Titan[®] Hoist

CORPORATION

Vender

Titan is a high-performance hoist for applications requiring large capacity, speed and/or long travel. Titan is a customizable pre-engineered hoist – it is engineered and manufactured to your requirements yet provides the economic benefits of an "off-the-shelf" system.

Features

- Integrated gear motor and brake provide proven reliability and feature an iron case for vibration and noise control
- Reliable head block with nylon sheaves provide long, trouble-free life and meet or exceed wire rope manufacturer recommendations
- Zero-fleet design allows for a compact, efficient hoist. Preloaded chase rollers ensure cables stay in grooves
- Closed loop vector drives provide pinpoint accuracy
- A complete suite of load and safety features is available including slack line, over/under load, and cross-groove detection; Load monitoring, acoustic dampening, and safety covers can also be added
- Hoists can be mounted vertically or horizontally;
 For theatres without grids, vertical mounting can save space and offers easier access for maintenance
- Steel backbone adapts to your mounting and load requirements
- 16" (406 mm) set centers; all hoists on one side of stage
- 8" (203 mm) set centers; alternate hoists on both sides of stage
- ANSI E1.6.1 compliant
- Quick-connect clamps upright, underhung, vertical
- Encoder for precise target
- Quiet operation

Capability

- Speed: up to 650 fpm (3.3 m/s)
- Travel: up to 8 lines @ 90 ' (27.4 m); up to 10 lines @ 67 ' (20.4 m)
- Gross capacity: up to 3,300 lb (1,496 kg)
- Max batten length: 96 ' (29.3 m)

Safety

- Dual braking system with a primary brake on the motor and an independent SureBrake[®] II operating directly on the drum shaft; SureBrake II is spring applied and electrically released for maximum safety
- Emergency-stop system meets NFPA 79 (Electrical Standard for Industrial Machinery) with ramped stops for high speed
 equipment to reduce mechanical shock loads
- Two levels of limit switches with normal travel and over travel switches using separate, redundant circuits for added safety
- Loft block idlers contain individual grooves to keep lines contained, prevent binding, friction, and eliminate rubbing of adjacent lines
- Touch safe interior of all electrical enclosures guards to prevent contact with live components, per IEC 204-1 Protection

Control Options

• Titan works with the entire range of J.R. Clancy motion control systems.

Loft Block Options

- 1/4" Universal Series upright or underhung
- 1/4" 19 Series underhung

Batten Termination Options

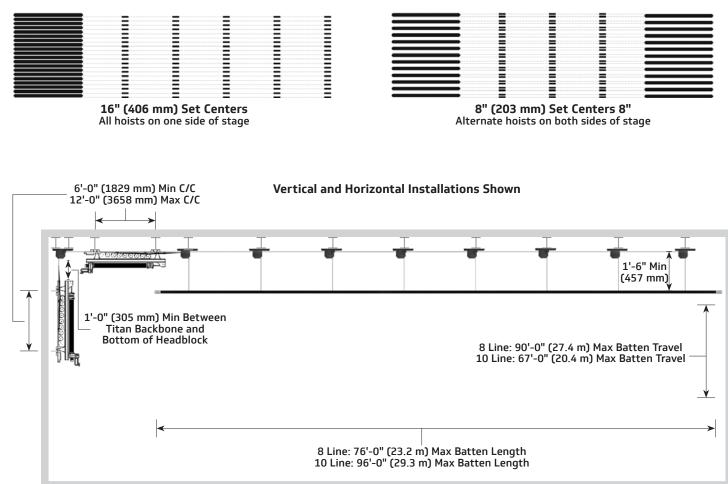
- Trim Chain
- Pipe Clamp and Turnbuckle
- Batten Trim Plate
- Batten Trim Clamp

Batten Options

- 1.5" (48 mm) Schedule 40 batten
- 1.5" (48 mm) Schedule 80 batten
- 1.5" (48 mm) Schedule 40 truss batten

