



CHAIN HOIST FLEXA SENSORS
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SAFE • PRECISE • CERTIFIED



The brand name EXE® identifies a range of products designed for the entertainment & exhibition markets, offering a range of equipment engineered to safely maneuver stage equipment, scenery, video walls & other related structures before, during and after your performance.



Managing increasingly complex events led us to imagine a world where our most advanced series and third-party products interact with each other. It's a unique and ambitious project that we called **ONE FOR ALL**; it's the open source system capable of interaction with third-party producers. A decisive step forward for the interaction of various technologies within the same event.

ALL FOR ONE is designed as a fully integrated system including 'smart' hoists and intelligent sensors, offering plug and play devices. It is the integration between equipment designed to operate as a 'single' stage machine.



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ONE FOR ALL SOLUTIONS



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EXE TECHNOLOGY

MILESTONES



DST40



LC-PRO CONFIGURATION



VARIABLE SPEED

EXE
RISE

EXE
DRIVE

EXE
RISE

EXE
DST

2013

2014

2014

2015

2016

2017

2018

SMALL AND LARGE FRAME



EXE
DST

DL & DB PRODUCTS



EXE
CELL



MEDIUM FRAME



EXE
VARIO

DST52
DST66

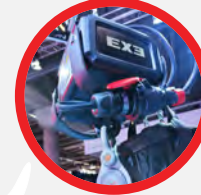




EXTRA LARGE FRAME



MEDIUM FRAME COMPACT



MEDIUM FRAME
ULTRA COMPACT

EX3 DRIVE



EX3 FLEXA

2019

2020

2021

2022

2023

2024

EX3 RISE

WIRELESS CONTROLLER



EX3 RISE

ONE FOR ALL - ALL FOR ONE SOLUTIONS



EX3 RISE

EXE FLEXA LOAD CELLS



CHAIN HOIST CLASSIFICATIONS

D8

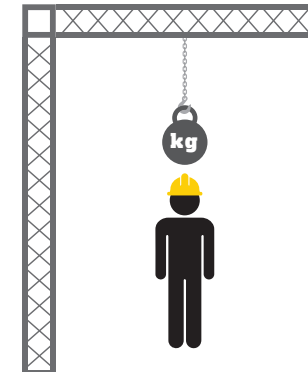
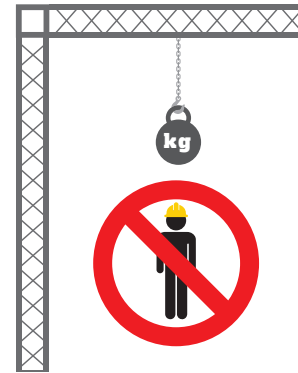
D8

with secondary safety equipment

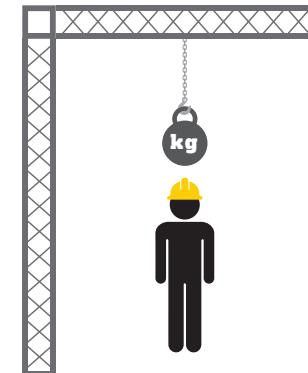
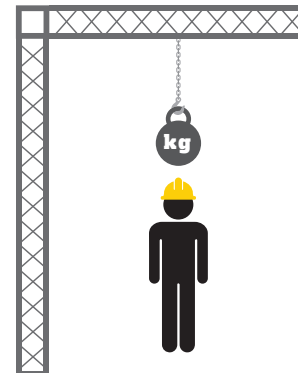
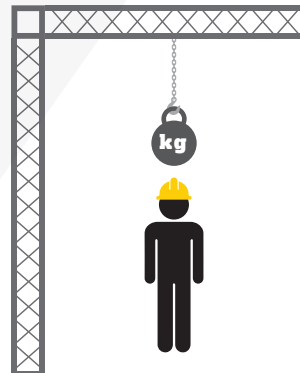
D8 Plus

C1

ASSEMBLY AND DISASSEMBLY



LOAD HOLDING



CHAIN HOIST

MECHANICAL CLASSIFICATIONS

VERTICAL MOVEMENTS

ISO 4301	FEM 9.511	DUTY FACTOR OF MOTOR	MINUTES PER HOUR <i>Uniformly Distributed Work Period</i>	STARTS PER HOUR	HOUR PER DAY	HOUR / 10 YEARS BEARING TIME
M1	1Dm	15%	9	90	≤ 0,25	400
M2	1Cm	20%	12	120	≤ 0,5	800
M3	1Bm	25%	15	150	≤ 1	1600
M4	1Am	30%	18	180	≤ 2	3200
M5	2m	40%	24	240	≤ 4	6300
M6	3m	50%	30	300	≤ 8	12500

RATE OF LOADING	Average time of supposed daily operation T_m (hour)	ISO FEM	to 0.25	from 0.25 to 0.5	from 0.5 to 1	from 1 to 2	from 2 to 4	from 4 to 8	from 8 to 16
			to 400	to 800	to 1600	to 3200	to 6300	to 12500	to 25000
LIGHT	When normally working with approx.. 1/3 of W.L.L. and rarely with W.L.L.	ISO FEM	--	M1 1Dm	M2 1Cm	M3 1Bm	M4 1Am	M5 2m	M6 3m
MEDIUM	When normally working with approx.. 1/3 to 2/3 of W.L.L. and sometime W.L.L.	ISO FEM	M1 1Dm	M2 1Cm	M3 1Bm	M4 1Am	M5 2m	M6 3m	M7 4m
HEAVY	When normally working with approx.. to 2/3 of W.L.L. and often with W.L.L.	ISO FEM	M2 1Cm	M3 1Bm	M4 1Am	M5 2m	M6 3m	M7 4m	M8 5m
VERY HEAVY	When normally working with W.L.L. or near W.L.L.	ISO FEM	M3 1Bm	M4 1Am	M5 2m	M6 3m	M7 4m	M8 5m	--

CHAIN HOIST

FEATURES



MOTOR UP OR MOTOR DOWN

EXE chain hoists can be used motor up (standard suspension) or motor down (self-climbing) without any adjustments. Swiveling chain and suspension hooks reduce the risk of chain twist and optimizes positioning.



BODY

The hoist body is machined from cast aluminium to be light yet strong. The matte black finish is corrosion-resistant and non-reflective.



CHAIN-BAG BRACKET

The chain bag bracket allows the hoist to be used motor up or motor down without adjustment. The design ensures the bag is positioned correctly to smoothly feed chain, reducing the chance of chain spills.



EXTERNAL CHAIN GUIDE

This sacrificial plate helps protect both the chain and internal chain guides. It is made from a special PVC to minimize the chance of chain jamming in the event twisting. Extra large body hoists are equipped with a steel guide plate.



CHAIN

Chain is a DAT type, RTS chain made of galvanized alloy steel grade 80 and complies with the standard DIN EN 818-7. Available in BLACK colour with T grade and DAT type. The quality is RTS and is available in either zinc galvanized or black phosphated finish.



DOUBLE BRAKE & SINGLE BRAKE

Double Brake: EXE Rise are supplied with double brake standard. The brakes are supplied as complete units which allows for trouble free use and quick and easy inspection.
Single Brake: EXE Ace are supplied with single brake standard.



IRON AND ASBESTOS-FREE BRAKE

Iron and asbestos-free brake shoes and stainless steel brake discs will not rust in the presence of moisture, preventing brake assemblies from seizing.



CLUTCH

The clutch is located outside the load path, between the motor shaft in front of the gearing and brake assembly. The brakes will hold the load in the unlikely event of a clutch failure.



GEAR BOX

The gear box is manufactured with a thicker aluminum wall, compared to the rest of the body, to meet the heavy-duty mechanical demands.



BEARING GREASE

Bearing grease is used in the gearboxes of medium and large frame hoists and oil is used in the extra large frame gearbox. They are high load lubricants designed for protection of plain bearings and sliding gear surfaces in extreme environments, particularly under heavily loaded conditions.

CHAIN HOIST FEATURES



HANDLES

EXE chain hoists feature handles that rotate in both directions, enabling easy manipulation of the hoist in any orientation.



