

SPECIFICATIONS FOR BOON EDAM TOMSED MODEL TST-75ERN

PRODUCT DESCRIPTION: BOON EDAM TOMSED MODEL TST-75ERN

GRAND PRIX ROUND NOSE ELECTRIC TURNSTILE

SCOPE OF OPERATION:

- A.** The TST-75ERN is designed for access control into secure facilities where aesthetics and appearance are almost as important as function. The radius cabinet provides a modern and attractive appearance which, combined with the choice of stainless steel, brass or bronze construction, matches the facility decor. Independent, bi-directional electrical controls for entry and exit and our heavy duty Transit operating mechanism ensures that the TST-75ERN series perform as well as they look.
- B.** The purpose of the TST-75ERN, Round Nose Electric Turnstile, with our modular, Transit type operating mechanism, is to provide the aesthetic benefits of a custom, radius front and rear cabinet design within the price structure of a standard, off the shelf turnstile. Applications include corporate lobbies, government facilities, health clubs, financial institutions and anywhere else aesthetics are a primary concern. Mechanical versions are available to provide an accurate and reliable count of patrons entering into stadiums, arenas, museums and other high visibility sites.
- C.** The TST-75ERN consists of an operating mechanism, radius front and rear cabinet, hub and arm assembly.
- D.** Overall dimensions are 38" high, 8" wide, 36" long.

MATERIALS: All materials meet the ASTM standards as set forth by the materials industry.

- A. The operating mechanism consists of precision machined, interchangeable parts made out of high quality steel materials. No cast iron parts are used due to softness and excessive wear characteristics. All locking components are hardened to ensure long life and reliable service. Self-centering mechanism automatically returns arms to the basic position regardless of force used to pass through the turnstile. The rotation of the mechanism is cushioned by an aircraft quality hydraulic shock absorber.
- B. The modular mechanism design mounts to a 3/8" thick steel plate, allowing rapid maintenance.
- C. The cabinet is constructed from 14 ga. material, typically polished to a #4B satin finish.
- D. The hub is made from machined aluminum, 5" in diameter, with openings for three arms 120 degrees apart. The hub is clear anodized to protect against oxidation and discoloring.
- E. Arms are fabricated from 1-1/4" dia., 16 ga. round tubing. Ends are spun closed, ground and polished smooth. No plastic caps are used.

FABRICATION:

- A. The operating mechanism consists of a hardened locking assembly and interchangeable precision fabricated parts using high quality steel materials.
- B. The ratchet is made of machined high quality steel, not soft cast iron or several thin, laminated ratchets as other manufacturers.
- C. Self-centering, sealed, maintenance free main bearing supports shaft and

ratchet assembly.

- D. The operating mechanism contains all electrical components, including low voltage 24 VDC power supply, 110 or 220 VAC step down transformers, reset system and access control interface.
- E. Cabinets have 4" radius front and rear to give “rounded” and smooth aesthetic appearance. There are no exposed fasteners.
- F. Cover can be metal to match cabinet or 1" thick corian of choice.

FINISHES:

- A. Cabinets are available in one of three standard materials: Stainless steel, brass or muntz metal (bronze), polished to #4 satin finish. All brass or muntz metal units are supplied with a protective lacquer after polishing to prevent discoloration and oxidation.
- B. Top covers can be fabricated from a material matching the cabinet or from 1" thick corian. A 3/8" reveal between the top cover and the cabinet provides additional aesthetic appeal.
- C. The TST-75ESRN is fabricated with a stainless steel cabinet, the TST-75EBRN with a brass cabinet and TST-75EMRN with a muntz metal (bronze) cabinet.
- D. The material and finish for the arms matches the cabinet construction.
- E. All fabricated components of the operating mechanism are yellow cadmium plated to ensure long life and prevent oxidation and discoloring.

OPERATION SPECIFICATION:

- A. The locking and unlocking of the turnstile is accomplished by use of a low

voltage, 24 VDC, system. Activation is via a momentary, isolated normally open dry contact closure.

- B.** Electrical controls are available in either entrance and exit directions. Controls may be fail-safe or fail-lock. If free rotation is required, no electrical controls are provided for that direction.
- C.** Once a direction of passage is opened, it will remain open until the user proceeds through to the other side of the turnstile and the reset system automatically re-locks the turnstile and readies it for the next user. The system will stay open until the user proceeds through unless an optional time-out relay is used.

AVAILABLE OPTIONS:

- Pulse relay
- Time-out relay
- Red and green indicator lights
- Electric or battery counter
- Stainless steel, brass or bronze cabinet construction
- Marble top cover
- Extended arms for larger aisleway
- Remote release pushbutton
- Serial port interface for direct PC connection
- Rotation detection switch
- Foam rubber arm guards
- Key override