

SPECIFICATIONS FOR TOMSED MODEL TST-75ET

PRODUCT DESCRIPTION: TOMSED MODEL TST-75ET, GRAND PRIX STAINLESS STEEL COIN OR TOKEN OPERATED ELECTRIC TRANSIT TURNSTILE

- A. The TST-75ET is designed to provide access to Transit facilities through the use of coins or tokens, passcards, Smartcards or other fare collection media before granting entry.
- B. The TST-75ET consists of an operating mechanism, stainless steel cabinet, hub and arm assembly, electronic coin device, coin vault and coin return.
- C. Overall dimensions are 40" high, 10" wide, 40" 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 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. type 304 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 1-1/2" round stainless steel tubing, type 304. Ends are spun closed and polished. No welded or plastic caps are permitted.
- F.** A self-locking coin vault with unique serial numbers is included with each turnstile. This compartment is behind a lockable, heavy duty 11 ga. coin vault door.
- G.** A coin chute is included to return rejected coins to the customer.
- H.** Verification of coins or tokens deposited is performed by an electronic coin device capable of distinguishing the metallic compositions of inserted coins.

FABRICATION:

- A.** The operating mechanism consists of a hardened locking assembly and interchangeable precision fabricated parts using quality steel materials.
- B.** Ratchet is made of machined quality steel, not a soft cast iron or laminated ratchet 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 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 heavy duty multi-point security lock to prevent tampering.
- G.** Lockable coin compartment door includes multi-point lock to prevent unauthorized access.

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.

OPERATION SPECIFICATION:

- A. The locking and unlocking of the turnstile shall be accomplished by use of a low voltage, 24 VDC system. Activation is by a momentary, isolated normally open dry contact closure provided by the coin verification device or other fare collection media.
- B. All TST-75ET turnstiles are configured as Arighthand@ units. This decreases the likelihood of improper insertion and delays due to user discomfort.
- C. Controls may be fail-safe or fail-lock. If free exit passage is required, no controls are provided for exit direction.
- D. Once a direction of passage is opened, it will remain open until the user proceeds through to the other side of the turnstile. 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 the turnstile.
- E. Turnstiles are equipped with electro-mechanical registers to count in entrance direction.
- F. Turnstile revenue is collected into a self-locking coin vault which cannot be removed in the unlocked condition.
- G. Turnstile to include monitoring switches for top cover, coin vault door. Switch to provide form “C” contact for interface to external control system.
- H. Turnstile includes rotation detection switch to provide form “C” output to indicate

rotation of hub and arm assembly.

- I.** Turnstiles to include mechanical key release to allow free-wheeling rotation in the entry direction.
- J.** Turnstiles will have red and green indicator lights to provide locked or unlocked status.