VMW-S 125-3-30

MOVEKET
KINETIC ENTERTAINMENT TECHNOLOGIES

MOVECAT VMW-S 125-3-30 Entertainment Winch
in accordance with BGV C1, DGU V 17, DIN 56950-1 and EN 61508 SIL 3

Movecat VMW-S 125-3-30 high-speed winch for universal use in entertainment, tour and events applications. The VMW-S 125-3-30 is tested in accordance with BGV C1 / DGU V 17, DIN 56950-1 and DGUV Principle 315-390 and approved for use above people and in manned airframes as well as conforming to EN 61508 SIL 3. It is capable of transporting loads of up to 125 kg at speeds continuously variable from 0 to 3 metres per second. The winch achieves acceleration values up to 3m/sec². Hoisting heights of up to 30 metres are possible.

Basics

The VMW-S winch series convinces with an extremely compact format and allows operation in a wide variety of different setting-up and mounting configurations as well as 360° x 360° use in every installation position. It has an innovative, non-welded, aluminium round-tube frame structure in the 520 mm truss format and is mount-compatible with GP and ST 52 trusses, the full load handling capacity being preserved even when the device is used as a bearing structure. Maintenance-free, or else ultra-low-maintenance, mechanical and functional elements assure problem-free use even under rigorous tour conditions. All important parts are supplied with a special protective coating to guard against corrosion or made from corrosion-free materials for touring applications, and an extensive range of accessories is available for use on the road.

Key facts

The technical refinements of the entertainment winch include a dynamic load-measurement system that is independent of the installation position and isolated from the drive influences normally encountered. The effective load is ascertained and evaluated with precision in every installation position. An integrated cable guide with a central cable outlet located in the middle of the front side allows optimal central load application when used with trusses and optimal operation of manned airframes with two opposed winches. Only 18 centimetres separate the two opposed cables. Reduced-noise operation, as well as such features as two independent noiseless brakes with contact-free function monitoring and an emergency lowering function; high-resolution, independent, absolute and incremental encoders; a four-level geared limit switch adjustable from the exterior for separate operating- and emergency-limit evaluation; motor temperature monitoring and a dynamic load-measuring system with function testing round off this highly practical package. In closed-loop mode, hovering (true zero speed) and a change of run direction are possible without incursion of the brakes. Tried and tested in the Movecat V series, a status board displaying the most important function parameters is also integrated, along with DIN 56950-1 test functions for the separate testing of the brakes and limit switch functions. Both brakes are equipped with a manual release lever for the controlled lowering of suspended loads/persons in emergency operation.

The VMW-S 125-3-30 in conjunction with V-Motion 75 E can be integrated into the I-Motion network.

Technical data:

- Safe working load: 125 kg
- Hoisting speed: 3 m / sec
- Acceleration: max 3 m/sec²
- Hoisting height: 30 m
- Cable: 5 mm, rotating free
- Motor power: 5.5 kW
- Duty cycle: 20%
- Brakes: 2 (with contact-free monitoring and emergency lowering function)
- Absolute encoders: 1 (29-bit)
- Incremental encoders: 1
- Protections against thermal overload: 1 (self-resetting)
- Geared limit switch tracks: 4
- (independent, with visualisation)
- Load-measuring system: strain gauge with test function
- Dimensions: 1500 x 517 x 517 mm (Length x Width x Height)
- Weight: 203 kg

Subject to technical modifications and typographical errors.

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Technical Features:

- Weld-free aluminium frame in the common 52 mm truss system dimensions with full load-bearing capacity even when used as a supporting structure (optionally with various truss connector solutions)
- Matt black overall finish in scratch-resistant powder coating powder-coated finish
- Central rope outlet
- Maintenance-free basic construction
- 360x360 degree use possible
- Closed loop operation (true-zero-speed)
- Position-independent, dynamic load measuring system with test function
- Maintenance-free Silence double brake with non-contact monitoring and emergency release function / passenger airframe capability
- Operating and emergency limit switches easily adjustable from the outside
- Low-noise flat gear
- Movecat C8/24 connector with 1.5m PMC HV connection cable
- BGV C1, DGU V 17, DIN 56950-1 and EN 61508 - SIL 3 compliant
- Preliminary, construction and acceptance testing in accordance with DGUV Principle 315-390 (optional)

Options / accessories:

- Vortex adapter
- Ropes with various mountings and lengths
- Various truss connector solutions as plug-in adapters
- Transport trolley
- Transport case
- Transport cover
- V-Motion 75 E

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