



CM Lodestar® - BGV-C1

The Lodestar® is available with several options which meet the BGV C1 German regulations for entertainment rigging. Designed to interface with the CM ProCommander control system.

- Lifting capacities – 125, 250, 500, 1000, 1300 kg
- Speed - 2 to 16 m/min
- Power Supply - 400v, 3 ph, 50 hz
- Safety factor - 10:1
- Double brake - Double DC brake with 50 millisecond delay between first and second brake for reduced stress loading during operation and easy identification of any problems with the first brake. Designed to easily isolate brakes for individual inspection
- Limit switches - dual semi-adjustable limit switches with visible LED, to warn when emergency limits are operated. Emergency secondary limit switch operation triggers mainline contactor in controller to shut the entire system down
- Electronic underload & overload protection - fitted with integral load monitoring components to warn when a dangerous overload or slack chain situation occurs. Can be used to provide accurate real-time loading information when used in conjunction with the CM ProCommander hoist control system models Pro-FL and Pro-V
- Controls - fitted with industrial grade Mitsubishi programmable logic controller for management of all integral safety features and communication with external control devices
- Load chain - zinc plated load chain protects against corrosion
- Encoder -fitted with high resolution encoder for accurate positioning information feedback to computerised control system
- Black powder coated finish - For low visibility and durability
- Identification - auto calibration and hoist type identification when used in conjunction with the CM ProCommander hoist control system models Pro-FL and Pro-V



Specification

Lifting capacity (kg)	Model	No of chain falls	Motor power (kw)	Lift speed (m/ Min)	Hoist weight (kg)	Weight per m of chain (kg)	Full load current (amps)	FEM group
125	C1-B	1	0.19	15	26	0.9	0.9	2M
250	C1-F	1	0.37	4	29	0.9	1.1	2M
500	C1-L	1	0.75	4	52	1.3	2.3	2M
500	C1-JJ	1	1.5	16	54	1.3	4.0	2M
650	C1-LL	1	1.5	8	54	1.3	4.0	2M
1000	C1-R	2	0.75	2	55	2.6	2.3	2M
1300	C1-RR	2	1.5	2	57	2.6	4.0	2M

Other capacities available on request

CM ProCommander BGV-C1 Control System

The CM ProCommander Control Systems offer motion control of electric chain hoists for all types of rigging applications. Up to 96 motors can be controlled at the push of a button.

Available in four models, approved to the German safety regulation BGV-C1 for overhead rigging. The ProCommander is available as a basic manual control unit or a fully computerized variable speed system with built in load monitoring.

This new line of control systems was designed and manufactured in collaboration by Fulling & Partner GmbH of Germany with Mitsubishi Electric.

Model Pro-M

This basic manual controller is a cost effective and simple means of controlling BGV-C1 hoists.

- 4, 6 or 8 Channels – expandable by linking control units. 19" rack mountable central controller
- Remote operation desk with run and emergency stop buttons – supplied with 15m cable
- Monitors the hoist safety features and indicates problems

Model Pro-F

The Pro-F model is a fully computerised 8-channel hoist control system based on industrial PLC technology. The unit is capable of fixed speed operation of CM BGV-C1 Lodestar and Varistar hoists along with conventional (BGV-D8) Lodestar hoists (fitted with encoders and using appropriate adapters).

- 8 channel standard – expandable by linking control units with master and slave architecture. 19" rack mountable controller
- Programmable – standard graphical monochrome touch screen remote handset with 145mm screen, connected with a 15m cable. (Longer cable and colour remote handset available)
- Personal computer – only for visualisation and programming. Controller performs all processing operations with remote handset show control
- Hoist position accuracy of +/- 1mm
- Mains input – 32A cee-form connection. Output to Hoist – 24 pin Harting connection

Model Pro-FL

Based on the Model Pro-F controller, the Pro-FL provides full load monitoring feedback to the PC and remote when connected to compatible load-sensing devices. All BGV-C1 Lodestar and Varistar hoists have a built in load sensor which can be fitted to standard hoists as an option.

Model Pro-V

The Pro-V system is able to provide variable speed operation from appropriately configured hoists.

- Speeds – selectable from 5 to 100 Hz. Speed setting can be adjusted by using graphical touch screen or optional PC
- 8 channel standard – expandable by linking control units with master and slave architecture
- Programmable – standard graphical monochrome touch screen remote handset with 145mm screen, connected to rack with a 15m cable. (Longer cable and colour remote handset available)
- PC – Only for visualisation and programming. The controller performs all processing operations with remote handset show control



Pro-M



Pro-F



Pro-FL



Pro-V