

Operators

THERMOSTOP
Industrial Doors



Operators / Thermostop™

Industrial Doors

Section 08362

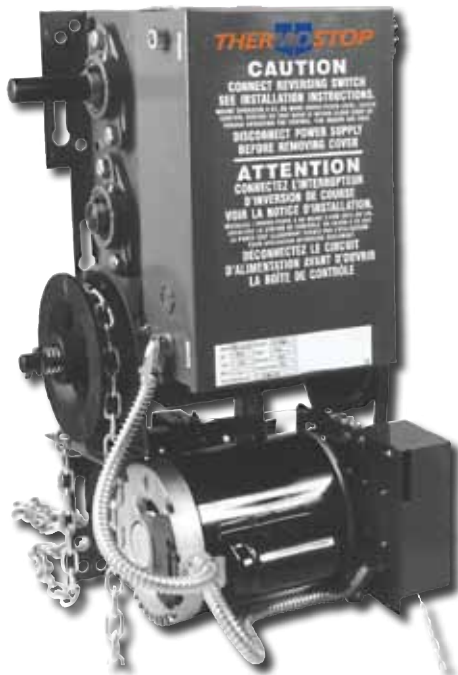
THERMOSTOP

Tradition of quality

Thermostop Electric Operators and Accessories



Trolley motor with belt drive
model XTRA-T



Jackshaft motor with belt drive
model XTRA-HHD



THERMOSTOP offers three categories of electric operators: medium duty, heavy duty and extra heavy duty which address all the requirements of the door applications.

Medium Duty



XTRA-LH



XTRA-LT

Features

- Operation mode: jackshaft or trolley
- High starting torque motor with overload protection
- Heavy duty 4L V-belt
- 3/4" ball bearing on pulley shaft
- 1" ball bearing on final drive shaft
- 24V fused control circuit
- C-2 wiring standard
- External radio control terminal strip
- Three-button control station
- Fully adjustable rotary limit switches
- Adjustable friction clutch
- Solenoid brake standard

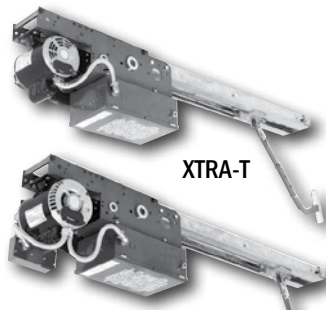
Heavy Duty



XTRA-H



XTRA-HHD



XTRA-T

XTRA-TB

Features

- Operation mode: jackshaft or trolley
- Heavy duty reversing contactor c/w electrical interlock
- Continuous duty motor with overload protection
- Heavy duty 5L V-belt
- 3/4" ball bearing on pulley shaft
- 1" ball bearing on drive shaft
- 24V fused control circuit
- C-2 wiring standard (constant pressure close)
- External radio control terminal strip
- Three-button control station
- Fully adjustable rotary limit switches
- Adjustable friction clutch
- Solenoid brake standard
(optional for XTRA-H and XTRA-T)

Extra Heavy Duty



XTRA-GH



XTRA-GHC

Features

- Operation mode: jackshaft
- Heavy duty reversing contactor c/w electrical interlock
- Continuous duty motor with overload protection
- Heavy duty worm gear in oil-bath reducer
- 1-1/4" or 1-3/8" cast iron flange bearing on output shaft (XTRA-GHC)
- Rigid steel wall mounting frame on gear box (XTRA-GHC)
- 24V fused control circuit
- C-2 wiring standard (constant pressure close)
- External radio control terminal strip
- Three-button control station
- Fully adjustable rotary limit switches
- Solenoid brake standard

