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Development Member

ELECTRIC CHAIN HOIST LPM / LCH



LIGHT AND POWERFUL

Simple and easy to use – reliable and safe in operation – long-lasting and easy to maintain. In theatres, schools, sports centres, multifunction event venues, arenas, congress centres, TV studios or on concert tours, GIS chain hoists are in use worldwide. Developed and manufactured in Switzerland – for the world market.

Electric chain hoist LPM – the Light Load Lifter



LPM



Reliable and long-lasting

- 3 year warranty
- Made in Switzerland
- Gearbox with permanent lubrication
- Proven DC spring brake
- High safety in operation
- No sensitive electronics
- Aluminium casing and cover
- Minimum 1600 operating hours with 40% duty cycle, 240s/h
- Profile steel chain
- Dry-running slipping clutch

Easy to operate

- Low weight – only 12 kg
- Usable as stationary or climbing hoist without modification
- Geared limit switch with high positioning accuracy
- Quiet operation with 3-step drive with helical gearing
- Short delivery time
- No special tools for maintenance needed
- Effortless to maintain, easy accessible slipping clutch
- Load hook swivels 360 degrees

Customer specific

- Three- or single-phase power Direct or contactor control
- Operating voltages at customer request
- Control voltages at customer request
- Special controls
- Special speeds
- Eyebolt and hook suspension
- Lifting heights up to 90 m
- Hook travel stop position adjustable
- Push trolley
- Wide range of accessories and options

YOUR BENEFITS

With a weight of only 12 kg, the LPM is the lightest among the electrical chain hoists in the entertainment industry.

It is modern and compact in design with modular construction. The 3-step drive and the 5-pocket sprocket lead to very quiet running in operation. The slipping clutch is outside the drive train.





Profile steel chain

The phosphate coated and casehardened profile steel load chain enables a chain diameter 7 % smaller than round steel chain with the same load capacity. This allows a more compact design of the drive mechanism, which reduces the weight of the hoist.

Spring brake

The DC spring brake allows safe braking of the load with minimal overrun. This proven brake system is highly reliable and easy to maintain. A second brake can be easily mounted on the existing shaft and optionally independently monitored.

Chain container

Due to the slewable suspension of the chain container, the electric chain hoist can be used as a stationary or climbing hoist without modification. With mobile use on tour, the resulting time saving is particularly valued by the stage crew.

Polygonal connections

A real innovation is hidden inside the chain hoist. All shaft-hub connections are built to a polygonal design. This allows significantly faster disassembly and assembly during maintenance and reduces service costs.



BGV-D8

Standard version

Load capacities: 125kg to 2500 kg (1-fall)

Standard voltages: 3×400V/50Hz,
3×230V/50 Hz, 3×480V/60 Hz

Terminal board for direct control

One or two speeds

Casing, chain and fittings black

Eyebolt suspension

Stationary or climbing hoist

Protection class IP65

Isolation class F (motor)

DC spring brake

Slipping clutch outside the drive train

Chain guide plate as additional
chain guide

Lifting slings or lifting handles



Accessories and options

Control 42V low voltage with geared
limitswitch

Other control voltages on request

Special motor suitable for frequency
inverter operation

Hook suspension

Locking load hook

Geared limit switch with two additional
emergency stops

Ergonomic control switch

Terminal board with brake contactor

Terminal board with fast switching relay

Temperature monitoring

Textile chain container for various
lifting heights

Push and motor trolleys

Liquid drain for outdoor operation

Weather protection

Version according to British Standard
BS 7906, Part 1:2005, Category A

YOUR BENEFITS

Thanks to the special coating of the casings and the protection class IP65, the chain hoists are perfectly suitable for both mobile and outdoor use. They can be used as a stationary or climbing hoist without modification. When used as a climbing hoist, the chain guide plate ensures the correct running in and out of the chain.

Electrophoretic coating

Electrophoretic coating offers high scratch and UV resistance and thus optimal protection against mechanical wear. The coating is black.



Protection class IP65

The design of the chain hoist to protection class IP65 makes it dust-tight and protects it against strong water jets, and thus highly suitable for outdoor use.