LOAD WHEEL

All EXE chain hoists have load wheels with 5 pockets; this ensures compliance with European standards and delivers a smooth, quiet movement. Load wheels are heat treated.



LOW OPERATIONAL NOISE

At just 67.5 dB the EXE chain hoist lets you handle the quietest jobs with ease.



HERTZ / VOLT

EXE chain hoists for the North American market have motor stators wound for 208VAC-3PH-60Hz. On request, any model can be provided with European power and control supply 230/400VAC-3PH-50Hz or other configurations to suit your needs.



EXE

ACE

01

EXE ACE D8

A NEW ERA OF CHAIN HOISTS PUT AN ACE IN YOUR HANDS







EXE Ace collection is for you if you're looking for a cost effective solution for one-off events or for installations, whether lasting a day or months. Since these types of events don't require constant starts and stops day after day from the hoist, the **EXE Ace** has been designed for a lower duty cycle.

While **EXE Ace** hoists comply with D8 requirements, 5-to-1 safety factor with a single brake, though a secondary brake can be added for **EXE Ace** factory orders.

EXE Ace hoists can be configured for your country's available 3-phase power supply and for either direct, or low-voltage control.

These hoists can be paired with your preferred control system, and can have electrical connectors installed to your specification.

Overview

		MEDIUM FRAME COMPACT		MEDIUM FRAME	
		500kg		1000kg	
DIRECT CONTROL					
	LOW VOLTAGE CONTROL				
2 FALL	DC / LVC	DOUBLE REEVE PULLEY			
					
		2x WLL			

EXE
ACE

▲ D8 **500kg**

MEDIUM FRAME COMPACT

CHAIN HOIST



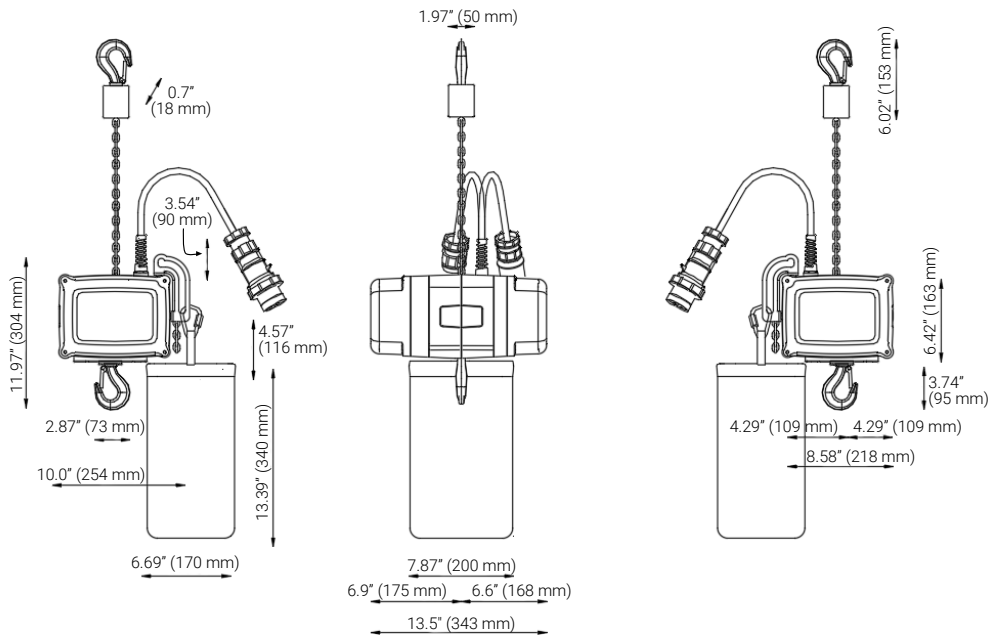
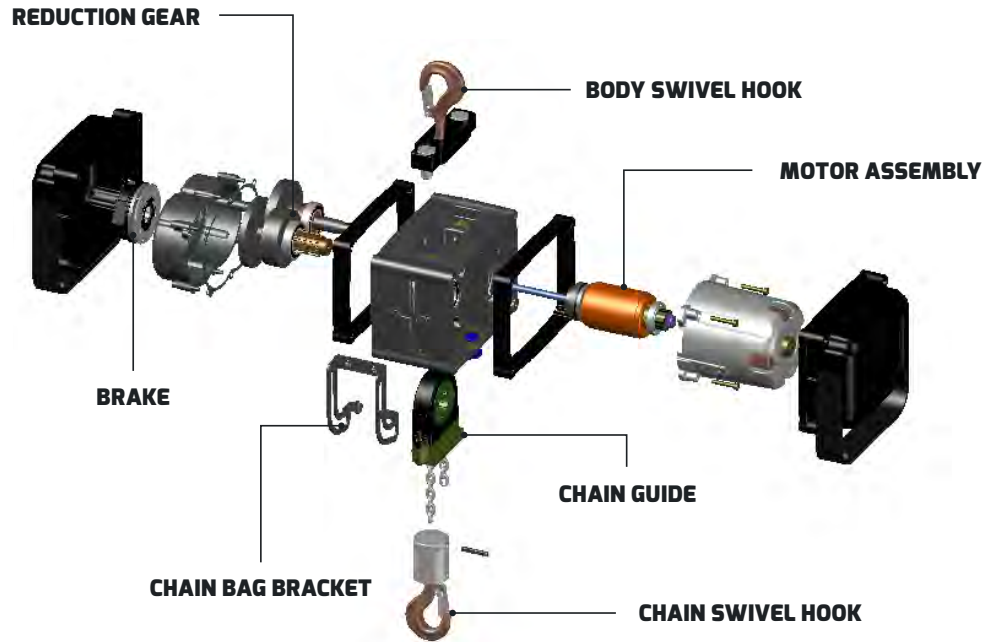
GENERAL FEATURES

MODEL	EXE Ace chain hoist D8 500 kg DC / LVC
TYPE OF CONTROL	Low Voltage
FEM CLASS	1Bm
DUTY FACTOR	25%
START PER HOUR	150
BEARING TIME / 10 YEARS	1600 h
FALLS OF CHAIN	1
TYPE OF CHAIN	DIN EN 818-7 - type DAT steel 80 grade Zinc galvanized or black phosphated
SIZE OF CHAIN	5x15 mm / Approx. 0.2 x 0.6 in.
CHAIN SELF-WEIGHT	0.54 kg/m / 0.36 lb/ft.
SAFETY FACTOR	5:1
IP RATING	55
INSULATION CLASS (TEMPERATURE CLASS)	F according to CEI 15-26
LOAD WHEEL	5 pockets
NOISE LEVEL	67.5 dB @ full load
CONNECTION CABLE LENGTH	30 in. standard (other lengths upon request)

The **EXE Ace D8 500kg Medium Frame Compact chain hoist** is incredibly practical and versatile: able to be used motor up or motor down and can be equipped with either swivel or fixed hooks. The clutch is located outside of the load path, between the motor shaft and the gearing and brakes.

EXE ACE D8 500kg

MEDIUM FRAME COMPACT



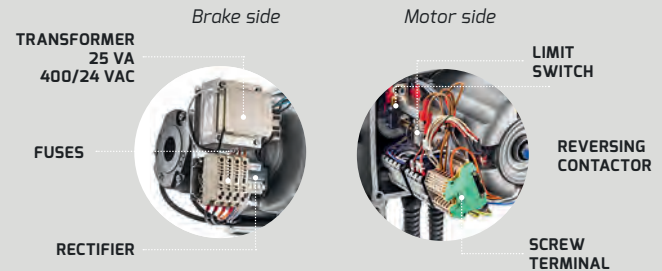
DC model has one cable and brake side ring absent

DIRECT CONTROL

WORKING LOAD LIMIT	500 kg / ½ Tonne / 1102 lbs.
FREQUENCY	50 Hz / 60 Hz
LIFTING SPEED	4 m/min @ 50Hz / 16 ft./min @ 60 Hz
MOTOR POWER	0.5 kW / 0.67 HP
POWER SUPPLY Δ	208 VAC - 3 - 60 Hz
RATED CURRENT	Δ 2.94 A @ 208 VAC
ELECTRICAL CONNECTORS	Per customer specification
MOTOR RPM	1680 @ 60 Hz
NUMBER OF BRAKES	1 (double-braked units available upon request)
DC BRAKE OPERATING VOLTAGE	103 VDC
DC BRAKE RATED TORQUE	4 Nm / 35.4 in.-lb.
DC BRAKE NORMAL AIR	0.2 mm - 0.3 mm / 0.008-0.011 in.
LIMIT SWITCH	2 Position adjustable internal, 25 m/82 ft. travel without extended limit.
ENCODER	Incremental or absolute upon request
HOIST SELF-WEIGHT	23 kg / 50 lbs.

