



TieMaster TM100

In-Tie Switch Machine

The TM100, ALSTOM's newest addition to its switch machine product line, features the latest design technologies to deliver superior safety, reliability, & performance. This new switch machine helps lower life-cycle costs & provides more operational consistency without compromising the demanding requirements of today's rail industry. The TM100's unique dimensions allow for mechanical tamping, which provides greater track stability and ensures higher quality of maintenance.

What would you do for a more Stable Switch Panel? How would you like to forever Eliminate Layout Adjustments?

The TM100 is the only in-tie switch machine that can provide this peace of mind. Through its bolted connection to the stock rails and its lightweight/narrow design, the TM100 becomes integrated with the track structure.

- Loss of correspondence related to chronic track conditions is significantly reduced, allowing you to operate trains more efficiently.
- Automatic tamping machines can now continue through the switch panel without having to skip the ballast under the cumbersome Layout Rods.
- Vibration & Maintenance is significantly reduced due to less "pumping" of track.
- Significantly lower construction costs by eliminating Rods, Gauge Plates, and Special Head-Block Ties.



Specifications

Applications

- Single Switch

Rail Sizes

- Universal

Control

- Dual

Thrust

- Adjustable: 500 to 4000 lbs.

Voltage

- 24 & 110 DC

Current Draw

- 8-10 Amps

Control Wiring

- 3-Wire Mode

Temperature Range

- -40 to 70 Degrees Celsius

Dimensions

- Length = 110"
- Width = 12"
- Depth (From Bottom of Stock Rail) = 9.25"
- Height (From Bottom of Stock Rail) = 6.80" (Only on Motor End)

Throw Time

- 110-DC = ~3.5 seconds
- 24-DC = ~10 seconds

Weight

- 1000 lbs.

Point Opening

- Adjustable: 4 to 6.25 Inches

Overload Protection

- No Clutch: Electronic Time-out



Features

Allows for Point "Rail-Run"

Eliminates seasonal trouble calls

Machine Tampable

Reduces Track Pumping & Maintenance

No Clutch & Brushless Motor

Less Maintenance

Light-Weight Modular Components

Easy Field Repair

Limit Switches

No Contact Finger Adjustments
Positive-Break, IP67 Design

Easy Point Adjustment

Easier Installation, FRA Testing, & Maintenance

No Layouts Needed

Reduced Construction Costs & Maintenance

Internal Overload Protection

Reduced Costs on Overload Relays



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