Performance data D8

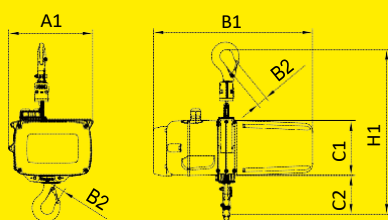
| Load capacity 1-fall (kg) | Type | Speed 50 Hz (m/min) | Speed 60Hz (m/min) | Duty cycle (%) | Motor power (kW) | Power consumption fully-loaded (A) | Weight unequipped (kg) | Chain diameter (mm) | Chain weight per metre (kg) | Chain safety factor static |
|---------------------------|------------------|---------------------|--------------------|----------------|------------------|------------------------------------|------------------------|---------------------|-----------------------------|----------------------------|
| 250 | LPM250 / 1NL.D8 | 4 | 4.8 | 40 | 0.25 | 1.6 | 11 | 3.75 | 0.34 | 8 |
| 250 | LCH250 / 1NL.D8 | 4 | 4.8 | 25 | 0.18 | 1.4 | 16.5 | 4 | 0.32 | 8.2 |
| 250 | LCH250 / 1N.D8 | 8 | 9.6 | 25 | 0.36 | 1.3 | 16.5 | 4 | 0.32 | 8.2 |
| 250 | LCH250 / 1NF.D8 | 8/2 | 9.6/2.4 | 25 | 0.36/0.09 | 1.8/1.7 | 19 | 4 | 0.32 | 8.2 |
| 500 | LCH500 / 1NL.D8 | 4 | 4.8 | 25 | 0.36 | 2.3 | 17 | 5 | 0.52 | 6.4 |
| 500 | LCH500 / 1N.D8 | 8 | 9.6 | 25 | 0.72 | 1.9 | 17 | 5 | 0.52 | 6.4 |
| 500 | LCH500 / 1NF.D8 | 8/2 | 9.6/2.4 | 25 | 0.72/0.18 | 2.3/1.8 | 19.5 | 5 | 0.52 | 6.4 |
| 1000 | LCH1000 / 1NL.D8 | 4 | 4.8 | 25 | 0.73 | 3.5 | 40 | 7 | 1.04 | 6.2 |
| 1000 | LCH1000 / 1N.D8 | 8 | 9.6 | 25 | 1.45 | 4.3 | 40 | 7 | 1.04 | 6.2 |
| 1000 | LCH1000 / 1NF.D8 | 8/2 | 9.6/2.4 | 25 | 4.0/2.8 | 4.3/3.8 | 41 | 7 | 1.04 | 6.2 |
| 1600 | LCH1600 / 1NL.D8 | 4 | 4.8 | 25 | 1.22 | 4.5 | 56 | 9 | 1.75 | 6.4 |
| 1600 | LCH1600 / 1N.D8 | 8 | 9.6 | 25 | 2.44 | 6.8 | 56 | 9 | 1.75 | 6.4 |
| 1600 | LCH1600 / 1NF.D8 | 8/2 | 9.6/2.4 | 25 | 2.44/0.61 | 7.3/6.2 | 58 | 9 | 1.75 | 6.4 |
| 2000 | LCH2000 / 1NL.D8 | 4 | 4.8 | 25 | 1.53 | 4.8 | 56.5 | 10 | 2.25 | 6.4 |
| 2000 | LCH2000 / 1N.D8 | 8 | 9.6 | 25 | 3.06 | 7.3 | 56.5 | 10 | 2.25 | 6.4 |
| 2000 | LCH2000 / 1NF.D8 | 8/2 | 9.6/2.4 | 25 | 3.06/0.77 | 8.5/6.6 | 58.5 | 10 | 2.25 | 6.4 |
| 2500 | LCH2500 / 1NL.D8 | 3.2 | 3.84 | 25 | 1.53 | 4.8 | 56.5 | 10 | 2.25 | 5.1 |
| 2500 | LCH2500 / 1N.D8 | 6.4 | 7.68 | 25 | 3.06 | 7.3 | 56.5 | 10 | 2.25 | 5.1 |
| 2500 | LCH2500 / 1NF.D8 | 6.4/1.6 | 7.68/1.92 | 25 | 3.06/0.77 | 8.5/6.6 | 58.5 | 10 | 2.25 | 5.1 |

