catalog. 

**PART 3- EXECUTION** 

**3.01 INSTALLATION** 
A. Automatic door equipment shall be installed by AAADM Certified, factory-trained installers in compliance with ANSI A156.19, manufacturer’s recommendations and approved shop drawings. 

**3.02 CLEANING AND PROTECTION** 
A. After installation, clean framing members as recommended by the manufacturer. Aluminum surfaces in contact with masonry, concrete or 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. Advise general contractor to protect unit from damage during subsequent construction activities. 

* **COVER NOTE TO SPECIFICATION WRITER** 
Indicate under appropriate Section the following work by others: 
ELECTRICAL INSTALLER shall furnish and install all conduit and electrical wiring for activating devices and door operators. A minimum of 5 amperes, 115 volts, A/C, 1-phase circuit shall be furnished for each door operator, terminate and connect to operator control panel, in operator housing. 

**END OF SECTION**