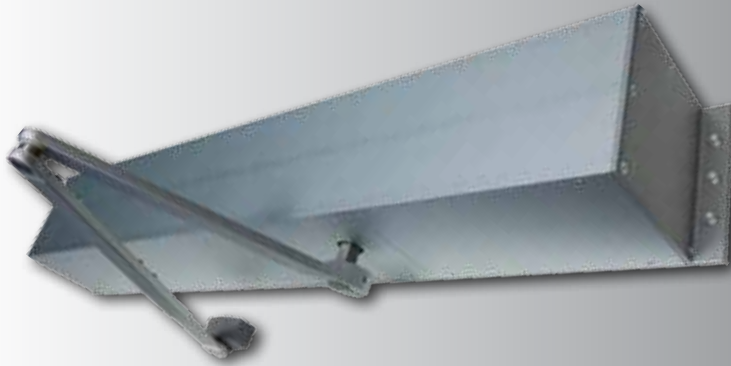


Modern Door Automation: Plain and Reliable.

Swing Door Drive
TTX II Low Energy Swing Door Operator
Bottom Load Design



Ideal For:

- Retail Stores
- Office Buildings
- Institutions
- Churches
- Health Care Facilities
- Restored Sites
- Government Buildings
- Universities/Schools
- Independent Living Centers
- Retirement Homes
- Facilities for the Disabled
- Rest Rooms
- Residential
- ADA Approved

★★★★★
TORMAX
AUTOMATIC

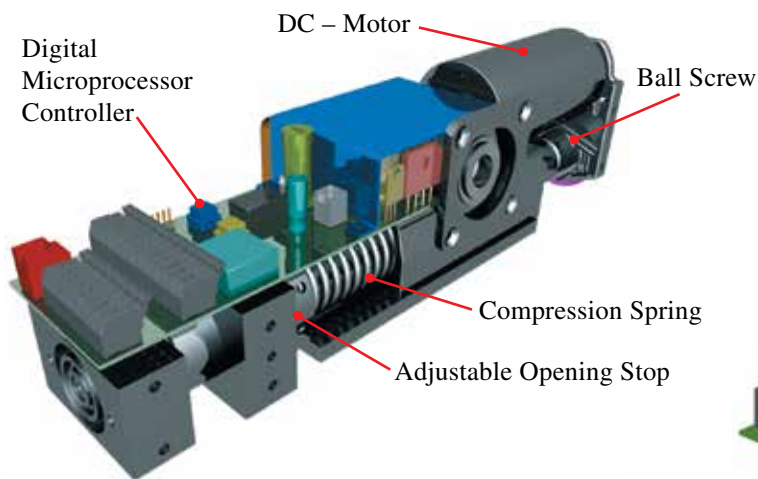
SWINGDOOR

TORMAX TTX II Low Energy Swing Door Operator is a low cost, easily adjustable automatic door system. It delivers exceptional long lasting performance, and meets ANSI standard A156.19 that specifies opening and closing speeds as well as force requirements. Using reliable rack and pinion mechanics and state-of-the-art digital programmable microprocessor, the TTX II is the best solution on the market for conformance with ADA (Americans with Disabilities Act) requirements. The UL and ULC listed operator comes fully assembled and shipped as a complete unit and is available in all finishes and colors in a highly stylized bottom load enclosure.

The TTX II is both an automatic and manual swing door operating system. It is adaptable to virtually any existing swing door and thereby provides barrier free access to assist the physically challenged. The power open and spring close operator is applicable to interior and exterior doors up to 48" in width and weighing up to 220 pounds.

The TTX II electro-mechanical drive system eliminates costly maintenance features associated with messy fluids from hydraulic units, and hidden costs of pneumatic units such as the need for remote air compressors and pneumatic tubing.

The Operator System



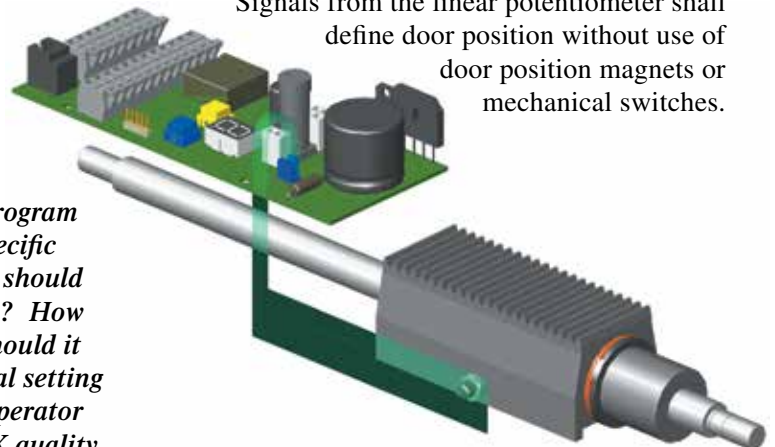
First Class with Luxury Features

By means of the user-friendly teach-in program you can dial-in the drive to meet your specific application requirements. At what speed should the door open? How wide should it open? How long should it remain open? How fast should it close? All this without a single additional setting device. TORMAX TTX II Swing Door operator is the all-in-one drive of prime TORMAX quality with its unmatched features.

