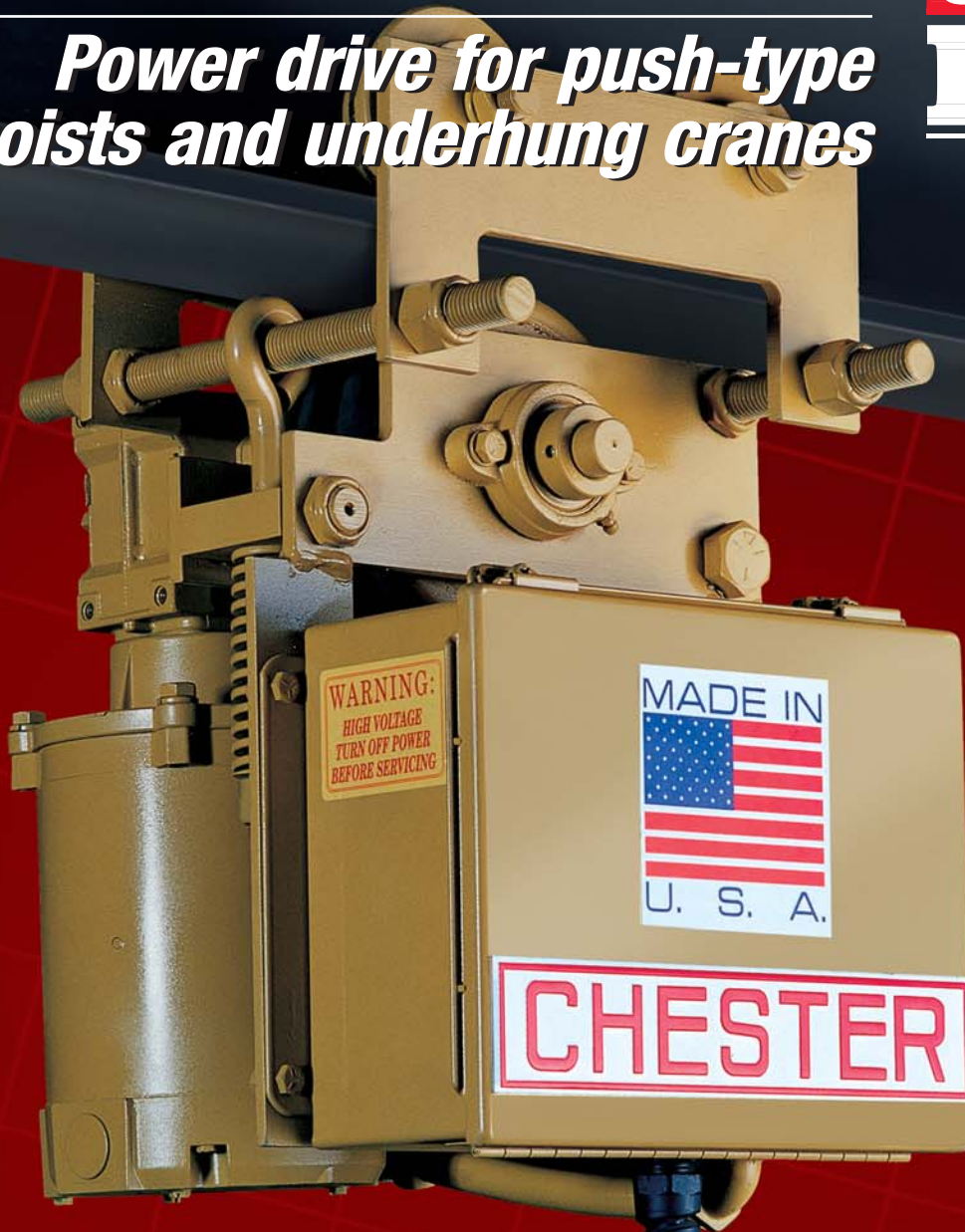


Tractor Drive

CHESTER HOIST

Power drive for push-type hoists and underhung cranes



Chester Tractor Drives deliver greater productivity with existing push-type underhung crane bridges or push-type monorail hoists with motor-driven travel. Designed for capacities up to 5 tons, Chester Tractor Drives are easy to install without removing or disturbing existing equipment.

