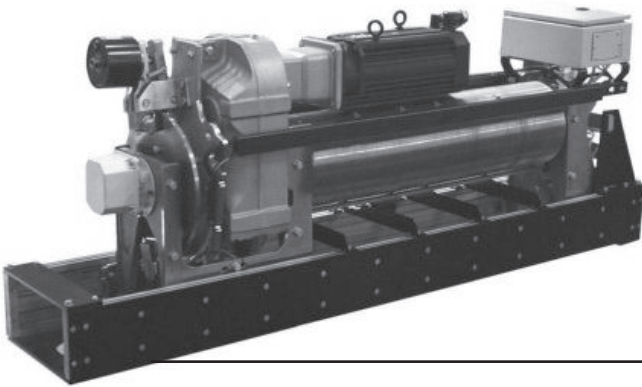


BigTow Winches



GENERAL INFORMATION

The family of second generation BigTows offers a wide selection of scenery-moving winches suitable for use not just in theatres but in a range of other entertainment applications. These multipurpose, brushless servomotor winches are designed for use in fixed theatre installations and for touring productions, for power flying and counterweight assist, performer flying and moving scenery across the stage.

Zero-fleet technology allows the winches to be mounted easily in any position, without the concerns of rope fleet angle. The winches consist of two basic components: a fixed "chassis" which is bolted to a support structure and a moving "carriage" that travels as the drum turns. The rotating elements of the winch are shaft mounted to facilitate the use of a wide variety of gearboxes, brakes and drum lengths. This arrangement also allows the optional use of a load cell, which can provide constant load monitoring. Ropes can be fed off the drum "through the channels" or "past the motor". Internal diverter sheaves are available that can collect all the ropes off the drum and feed them out one end of the winch, in an array to match a header sheave on a multi-line system.

All BigTow winches conform to BS7905-1:2001, as well as the European Machinery Directive. Winches can be supplied for specific applications on request and SIL3 systems are available.

FEATURES

- Zero-fleet technology
- Low-noise, theatre-spec brakes
- Dual brakes on all winches on the input and output shafts
- Brushless AC servomotor
(Lite models have AC induction motor -see separate documentation)
- BT2-390 models with pneumatic or electric output shaft brake
- High precision absolute encoder as standard
- Crossed groove detector

OPTIONS

Slack rope detector available for applications where it is necessary to detect slack rope at the winch.

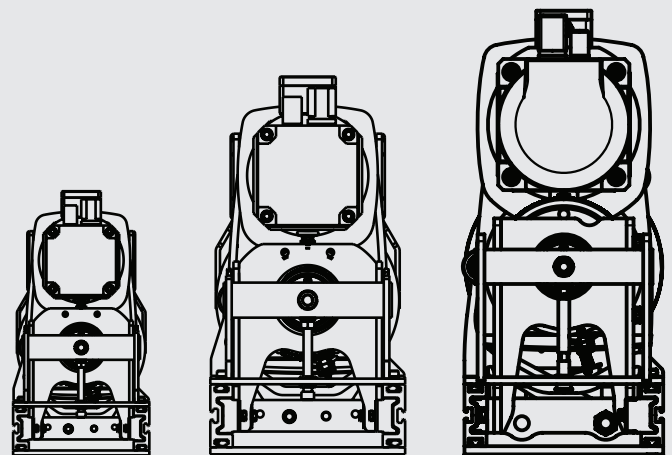
Single or dual-circuit load cells allow constant monitoring of the load at the winch, whether moving or stationary.

Secondary encoder increases safety through additional position monitoring.

On-winch diverter sheaves can provide optimised rope management in areas of limited space.

Cable management for improved routing of electrical cables.