The TTX II bottom load unit provides the solution to maintaining the Architectural design for applications that have little or no headroom above the door. The operator is accessible from the underside, thus allowing for the header case to be partially or fully concealed into the ceiling above the door. The bottom load design provides for ease of maintenance and adjustment.



Registration of door position back to the controller shall be determined via linear potentiometer. Signals from the linear potentiometer shall define door position without use of door position magnets or mechanical switches.





TTX II Bottom Load Design

The door cannot be free-wheeled in windy conditions because the operator employs a unique rack and pinion compression spring design. Also, a unique conical/hexagonal shaped output shaft design eliminates arm slippage and minimizes costly repairs commonly found on competitive operators. Design control feature will accommodate 24 VDC radio control receiver, push plates, safety sensors, as well as 24 VDC electric strike.

TORMAX USA Inc. offers a comprehensive line of automatic door systems including slide door systems, swing door systems and industrial door systems. TORMAX products are available throughout North America through authorized TORMAX USA Inc. distributors.

For buildings that meet the Historic Preservation Society guidelines, specify the Tormax iMotion TN110 concealed in-floor low energy swing door operator.

To find out more about the TTX II low energy swing door operator, other TORMAX products, or the MAX national and regional account program, please contact us for immediate attention.

Controls

For added convenience and accessibility the door operator can be activated by a push button switch, a manual push or pull of the door "Push and Pull", a remote control or simply use it as a manual door. This creates a barrier free access to assist the physically challenged. Tormax offers a wide variety of controls for virtually any application.

Manual Controls

- Push Plate
- Push Pads
- Push Buttons
- Hands Free
- Rail and Post Mounted Plates and Buttons

Wireless Manual Controls

- Push Plate
- Push Buttons
- Hand Held Transmitters
- Rail and Post Mounted Plates and Buttons



Mechanical Operator Feature Benefits

- Bottom Load Design – The Ultimate Solution to Maintaining the Architectural Design for Doors That Have Little or No Head Room
- Low Energy Swing Door Operator - Meets or Exceeds ANSI Standard A156.19
- Power Open Spring Close – Functions as a Manual Door Closer With Loss of Power
- Transmission Consists of a Forged Rack and Pinion Compression Spring Assembly With a Re-Circulating Ball Screw – Eliminates Free-Wheeling of the Operator in Windy Environments
- Unique Re-Circulating Ball Screw Drive – Provides the Ultimate in Automatic and Manual Door Control (no gears to wear or leaking oil)
- Fractional DC Motor With Built-In Motor Protection Circuit – Interrupts Current to Motor if Door is Blocked
- Provides for Smooth and Silent Operation (less than 70 DB) – "Silent Drive" Unlimited Application Opportunities
- Unique Conical/Hexagonal Shaped Stainless Steel Output Shaft – Eliminates Door Arm Slippage
- Rated for Interior and Exterior Doors up to 48" Wide x 220 Lbs.
- Factory Assembled, Tested and Shipped as a Complete Unit
- Models Available to Automate Single, Simultaneous Pair and Double Egress Applications
- Bottom Load Design – For Convenient Operator Access
- Bottom Load Design – Factory Prepared for Quick and Easy Installation
- Operator is Accessible From the Underside – Allows for the Header Case to be Partially or Fully Concealed Into the Ceiling Above the Door
- Aluminum "L" End Cap Mounting Brackets – For Ease of Unit Mounting
- Compact Visible Bottom Load Design – Header Profile 5 3/4" H x 5 1/2" W x 31 1/2" L
- Optional Full Width Header Profile Available – Provides Uniform Sightlines
- Standard Architectural Class 1 Anodized Finishes Clear and Dark Bronze – Other Anodized Finishes, Painting and Metal Cladding Available Upon Request
- Built-In Adjustable Operator End Stop – No External Door Stop Required
- Three Operating Modes (On/Off/Hold Open) – Pre-wired Switch as Standard With Each Unit
- No Mechanical Switches and/or Magnets Required for Door Position – Eliminates Costly Services and Down Time

