

MOVECAT ECOLite (DC and RC model) chain hoists compliant with BGV D8 and igvw SQ P2



Movecat's ECOLite chain hoists were developed as economical rigging hoists for use in environments containing media equipment. They are the first choice when it comes to the safe and reliable hoisting and positioning

of trusses, stages, ground support structures and other devices used in media applications. Despite the attractive price point, even in the basic configuration great importance has been attached to professional quality and first-class safety equipment.

Five-fold safety for the chain as well as a high-quality transmission and an efficient DC brake in combination with a patented overload system, naturally, are standard features of this series. The Basicplate chain guide ensures reliable chain transmission and reduces the risk of the chain jamming. The hoists are exceptionally light as well as compact and are recommended in particular for applications where space is limited.

All hoists can be used without conversion either as

climbers or in the standard installation position, and most models can be converted to dual chainfall operation to increase their safe working loads.

ECOLite hoists are supplied as standard with 18 m or 24 m hoisting capacity, a single-hole suspension eyelet, two robust handles, a permanently installed textile chain bag, screwed cable glands with 360° anti-kink protection, DC versions with an HO7RN-F connector cable with a black CEE 4-pin plug and RC versions with a black CEE 4-pin plug for power and a yellow CEE 4-pin plug for remote control.

The hoists are available in both DC (direct control 400 V AC) and RC (remote control/low-voltage 24 V DC) versions and are CE-compliant, tested, and ready for operation at the time of delivery.

The chain hoists are designed for operation with Movecat phase-changing controllers in accordance with DIN 60204-32 and EN 13849-1 and when used accordingly are certified as CE compliant provided the instructions set out in the user manual are adhered to.

A UVV specialist factory inspection prior to first use for mobile applications as well as the VDE 0701/0702 first inspection are also included.

The PLUSlite chain hoists is recommended for day-to-day rigging use when building up and dismantling stage, concert and studio sets in the touring business as well as in the theatrical, studio, multifunction hall and trade fair sectors.

Basic configuration:

- 18/24 m hoisting height
- direct control 400 V AC or remote control 24 V DC
- DC brakes (1)
- overload protection by means of pat. friction clutch
- high-quality, specially hardened transmission
- precision-milled, specially hardened chain-bag wheel with min. 5 chain pockets
- highly robust round steel link chain acc. DIN 5684
- basicplate chain guide
- single-hole eyelet alternatively motor hook
- rotating chain hook
- permanently installed, fold-away textile chain bag
- robust, light alloy cast housing closed on all sides (ECO 250 with plastic covers) with two handles
- black, low-reflective finish RAL 9005
- compact, light construction
- smooth, quiet operation
- convertible to dual chainfall operation (except ECOLite 320)
- use in climbing or standard positions possible without conversion
- 1 m HO7RN-F connector cable with CEE 16 A 4-pin plug (black) DC model
1 m HO7RN-F with CEE 16 A 4-pin (black - power) and CEE 16 A 4-pin (yellow - remote control) RC model



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TECHNISCHE DATEN	ECOLite 250-4	ECOLite 320-4	ECOLite 1000-4	ECOLite 1000-8
SWL (*1 chain-fall, upgradable to 2)	250 kg (*1500 kg)	320 kg	1000 kg (*12000 kg)	1000 kg (*12000 kg)
Hoisting speed at 50 Hz c..	4 m/min (*2 m/min)	4 m/min	4 m/min (*2 m/min)	8 m/min (*4 m/min)
Number of chain falls	1 (*2)	1	1 (*2)	1 (*2)
Motor power	0.18 kW	0.30 kW	0.75 kW	2.20 kW
Duty cycle/Operations per h.	25% / 150	25% / 150	25% / 150	25% / 150
Load chain acc. EN 818-7 DAT	4x12 mm	4x15 mm	7x22 mm	7x22 mm
Weight with 18 m hoist	20 kg	20 kg	51 kg	51 kg
Weight with 24 m hoist	23 kg	23 kg	61 kg	61 kg
Dimensions (LxWxH) w/o chain hook (mm)	317x196x186	317x196x186	374x275x234	374x275x234

TECHNISCHE DATEN	ECOLite 1600-4	ECOLite 1600-8	ECOLite 2500-4	ECOLite 2500-8
SWL (*1 chain-fall, upgradable to 2)	1600 kg (*13200 kg)	1600 kg (*13200 kg)	2500 kg (*15000 kg)	2500 kg (*15000 kg)
Hoisting speed at 50 Hz c..	4 m/min (*2 m/min)	8 m/min (*4 m/min)	4 m/min (*2 m/min)	8 m/min (*4 m/min)
Number of chain falls	1 (*2)	1 (*2)	1 (*2)	1 (*2)
Motor power	2.20 kW	3.00 kW	2.20 kW	3.00 kW
Duty cycle/Operations per h.	40% / 150	25% / 150	25% / 150	25% / 150
Load chain acc. EN 818-7 DAT	9x27 mm	9x27 mm	11x31 mm	11x31 mm
Weight with 18 m hoist	113 kg	113 kg	145 kg	145 kg
Weight with 24 m hoist	132 kg	132 kg	168 kg	168 kg
Dimensions (LxWxH) w/o chain hook (mm)	506x435x531	506x435x531	643x435x490	643x435x490

Options / Accessories

Suspension	motor hook, optional swivel adapter with ring eyelet, hook block for dual-chain fall operation
Hoisting	height up to max. 60 m (1 chainfall)
Speeds	2 (depends on model and control system)
Internal control	x ² kit for the internal evaluation of a 2-track geared limit switch in DC operation
Connector cable	Multicore cable with 6-pin multipin connector – RC models
Limit switching	geared limit switch for RC and DC* ² incremental encoder* ³ absolute encoder* ³
Load-sensing	dynamic LME/LMS system * ³ (strain-gauge principle) (* ² with x ² kit or I-controller, * ³ with I-controller and additional equipment)
Running gear	hand and electric
Controllers (DC)	MPC ID8, ED8, LD8, TD8 series and MRC PD8 DC series
Controllers (RC)	MPC ID8, ED8, LD8 RC series
Miscellaneous	transport case, rain cover

Subject to technical modifications and typographical errors.