

EXTRA-X Winch



EXTRA-X Winch is a high-performance high-speed winch designed for versatile applications in the entertainment, touring, and event industries. It features a variable speed operation, with a load capacity of up to 250 kg, hoisting speeds adjustable continuously from 0 to 1.8 meters per second, a maximum acceleration of 1.8 meters per second squared, and a hoisting height of up to 40 meters.



Compact Design

Innovative, non-welded aluminum round-tube frame structure supports 360° installation and is compatible with various mounting configurations.

High Reliability

Maintenance-free mechanical and functional components, designed to withstand rigorous touring conditions, with special anti-corrosion coating.

Dynamic Load Measurement

A position-independent dynamic load-measuring system ensures precise load evaluation.

Safety Features

Equipped with two independent silent brakes featuring contact-free monitoring and emergency lowering capabilities.

Operational Flexibility

Support closed-loop control, allowing true zero-speed hovering and brake-free direction changes.



Specifications



Safe Working Load	250kg	Incremental Encoder	1
Lifting Speed	1.8 m/s	Motor Thermal Protection	1
Acceleration	Max 1.8 m/s ²	Limit Switch	4-point limit
Lifting Height	Max 40m	Rope Disorder Switches	2
Motor Power	5.5kW	Full Rope Switches	2
Duty Classification	20%	Load Cells	2 (independent measurement with cross-comparison)
Brakes	2 (with feedback detection)	Dimensions	1500 × 517 × 517 mm
Absolute Encoder	1, 29-bit	Weight	217kg

EXTRA-X WINCH SYSTEM DIAGRAM



CONSOLE

ECAT Interface PDES System Cabinet



Front

Rear



IAC 7 Drive



IAC 7 Drive



Winch



Winch