LOW VOLTAGE CONTROL

CONTROL CONNECTOR	Per customer specification
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FOR OTHER OPERATING VOLTAGES & FREQUENCIES CONTACT
TOMCAT USA/ AREA FOUR INDUSTRIES DIRECT AMERICA

EXE
ACE

▲ D8 D8 **1000kg**

MEDIUM FRAME

CHAIN HOIST



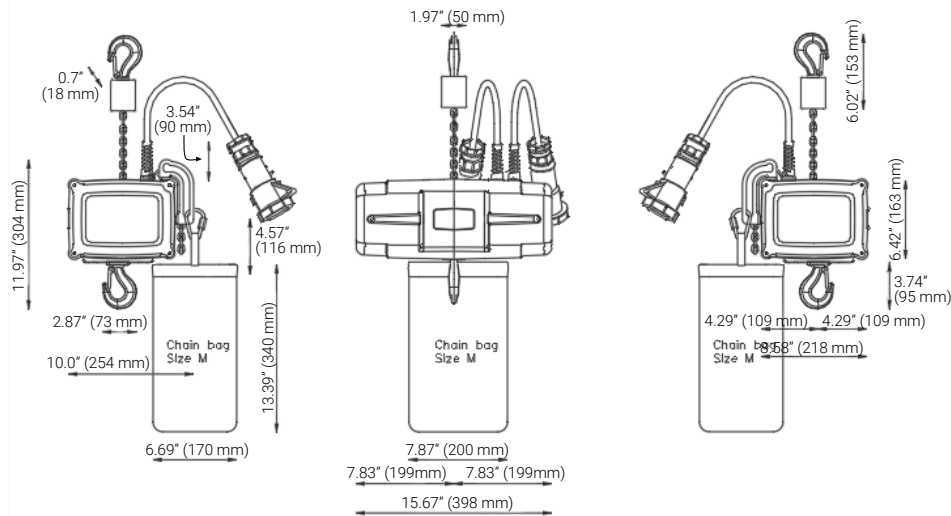
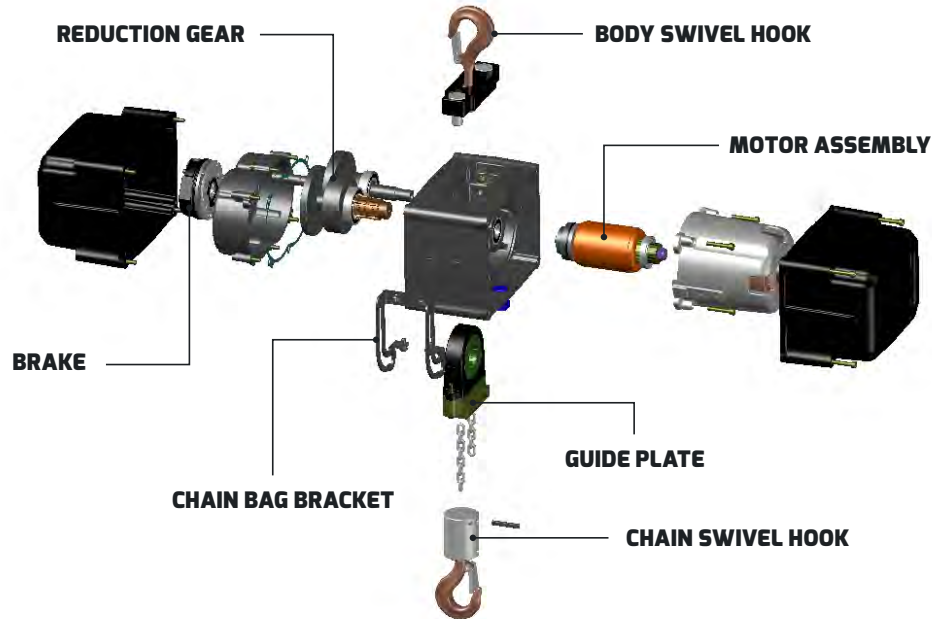
GENERAL FEATURES

MODEL	EXE ACE Chain Hoist D8 1000 kg LVC
TYPE OF CONTROL	Low Voltage
FEM CLASS	1Bm
DUTY FACTOR	25%
START PER HOUR	150
BEARING TIME / 10 YEARS	1600 h
FALLS OF CHAIN	1
TYPE OF CHAIN	DIN EN 818-7 - type DAT steel 80 grade Zinc galvanized or black phosphate
SIZE OF CHAIN	6.3x19 mm / approx. 0.25x0.75 in.
CHAIN SELF-WEIGHT	0.86 kg/m / 0.58 lb/ft.
SAFETY FACTOR	5:1
IP RATING	55
INSULATION CLASS (TEMPERATURE CLASS)	F according to CEI 15-26
LOAD WHEEL	5 pockets
NOISE LEVEL	67.5 dB @ full load
CABLE LENGTH	30 in. standard (other lengths upon request)

The **EXE Ace D8 1000kg Medium Frame chain hoist** is extremely compact due to the innovative body carefully designed to reduce size and weight. Handling and lifting of the chain hoist is facilitated by handles that work in either "Motor Up" or "Motor Down" orientations, which, combined with its swivel or fixed-hook feature, increase practicality and versatility. The clutch is located on the motor shaft, in front of the motor assembly, which positions it outside of the load path.

EXE ACE D8 1000kg

MEDIUM FRAME



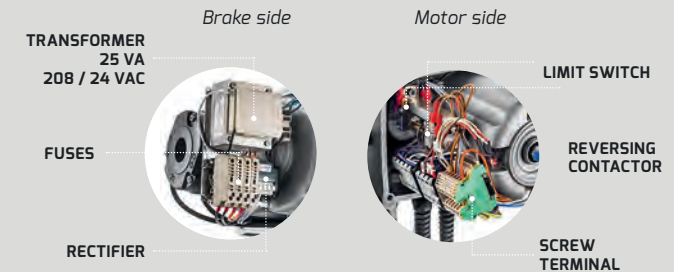
DC model has one cable

DIRECT CONTROL

WORKING LOAD LIMIT	1000 kg / 1 Tonne / 2204 lbs.
FREQUENCY	50 Hz / 60 Hz
LIFTING SPEED	4 m/min @ 50 Hz / 16 ft/min @ 60 Hz
MOTOR POWER	1.0 kW / 1.34 HP
OPERATING VOLTAGE Δ/Y	208 VAC - 3 - 60 Hz
3PH CURRENT	Δ 4.62 A @ 208 VAC
ELECTRICAL CONNECTORS	Per customer specification
REVOLUTIONS PER MINUTE	1680 @ 60 Hz
NUMBER OF BRAKES	1 (Units available upon request)
DC BRAKE OPERATING VOLTAGE	103 VDC
DC BRAKE RATED TORQUE	8 Nm / 70.8 in-lb.
DC BRAKE GAP (SL)	0.2 mm - 0.3 mm / 0.008 - 0.011 in
LIMIT SWITCH	2 position adjustable internal, 30 m / 98 ft. travel without extended limit
ENCODER	On request
HOIST SELF-WEIGHT	25 kg / 55 lbs.

