

## **SPECIFICATIONS FOR BOON EDAM TOMSED MODEL TUT-60ES2**

### **PRODUCT DESCRIPTION:** BOON EDAM TOMSED MODEL TUT-60ES2

### **DELUXE STAINLESS STEEL ELECTRIC TURNSTILE**

### **SCOPE OF OPERATION:**

- A. The TUT-60ES2 is designed to provide access control into secure facilities. Independent, bi-directional electrical controls for entry and exit allow separate monitoring of ingress and egress to secure locations. The stainless steel cabinet and heavy-duty Transit type operating mechanism allow interior or exterior use in the most rugged environmental and operating conditions.
- B. The TUT-60ES2 consists of an operating mechanism, stainless steel cabinet, hub and arm assembly.
- C. Overall dimensions are 38" high, 7" wide, 27" 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 stainless steel cabinet is constructed from 14 and 16 ga. stainless steel polished to a #4B 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. stainless steel tubing, type 304. 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. Stainless steel cabinet has rounded edges and a sloped cover in order to prevent injuries. There are no exposed fasteners.
- F. Hinged cover is equipped with security cam lock to prevent tampering.

### **FINISHES:**

- A. All fabricated components of the operating mechanism are yellow cadmium plated to ensure long life and prevent oxidation and discoloring.
- B. All stainless steel items are polished to a #4B finish.
- C. The cabinet is painted with a durable, baked on black texture powder coating, not a fragile, air dried enamel. Other colors are available. Optional construction is type 304 stainless steel.

### **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 provided in both entrance and exit directions. Controls may be fail-safe, fail-lock or any combination, in either controlled 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.
- D. Turnstiles can be equipped with electric or battery powered registers to count in entrance or exit direction. Resettable counters are available.

### **AVAILABLE OPTIONS:**

- Pulse relay

- Time-out relay
- Red and green indicator lights
- Electric or battery counter
- Key Override
- Extended arms for larger aisleway
- Remote release pushbutton
- Serial port interface for direct PC connection
- Rotation detection switch