Further speeds on request

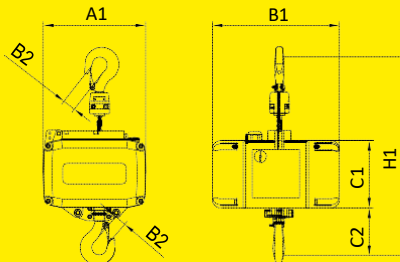
Dimensions D8

| Type | Falls | A1 | B1 | B2 | C1 | C2 | H1 |
|--------------|-------|-----|-----|----|-----|-----|-----|
| LPM250 / D8 | 1 | 202 | 389 | 19 | 134 | 95 | 400 |
| LCH250 / D8 | 1 | 248 | 309 | 22 | 164 | 116 | 445 |
| LCH500 / D8 | 1 | 248 | 309 | 22 | 164 | 116 | 459 |
| LCH1000 / D8 | 1 | 323 | 369 | 32 | 214 | 139 | 581 |
| LCH1600 / D8 | 1 | 347 | 389 | 37 | 230 | 164 | 667 |
| LCH2000 / D8 | 1 | 347 | 389 | 37 | 230 | 164 | 667 |
| LCH2500 / D8 | 1 | 347 | 389 | 37 | 230 | 164 | 667 |

LPM



LCH



BGV-D8 PLUS

Standard version

Load capacities: 125kg to 1000 kg (1-fall)

Standard voltages: 3×400V/50Hz,
3×230V/50Hz, 3×480V/60Hz

Terminal board for direct control

One or two speeds

Casing, chain and fittings black

Eyebolt suspension

Stationary or climbing hoist

Protection class IP65

Isolation class F (motor)

Two independent DC spring brakes

Slipping clutch outside the drive train

Chain guide plate as additional
chain guide

Lifting slings or lifting handles



Accessories and options

Control 42V low voltage with geared
limitswitch

Other control voltages on request

Special motor suitable for frequency
inverter operation

Hook suspension

Locking load hook

Geared limit switch with two additional
emergency stops

Ergonomic control switch

Terminal board with brake contactor

Terminal board with fast switching relay

Temperature monitoring

Textile chain container for various
lifting heights

Push and motor trolleys

Liquid drain for outdoor operation

Weather protection

Version according to British Standard
BS 7906, Part 1:2005, Category A

YOUR BENEFITS

Two independent brake systems allow people to stand under the load without a secondary safety device. By means of direct control, the chain hoists can be easily combined as group hoists. The ergonomic control switch is controlled by low voltage in stationary hoists.

Geared limit switch

The top and bottom end positions can be individually and precisely set. Two additional emergency stops are optionally available to further increase safety.



Locking load hook

The optional locking load hook prevents the load from accidentally slipping off the load hook.