LOW VOLTAGE CONTROL

CONTROL CONNECTOR	Per customer specification
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FOR OTHER OPERATING VOLTAGES & FREQUENCIES CONTACT
TOMCAT USA/ AREA FOUR INDUSTRIES DIRECT AMERICA



EXE
RISE



02

EXE RISE D8+ CHAIN HOIST FIXED SPEED, PERFORMANCE ORIENTED, MADE IN ITALY

Fixed speed D8+ EXE Rise chain hoists have been specifically designed to satisfy the demanding needs and requests of the entertainment and touring market. Years of research and development have contributed to an extremely performance-oriented, precise and safe range of hoists, earning us a customer stamp of approval all over the world.

The electrical-mechanical features and high quality components of the hoist body are made in Italy, making EXE Rise chain hoists unique and unmatched on the international market.

Our chain hoists possess corrosion resistant aluminium alloy frames, non-reflective matte finish, a 5-pocket load wheel, complete double-brake units, and a clutch positioned outside of the load path. High quality D-A-T, case hardened steel chain either zinc plated, or black phosphated. Alloy steel swivel hooks with spring-loaded latches and the working load limit are boldly marked at the chain hook.

All EXE Rise chain hoists are D8 plus with a safety factor of 8-to-1 and can be ordered with either direct or low voltage control. They are compatible with all industry-trusted manufacturers of motor controls systems including: Motion Labs, Skjonberg, and Kinesys. The ability to equip EXE chain hoists with an encoder/s, limit switches, and load cell, allow EXE chain hoists to meet all of our customers' needs.

Overview

EXE RISE D8+ FIXED SPEED CHAIN HOISTS

1 FALL

DIRECT CONTROL

MEDIUM FRAME

LARGE FRAME
1 REEVE

RISE 2T
DOUBLE REEVE

500kg

1000kg

2000kg



LOW VOLTAGE CONTROL



2 FALL

DC / LVC

DOUBLE REEVE PULLEY



2x WLL

EXE
RISE

□ **D8+ 500kg**

MEDIUM FRAME

CHAIN HOIST



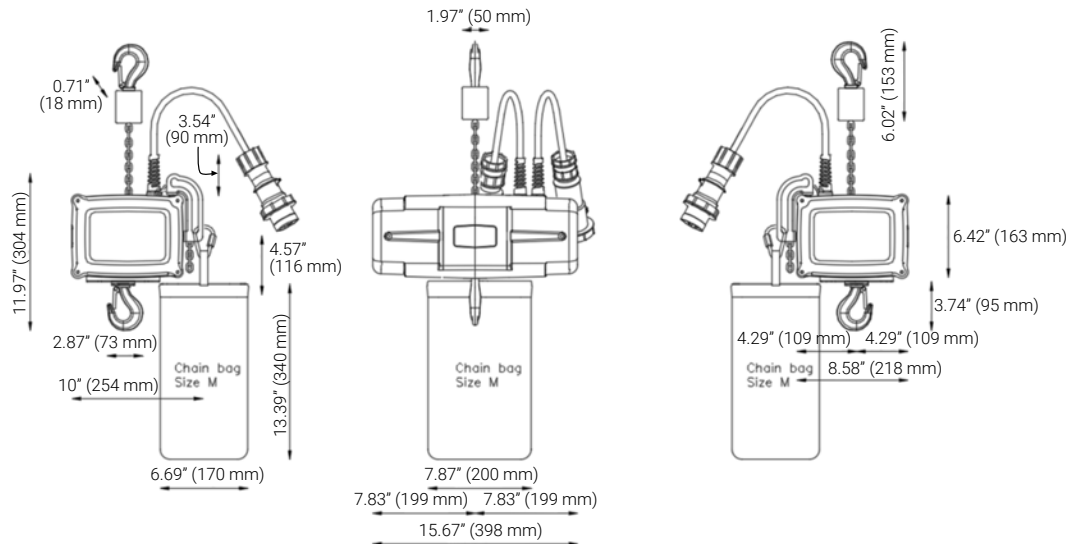
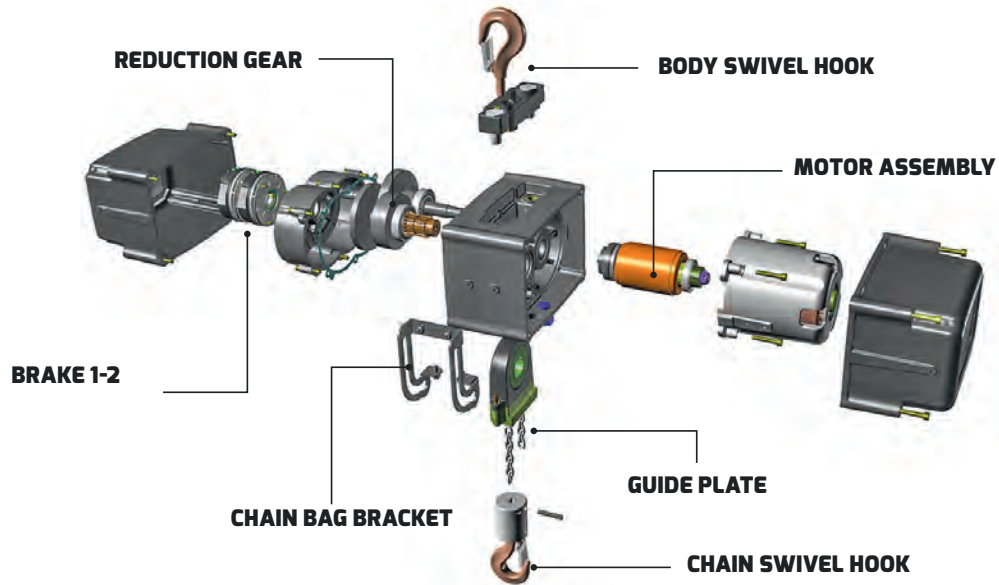
GENERAL FEATURES

MODEL	EXE Rise chain hoist D8+ 500 kg
TYPE OF CONTROL	Low Voltage
FEM CLASS	2m
DUTY FACTOR	40%
START PER HOUR	240
BEARING TIME / 10 YEARS	6300h
FALLS OF CHAIN	1
TYPE OF CHAIN	DIN EN 818-7 - type DAT steel 80 grade Zinc galvanized or black phosphated
SIZE OF CHAIN	6x18 mm / approx 0.24x0.71 in.
CHAIN SELF-WEIGHT	0.78 kg/m / 0.52 lb/ft.
SAFETY FACTOR	8:1
IP RATING	55
INSULATION CLASS (TEMPERATURE CLASS)	F according to CEI 15-26
LOAD WHEEL	5 pockets
NOISE LEVEL	67.5 dB @ full load
CONNECTION CABLE LENGTH	30 in standard (others available upon request)

The **EXE Rise D8+ 500kg Medium Frame chain hoist** is made from extremely light cast aluminum. It is small, but mighty with a self-weight of only 24kg. That's a lifting power of 20 times its self-weight making it ideal for soundstages, nightclubs, exhibition halls, concert halls, amphitheatres and other outdoor venues

EXE RISE D8+ 500kg

MEDIUM FRAME



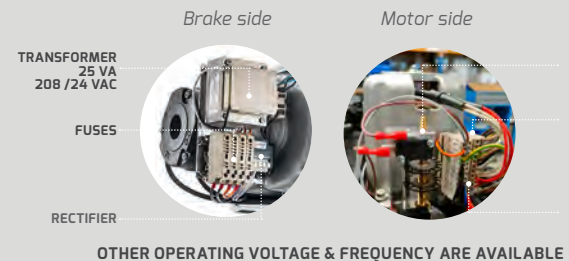
DC model has only one cable.

DIRECT CONTROL

WORKING LOAD LIMIT	500 kg / ½ Tonne / 1102 lbs.
FREQUENCY	50 Hz / 60 Hz
LIFTING SPEED	4 m/min @ 50 Hz / 16 ft/min @ 60 Hz
MOTOR POWER	0.8 kW / 1.07 HP
POWER SUPPLY Δ	208 VAC - 3- 60- Hz
RATED CURRENT	Δ 3.93 A @ 208 VAC
ELECTRICAL CONNECTORS	Per customer specification
MOTOR RPM	1680 @ 60 Hz
NUMBER OF BRAKES	2 Standard (single braked units available upon request)
DC BRAKE OPERATING VOLTAGE	103 VDC
DC BRAKE RATED TORQUE	4 Nm / 35.4 in-lb.
DC BRAKE GAP (SL)	0.2 - 0.3 mm / 0.00 8- 0.011 in
LIMIT SWITCH	2 position adjustable internal, 30 m / 98 ft. travel without extended limit
ENCODER	Incremental or absolute upon request
HOIST SELF-WEIGHT	24 kg / 53 lbs.

