

KITO

MAIN BROCHURE

HOISTS



Succeeding together

The demands of our partners provide the benchmark in all our endeavours. KITO premium hoists alone cannot ensure the total satisfaction of our partners and their customers. Our service and offering must always live up to our first-class products in terms of quality. That is our philosophy.

Continuing a long tradition, we constantly strive to improve our products and processes. We are prepared to learn from the challenges of today's business world and the requirements of industry – This is precisely what drives the KITO team forward and ensures customer focussed collaboration. We are particularly proud of this and we cherish the KITO spirit as our most valuable asset.

KITO – LIFTING EXPECTATIONS



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KITO: an established brand

As a Japanese high-tech manufacturer, KITO stands for innovation, precision and trust. With more than 85 years of experience in the manufacture of hoists and cranes, there is a good reason why the company is a world leader in quality. Our products move millions of tonnes of heavy loads daily in industries such as automotive, metallurgy, pharmaceuticals and power generation. The team behind this power is made up of over 2,800 employees worldwide.

To intensify its activities on the European market, the company founded Kito Europe GmbH in 2006, with its headquarters in Düsseldorf. KITO EUROPE develops tailored solutions for all aspects of load acceptance and material flow, distributing premium hoists via its robust network of competent and qualified specialist retailers in almost every EU country as well as the CIS.

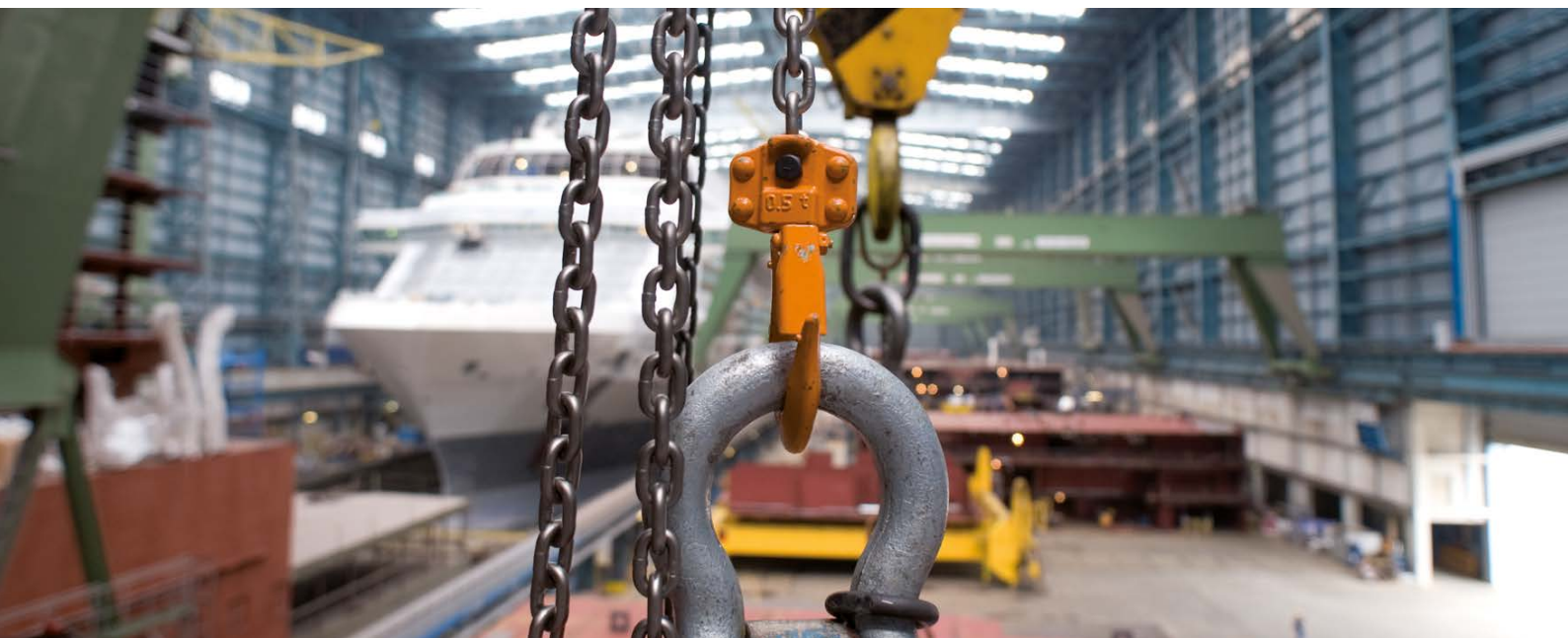
Its global connection to the international market leader allows KITO EUROPE to benefit from innovations and product optimisations. This in turn means that retailers and customers always have access to the latest developments. KITO EUROPE offers a constantly growing product range with solutions for the entire spectrum of industrial applications, no matter how simple or complex they may be.