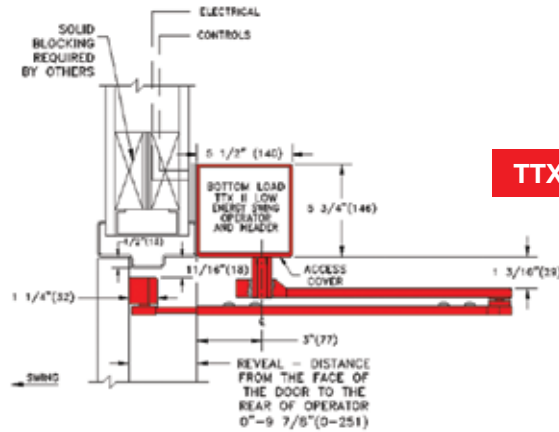
Digital Microprocessor Controller

Feature Benefits

- Self Learning Microprocessor Controller With On-Board Digital Programming - Provides Flexibility During System Configuration
- Electronic Reversing for Door Obstruction in the Opening Direction and Closing Direction – Programmable
- Selectable (on/off) “Push and Pull” Operation – Programmable
- Self-Learning Microprocessor Controller Shall Utilize “Teach-In” Program for the Initial Door Set-Up for Both “Push and Pull” and “Automatic Door Operation” - Microprocessor Establishes Door Opening and Closing Speed, Opening Angle and Hold Open Time without the Use of Cams and Switches
- Fine-Tune Door Motion Elements (door speeds, opening angle and hold open time 0-6000s) Independently After “Teach-In”. – Programmable
- Adjustable Latch Check Speed and Positioning – Programmable
- Adjustable Opening Force Limitation – Programmable
- Adjustable Opening and Closing Speed – Programmable
- Sequential Operation (Push to Open/Push to Close) – Programmable
- On-Board Power Supply Output With Overload Protection (24VDC .75A Max.) as Standard for Activation, Safety Sensor and Electric Strike - No Auxiliary Transformer Required
- On-Board Output for 24VDC Electric Strike With Adjustable (.2-3.6S) Delay – Programmable
- On-Board Output (24VDC) for Door Open or Door Closed Position Status – Programmable
- On-Board Input for Key Switch – Remains Enabled In “Off” Mode for Access Control Integration
- On-Board Inputs for Swing Side and Approach Side Door Mounted Presence Sensors or Swing Side Overhead Mounted Presence Sensor and Swing Side Door Mounted Presence Sensor or Safety Carpet – Programmable
- Built-In Safety Circuit With Stall/Carpet/Reactivation – Programmable (no Auxiliary Modules Required)
- Global Power Supply – Selectable 115-230VAC 50-60 HZ, Single Phase
- ANSI/UL325 Listed United States and Canada

■ Standard Push Application

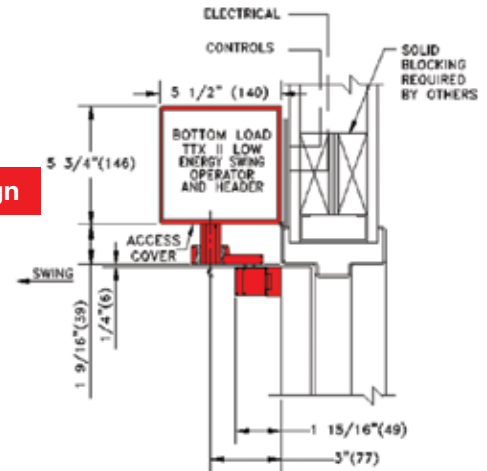
Telescoping Door Arm will accommodate door reveal from 0 - 9 7/8”



TTX II Bottom Load Design

■ Standard Pull Application

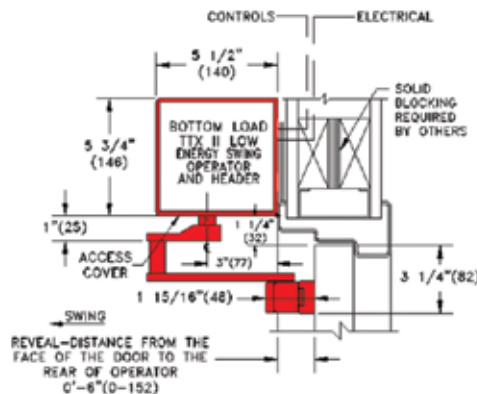
In-swing door arm and slide track assembly for butt hung or offset pivot doors, with 0” reveal



TTX II Bottom Load Design

■ Standard Deep Reveal Pull Application

In-swing door arm and slide track assembly will accommodate door reveal from 0-6”



TTX II Bottom Load Design

★★★★★
TORMAX
 AUTOMATIC

TORMAX USA Inc.
 12859 Wetmore Road
 San Antonio, Texas 78247
 888-685-3707
 210-494-3551
 Fax 210-494-5930
 www.tormaxusa.com
 Email info@tormaxusa.com

TORMAX is a division
 and a registered
 trademark of
 Landert Motoren AG

REV 08/17