Performance data D8PLUS

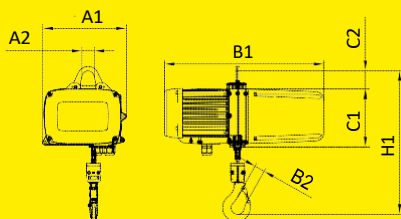
| Load capacity 1-fall (kg) | Type | Speed 50 Hz (m/min) | Speed 60Hz (m/min) | Duty cycle (%) | Motor power (kW) | Power consumption fully loaded (A) | Weight unequipped (kg) | Chain diameter (mm) | Chain weight per metre (kg) | Chain safety factor static |
|---------------------------|--------------------|---------------------|--------------------|----------------|------------------|------------------------------------|------------------------|---------------------|-----------------------------|----------------------------|
| 200 | LPM250/1NL.D8PLUS | 4 | 4.8 | 50 | 0.25 | 1.6 | 12 | 3.75 | 0.34 | 10 |
| 250 | LCH500/1NL.D8PLUS | 4 | 4.8 | 50 | 0.18 | 2.3 | 19 | 5 | 0.52 | 12.8 |
| 250 | LCH500/1N.D8PLUS | 8 | 9.6 | 50 | 0.36 | 1.9 | 19 | 5 | 0.52 | 12.8 |
| 250 | LCH500/1NF.D8PLUS | 8/2 | 9.6/2.4 | 50 | 0.36/0.09 | 2.3/1.8 | 21.5 | 5 | 0.52 | 12.8 |
| 500 | LCH1000/1NL.D8PLUS | 4 | 4.8 | 50 | 0.36 | 3.5 | 46 | 7 | 1.04 | 12.5 |
| 500 | LCH1000/1N.D8PLUS | 8 | 9.6 | 50 | 0.72 | 4.3 | 46 | 7 | 1.04 | 12.5 |
| 500 | LCH1000/1NF.D8PLUS | 8/2 | 9.6/2.4 | 50 | 0.72/0.18 | 4.3/3.8 | 47 | 7 | 1.04 | 12.5 |
| 800 | LCH1600/1NL.D8PLUS | 4 | 4.8 | 50 | 0.58 | 4.5 | 62 | 9 | 1.75 | 12.9 |
| 800 | LCH1600/1N.D8PLUS | 8 | 9.6 | 50 | 1.16 | 6.8 | 62 | 9 | 1.75 | 12.9 |
| 800 | LCH1600/1NF.D8PLUS | 8/2 | 9.6/2.4 | 50 | 1.16/0.29 | 7.3/6.2 | 64 | 9 | 1.75 | 12.9 |
| 1000 | LCH2000/1NL.D8PLUS | 4 | 4.8 | 50 | 0.76 | 4.8 | 62.5 | 10 | 2.25 | 12.8 |
| 1000 | LCH2000/1N.D8PLUS | 8 | 9.6 | 50 | 1.53 | 7.3 | 62.5 | 10 | 2.25 | 12.8 |
| 1000 | LCH2000/1NF.D8PLUS | 8/2 | 9.6/2.4 | 50 | 1.53/0.38 | 8.5/6.6 | 64.5 | 10 | 2.25 | 12.8 |

Further speeds on request

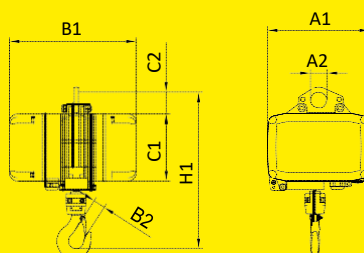
Dimensions D8PLUS

| Type | Falls | A1 | A2 | B1 | B2 | C1 | C2 | H1 |
|------------------|-------|-----|-----|-----|----|-----|-----|-----|
| LPM250/ D8PLUS | 1 | 202 | ∅30 | 389 | 19 | 134 | 45 | 350 |
| LCH500/ D8PLUS | 1 | 267 | ∅40 | 380 | 22 | 164 | 52 | 395 |
| LCH1000/D8PLUS | 1 | 342 | ∅52 | 465 | 32 | 214 | 69 | 511 |
| LCH1600 / D8PLUS | 1 | 366 | ∅75 | 485 | 37 | 230 | 141 | 638 |
| LCH2000/ D8PLUS | 1 | 366 | ∅75 | 485 | 37 | 230 | 141 | 638 |

LPM



LCH



BGV-C1

Standard version

Load capacities: 125kg to 1000kg (1-fall)

Standard voltages: 3×400 V/50Hz,
3×230 V/50 Hz, 3×480 V/60 Hz

Terminal board for direct control

Single speed

Casing, chain and fittings black

Eyebolt suspension with load measuring
pin: Output signal 0–10V

Protection class IP65

Isolation class F (motor)

Two independent DC spring brakes

Slipping clutch outside the drive train

Incremental encoder on chain wheel

Integration with PLC controller possible

Geared limit switch with two additional
emergency stops

Chain guide plate as additional
chain guide

Lifting slings or lifting handles



Accessories and options

Contactor control 24VDC

Other operating voltages on request

Special motor suitable for frequency
inverter operation

Hook suspension for load measuring pin

Locking load hook

Terminal board with brake contactor

Terminal board with fast switching relay

Load measuring pin: Output signal
4–20mA

Preparation for path measurement on
drive shaft (without encoder)

Preparation for path measurement on
chain wheel for absolute encoder (without
encoder)

Temperature monitoring

Independent brake monitoring of primary
and secondary brakes

Textile chain container for various
lifting heights

YOUR BENEFITS

For both path and load measurement, the additional components and electrical parts can be easily integrated in the chain hoist. Our partners who develop and supply the controls for group hoists value this highly.