Application	Cycles per hour	Model *	Type **	Drive	Power range	Maximum weight as per power	NEMA options ***	Motor duty	Voltage (phase)	Solenoid brake
Medium duty	15	XTRA-LH	jackshaft **	belt	1/2 hp	up to 500 lbs	1	intermittent	115 / 230 (1 phase)	standard
Medium duty	15	XTRA-LT	trolley	belt	1/2 hp	up to 500 lbs	1	intermittent		standard
Heavy duty	25	XTRA-H	jackshaft **	belt	1/2, 3/4, 1 hp	600, 900, 1200 lbs	1, 4, 7, 9, 12	continuous	115 / 230 (1 phase)	optional
Heavy duty	25	XTRA-HHD	jackshaft **	belt	1/2, 3/4, 1 hp	600, 900, 1200 lbs	1, 4, 7, 9, 12	continuous		standard
Heavy duty	25	XTRA-T	trolley	belt	1/2, 3/4, 1 hp	600, 900, 1200 lbs	1, 4, 7, 9, 12	continuous	230 / 460 / 575 (3 phases)	optional
Heavy duty	25	XTRA-TB	trolley	belt	1/2, 3/4, 1 hp	600, 900, 1200 lbs	1, 4, 7, 9, 12	continuous		standard
Extra heavy duty	30	XTRA-GH	jackshaft **	gear	1/2, 3/4, 1 hp	600, 900, 1200 lbs	1, 4, 7, 9, 12	continuous	230 / 460 / 575 (3 phases)	standard
Extra heavy duty	30	XTRA-GHC	jackshaft **	gear	1, 1-1/2 hp	1300, 1600, 1900 lbs	1, 4, 7, 9, 12	continuous		standard

* All motor models are equipped with logic relay ** All jackshaft motors are equipped with emergency chain hoist.

*** NEMA: 1 = general use 4 = watertight 7 = dangerous locations (gases) 9 = dangerous locations (dust) 12 = protection (dirt and liquids)

Actuation Devices

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Control station

A variety of control stations that meet various NEMA requirements. With single, double and triple button stations. As well as triple with key lock-out, triple with key lock-out and pilot light. Key switch. Card reader or keypad.



Three-button standard



Three-button with key lock-out



Three-button with key lock-out & pilot light



Key switch



Keypad

Radio control

Transmitters:
One, two or four-button transmitters provide convenient remote actuation.



One-button transmitter



Two-button transmitter



Four-button transmitter



One-channel receiver

Magnetic loop detector

The inductive loop, installed underneath the floor level, detects the passage of a metallic object.



loop detector 24 / 110V with harness

Motion detector

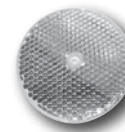
The door is opened by radar beams which can detect and differentiate human presence from vehicles. Normally fitted with automatic closing using an optional timer. Functional with both outside and inside installations.



Motion detector

Photo-electric control

Allows the door to open when the infra-red light beam hits an object or a vehicle.



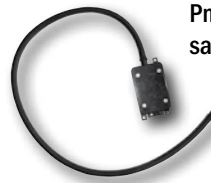
Reflector



Photocell

Safety edge

For protection against accidents, when there is an obstruction in the door opening, safety devices are recommended to stop the door on its downward path and to reverse it into an open position.



Pneumatic safety edge



Extra sensitive electro-mechanical edge

Miscellaneous accessories

Utility switch



Ensures that the door opens and closes completely.

Time delay

Provides a time delay of 1.5 seconds before the electric operator reverses the door path into the opposite direction. Recommended with the high cycle operators.



Traffic lights

Available as a dual (red and green) or single (red or green) set. Enclosed in a weatherproof housing, with 8" (203mm) diameter lenses.

