CHESTER
HOIST

Tractor Drive

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.

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**SPECIFICATIONS**

**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.)