



500 kg

MEDIUM FRAME

FIXED SPEED

+ A SAFE, RELIABLE AND MADE IN ITALY
CHAIN HOIST



MAIN FEATURES

- LVC control, works from 12V to 110V
- Local Manual Control with color led switches
- Remote Manual Control
- Remote Position Control
- Automatic Phase Sequence Correction.
- Multiple E-stop buttons
- Hoist presence and hard limit sensing, with global stop function
- Channels expandable with EtherCat slave
- Up to 24 hoists in standalone or remote mode
- Up to 100 Master Units can be linked using PC control over ethernet (up to 2400 hoists channels)
- Color Graphic Displays for detailed informations, including limits, position, load, direction, target position, hoist pesence for each channel
- Optional 24 Channel handheld Remote Controller
- Optional Position Feedback Control and error log on Hoists equipped with BlackBox electronics and connected via Black-boxNode

EXEQ 500kg // Medium Frame

→ available also for the 1000kg // **Large Frame**

The **EXEQ** is an expandable intelligent LVC chain hoist controller with multiple control possibilities

SPECIFICATIONS

Power supply:	3phase + neutral + earth, 400V phase-phase, 50-60Hz (phase sequence controlled automatic) Mains connector: 5pin 32A Ceeform plug (IEC60309) with 80cm cable
Controls and indicators:	- Key switch to select main operation mode - Dual color LED illuminated direction switches for each channels - LED illuminated buttons for <ul style="list-style-type: none">- E-stops- Go- Error reset- safety reset -32A Class D Main Circuit Breakers are easily accessible from front panel
Displays:	- 2pcs 3,2" high resolution color LCD on front panel - 1pc 3,2" high resolution monochrome OLED display on BlackBox Node - 1pc 7" high resolution color LCD on handheld remote
Back plate connectors on master unit:	- 2x Harting 16 female for hoists power - 2x Harting 16 male for hoists LVC control - 2x Ethercon Type D for Ethernet (switched) - 1x Ethercon Type D for EtherCat for slave units - 1x Neutrik NC10FDL for handheld remote - 1x NC6FDL for hoist communication (Blackbox node) - 1x 13p syntax for external E-stop button - Wired mains connector 5pin 32A Ceeform plug
Backplate connectors on slave units:	- 2x Harting 16 female for hoists power - 2x Harting 16 male for hoists LVC control - 2x Ethercon Type D for EtherCat in/out for slave units - 1x NC6FDL for hoist communication (Blackbox node) - 1x 13p syntax for external E-stop button - wired mains connector 5pin 32A Ceeform plug
Enclosure:	-1,5mm steel, matte black powdered coat finish

Environmental:	- IP30 - 0-55°C (32-131 °F)
Cooling:	Natural passive air cooling
Dimensions:	-420mmx264mmx451mm (W/H/D) excluding fitting, controls and cables
Blackbox node connectors:	-8x NC6FDL for hoists with Blackbox -1x NC6MDL for EXE Q unit
Hoist with Blackbox connectors:	-1x 2p+earth or 3p+earth LVC Ceeform -1x 3p + earth Ceeform 16A -1x NC6MXX for communication with Blackbox node

