

Key Features

The BT2 Series winch provides unparalleled versatility and ease of use for theatre installations and for touring productions. BT2 Series winches are highly customizable, offering a variety of motors, gearbox ratios, rope configurations, and drum lengths to fit diverse applications.

BT2 winches feature low-noise, theater-spec dual brakes for quiet operation and a high-precision absolute encoder for accurate control.

A custom cable loom is available to provide a single point of connection between the winch and the power, limits, and encoder cables, making setup easier and facilitating cable management.

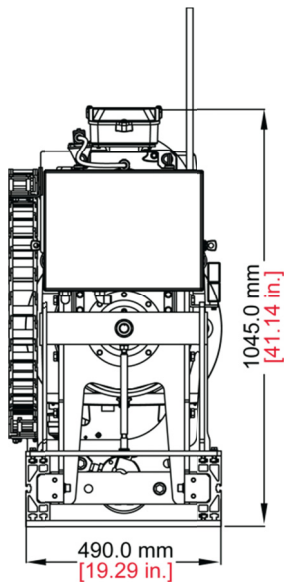
Description

The second generation Big Tow winches are the first choice for theater installations and touring productions that need to move scenery or fly performers across the stage. The BT2-490 winch incorporates Zero Fleet technology allowing the winch to be mounted easily in any position by ensuring the drum cable's take-off point remains static.

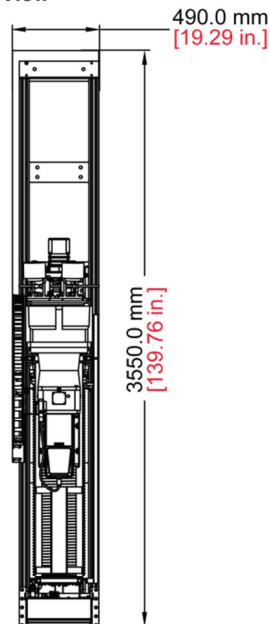
The BT2 winches conform to the BS7905-1:2001 standard and to the European Machinery Directive due to standard safety features such as dual brakes and a crossed groove detector. The winches also offer optional safety features including load cells, a slack rope detector, and a secondary encoder. Optional winch control systems are available for applications to be incorporated into SIL 3 installations.

Dimensions

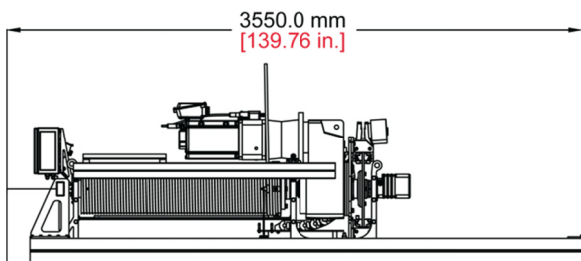
Front View



Top View



Side View



Specifications

Electrical	
Motor Phase	3 Phase
Rated Voltage	200 V to 480 V
Connections	
Power	Interconnectron Size 1.5, 6-pin
Feedback	Interconnectron Size 1, 17-pin
Encoder	Absolute Encoder, better than 1 mm accuracy
Mechanical	
Maximum Working Load	2500.0 kg (5511.56 lbs)*
Maximum Speed	6.50 m/s (21.32 ft/s)*
Maximum Travel	Variable, dependent on lead screw and drum length
Maximum Stroke	105.0 m (344.49 ft), with 12.0 mm (0.47 in.) rope; can be divided into multiple lines, single ended or roll on / roll off
Environmental	
Operating Temp	Clean, dry environment, 10° C to 35° C (50° F to 95° F), 50% RH
Construction	
Dimensions (W x H)	490.0 mm x 1045.0 mm (19.29 in. x 41.14 in.) Maximum Length: 3550.0 mm (139.76 in.) Base width: 490.0 mm (19.29 in.)
Drum Diameter	324.0 mm (12.76 in.)
Self Weight, typical	1150.0 kg (2535.32 lbs)
Certifications	
Entertainment	ANSI E1.6.1-2012, ANSI E1.43-2016, BS 7905-1: 2001
Safety	European Machinery Directive SIL 3 (requires optional safety features)
Accessories	
Safety Features	Single- or Dual-Circuit Load Cell, Secondary Encoder, Brake Release Monitors, On-winch Diverter Sheaves
Rope	Synthetic or Steel Wire Rope, 5.0 mm to 16.0 mm (0.20 in. to 0.63 in.)

*Final load weight and speed is determined by motor size and gearbox ratio.