LOW VOLTAGE CONTROL

CONTROL CONNECTOR	Per customer specification
LIMIT SWITCH	2 positions standard, 4 upon request



EXE
RISE

□ **D8+ 1000kg**

LARGE FRAME

CHAIN HOIST

EXE
RISE 1000kg
D8 Plus



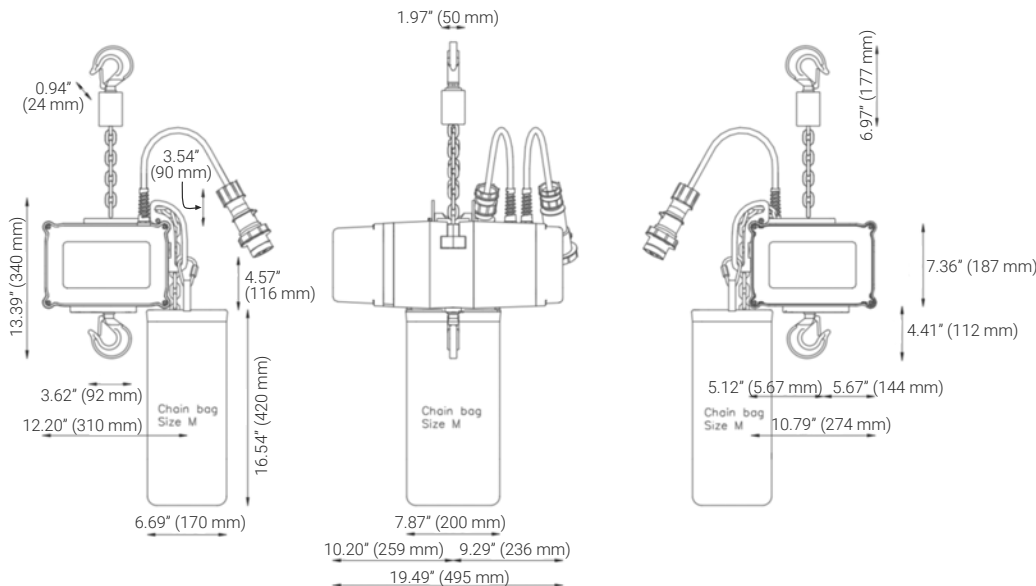
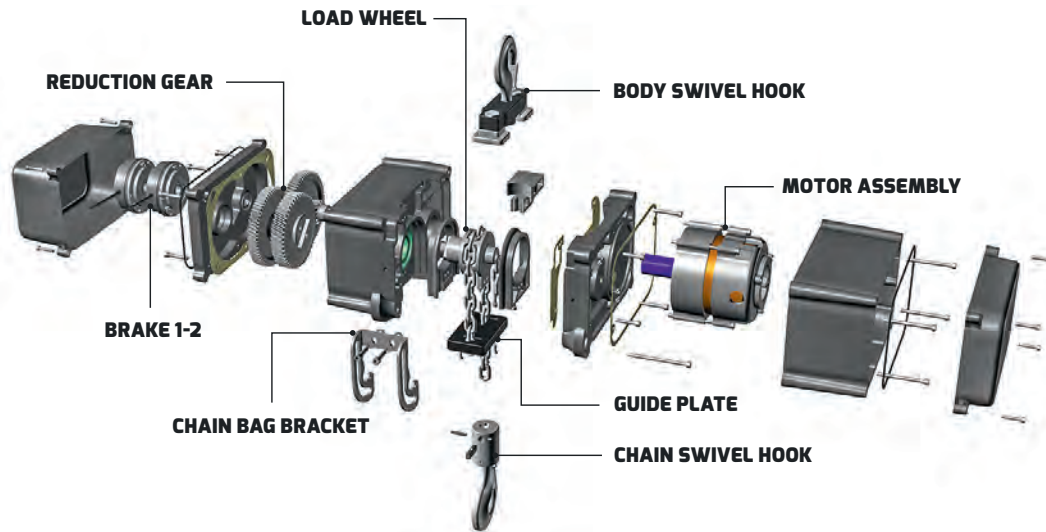
GENERAL FEATURES

MODEL	EXE Rise chain hoist D8+ 1000 kg
TYPE OF CONTROL	Low Voltage
FEM CLASS	2m
DUTY FACTOR	40%
START PER HOUR	240
BEARING TIME / 10 YEARS	6300h
FALLS OF CHAIN	1
TYPE OF CHAIN	DIN EN 818-7 - type DAT steel 80 grade Zinc galvanized or black phosphated
SIZE OF CHAIN	8x24 mm / approx. 0.31 x 0.94 in
CHAIN SELF-WEIGHT	1.39 kg/m / 0.93 lb/ft.
SAFETY FACTOR	8:1
IP RATING	55
INSULATION CLASS (TEMPERATURE CLASS)	F according to CEI 15-26
LOAD WHEEL	5 pockets
NOISE LEVEL	67.5 dB @ full load
CONNECTION CABLE LENGTH	30 in standard (others available upon request)

The **EXE Rise D8+ 1000kg Large Frame chain hoist** is a single fall hoist made by gravity casting and is durably designed for a heavy duty life cycle. This hoist is everlasting with proper care and maintenance, which makes it ideal for the rugged life on-tour. It is a fantastic option for heavier grid systems often seen in festivals, outdoor venues, arenas, and film sets.

EXE RISE D8+ 1000kg

LARGE FRAME



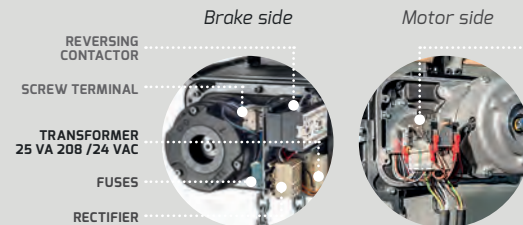
DC model has only one cable.

DIRECT CONTROL

WORKING LOAD LIMIT	1000 kg / 1 Tonne / 2204 lbs.
FREQUENCY	50 Hz / 60 Hz
LIFTING SPEED	4 m/min @ 50 Hz / 16 ft./min @ 60 Hz
MOTOR POWER	1.0 kW / 1.34 HP
POWER SUPPLY Δ	208 VAC - 3 - 60 Hz
RATED CURRENT	Δ 4.62 A @ 208 VAC
ELECTRICAL CONNECTORS	Per customer specification
MOTOR RPM	1680 @ 60 Hz
NUMBER OF BRAKES	2 Standard (single braked units available upon request)
DC BRAKE OPERATING VOLTAGE	103 VDC
DC BRAKE RATED TORQUE	8 Nm / 70 in-lb.
DC BRAKE GAP (SL)	0.2 - 0.3 mm / 0.008 - 0.011 in.
LIMIT SWITCH	2 position adjustable internal, 30 m / 98 ft travel without extended limit
ENCODER	Incremental or absolute upon request
HOIST SELF-WEIGHT	43 kg / 95 lbs.