Path measurement

Preparations can be made for the integration of encoders on chain wheel and drive shaft.



Load measurement

Special eyebolt and hook suspensions allow simple installation of a load measuring pin.





Performance data C1

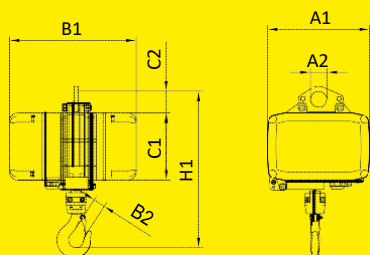
| Load capacity 1-fall (kg) | Type | Speed 50 Hz (m/min) | Speed 60Hz (m/min) | Duty cycle (%) | Motor power (kW) | Power consumption fully-loaded (A) | Weight unequipped (kg) | Chain diameter (mm) | Chain weight per metre (kg) | Chain safety factor static |
|---------------------------|----------------|---------------------|--------------------|----------------|------------------|------------------------------------|------------------------|---------------------|-----------------------------|----------------------------|
| 250 | LCH500/1NL.C1 | 4 | 4.8 | 50 | 0.18 | 2.3 | 19 | 5 | 0.52 | 12.8 |
| 250 | LCH500/1N.C1 | 8 | 9.6 | 50 | 0.36 | 1.9 | 19 | 5 | 0.52 | 12.8 |
| 500 | LCH1000/1NL.C1 | 4 | 4.8 | 50 | 0.36 | 3.5 | 46 | 7 | 1.04 | 12.5 |
| 500 | LCH1000/1N.C1 | 8 | 9.6 | 50 | 0.72 | 4.3 | 46 | 7 | 1.04 | 12.5 |
| 800 | LCH1600/1NL.C1 | 4 | 4.8 | 50 | 0.58 | 4.5 | 62 | 9 | 1.75 | 12.9 |
| 800 | LCH1600/1N.C1 | 8 | 9.6 | 50 | 1.16 | 6.8 | 62 | 9 | 1.75 | 12.9 |
| 1000 | LCH2000/1NL.C1 | 4 | 4.8 | 50 | 0.76 | 4.8 | 62.5 | 10 | 2.25 | 12.8 |
| 1000 | LCH2000/1N.C1 | 8 | 9.6 | 50 | 1.53 | 7.3 | 62.5 | 10 | 2.25 | 12.8 |

Further speeds on request

Dimensions C1

| Type | Falls | A1 | A2 | B1 | B2 | C1 | C2 | H1 |
|-------------|-------|-----|-----|-----|----|-----|-----|-----|
| LCH500/C1 | 1 | 267 | ∅40 | 452 | 22 | 164 | 95 | 438 |
| LCH1000/C1 | 1 | 342 | ∅52 | 465 | 32 | 214 | 121 | 563 |
| LCH1600/C1 | 1 | 366 | ∅70 | 485 | 37 | 230 | 146 | 643 |
| LCH 2000/C1 | 1 | 366 | ∅70 | 485 | 37 | 230 | 146 | 643 |

LCH





BGV-D8

Chain hoist according to BGV D8/GUV-V D8 as a modular chain hoist for lifting loads. Loads 125 kg – 2500 kg in single fall operation. Can be used as climbing or stationary hoist without modification.



BGV-D8PLUS

Chain hoist based on BGV-D8/GUV-V-8 as modular chain hoist for lifting loads. As a special feature, it can hold loads at rest over people without requiring a secondary safety device. Loads 125 kg – 1000 kg in single fall operation. Can be used as a climbing or stationary hoist without modification.



BGV-C1

Chain hoist according to BGV-C1 / GUV-V-C1 for stage presentation for lifting and moving loads over people. Loads 125 kg – 1000 kg in single fall operation. Can be used as a climbing or stationary hoist without modification.