For underhung crane bridges

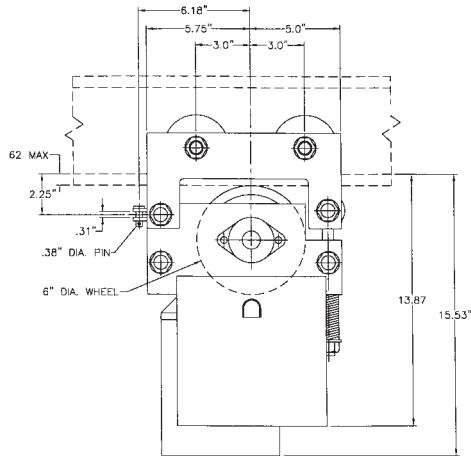
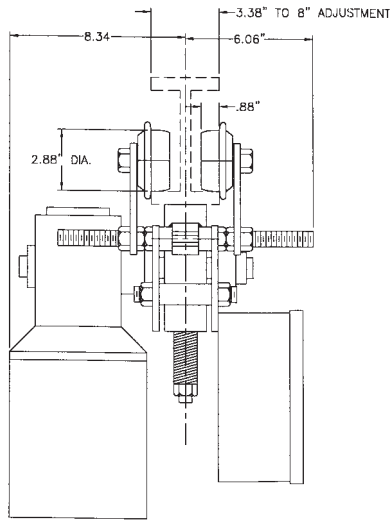
Designed to accommodate any make unit, twin tractor units of the same design as the single-unit tractor can be used to convert push-type crane bridges to electric drive. The twin-unit synchronized Chester Tractor Drives are wired into a universal electrical control panel located on the master tractor to provide simultaneous operation.

For monorail trolley suspended hoists

This single, powerful, electrically motorized tractor provides fast horizontal travel while minimizing worker fatigue. A squirrel cage electric motor with torque multiplied by a heavy-duty gear reducer drives a urethane drive wheel. The drive wheel engages the underside of the monorail track, providing positive power drive.

Specifications

Chester Tractor Drive



Motor

1/2 hp @ 1800 rpm (1/4 hp @ 900 rpm for 35 fpm)
Squirrel cage motor with permanently lubricated bearings. Standard NEMA C face 30 minute motor with Class F insulation.

Drive

Direct drive with right-angle worm gear reducer. Fully enclosed housing for lubrication of gears and bearings.

Drive wheel

Drive wheel is 6" diameter, 2" wide with cast iron hub and a urethane thread. Wheel is spring loaded against the bottom of the beam for positive traction.

Construction

Steel plate construction with tierods for easy flange adjustment. Steel clevis with a 3/8" diameter pin is provided for towbar attachment.

Trolley wheels

Cast iron fully machined wheels with universal tread for operation on tapered or flat-flange beams. Each wheel has two permanently lubricated sealed ball bearings.

Beam adjustment range

Standard unit is adjustable for standard I-beams and flat-flange beams from 3.38" to 8" wide. Maximum flange thickness for standard unit is .62". Minimum curve for standard unit is 36" radius (with flangeless wheel and guide roller option).

Controls

Magnetic reversing contactor with mechanical inter lock enclosed in a NEMA 1 enclosure with a terminal strip for control connections. Standard tractor is designed for 208-230 or 460 volt, 3 phase, 60 hertz supply. See options for other power supplies.

Standard finish

Air-dry machinery enamel.

Options

- 575 volt, 3 phase, 60 hertz operation.
- 2 button push-button station.
- 4 button push-button station.
- 6 button push-button station.
- 8 button push-button station.
- Additional push-button cable length. (10' standard)
- NEMA 12, 4 or 4X control enclosures.
- Motor brake.
- Soft start. (Recommended for speeds above 70 fpm)
- Two-speed or variable controls.
- Transformer for 115 volt control power.
- For other beams, options or custom designs, consult factory.

CAPACITY (Pounds)	SPEED (fpm)	CHESTER CAT. NO.
2000	35	TD-235
2000	55	TD-255
2000	70	TD-270
2000	105	TD-2105
3000	35	TD-335
3000	55	TD-355
3000	70	TD-370
3000	105	TD-3105
5000	35	TD-535
5000	55	TD-555
5000	70	TD-570
6000	35	TD-635
6000	55	TD-655
10,000	35	TD-1035

(For other speeds and capacities, contact the factory.)



Chester Hoist • 7573 State Route 45 • Lisbon, OH 44432
Phone (330) 424-7248 • Fax (330) 424-3126