

## LoadGuard - Standard Rigging Electric Chain Hoists to BGV D8

- Modern design, manufacturing and assembly
- Modular unit meets all current hoisting regulations for standard rigging hoists to BGV D8 and FEM 9.751 standards, optional extra features allow the hoist to conform to current and future higher integrity standards
- Lifting capacities from 250kg to 5000kg
- Supplied in Direct Control or alternatively Low Voltage Control (42V) with 2 or 4 position geared electrical limit switches. In addition, all hoists are fitted with moveable mechanical stops to prevent over travel in an emergency situation
- Speeds; A range of speeds are available including standard 4 m/ min and many faster speeds, 2 speeds versions are available - generally used for permanent installations
- The clutch overload device is mounted outside the drive train; in the event of clutch problems the load will not be compromised. This is a requirement of many modern safety standards.
- Light in weight, small in size, a 500kg hoist weighs only 18.5kg
- 5 or 6 pocket load chain wheel gives smoother running and quiet operation
- Eye Suspension is standard, hook available on request
- The hoist can be used for either upright/motor up or climbing/motor down applications
- The chain bag is close coupled, available in five sizes. (see page 15 for further information)
- The hoist and chain are black in colour, ideal for entertainment applications, zinc plated chain also available
- Available for 3 phase or single phase power supplies
- Latest technology in design and manufacture means long life and competitive pricing. Quiet, reliable and proven time after time
- Options for higher safety regulations include 2nd independent brake, 4 position limit switches, load sensing eye or hook suspension units, brake monitor and encoders for positional feedback. These can be fitted or retrofitted to the standard modular hoist
- Flight cases have been developed to hold up to 4 x 500kg hoists reducing pack and truck sizes



### Why should I use a LoadGuard™ Rigging Hoist?

The modular LoadGuard™ meets the requirements of all current hoisting standards. Optional extra features can be added later to allow the hoist to conform to higher integrity standards. Modern design and manufacturing means the hoist is quiet, compact, lightweight and competitively priced. Available in Direct Control or Low Voltage Control with Limit Switches.

# Standard Rigging Hoists to BGV D8

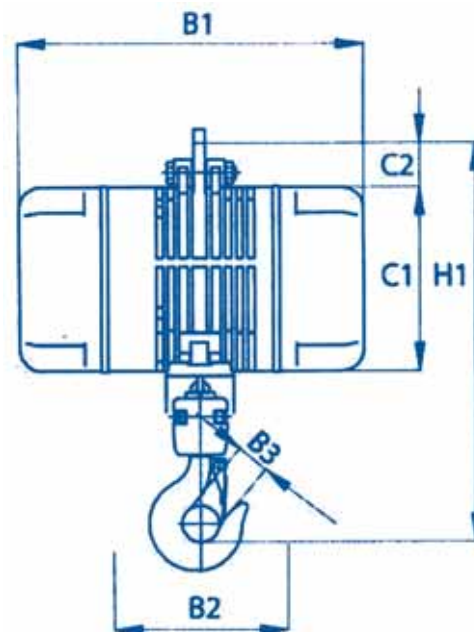
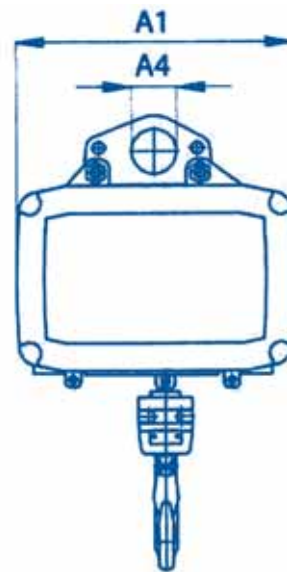
## Specification