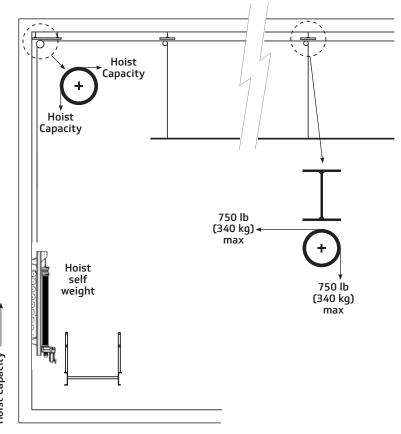


Mounting Configurations



Loading Information

Loft Block: (Typical of 7) The combined load on the loft blocks associated with a single Titan Hoist will not exceed the hoist capacity. Loads may be unevenly distributed on the batten with a maximum load of 750 lb (340 kg) on any individual loft block. Hoists are not recommended to be used for lifting people.



Hoist Capacity —

Titan Riser — Typical

Power and Wiring Information: Titan is available for virtually any 3-phase voltage worldwide. Control wiring is dependent on your control system.

CONTROL CONSOLE OPTIONS E-STOP STATIONS TO CENTRAL CABINET OR E-STOP SLAVE BELDEN 8469 BY OTHERS ĩ ۲ CONSOLE OPTIONS SCENECONTROL 24+ (DESK OR CART-MOUNT) 30' CABLE REMOTE E-STOP STATION SCENECONTROL 24 (DESK, PEDESTAL OR CART-MOUNT) 30' CABLE - COMPACT REMOTE E-STOP STATION WITH GUARD SIZE: 8.5"Hx6"Wx5.7"D LOCATION: 44"AFF, TBD SCENECONTROL 15 (DESK OR PEDESTAL-MOUNT), 30' CABLE SIZE: 3.7"Hx3.7"Wx3.2"D LOCATION: 44"AFF, TBD ABOVE CONNECTS TO ANY CONTROL POINT AND POWER OUTLET SCENECONTROL 10 (WALL-MOUNT, 19" RACK-MOUNT OR PENDANT WITH 30' CABLE - PENDANT CONNECTS TO ANY CONTROL POINT) NOTE: BASE SYSTEM SUPPORTS UP TO FOUR (4) REMOTE E-STOP STATIONS (WITHOUT ANNUNCIATION OR ILLUMINATION) WITHOUT AN AT LEAST ONE CONSOLE REQUIRED PER SYSTEM. E-STOP MASTER OTHER OPTIONS: CONSOLE PEDESTAL CONSOLE CART 25' CONTROL EXTENSION CABLE CENTRAL CABINET OPTIONS: ONE (1) REQUIRED CONTROL POINT(S) SERVICE: 110-240VAC, 50-60Hz, 1Ă 20A, 2W+GND BY OTHERS SERVICE: TO CENTRAL CABINET 110-240VAC, 50-60Hz, 1Ă 20A, 2W+GND BY OTHERS 1- BELDEN 8468 2- BELDEN 1583A 1- BELDEN 8468 BY OTHERS 2- BELDEN 1583A BY OTHERS SERVICE: TO CENTRAL CABINET SERVICE: 110-240VAC, 50-60Hz, 1Å, 20A, 2W+GND BY OTHERS eeg CONTROL POINT W/ E-STOP CONTROL POINT SIZE: 8.5"Hx6"Wx5.7"D LOCATION: 44"AFF, TBD SIZE: 6.3"Hx6.3"Wx4.2"D LOCATION: 18" AFF, TBD ٢ CONSOLE POWER OUTLET ON 4" SQUARE COVER -ENCLOSURE BY OTHERS LOCATION: 18" AFF, NEAR EACH CONTROL POINT E-STOP MASTER WITH NETWORK SWITCH -REQUIRED IF REMOTE E-STOP STATIONS REQUIRE ANNUNCIATION OR ILLUMINATION, OR IF MORE THAN FOUR (4) REMOTE E-STOP RELAY CABINET WITH NETWORK SWITCH: AVAILABLE IF FEWER THAN FOUR E-STOPS WITH NO ANNUNCIATION OR ILLUMINATION SIZE: AS REQUIRED FOR QUANTITY OF AXES UNDER CONTROL E-STOPS, ONE E-STOP MASTER SUPPORTS UP TO SIXTEEN (16) CONSOLE PORTS AND REMOTE E-STOP STATION LOCATION: AS REQUIRED FOR VENUE LAYOUT SIZE: AS REQUIRED FOR QUANTITY OF AXES AND E-STOPS UNDER CONTROL NOTE: LOCATION: AS REQUIRED FOR VENUE LAYOUT MINIMUM OF ONE (1) CONTROL POINT (WITH OR WITHOUT REMOTE E-STOP) REQUIRED PER SYSTEM TITAN HOIST SYSTEM <u>·00000000000/</u> **Electrical Requirements** TITAN HOIST W/ 8' CONTROL AND POWER TAILS 208/380/480VAC 3Å 50/60Hz **Current Draw** HP PER CHART Model 208 V 380 V 480 V TYPICAL OF NUM (#) PROVIDED SC5000 HC-100B FACTORY-WIRED LOCAL CONTROL PENDANT Supply Supply Supply TYPICAL OF ONE (1) PER CONTROL SYSTEM 018-T0224 7.8 A 4.6 A 3.6 A (TYPICAL) 018-T0233 10 A 6 A 4.8 A SERVICE: 208-480VAC, 50-60Hz, 3Å, SINGLE FEED AT 100A MAX. PER WIREWAY SECTION BY OTHERS 018-T2022 67 A 53 A 018-T2030 90 A 70 A TO CENTRAL CABINET - BELDEN 8469 PER WIREWAY SECTION - BELDEN 1583A PER HOIST RECEPTACLE 018-T2633 -115 A 90 A OR E-STOP EXPANSION (UP TO EIGHT (8) PER WIREWAY SECTION) 018-T3413 _ 62 A 50 A BY OTHERS 018-T3417 80 A _ 63 A 0 Ò Ò Ô Ò 0 ٢ 0 018-T4022 125 A 100 A _ 018-T6514 130 A 105 A HOIST POWER AND CONTROL WIREWAY - FACH SECTION 8.5"H x 5"D x 96"L (MAXIMUM SECTION LENGTH) ADDITIONAL WIREWAY SECTIONS AS REQUIRED * Other voltage configurations available. Contact us for additional details.

