

SPECIFICATIONS FOR THT-100C(3)

WWW.TURNSTILES.US MODEL THT-100C(3) 7' HIGH FULL SECURITY MECHANICAL TURNSTILE

SCOPE OF OPERATION:

- A. The THT-100C(3) permits unsupervised exiting from facilities. Galvanized carbon steel construction is best suited for exterior applications.
- B. The THT-100C(3) consists of rotor assembly, barrier section, mechanism housing and ceiling plate.
- C. Standard overall dimensions are 84" high, 60" wide, and 50" deep.

MATERIALS:

- All materials meet the ASTM standards as set forth by the materials industry.
- A. The rotor assembly consists of three pieces of 2" square x 11. gauge carbon steel tubing, each known as the rotor posts.
 - B. All arms are 1 1/4" schedule 40 steel tubing. Each arm closed with force fit plastic cap to prevent injuries.
 - C. The shield assembly is constructed from 1-1/4" schedule 10 vertical and 2" x 2" 1/8" rolled horizontal tubing. All components are welded to form a one-piece construction.
 - D. The barrier assembly is designed to prevent passage in the reverse direction. It is fabricated using a 2" x 2" x 1/8" vertical post with the horizontal 1-1/4" schedule 40 arms welded perpendicularly to the post.
 - E. A self-lubricating nylon bottom bearing is provided for ease of rotation and to support a maximum vertical load of 750 lbs.
 - F. The mechanism housing is constructed from a 7" structural steel channel. All

mechanical components are attached to the channel.

G. The ceiling plate, fabricated from 16 ga. steel attaches to the mechanism housing and spans the shield assembly, providing stability and support for the turnstile.

H. The one-way clutch assembly is fabricated from a hardened 1" thick, 3.125 diameter hardened steel 5 tooth ratchet and provides one-way traffic flow.

FABRICATION:

A. The rotor assembly consists of 3 rotor posts with twelve rows of 1-1/4" schedule 40 pipe rotor arms which are welded to the front of each rotor post. Each rotor section is set at a position 120 degrees apart from one another. The top and bottom of the entire rotor assembly is held together by a flange. Each rotor section attaches to the flange using a 3/8" x 3" grade 5 fastener.

B. The barrier consists of a barrier post and eleven arms welded and equally spaced at an offset to the rotor assembly.

C. The shield assembly consists of 9 vertical posts welded to 2 rolled top and bottom tubes. The radius of the shield assembly follows the rotor movement and guides patron flow.

D. All components are constructed in such a manner as to eliminate all structural weaknesses.

FINISHES:

A. Hot-dipped galvanized with a minimum 2 ounce molten zinc thickness.

OPERATION:

A. All turnstiles will allow only one-way rotation either clockwise or counter-

clockwise. The direction is set during fabrication. Two way rotation is also available.

B. No change of direction is possible after installation and field welding.

AVAILABLE OPTIONS:

- S Out-of-use lock
- S Key reversible locking and unlocking
- S Heel protectors
- S Either clockwise or counterclockwise rotation
- S Fully welded rotor construction
- S Powder coated finish
- S Mechanical key switch to lock/unlock rotation direction.
- S Two way rotation