Type	Lifting capacity (kg)	Lifting speed (m/min)	Motor power (kW)	No. of chain falls	Chain dimensions (mm)	Chain safety factor	Weight body only (kg)	Weight per metre lift (kg)
LG25/1/4	250	4	0.18	1	4 x 12.3	8.2	18	0.32
LG25/1/8	250	8	0.36	1	4 x 12.3	8.2	18	0.32
LG25/2/2	500	2	0.18	2	4 x 12.3	8.2	20.5	0.64
LG25/2/4	500	4	0.36	2	4 x 12.3	8.2	20.5	0.64
LG50/1/4	500	4	0.36	1	5 x 15.3	6.4	18.5	0.52
LG50/1/8	500	8	0.72	1	5 x 15.3	6.4	18.5	0.52
LG50/2/2	1000	2	0.36	2	5 x 15.3	6.4	21.5	1.04
LG50/2/4	1000	4	0.72	2	5 x 15.3	6.4	21.5	1.04
LG10/1/4	1000	4	0.72	1	7 x 22	6.28	42	1.04
LG10/1/8	1000	8	1.45	1	7 x 22	6.28	42	1.04
LG10/2/2	2000	2	0.72	2	7 x 22	6.28	44	2.08
LG10/2/4	2000	4	1.45	2	7 x 22	6.28	44	2.08
LG16/1/4	1600	4	1.22	1	9 x 27	6.48	58	1.75
LG16/1/8	1600	8	2.44	1	9 x 27	6.48	58	1.75
LG16/2/2	3200	2	1.22	2	9 x 27	6.48	62.5	3.5
LG16/2/4	3200	4	2.44	2	9 x 27	6.48	62.5	3.5
LG20/1/4	2000	4	1.55	1	10 x 28	6.4	58	2.25
LG20/1/8	2000	8	3.05	1	10 x 28	6.4	58	2.25
LG20/2/2	4000	2	1.55	2	10 x 28	6.4	62.5	4.5
LG20/2/4	4000	4	3.05	2	10 x 28	6.4	62.5	4.5
LG250/1/3.2	2500	3.2	1.55	1	10 x 28	5.12	58	2.25
LG250/1/6.4	2500	6.4	3.05	1	10 x 28	5.12	58	2.25
LG250/2/1.6	5000	1.6	1.55	2	10 x 28	5.12	62.5	4.5
LG250/2/3.2	5000	3.2	3.05	2	10 x 28	5.12	62.5	4.5

Faster or dual speed hoists available on request

## Dimensions (mm)

Type	A1	A4	B1	B3	C1	C2	H1 Eye Suspension	H1 Hook Suspension
LG25/1	246	40	309	22	164	53	369	431
LG25/2	246	40	309	22	164	53	408	470
LG50/1	246	40	309	22	164	53	377	439
LG50/2	246	40	309	22	164	53	417	479
LG10/1	321	52	367	32	214	69	482	553
LG10/2	321	52	367	32	214	69	556	627
LG16/1	345	75	389	37	230	135	608	643
LG16/2	345	75	389	37	230	135	690	725
LG20/1	345	75	389	37	230	135	608	643
LG20/2	345	75	389	37	230	135	690	725
LG250/1	345	75	389	37	230	135	608	608
LG250/2	345	75	389	37	230	135	690	690