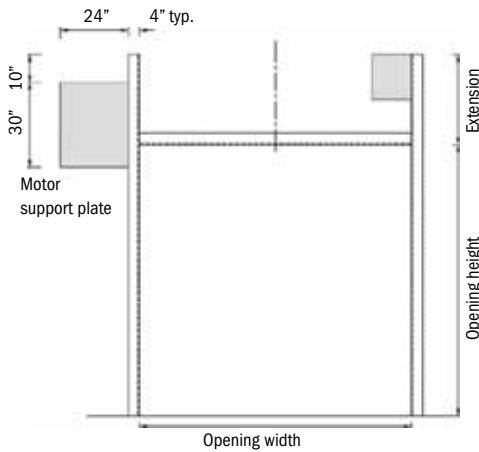
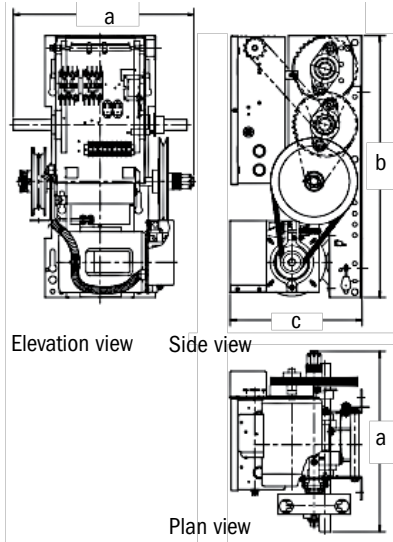


Closing timer



Automatically closes the door after a preset time. Recommended with the use of the radio remote control.

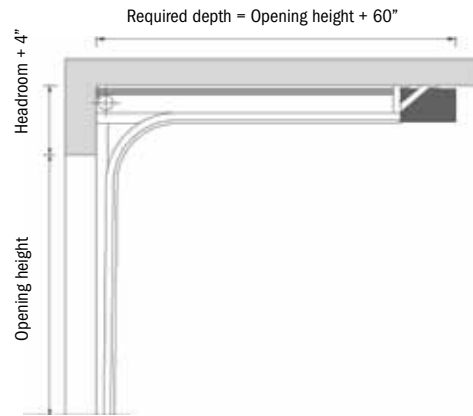
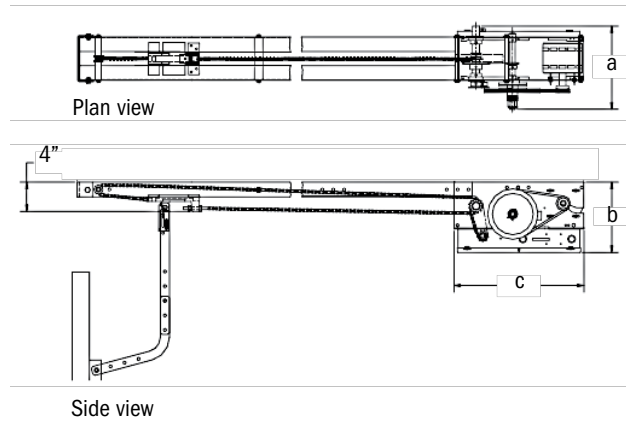
Typical jackshaft operator



Jackshaft model	Motor dimensions		
	a (width)	b (height)	c (depth)
XTRA-LH	15-1/2"	18-1/2"	10"
XTRA-H	16-3/8"	18"	16"
XTRA-HHD	16-3/8"	24"	12"
XTRA-GH	15-3/4"	32-1/4"	19-1/2"
XTRA-GHC	15-3/4"	29-1/2"	16-5/8"

Notes: For more details on support plate dimensions and location, please consult with THERMOSTOP technical services.

Typical trolley operator



Trolley model	Motor dimensions		
	a (width)	b (height)	c (depth)
XTRA-LT	11-7/8"	10"	18-1/2"
XTRA-T	13-1/8"	11-7/8"	24"
XTRA-TB	13-1/8"	12"	24"

Notes: Trolley motors are only compatible with Standard and Low-headroom elevations. The installations requires an additional 4" on the headroom clearance and an additional 60" on the depth clearance.



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Warranty

Thermostop Inc. warrants its operators and electric accessories from defects for a period of one (1) year. Materials returned to Thermostop that are defective after examination will be repaired or replaced. Thermostop shall not be responsible for any labor charges for removing or replacing defective material. All returned material must be received prepaid or it will not be accepted.

