

# BigTow Winches

## power and performance

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 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 BS 7905-1:2001, as well as the European Machinery Directive.

The graph to the left illustrates the load and speed characteristics for different models. Please contact us with your project requirements, as we can supply winches for specific applications on request.

### Key features

- Zero-fleet technology
- Crossed groove detector
- Two independent brakes (each brake designed to hold upwards of 125% of the static load)
- Low-noise, theatre-spec brakes
- High precision absolute encoder
- Hard limit switches

### Options

- Slack rope detector
- Single or dual circuit load cells
- Secondary encoder
- Release monitors on brakes
- SIL3 systems available
- On-winch diverter sheaves

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