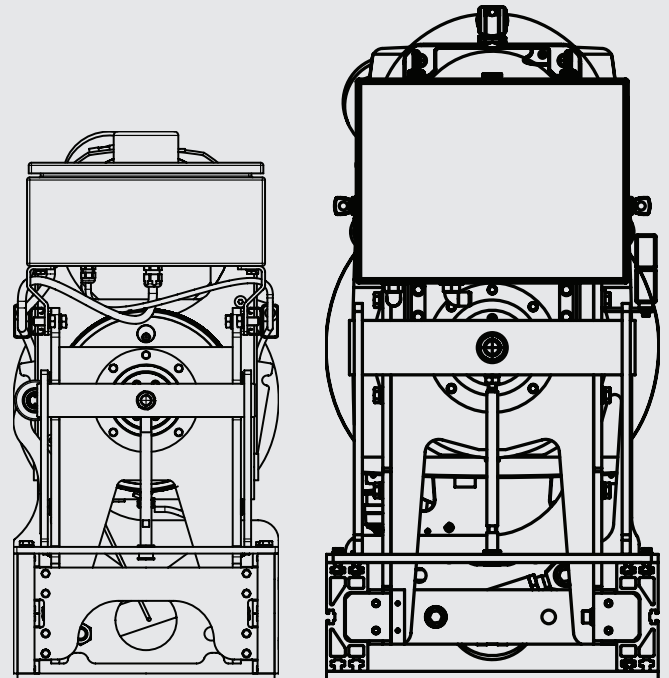
Release monitors on brakes enhances safety via status monitoring.



