

Up and Away

Construction Hoists Fitted with easy and MFD-Titan

Their dimensions and payloads alone make construction hoists impressive structures to people all over the world. These kinds of lift systems transport loads and/or people during the construction phase and are installed on high-rise buildings. Special construction hoists from the Westphalian company Steinweg-Böcker-Baumaschinen have been used for years on a wide range of building sites. The lists range from small construction winches to the large construction hoist. Steinweg-Böcker offers special service lifts for continuous operation in industrial plants with different cabin sizes and maximum lifting heights of 300 m. Böcker's Superlift MX uses robust and reliable Moeller technology.



Böcker construction hoists stand out for their high quality materials and first class workmanship. Thanks to their high performance capability they are suitable for demanding building projects and are designed for lifting heights up to 300 m as well as maximum payloads of up to 3.2 t. Construction hoists, especially those that transport people as well as materials, have to fulfil the highest safety standards.

DIN EN 12158-1 Annex D stipulates that the erection, dismantling and maintenance of a builders hoist must only

be carried out by specialist and authorised persons. Even the loading and unloading must only be carried out by specially instructed persons, and this also applies to the lift commands. On builders hoists for transporting persons, authorised persons on the building site who are not specially instructed can carry out loading and unloading activities as well as lift commands. The standards differentiate between three types of builders hoists according to their use. Firstly, builders hoists for the transport of persons and goods (DIN EN 12159), secondly, builders hoists for goods with an accessible platform (DIN EN 12158-1),





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INFO

 **The Company:** www.boecker-group.com

 **Products:** easy control relay
MFD multi-function display
DIL contactors
Miniature circuit-breakers

 **Quicklink ID: MS1909** [www.moeller.net]

Böcker AG has been one of the leading manufacturers in the crane and lift technology sector for over 50 years. The global company, with its headquarters in Werne, North Rhine-Westphalia, has around 320 employees, with branches in France, Belgium, the Netherlands and Switzerland. The product range is divided into six business units. The most important products include mast

cable winches and rack and pinion hoists with lifting heights up to 400 m and up to 3.2 t payloads, in addition to aluminium cranes that can be mounted on a truck or trailers and lift a payload of up to 6t. Böcker has also been successful in the field of wall and grab technology.

and thirdly builders hoists with non-accessible load carrying (inclined hoists) (DIN EN 12158-2). Various safety requirements have to be fulfilled due to the different hazards possible.

The Steinweg-Böcker Superlift MX offers tailored, flexible solutions for transporting both goods and persons. Loads from 650 to 2000 kg or 12 persons can be lifted at a speed of 24 to 40m/min to a height of up to 200 m. Systems are available as either single or dual mast systems. The work platform can have lengths between 1.70 m and 5.10 m and widths between 1.40 m and 4.50 m. The MX construction hoist can be requested at any time from the individual loading points and works in automatic, outside or inside operation.

Steinweg-Böcker customers appreciate the high quality, reliability and operational safety of the construction hoists and industrial lifts. For the same reasons and on account of its outstanding price/performance ratio, the Westphalian company used Moeller technology for its MX and LX goods transport platforms. The MX Superlift uses contactors, control circuit devices, safety relays, easy control relays and MFD multi-function displays. The easy / MFD-Titan series provides the optimum basis for the control technology, enabling, for example, programs to be created simply and used flexibly. MFD-Titan also combines control and visualization functions in one device. A menu-driven operator interface supports intuitive operation and prevents errors.

The ruggedly designed MFD-Titan series with protection to IP65 (front), and a wide operating temperature range from -25° C to +55° C provides the optimum basis for mobile and/or outdoor applications – a critical requirement for Böcker. The devices are used by Böcker as stand-alone units. The easy and MFD devices are connected via easy200 Link. EASY 719-AC-RCX with the EASY 618-AC-RE expansion are responsible for the control of the machine. The local expansion can be operated remotely if required at a distance of up to 30 meters. Operating states and diagnostics messages are displayed on the MFD-80 with MFD-AC-CP4-500.

easy control relays monitor all end position switches continually. In this way, open swing gates can be detected immediately and indicated in plain text and as error codes on the display. This enables any relevant malfunctions to be localised and rectified quickly. Operating errors are also indicated on the display. These measures allow the user optimum utilisation of the construction hoist and ensure economical operation at the same time.

MFD-Titan is available in up to 13 languages (German, English, French, Spanish, Italian, Polish, Czech, Rumanian, Hungarian, Russian, Bulgarian, Dutch, Portuguese) for international use.

Multilingual

The MFD-Titan multi-function display provides information in plain text and in 13 languages.



The languages can also be selected during operation. When the program is loaded, the user selects which language group of four languages each are to be assigned to the MFD-Titan. German and English are obligatory in every language package.

CONCLUSION

Dipl. Ing. (FH), Meinolf Pflug, head of lift electrical engineering at Böcker: "Building machine environments are characterised by harsh ambient conditions. The easy control relay has enjoyed proven use already in more than 20 of our construction hoists. The compact controller can withstand hard knocks, intensive vibrations and temperatures between -10C° and + 45C°. We can transfer programs by simply fitting a memory card, thus giving us a high level of flexibility for adapting individual machine functions to customer requirements on site. The rugged system bus technology also allows us to offer our customers an optional diagnostics system that can be fitted without any problem at a later time. This uses an MFD-Titan and an easy expansion module. Thanks to easy products our Superlift MX has been able to win a high level of customer satisfaction."