MST-6XPF Full Height Bi-Directional Security Turnstile

CONSTRUCTION

A. Top Channel:
   1. The top channel frame shall be a 7" wide U-frame fabricated from 4-gauge steel, powder-coated in a zinc rich powder coat.
   2. The top channel cover system shall slide apart horizontally, providing access to the interior of the top channel without having to lift the cover vertically when opening. The top channel cover shall be fabricated from 16-gauge, #304 stainless steel, regardless of turnstile finish.

B. Yoke (Curved Section):
   1. The yoke (curved section) shall be an all welded single assembly, not multiple assemblies bolted together. It shall consist of 10 pieces of vertically aligned 1 3/4" OD 16-gauge steel tubing notched and welded to two curved, horizontal tubes. Two 3/16" x 1" steel straps shall be welded to the outside of the ten tubes for support. No external fasteners shall be used in the fabrication of the yoke section.
   2. Two card reader plate receivers shall be welded to either side of the yoke.

C. Roto (Rotating Section):
   1. The roto (rotating section) shall be an all welded single assembly, not multiple assemblies bolted together. It shall consist of three vertical groupings of arms, with each arm notched and welded vertically to a vertical 3" x 3/16" wall tube. Each grouping of arms shall be positioned 120 degrees apart from one another and shall consist of 13 arms (39 total arms per roto). Each arm shall be 14-gauge, 1 3/4" OD steel tubing. Arms shall have either welded metal caps (powder coated or stainless steel models) or ribbed, force-fit plastic caps (galvanized models). No external fasteners shall be used in the fabrication of the roto section.

D. Bottom Bearing Assembly:
   1. The bottom bearing assembly shall consist of a sealed inter-ring bearing, a bearing shaft which fits into the underside of the roto, and bottom bearing housing and cover.

E. OV (Barrier)
   1. The OV (barrier section) shall be an all welded single assembly which prevents passage in the reverse direction. It shall consist of 13 arms notched and then welded to a 3" OD x 3/16" wall steel vertical tube. The arms shall be constructed from 1 3/4" OD x 14-gauge #304 steel tubing. Arms shall have either welded metal caps (powder coated or stainless steel models) or ribbed, force-fit plastic caps (galvanized models). No external fasteners shall be used in the fabrication of the OV section.

F. Yoke Guard Plate
   1. The yoke guard plate is a single piece of 16-gauge steel that bolts to the underside of the top channel assembly and the top of the yoke.

G. Electrical Operation:
   1. The turnstile top channel shall contain a fused junction box into which the installer wires primary power, 220VAC.

FINISH

A. Powder Coat (Model MST-6XPF): All exterior components, including top and bottom bearing covers are painted in a powder coat color specified by the project requirements. BLACK OGF 48/80720