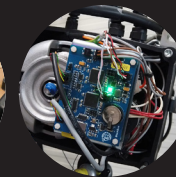
SAFETY FEATURES

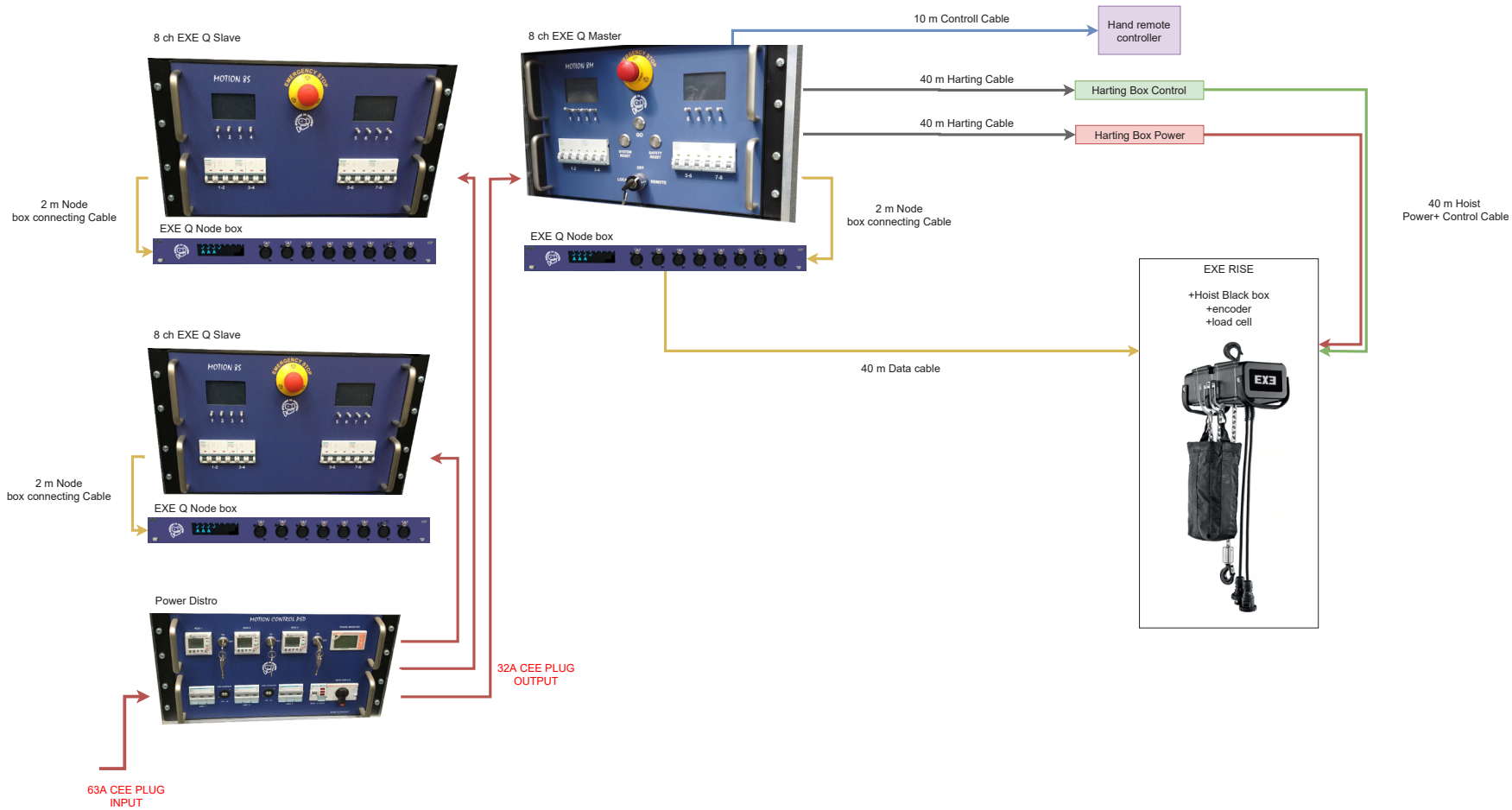
- Checks if all Hoists which are selected for movement are present. (works without blackbox system as well)
- Global stop, if one of the Hoists are reaching its hard limit (works without blackbox system as well)
- Sensing hard limits while hoists are not powered
- If any of the hoists are in hard limit of its selected direction , the backlight of the GO LED turns off, and the user cant start the hoists. (works without blackbox system as well)
- Redundant E-stop system, with buttons on the front panel, and on the remote control. Optional extra wired E-stop button.
- If the system detects any error, then it will be displayed for the user

EXE Q 500kg



EXE Q 1000kg





BLACKBOX ELECTRONICS

- Rs422 communication
- Designed for EXE Q hoists with sensors and incremental encoder
- Creates separate full and error log file to excel compatible format, which can be read with separate tool
- Monitors the following parameters: persistent position, LVC control state, motor winding temperature, motor overheat, moving direction, load, overload, calendar with real time clock(runs even on power loss), hoist id, hoist parameters
- Data streamed to controller with crc error checking

BLACKBOX NODE

- Parallel receiving data stream from 8 Blackbox equipped hoists
- OLED display on front panel for basic information such as hoist presence, moving direction overheating, and overload
- Blackboxes extends the EXE Q controller functions with PC control sending hoists to exact positions, software defined position and under/overload limits, motor winding temperature monitoring, create and run programmed movements (Cues)