LOW VOLTAGE CONTROL

CONTROL CONNECTOR	Per customer specification
LIMIT SWITCH	2 position standard, 4 upon request



OTHER OPERATING VOLTAGE & FREQUENCY ARE AVAILABLE

EXE
RISE

□ **D8+ 2000kg**
2 REEVES

LARGE FRAME

CHAIN HOIST



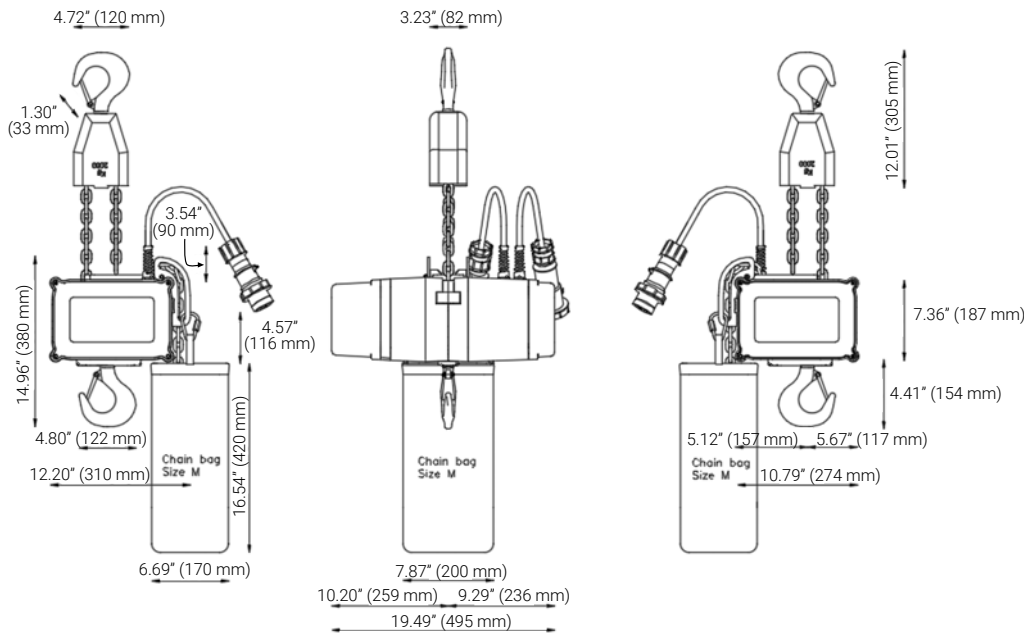
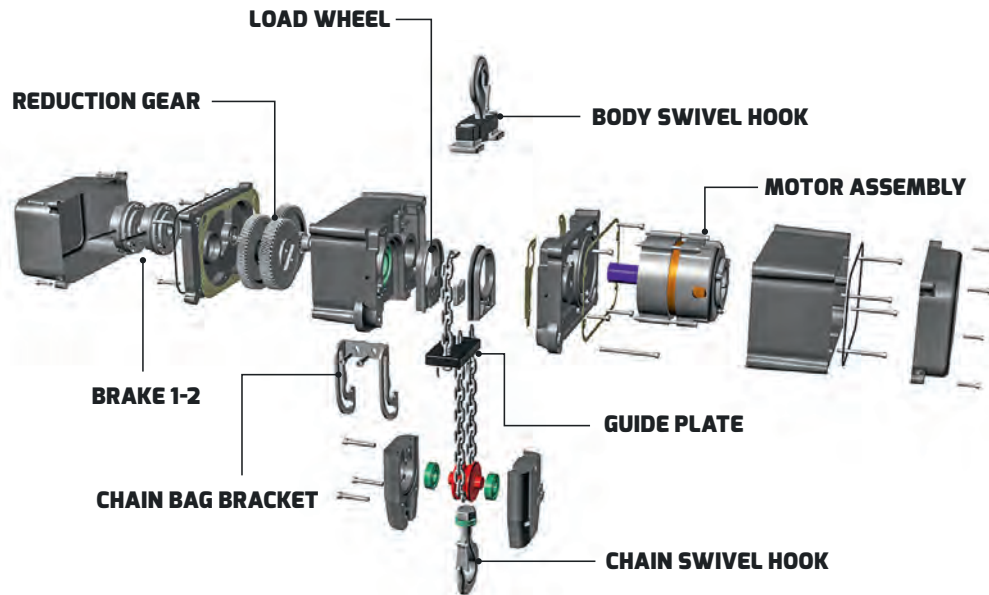
GENERAL FEATURES

MODEL	EXE Rise chain hoist D8+ 2000 kg 2F
TYPE OF CONTROL	Low Voltage
FEM CLASS	2m
DUTY FACTOR	40%
START PER HOUR	240
BEARING TIME / 10 YEARS	6300h
FALLS OF CHAIN	2
TYPE OF CHAIN	DIN EN 818-7 - type DAT steel 80 grade Zinc galvanized or black phosphated
SIZE OF CHAIN	8x24 mm / approx. 0.31 x 0.94 in
CHAIN SELF-WEIGHT	1.39 kg/m / 0.93 lb/ft.
SAFETY FACTOR	8:1
IP RATING	55
INSULATION CLASS (TEMPERATURE CLASS)	F according to CEI 15-26
LOAD WHEEL	5 pockets
NOISE LEVEL	67.5 dB @ full load
CONNECTION CABLE LENGTH	30 in standard (others available upon request)

The **EXE Rise D8+ 2000Kg Large Frame chain hoist** is a double-fall hoist made by gravity casting, durably designed for a heavy-duty life cycle. This hoist is everlasting with proper care and maintenance, which makes it ideal for the rugged life on-tour. It's a fantastic option for heavier-grid systems often seen in festivals, outdoor venues, arenas, and film sets.

EXE RISE D8+ 2000kg 2F

LARGE FRAME



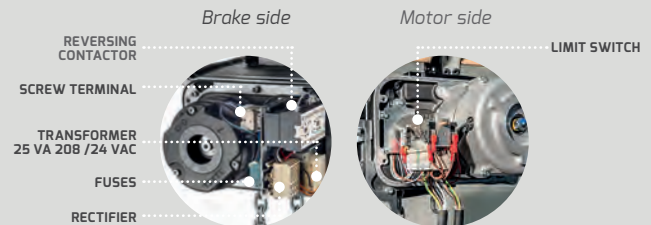
DC model has only one cable.

DIRECT CONTROL

WORKING LOAD LIMIT	2000 kg / 2 Tonnes / 4409 lbs.
FREQUENCY	50 Hz / 60 Hz
LIFTING SPEED	2 m/min @ 50 Hz / 8 ft/min @ 60 Hz
MOTOR POWER	1.6 kW
POWER SUPPLY Δ	208 VAC - 3 - 60 Hz
RATED CURRENT	Δ 4.62 A @ 208 VAC
ELECTRICAL CONNECTORS	Per customer specification
MOTOR RPM	1680 @ 60 Hz
NUMBER OF BRAKES	2 Standard (single braked units available upon request)
DC BRAKE OPERATING VOLTAGE	103 VDC
DC BRAKE RATED TORQUE	8 Nm / 70. in-lb.
DC BRAKE GAP (SL)	0.2 - 0.3mm / 0.008 - 0.011 in.
LIMIT SWITCH	2 position adjustable internal, 15 m / 49 ft travel without extended limit
ENCODER	Incremental or absolute upon request
HOIST SELF-WEIGHT	43 kg / 99 lbs.

LOW VOLTAGE CONTROL

CONTROL CONNECTOR	Per customer specification
LIMIT SWITCH	2 position standard, 4 upon request



OTHER OPERATING VOLTAGE & FREQUENCY ARE AVAILABLE

EXE VARIO **VARIABLE SPEED CHAIN HOISTS**

The Vario is suitable for motor up (standard suspension) or motor down (self-climbing) without any adjustments or modifications.

The EXE Vario is based around the existing large frame EXE Rise and has been converted for use with the popular Kinesys Elevation 1+ controller. Development was carried out in close collaboration with the team at Kinesys Projects Ltd.

Every hoist is fitted with double brakes, four-position limit switches, and encoders standard. The standard models have a lifting capacity of 500kg and 1000kg and use 8x24 mm load chain. The EXE Vario has the ability to ramp start, ramp stop, program preset positions, and vary the speed of the chain hoist to maximize your creative possibilities.

When it comes to control, the EXE Vario chain hoist is compatible with Kinesys Vector and K2 control platforms, which are “tour-proven,” and universally recognized as the industry standard.

