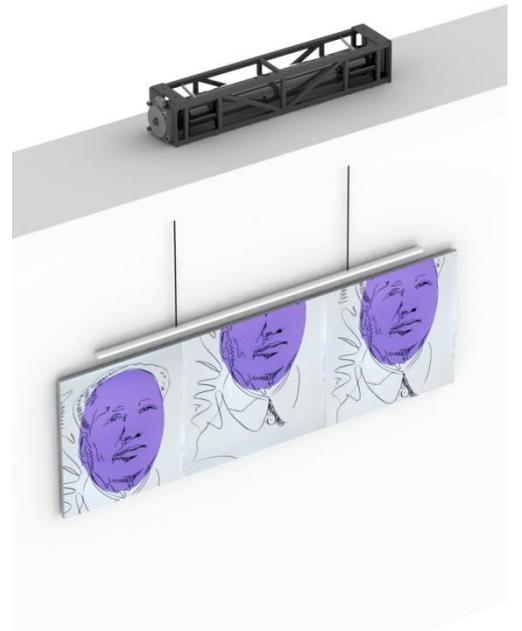


UPPERSTAGE MACHINERY
POWERED FLYING WINCHES

T winches

Narrow dimensions
Widely applicable

A simple solution, with minimal footprint, very practical and which can be adapted for various uses, ranging from lifting of short theatre battens to hoisting of paintings, works of art, banners, displays, curtains, etc...



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T winches

T winches are a low-speed, low-duty hoisting solution. They feature a **drum as long as the item to be suspended** and **powered by a tubular motor**, which makes the winch very essential and of limited footprint. Similarly to line-shaft winches, lifting lines leave the drum and are connected to the suspended item without any diversion.



MAIN FEATURES

T winches are developed and manufactured according to the European standards and the international guidelines for stage engineering and machinery (DIN 56950, FEM 9.756, BGV C1, etc...) and they go with EC Declaration of Conformity according to Machinery Directive 2006/42/EC of the European Parliament.

High safety factors Faults are excluded by applying high safety factors as a standard rule. All components between the load and the brakes are always designed for a minimum of two times the rated load.

Double-brake T winches are always equipped with two independent brakes, one in the motor side and a safety brake in the drum side, each able to safely stop the load.

Double limit switches Movement of the load is limited by means of two travel switches. Two over-travel switches, with separate and redundant circuits, stop the winch in the event of a failure of the first switches.

Keeper roller and cross-groove detection Ropes are kept in their intended grooves in the drum by means of spring-loaded keeper rollers. Where applicable, microswitches inhibit upward motion should a wire rope come out of its groove.

Low-maintenance T winches are composed of just a few components and all of them are almost maintenance-free.

Control system T winches naturally go with entry-level push button control solutions but they can also be configured to be used with top-level control systems.

COMPLETELY CONFIGURABLE

Depending on the application, T winches can be configured and adapted to meet the specific performances required.

The length of the drum can vary from less than one metre to more than 6 metres, perfectly matching the size of the load to be suspended.

Along the drum as many lifting lines as required by the dimensions and the structural strength of the suspended item can be distributed. If needed, instead of steel wire ropes the winch can be configured with polyester strips would in a pile-on way. For textile items, like banners, historic curtains, etc..., we have also configured the T winch without any line at all, directly winding the fabric in the drum.

Depending of the weight to be lifted, the drum will be completed with a motor of a suitable size. Speed is typically fixed, around 0.1 m/s.



TYPICAL APPLICATIONS

FOH Lighting battens **Side stage lighting battens**
Historic curtains **Banner and display hoisting**
Suspension of paintings and works of art

Configuration example: T150 - 0.81 kW power
WLL 150 kg at 0.08 m/s
2 steel wire ropes, Ø5 mm
Dimensions: 205 x 195 x 1150 mm
Self-weight: 43 kg