BT2-200
7⁷/₈" - 200mm W

BT2-290
11²⁷/₆₄" - 290mm W

BT2-300
11⁵²/₆₄" - 300mm W



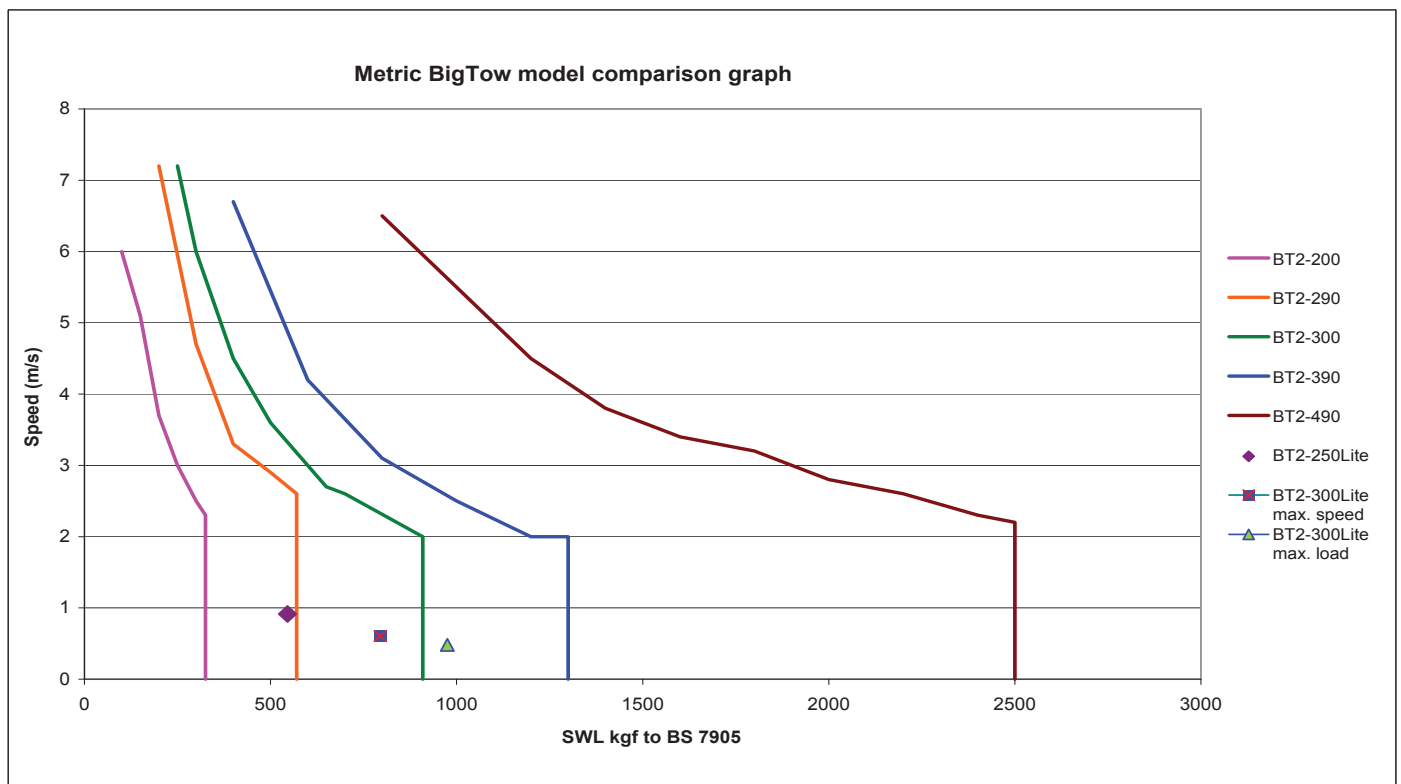
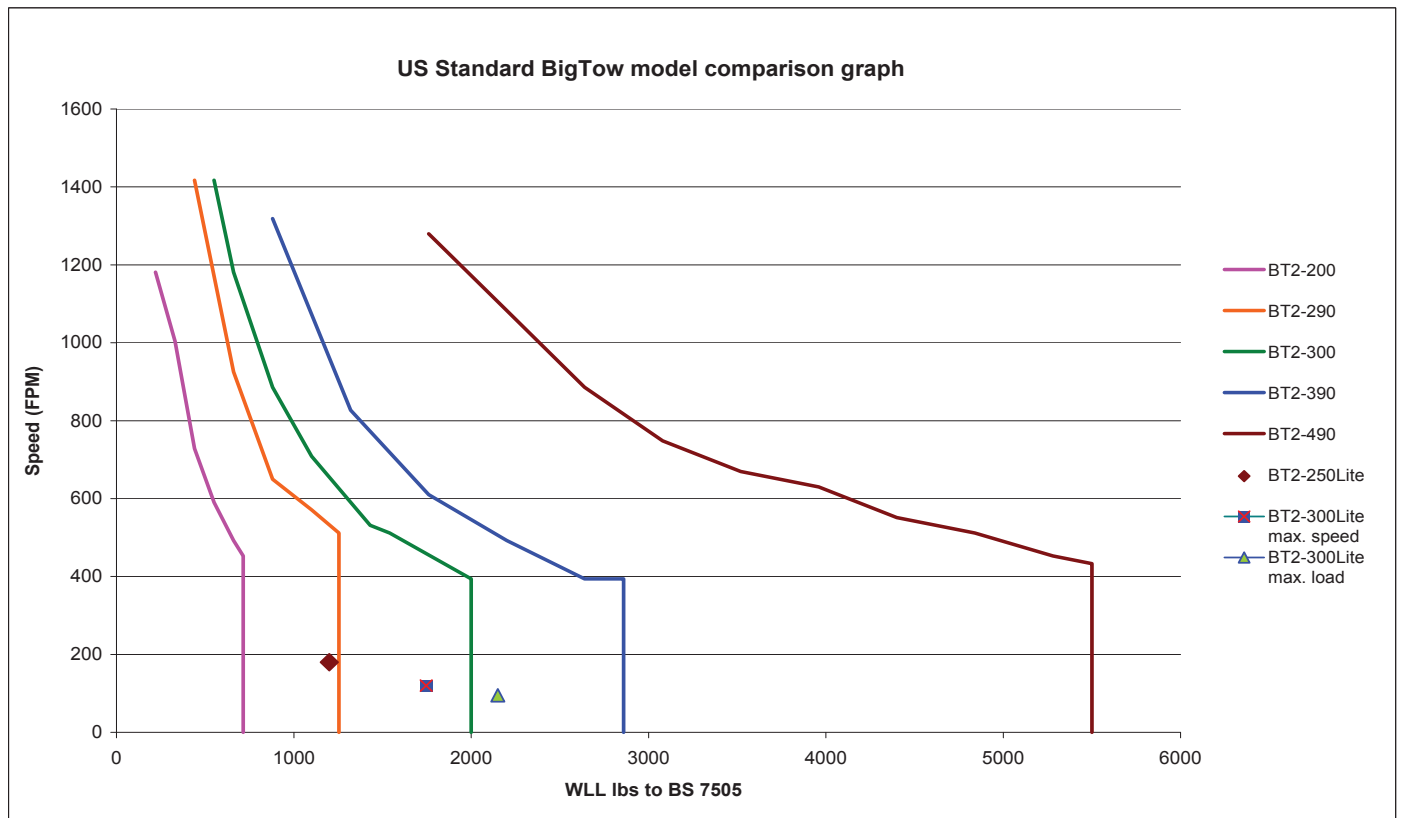
BT2-390
15²³/₆₄" - 390mm W

BT2-490
19¹⁹/₆₄" - 490mm W

Sample general arrangement drawings are available from our website. The length of the winch is determined by the number of cables and the travel required.

BigTow Performance Graphs

The graphs below show the BigTow variants and the performance graphs in imperial and metric units. The performance assumptions are based on a 480V ac supply voltage. Contact us if you would like performance data for other applications.



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