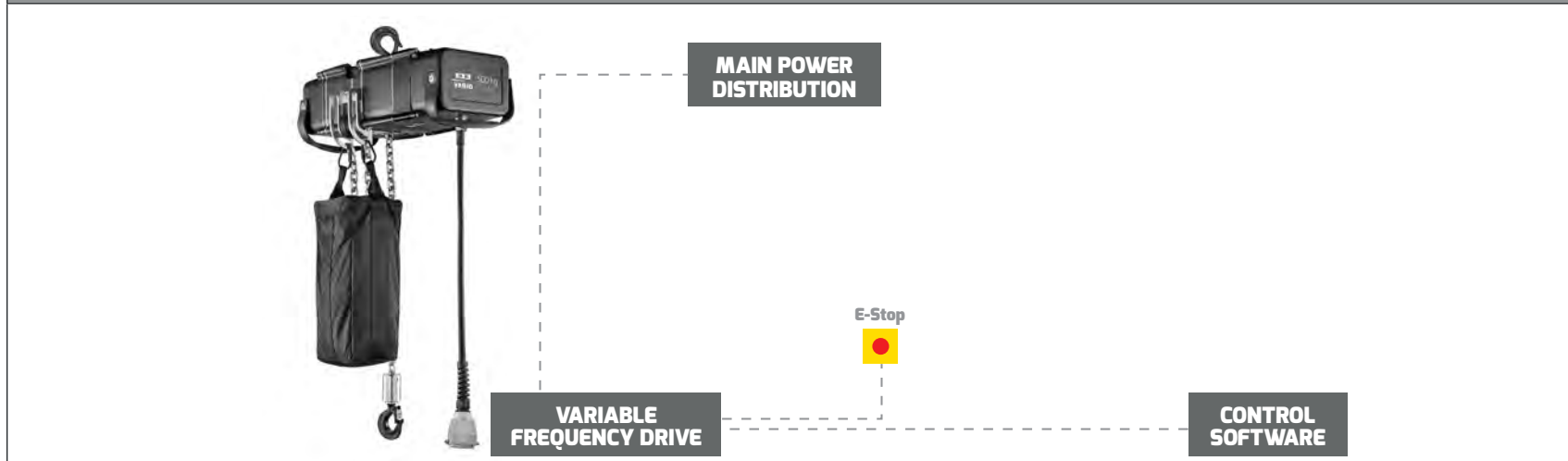
The EXE Vario chain hoist can also be used as a fixed-speed hoist by adding an adapter cable, which allows connection to a standard controller. It can also be provided without Kinesys conversion for custom wiring installations.

Overview

EXE VARIO D8+ 500kg	EXE VARIO D8+ 1000kg
MAX LIFTING SPEED: 20 m/min @ 50 Hz 78 ft/min @ 60 Hz	MAX LIFTING SPEED: 10 m/min @ 50 Hz 39 ft/min @ 60 Hz
	

VARIABLE SPEED CHAIN HOIST CONFIGURATION

Wiring diagram for a generic EXE Vario hoist configuration



EX3 VARIO

□ D8+ 500kg

VARIABLE SPEED

CHAIN HOIST



GENERAL FEATURES

MODEL	D8+ 500kg VARIABLE SPEED
FEM CLASS	1Bm
TYPE OF CHAIN	DIN EN 818-7 - type DAT steel 80 grade Zinc galvanized or phosphated
SIZE OF CHAIN	8x24 mm / 0.31 x 94 in.
CHAIN SELF-WEIGHT	1.39 kg/m / 0.93 lb./ft.
SAFETY FACTOR	8:1
IP RATE	55
INSULATION CLASS (TEMPERATURE CLASS)	F according to CEI 15-26
LOAD WHEEL	5 pockets
NOISE LEVEL	67.5 dB @ full load
CONNECTION CABLE LENGTH	30 in. standard (other lengths upon request)

EXE VARIO D8+ 500kg

VARIABLE SPEED

WORKING LOAD LIMIT	500 kg / ½ Tonne / 1102 lbs.
FREQUENCY - MAX LIFTING SPEED	50 Hz: max 20 m/min / 66 ft/min 60 Hz: max 24 m/min / 78 ft/min
MOTOR POWER	2.2 kW / 2.95HP
OPERATING VOLTAGE	Y 400 VAC - 3 - 50 / 60 Hz
3PH CURRENT	Y 5.5 A
REVOLUTIONS PER MINUTE	2800 @ 50 Hz, 3400 @ 60 Hz
NUMBER OF BRAKES	2
DC BRAKE SIZE	10
DC BRAKE POWER	30 W
DC BRAKE OPERATING VOLTAGE	205 VDC
DC BRAKE RATED TORQUE	16 Nm / 142 in-lb.
DC BRAKE RATED TORQUE REDUCTION AT THE SPEED SPECIFICATION x %	76% (3000 r/min)
DC BRAKE GAP (SL)	0.2 mm / 0.039 in.
SELF-WEIGHT	50 kg / 110 lbs.

Dimensions will vary based on chain hoist configuration, more information is available upon request.

EXE Vario Chain Hoist D8+ 500kg

EXE Vario is a variable speed chain hoist converted for use with the Kinesys Control System.

EX3 VARIO

□ D8+ 1000kg

VARIABLE SPEED



GENERAL FEATURES	
MODEL	D8+ 1000kg VARIABLE SPEED
FEM CLASS	1Bm
TYPE OF CHAIN	DIN EN 818-7 - type DAT steel 80 grade Zinc galvanized or phosphated
SIZE OF CHAIN	8x24 mm / 0.31 x .94 in.
CHAIN SELF-WEIGHT	1.39 kg/m / 0.93 lb./ft.
SAFETY FACTOR	8:1
IP RATE	55
INSULATION CLASS (TEMPERATURE CLASS)	F according to CEI 15-25
LOAD WHEEL	5 pockets
NOISE LEVEL	67.5 dB @ full load
CONNECTION CABLE LENGTH	30 in. standard (other lengths upon request)

EXE VARIO D8+ 1000kg

VARIABLE SPEED

WORKING LOAD LIMIT	1000 kg / 1 Tonne / 2204 lbs.
FREQUENCY - MAX LIFTING SPEED	50 Hz: max 10 m/min / 33 ft/min 60 Hz: max 12 m/min / 39 ft/min
MOTOR POWER	2.2 kW / 2.95 HP
OPERATING VOLTAGE	Y 400 VAC - 3 / 50 / 60 Hz
3PH CURRENT	Y 5.5 A
REVOLUTIONS PER MINUTE	2800 @ 50 Hz, 3400 @ 60 Hz
NUMBER OF BRAKES	2
DC BRAKE SIZE	10
DC BRAKE POWER	30 W
DC BRAKE OPERATING VOLTAGE	205 VDC
DC BRAKE RATED TORQUE	16 Nm / 142 in.-lb.
DC BRAKE RATED TORQUE REDUCTION AT THE SPEED SPECIFICATION x %	76% (3000 r/min)
DC BRAKE GAP (SL)	0.2 mm / 0.039 in.
SELF-WEIGHT	52 kg / 115 lbs.

Dimensions will vary based on chain hoist configuration, more information is available upon request.

EXE Vario Chain Hoist D8+ 1000kg

EXE Vario is a variable speed chain hoist converted for use with the Kinesys Control System.



04

THE COMPLETE LIST OF OF EXE TECHNOLOGY ACCESSORIES

Discover the range of accessories compatible with your EXE chain hoists. In this section, you will find all the accessories and upgrades for your products.

EX3
RISE

EX3
ACE

EX3
VARIO

ACCESSORIES

ROAD CASE

Road cases protect against damage from movement and vibration during transit. All cases are durably constructed from all laminate coated plywood panels with aluminum edging and corners. Additionally road cases come with handles, stacking cups, and locking casters.