Warranty and Support

Three-Year Warranty against defects in materials or workmanship is provided on all J.R. Clancy equipment. Our warranty is contingent on operation by trained personnel and an annual equipment inspection of a J.R. Clancy authorized technician. 24/7 factory technical support with additional service and assistance provided by a worldwide network of J.R. Clancy authorized dealers.

Inspection and maintenance are available through J.R. Clancy's T.I.M.* (Training, Inspection, Maintenance) Program.

Ordering Information

Model Number	Hoist Speed	Hoist Capacity
018-T0224	20 fpm (0.1 m/s)	2,400 lb (1,089 kg)
018-T0233	20 fpm (0.1 m/s)	3,300 lb (1,497 kg)
018-T2022	200 fpm (1.0 m/s)	2,200 lb (998 kg)
018-T2030	200 fpm (1.0 m/s)	3,000 lb (1,361 kg)
018-T2633	260 fpm (1.3 m/s)	3,300 lb (1,497 kg)
018-T3413	340 fpm (1.7 m/s)	1,300 lb (590 kg)
018-T3417	340 fpm (1.7 m/s)	1,750 lb (794 kg)
018-T4022	400 fpm (2.0 m/s)	2,200 lb (998 kg)
018-T6514	650 fpm (3.3 m/s)	1,400 lb (635 kg)

Additional Information

For more information on Titan, visit jrclancy.com to access:

- · Detailed structural loading
- Specifications
- Electrical risers diagrams







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Minnesota Location

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