

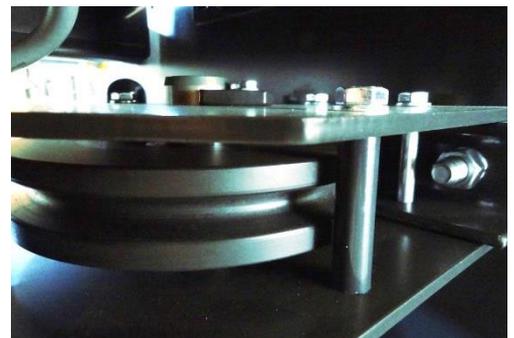
EVENT SOLUTIONS
POWERED FLYING WINCHES

E52 Winch

Powerful and safe design
Event ready

High performances and a very safe drive configuration are put together in a versatile winch, suitable to deal with the most demanding event applications.

Compact zero fleet-angle design, drum side braking, pivoting head block, 225 kg up to 4 m/s, large travel and a very precise dynamic load measurement system are the key features of the E52 winch.



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E52 Winch

The E52 winch is a point hoist solution designed with high demanding event and touring applications in mind.

Built within a sturdy aluminum frame matching with the standard **520 mm truss format**, it allows to **fly loads at high speeds and with variable angles**, while featuring an **extremely safe drive system configuration**.



KEY FEATURES

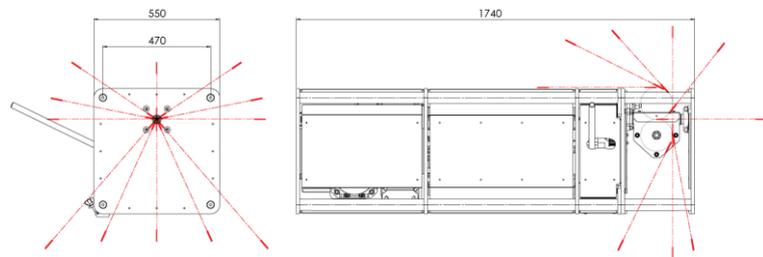
Compact and easy to install The incorporated zero fleet angle technology makes possible the mounting of the winch in any orientation and position. Combined use of two E52 winches, when installed head to head, makes possible to lift a double load with two lifting lines at only 20 cm one from the other.

Working at any angle The pivoting head block ensures to easily match with the most practical line direction and allows exceptional swinging of the load, making it ideal for 3D flying and other sensational effects.

Fitting all distances The winch accommodates up to 40 m of travel as a standard, giving also the option to keep it at stage level and have an easy and quick access to the winch in case of an emergency situation, for instance. A longer travel can be provided on request.

Powerful Very precise control of the movements can be achieved thanks to the brushless motor powering the winch, able to push a load of 225 kg up to 4 m/s.

Integrating a safe design Safety of the movements is achieved by integrating two excellent configurations for both the braking system and the position/speed detection devices. Any failure can be immediately detected and the load is stopped whatever the failure, even a drum shaft fracture.



Standard configuration:

Winch E52 - 11,7 kW power - FEM / ISO class: 2m / M5
WLL 225 kg at 4,0 m/s - 40 m travel
1x \varnothing 7 mm, compacted non-rotating steel wire rope
Dimensions: 1740 x 550 x 550 mm - 440 kg dead load

(customized configurations can be provided on request)

DESIGNED TO SAFELY PERFORM SENSATIONAL MOVEMENTS

The E52 winch is developed and manufactured according to the European standards and the international guidelines for stage engineering and machinery (DIN 56950, FEM 9.756, CWA15902, etc...).

High safety factors and reliability Faults are excluded by applying large safety factors as a standard rule. Moreover, each single component is chosen and designed to perform a working life of 1600 hours at full load and full speed.

Redundant braking in the best positions The winch features two independent braking units – the first installed in the motor side, the other in the drum side – which are located in opposite positions of the drive system. This configuration gives the maximum level of safety achievable.

Position and speed detection Two separate, high resolution incremental and absolute encoders are installed so that the cross-checking of the two signals allows to monitor the integrity of the whole drive system and of any other component without the need of further specific sensors.

Overload/Underload detection The E52 winch is provided with a precise load measurement system allowing to continuously detect the loads acting on the lifting line, whatever the installation position and the line direction. Load measurement is absolutely free from any noise being the load cell installed in a position not influenced by the drive operation.

Cross-groove detection The rope is kept in its intended groove in the drum by means of a spring-loaded, polyurethane coated, keeper roller. Two microswitches, triggered by the keeper roller, allows to stop the winch should the wire rope come out of its groove.

Double limit switches The E52 winch is provided with an easy accessible set of 4 switches, for integration in separate and redundant travel limit circuits.

Low maintenance Almost all components are lubricated for life or are self-lubricating, with the only exception of the ball screw and guides which require minimal oiling. The high reliability of the components ensures low-maintenance and no need for replacements.

Cover The E52 winch is provided with cover elements preventing direct access to the winch devices.

CONTROL OPTIONS

The E52 winch can be used with any control system suitable for high speed applications.

SIL3 / PLe ready All devices provided with the winch are suited for use in safety-related applications up to SIL3 according to EN 61508 or PLe to EN ISO 13849.