SIZE	1X M	2X M	L
PART NUMBERS	CASE-1EXEACE	CASE-2EXEACE	CASE-2EXERISEL
Dimensions B1xB2xH (cm)	AWA 57 x 76 x 74 cm	57 x 76 x 74 cm	57 x 92 x 74 cm
Dimensions B1xB2xH (in)	22.5 in. wide x 30 in. long x 29 in. tall	22.5 in. wide x 30 in. long x 29 in. tall	22.25 in. wide x 36 in. long x 29 in. tall
Quantity of Hoist	1	2	2
Exe Rise Hoists Compatibility	MEDIUM FRAME ULTRA MEDIUM FRAME COMPACT MEDIUM FRAME	MEDIUM FRAME ULTRA MEDIUM FRAME COMPACT MEDIUM FRAME	LARGE FRAME

1x M



CASE-1EXEACE

2x M



CASE-2EXEACE



CHAIN BAG



Chain bag used for EXE Rise is in polyvinyl chloride coated polyamide 65% PVC (Nylon 840), 35% Polyamide. There are many sizes from XS up to XXXL, depending on the size and length of the chain.

Size	XS	S	M	L
Part Number	CBH059	CHB024	CHB025	CHB026
External Dimensions [cm] = Ax B	20x17	20x17	20x17	20x17
Height [cm] = C	17	34	42	58
Self-Weight [kg]	≈ 1.00	≈ 1.00	≈ 1.00	≈ 1.00

Size	L+	XL	XXL	XXXL
Part Number	CHB051	CHB028	CHB056	CHB056
External Dimensions [cm] = Ax B	27x21	27x21	20x25/20x40	20x20/20x40
Height [cm] = C	55	65	80	115
Self-Weight [kg]	≈ 0.75	≈ 1.00	≈ 1.50	≈ 10

Capacity @ 75%

CHAIN SIZE	XS	S	M	L	L+	XL	XXL	XXXL
5-6 mm	12m	25m	45m	65m	X	X	X	X
7-8 mm	X	12m	25m	40m	55m	70m	X	X
10 - 11.3 mm	X	X	X	X	20m	30m	50m	80m
13 mm	X	X	X	X	X	X	40m	55m

RAIN COVER



STANDARD (UP) POSITION:

Provide all-weather protection from the elements for EXE chain hoists during seasonal and permanent installations. The EXE Technology cover can be used in the motor-up position, and fits easily over the top of the motor to form a water resistant barrier.

Size	S	M	L
Part Number	CHHSBK	CHHMBK	CHHLBK
Chain Hoist Compatible	SMALL FRAME	MEDIUM & MEDIUM COMPACT FRAME	LARGE FRAME 1 FALL



CLIMBING (DOWN) POSITION:

The EXE Technology cover can be used in the motor-down position and fits easily over the top of the motor to form water resistant barrier.

Size	M	L	L	XL
Part Number	CHHRCM	CHHRCL	CHHRCLD	CHHRCX
Chain Hoist Compatible	MEDIUM & MEDIUM COMPACT FRAME	LARGE FRAME 1 FALL	LARGE FRAME 2 FALL	EXTRA LARGE FRAME 1 FALL

CHAIN



Universal Double Reeve Pulley

The Universal Double Reeve Pulley allows you to double the load capacity while halving the speed of the hoist. Offered in Medium and Large.

NAME	CODE	WLL	TO BE USED WITH CHAIN SIZE:
Universal Double Reeve Pulley Medium	LT XRC-IW01	max 2000kg	5x15 mm 6x18 mm 6.3x19 mm
Universal Double Reeve Pulley Large	LT XRC-IW02	max 2000kg	7x22 mm 7.1x20.5 mm 8x24 mm



Chain Testing Gauge

As the owner of a hoist, you are required to continuously monitor the condition of your hoist chain in accordance with ESTA/ANSI E1.6-2 or ASME B30.16. A chain may reach the end of its service life due to wear of a single chain link length, of multiple link lengths, of the link diameter, or plastic deformation of the links due to overloading.

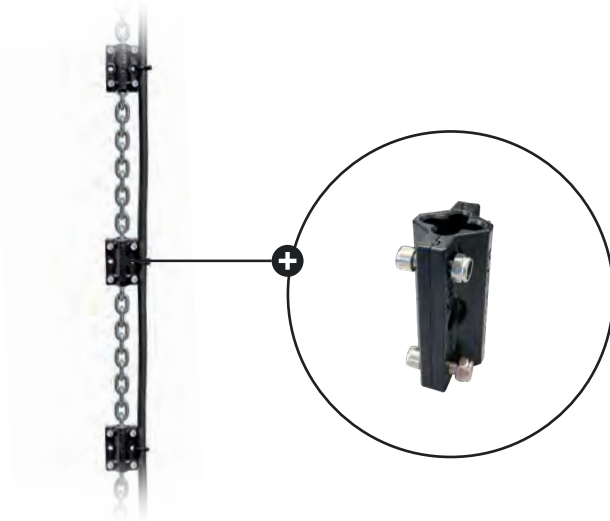
EX3
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ACCESSORIES

CHAIN SLIDER



Chain Slider

The chain slider can manage cable along a load-bearing chain. The chain slider is made out of low-friction black polyoxymethylene (POM) and has two 9mm cable attachment points. The four stainless M6 socket-head bolts and lock nuts are included with each chain slider.

Size	S	M	L
Part Number	RGCSSD	RGC5MD	RGC5LG
Chain Compatible	4x12 mm 5x15 mm	6x18 mm 6.3x19 mm 7x22 mm	8x24 mm



Touring Slider

The touring slider is designed for cable management that needs to install fast. It is a single piece with two cable attachment points. No tools are required to install or remove the touring slider from the chain.

Size	S	M	L	XL
Part Number	RGCSTSM	RGCSTMD	RGCSTLG	RGCSTXL
Chain Compatible	4x12 mm 5x15 mm	6x18 mm 6.3x19 mm 7x22mm	8x24 mm	10x28 mm 11.3x31 mm 13x36mm



Self Locking Swivel Hooks

Self-locking swivel hooks add another layer of safety to your hoist. The hook latch will close itself and cannot be open when loaded. Self-locking hooks are available in black and red finish.

Size	S	M	L
Chain Hoist Compatible	MEDIUM FRAME ULTRA COMPACT MEDIUM FRAME COMPACT MEDIUM FRAME	LARGE FRAME 1 REEVE	EXTRA LARGE FRAME 1 REEVE



Lifting Lug Bracket

The lifting lug bracket is an alternative to a swivel suspension hook. The lifting lug is a good option for permanent installations and applications with minimal rigging headroom.

Chain Hoist Compatibility	Medium Frame Ultra Compact Medium Frame Compact	Medium Frame	Large Frame
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EXE
RISE

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ACCESSORIES

UPGRADES



Encoder

Encoders can be added to EXE chain hoists to monitor the position and speed of the hoist. Encoders are typically used in programmable and automated chain hoist control systems, and the type of encoder required will depend on the control system being used.

INCREMENTAL ENCODER

Incremental encoders produce waves signals that can provide position, displacement, velocity, and direction of travel information. However, information is not stored on an incremental encoder, so another device in the control system, such as a motion controller, must be relied upon to keep track of the hoist's position, particularly in the event of power loss. Some control systems store incremental encoder data through power cycles, and others required a homing operation at start-up to set a reference or zero point. Encoder resolution is expressed in pulses per revolution (PPR); how many pulses are created with each turn of the encoder shaft. Our standard incremental encoder option is 1024PPR with HTL/TTL output, but alternate resolutions and outputs are available upon request.

ABSOLUTE ENCODER

Absolute encoders use unique codes to keep track of the exact the position of the chain hoist. Like incremental encoders they provide position, displacement, velocity, and direction of travel information, but the coding system ensures the exact the position of the hoist is always known. Our standard absolute encoder option is 1024 counts per revolution with SSI output, but alternate resolutions are available upon request.



Data Logger

The EXE Data Logger is an innovative device that records the lifetime hours, minutes, and seconds of operation as well as start cycles, real time temperature, peak temperature, relative humidity, and peak humidity values for your chain hoist. The Data Logger is passively powered by the hoist power circuit, no batteries required, and is activated whenever the hoist is energized. The information is stored within the onboard RAM and is extracted with a USB cable. The EXE Data Logger can be retrofitted to your existing EXE chain hoist inventory.



EX3

TECHNOLOGY

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Data valid as of November 18, 2024



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