

GIS

swiss lifting solutions



ELECTRIC CHAIN MOTORS (D8) LPML 500 KG & LPL 1000 KG



 since
1957

www.gis-ag.ch

LOWEST SELF WEIGHT IN CLASS



Light

The LPML250 and LPL500 Series chain motor maximum lifting capacity compares favourably to the self-weight, making it the lightest entertainment chain motor in its class worldwide. LPML250, weighing only 12 kg, lifts 500 kg. The self-weight of the LPL500 is just 23 kg, offering a lifting capacity of 1000 kg. The ideal motors for mobile use, the lower self-weight and compact size also has a positive impact on transport costs.

Compact

LPML250 and the LPL500 are modular in design with compact construction which is why they are perfectly suited for integration in trusses. LPML250 fits in the 300 mm square truss and LPL500 in the 400 mm square truss. Regardless of its compact size, wearing parts can be replaced in a simple manner, making it the hoist technicians' friend as well.

Powerful

The case hardened and square profile galvanised steel chain provides around 15 % more capacity at an identical nominal diameter when compared to traditional round steel chain. The larger cross-sectional area reduces wear and increases the lifetime of the chain. The load hook with stable, guided hook latch and safety rubber buffer provides maximum safety.

Weather resistant

A feature of the chain motor is the protection class IP65. It is dust proof and protected against water jets. The motors is perfectly suitable for outside use, even under the most arduous conditions. On open air events and concert tours, the rigging professional will appreciate the weather resistance and reliability of these electric chain motors.





Product features



Design

- Compact and light
- Robust aluminium casing and cover for mobile and outdoor use
- Powerful built-in motor
- Liquid drain



Brake

- Reliable spring loaded DC-brake
- Safe braking of the load
- Optionally independent second brake on existing shaft (no cover extension required)



Transmission

- Smooth running (65 dB)
- 3-step drive with helical gearing
- Permanent lubrication
- Self-contained gearbox



Geared limit switch

- The upper and lower end position of the load hook can be set easily and precisely
- Optionally 2 additional emergency stop contacts available
- Optionally external limit switch



Polygonal connections

- All shaft-hub connections are built in a self-centering polygonal design
- Optimal power transmission
- Quick assembly and disassembly



Hooks

- Skeleton load and suspension hooks
- Hook safety catch fastened into position when closed
- Dampening system

Product accessories



Load measurement (LPL500)

- Load sensor integrated in suspension
- Simple installation in special eyebolt or hook suspension
- Optionally mechanical protection



Path measurement (LPL500)

- Absolute or incremental encoder
- Encoder on chain wheel (no housing extension)
- Optionally encoder on drive shaft (with housing extension)



Flight case

- LPML250: 4 units per case
- LPL500: 2 units per case
- Stable transport unit
- Heavy duty castors
- Low transport weight



Briefcase controller

- Portable control system under 10 kg
- 2 or 4-channels per controller with extension possibility
- Direct or low voltage control
- Individual toggle selection switches for each hoist



Further options

- Handles
- 42 V low voltage control
- Safety load locking hook
- Manual & electric trolleys



Maintenance

- Easy to maintain
- Good accessibility of wearing parts
- Quick and simple replacement
- No special tools required
- Two part chain guiding plate

Standard version

D8 motor according to EN14492, DIN56950
Standard voltages: 3 × 400V/50Hz, 3 × 230V/50Hz
Direct control
One lifting speed
Housing and cover made of aluminum
Housing and equipping parts black
Chain galvanised yellow
Eyebolt or hook suspension
Usable as stationary or climbing hoist
Protection class IP65
Liquid drain for outdoor use
Isolation class F (motor)
DC spring-loaded brake
Slipping clutch not in the flow of forces
Wear plate as additional chain guidance
Load hook with interlocking hook lug, dampening system

Accessories and options

42 V low voltage control with geared limit switch
Other operating and control voltages on request
Safety load locking hook
Geared limit switch with two additional emergency stops
Safety radio remote control
Ergonomic control switch on cable
Second, independent brake
Chain bags for various lifting heights
Push and motorised trolleys
Handles
Load and path measurement (LPL500)
Flight cases
Briefcase controller 2- or 4-ways
Cables and plugs

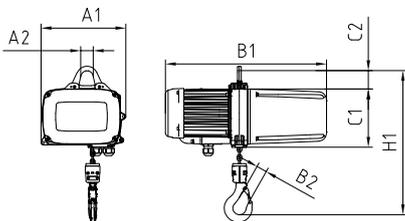
Performance data

Type	Load capacity 1-fall (kg)	Classification EN/ISO (FEM)	Speed, 50 Hz (m/min)	Speed, 60 Hz (m/min)	Motor power (kW)	Power consumption fully-loaded (A)	Chain diameter (mm)	Sound pressure level in hall 1 m distance (dBA)	Chain safety factor static
LPML250/INL.D8	500	A3/M3 (1Bm)	4	4.8	0.38	2.4	4.1 x 11.5	65	5
LPL500/INL.D8	1000	A3/M3 (1Bm)	4	4.8	0.76	2.6	5.7 x 16	60	5

Weight and dimensions

Type	Net weight (kg)	Equipped 10 m lift (kg)	Equipped 18 m lift (kg)	Equipped 24 m lift (kg)	Chain weight per meter (kg)	Hoists per pallet	Weight per pallet 18 m lift (kg)	Dimensions (mm)								
								A1	A2	B1	B2	C1	C2	C3	H1	H2
LPML250/INL.D8	12	17	20	23	0.38	20	462	206	030	368	24	134	44	95	378	429
LPL500/INL.D8	23	33	39	44	0.74	16	678	272	040	414	24	162	59	137	447	525

Stationary hoist (eyebolt suspension)



Climbing hoist (hook suspension)