KITO hoists are manufactured with precision and subject to strict quality control, all on the basis of many years of experience. KITO is certified in accordance with ISO 9001 and ISO 14001, and owes its top-class reputation to its stringent quality assurance system.



We are here for you

Whether you are a crane manufacturer, hoist retailer, crane service provider or system manufacturer: our flexible organisation allows us to directly meet the requirements and needs of our customers.



Customer Service

Queries,
orders,
returns

► sales@kito.net

Sales

Field sales
Germany /
Europe

► sales@kito.net

Technical

After-sales service,
Crane inspection,
Certificates

► technic@kito.net

KITO Europe GmbH

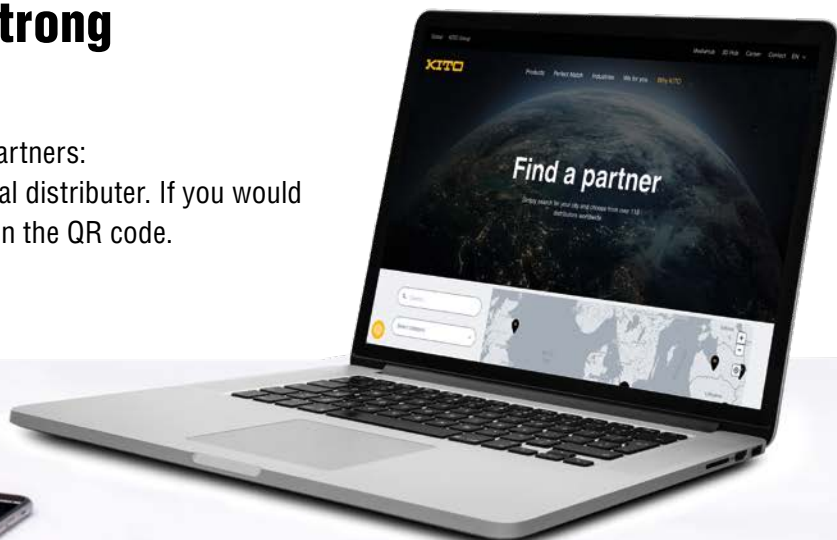
Heerdter Lohweg 93
40549 Düsseldorf
Tel.: +49 211 528 009-0

► info@kito.net

Do you know about our strong partner network?

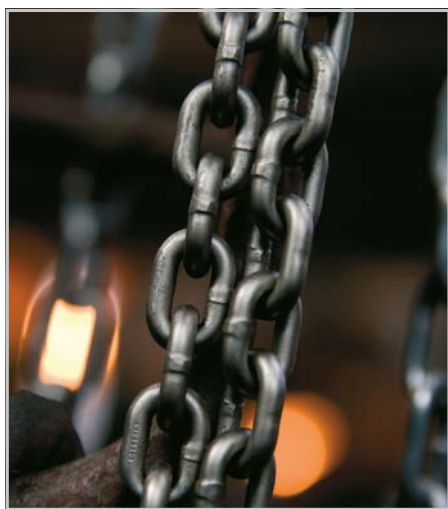
Here you will get an overview about all KITO partners:

www.kito.net/en/sales-partner Find your local distributor. If you would like to use your tablet or smart phone, just scan the QR code.