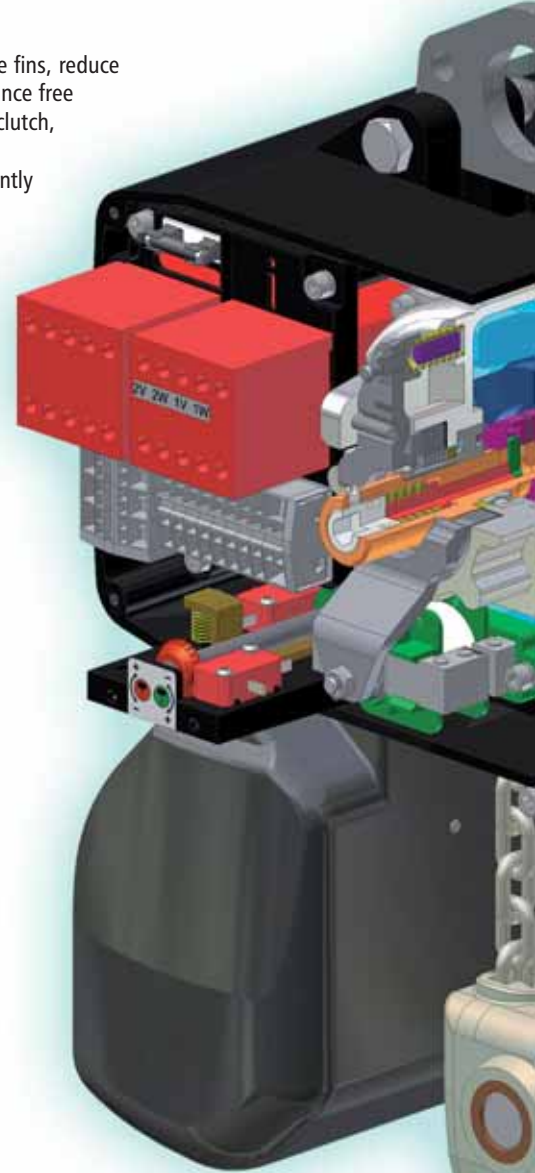


## Brake

- New advanced brake design
- Steel brake discs, guided by internal and external guidance fins, reduce brake wear and resetting requirements. Virtually maintenance free
- Maximum safety- the brake is mounted after the slipping clutch, clutch wear will not affect the integrity of the load
- Double brake assembly available; these can be independently checked for correct operation

## Contactor Control System

- Simple technology (no electronics susceptible to interference)
- Reliable construction using proven components
- Emergency stop with contactor available if required (sometimes needed in permanent installations)
- 42V control system allowing highest safety of operation, (110V or 24V available on request)



## Geared Limit Switch (standard)

- Available with 2 or 4 position limit stops
- Simple adjustment, with positioning and repeatability
- Lifting heights up to 120 m (3 drive ratios are possible)

## Transmission

- Improvements to gear designs reduce noise levels
- Helical first and second gear teeth for quieter running
- Permanent grease lubrication for wear resistant operation, no oil leaks

## Chain Wheel

- Manufactured from hardened steel
- With additional chain pockets, type 25 hoist with 6 pockets, other hoists have 5 pocket load chain wheel- quiet with improved running properties
- Double bearing support, sealed bearings available on request



## Chain Guides

- Replacement can be carried out without stripping the hoist
- 2-part construction to optimize maintenance
- Reinforced glass fibre / plastic material is highly wear resistant
- Wear plate fitted to underside of hoist to aid chain guidance and eliminate chain jamming



## Slipping clutch to prevent overloading

- Simple and precise adjustment at workshop level, no exterior adjustment
- Clutch is located in the rotor shaft, outside the drive train; clutch wear will not affect the integrity of the load
- Maintenance free and highly resistant to wear
- Clutch parts available if required - no need to buy complete assemblies
- Ease of servicing thanks to comfortable access



## Motor

- Designed for tough working conditions
- Single or 2 speeds available in a variety of speeds, normal, fast and super fast to suit your application
- Special power supplies available including some hoists for single phase power supplies
- Options- with thermal cutout device to prevent overheating and anti phase system to prevent mis-phasing



## Lifting Chain

- Calibrated especially for the hoist
- Black coated as standard or Zinc plated if required
- Surface case hardened quality class DAT (8SS) to FEM 9.671

## Housing

- Cast aluminum housing with maximum solidity
- For extreme working conditions: the body has cast cooling fins to dissipate heat caused by operation
- Easy change from 1-fall to 2-fall operation: no need to dismantle the hoist
- Latest Aluminium casting technology used- manufactured by an automotive industry supplier
- Aluminium end covers fitted- sealed to prevent water penetration

