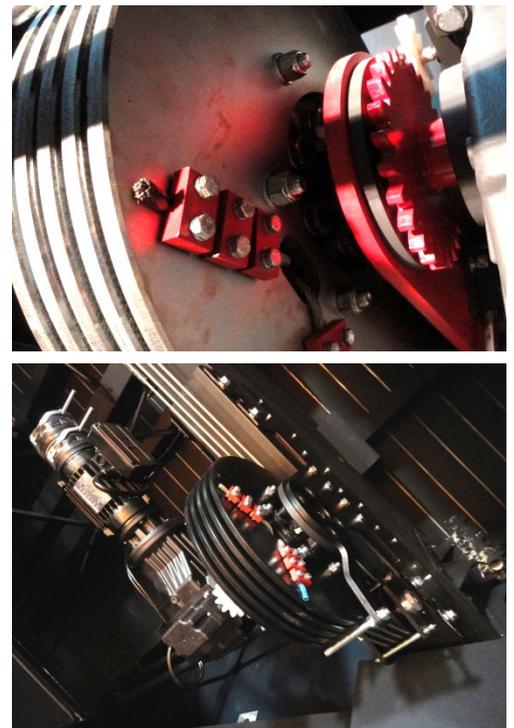


UPPERSTAGE MACHINERY
POWERED FLYING WINCHES

hUP winches

The easiest way
to get things moving

We have re-engineered this solution, widely used because of its simplicity, to get a strong and flexible basic winch, upon which to build all entry-level applications.



ALFASYSTEM

.STAGE MACHINERY .ENGINEERING

Quality Management System
ISO 9001 Certified



www.stagesystem.it

hUP Winches

hUP winches are based on a winding unit where each rope is piled in a specific slot. The winding unit is powered by a gearmotor and equipped with two independent brakes, each able to safely stop the load, precluding unintentional hazardous movements.

Out of the winding unit ropes are collected by a **set of header sheaves** integrated in the winch, allowing for **diversion of the ropes in different directions**.

THREE SIZES TO COVER ALL NEEDS

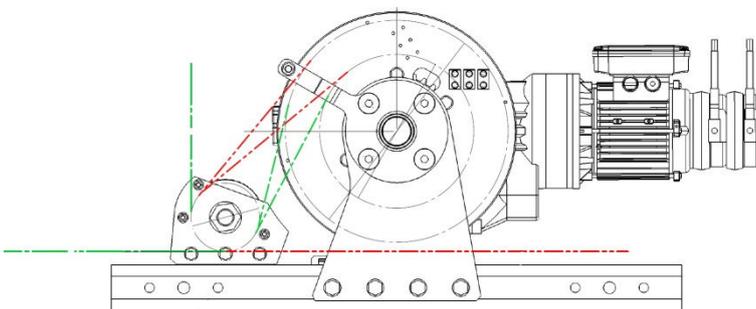
hUP winches are suitable for all of those applications where load capacity and travel are limited to medium values and speed is not a problem. They are typically used for small community theatres, FOH suspensions, etc...

hUP winches are pre-engineered lifting solutions which can be customized around 3 sizes: **hUP-LC, hUP-MC and hUP-HC** depending on the performances required.

A wide range of applications is covered: lifting capacity can be up to 700 kg and travel can be up to 11.5 m.

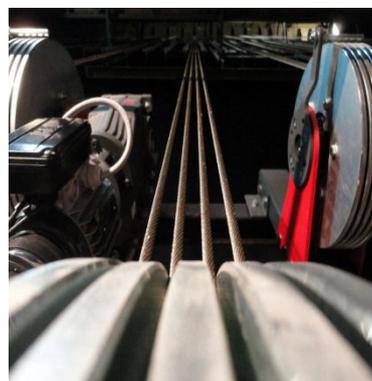
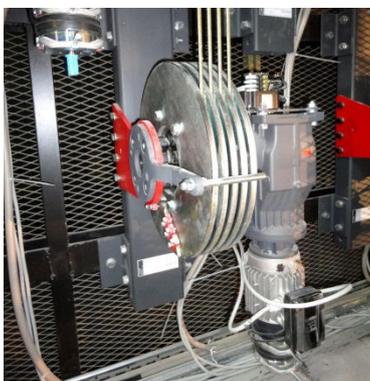
VERSATILE INSTALLATION

Thanks to the header block, featuring independent sheaves, each wire rope can be diverted in a different direction, allowing to place the winch anywhere in the installation and oriented in the most useful direction.



Configuration examples:

- hUP-HC - 0.75 kW power - WLL 620 kg at 0,09 m/s - 11.4 m travel
- hUP-MC - 0.37 kW power - WLL 350 kg at 0,09 m/s - 9 m travel
- hUP-LC - 0.18 kW power - WLL 200 kg at 0,08 m/s - 5.6 m travel



SAFETY AND RELIABILITY AS A STANDARD

hUP 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.

Limited wire-rope stress Pile-up solutions typically imply high stress level on the inner layers. To keep this inevitable occurrence to a minimum, the diameter of the core on which the rope is piled-up is always 40 times the diameter of the rope and the number of layers is limited. Wire rope suitable for pile-up applications is also used.

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 hUP winches are always equipped with two independent brakes, each able to safely stop the load, precluding unintentional hazardous movements.

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.

Low-maintenance All hUP winches are designed to perform a working life of 400 hours at full load and full speed, ensuring low-maintenance, reliability and no replacements. All components are lubricated for life.

CUSTOMIZABLE FEATURES

Overload limit switch In case the torque on the drum is exceeding the gearbox capacity, a limit switch is triggered stopping the winch in the upward direction.

Encoder Speed and position can be measured by an absolute encoder fitted directly on the drum.

Load sensor As an alternative to the overload microswitch, the torque on the drum can be continuously and precisely detected by a load cell. This data, combined with the position measurement of an absolute encoder, can be used to calculate the actual load applied to the batten and to detect overload/underload conditions.

Brakes monitoring Each brake can feature a microswitch giving confirmation of the brake status.

Slack rope detector Slack condition of the wire ropes is detected by a slack rope detector, to be installed remotely from the winch.

Cover Depending on the general installation conditions, hUP winches can be provided with a cover which can be in a noise reducing version.

Other fittings To get a complete installation set, winches can be supplied with connection clamps, certified steel wire ropes, pulleys and batten.

CONTROL OPTIONS

hUP pile-up winches can be configured to be used with entry-level push button solutions up to top-level control systems.