Safety certificates

As early as the product planning and manufacturing phases, we ensure the greatest precision. Our modern quality management processes ensure we live up to our responsibility. All KITO products are certified in line with international standards. A range of safety features in conjunction with high product quality, as well as DGUV-GS certification ('safety tested') guarantee users a long service life and a high degree of reliability. If you require certificates for one of our products, we will be happy to provide you with copies (in some cases for a fee).



Higher corrosion-resistance of the load chain

KITO is the only manufacturer worldwide offering electroless nickel-plated load chains. The advantages of these products are higher corrosion-resistance and lower wear compared to traditional load chains. Further characteristics:

- ▶ Reduced hydrogen embrittlement
- ▶ Nickel-plated load chain grade T, series DAT (G80) as standard for electric chain hoists resp. grade T, series V (G100) as standard for manual chain hoists in accordance with standard EN 818-7
- ▶ Special manufacturing process – strength 800 N/mm² resp. 1,000 N/mm²



LB and LB-SL lever hoists

The additional Safety Locking Module SL (Safety-Lock) is activated automatically in the event of failure of the load pressure brake.



Challenge us!

In case of further questions please do not hesitate to contact our technic team: technic@kito.net



LX lever hoist

Compact design and lightweight construction, DGVU-GS certified.



CX hand chain block

Compact design and lightweight construction, DGVU-GS certified.



CB hand chain block

Load capacities up to 50,000 kg, DGVU-GS certified.



Certification

You can find our certificates at: www.kito.net/en/safety (Scroll-Down to Certificates)
 The downloadable documents are copy-protected and bear a 'SAMPLE' watermark.
 If you require certificates for one of our products, we will be happy to provide you with copies (in some cases for a fee).

The Group in Europe



KITO Hoists & Cranes

www.kito.net

As a Japanese high-tech manufacturer, KITO stands for innovation, precision and trust. With more than 85 years of experience in the manufacture of hoists and cranes, there is a good reason why the company is a world leader in quality.

Premium electric and manual chain hoists

- ▶ Electroless nickel-plated load chain, extremely low-wear, corrosion-resistant ("H23")
- ▶ Frequency inverter as standard for EQ and ER2 electric chain hoist
- ▶ "Certified Safety (GS)" for manual chain hoists LX, LB, CX and CB

For all applications

- ▶ Serial designs for the wide industrial area
- ▶ Standards for food industry, wind power and overhead line construction, offshore and mining
- ▶ Customized special solutions

Best quality standards

- ▶ High production depth in Japan
- ▶ Chains, hooks, chain guide, etc. manufactured by KITO
- ▶ Certified in accordance with ISO 9001 and ISO 14001

weissenfels Lifting Chains & Accessories

www.kitochainitalia.com

Weissenfels is a brand of Kito Chain Italia. The company's structure complies with the EN ISO 9001:2015 standard and has been certified by DNV-GL.

Lifting chains and technical chains

- ▶ 6 mm to 26 mm Ø, G80 and G100 chains
- ▶ Temperature range from -40° up to 400° C
- ▶ Certified by Berufsgenossenschaft ("H37"), EN ISO 9001:2015, DNV-GL

Masterlinks and fittings

- ▶ G80 and G100 accessories for chains with 6 mm up to 26 mm Ø
- ▶ Safety factor 4:1
- ▶ Masterlinks diameter from 13 mm to 70 mm

Offshore components

- ▶ Masterlinks for loads up to 85 t
- ▶ Slings with 1 leg up to five legs
- ▶ Type approved according to DNV 2.7-1 and ISO 10855-2



ERIKKILA **Light Crane Systems & Cranes**

www.erikkila.com

ERIKKILA offers a fast and easy crane configuration with advanced PROMILE crane calculation program. Each crane system is specified and manufactured according to customer needs. Superior delivery times for tailored solutions.

Optimised steel and aluminium profiles

- ▶ The best weight carrying capacity ratio
- ▶ Long suspension distances
- ▶ True cost saving elements: suspension parts, support structure and installation time

Internal conductor rail

- ▶ Maximises the crane coverage
- ▶ As standard for selected aluminium and steel profiles
- ▶ Available also for selected jib cranes

Innovative conical profile joint

- ▶ Guides steel profiles together for precise travel surface
- ▶ Ensures smooth trolley movement through the joints at all loads

VAN LEUSDEN **Engineered Lifting Solutions**

www.vanleusden.com

Van Leusden B.V. is a specialised manufacturer of high-quality engineered hoisting solutions such as custom-made cranes, trolleys and hoists suitable for offshore, marine and chemical industry applications. Our products range consists of manually, electrically or pneumatically driven hoisting solutions with a capacity range from SWL 0.5 t up to 100 t.

Custom-made cranes and hoisting solutions

- ▶ For extreme operational conditions and offshore environment
- ▶ Certified by certification institutes DNV-GL, BV, Lloyds and ABS
- ▶ High standards for safety, durability and material traceability

Trolley / hoist combination

- ▶ Special design for narrow spaces and extremely small curved monorails
- ▶ Corrosion-resistant surface treatment
- ▶ Suitable for ATEX zone 2 and 1

Special trolleys

- ▶ Unique 3 bolt design which ensure stability and safe situation
- ▶ Rack and pinion driven trolleys which can operate under inclination
- ▶ Stainless steel trolley

Der DemoVan

Test hoists and experience first hand

The KITO DemoVan is equipped with the most important hoists from our product portfolio. From the lever hoist to the manual chain hoist to the electric chain hoist, everything that the industry requires is included. The advantage of this vehicle is that you can see the product features for yourself on site and test all the hoists. Get a direct insight into the technology, handling and advantages of KITO hoists.

- ✓ Bright and friendly showroom thanks to large side windows
- ✓ Inviting appearance due to side entry
- ✓ Wide exhibition front for product demonstration
- ✓ Spacious interior, usable for meetings
- ✓ Ample storage space for information material

Book the DemoVan now:

Learn more at www.kito.net/en/demovan





→ End users

You would like to present KITO hoists to the end customer under professional test conditions? Then use our DemoVan for this purpose.

- ✓ We arrive you and bring all the information with it right away
- ✓ Conviction through the demonstration effect
- ✓ No time-consuming preparations necessary
- ✓ Partnership approach with end customers

The DemoVan is right ...

→ Trade fairs

Whether indoors on the exhibition stand or outdoors in the exhibition hall. The KITO DemoVan is equipped with the most important hoists from our product portfolio. From the lever hoist to the manual chain hoist to the electric chain hoist, everything that the industry requires is included. Test the lifting equipment on site, up close.



... where you need it.



→ Training purposes

Effective training offered by trained staff.

- ✓ Sales support at the end customer
- ✓ Product training for the staff of our specialist dealers
- ✓ Sales training for the sales staff of the specialist retailer

Book your DemoVan Tour now.

Please get in touch with your KITO person of contact or send your request to:

demovan@kito.net

KITO ACADEMY



Our contribution to your safety

- ✓ Highest product quality
- ✓ Extensive training programme
- ✓ Perfectly tailored to KITO hoists

The doors of our KITO ACADEMY are open for you. Get to know the advantages and unique selling points of our products. Find out what quality and safety mean at KITO and why the answer to the question “Which hoists do you use?” should always be “The ones from KITO.”

- ✓ Get to know the product advantages
- ✓ Refreshing knowledge thanks to structured presentations
- ✓ Case studies to illustrate the theoretical foundations
- ✓ Acquiring certifications
- ✓ Highly qualified trainers combined with modern equipment



Learn more at www.kito.net/en/academy



Sales training

 Also possible online

How to understand all products properties and setting features

▶ **Manual hoists** ▶ **Electric chain hoists** ▶ **Electric wire rope hoists** ▶ **Selected products**

Repair & Maintenance Training

Perform maintenance & repairs

▶ **Manual hoists** ▶ **Electric chain hoists** ▶ **Electric wire rope hoists**

SOS Safety Orientation Session

The correct commissioning and safe use of manual hoists

▶ **Manual hoists**

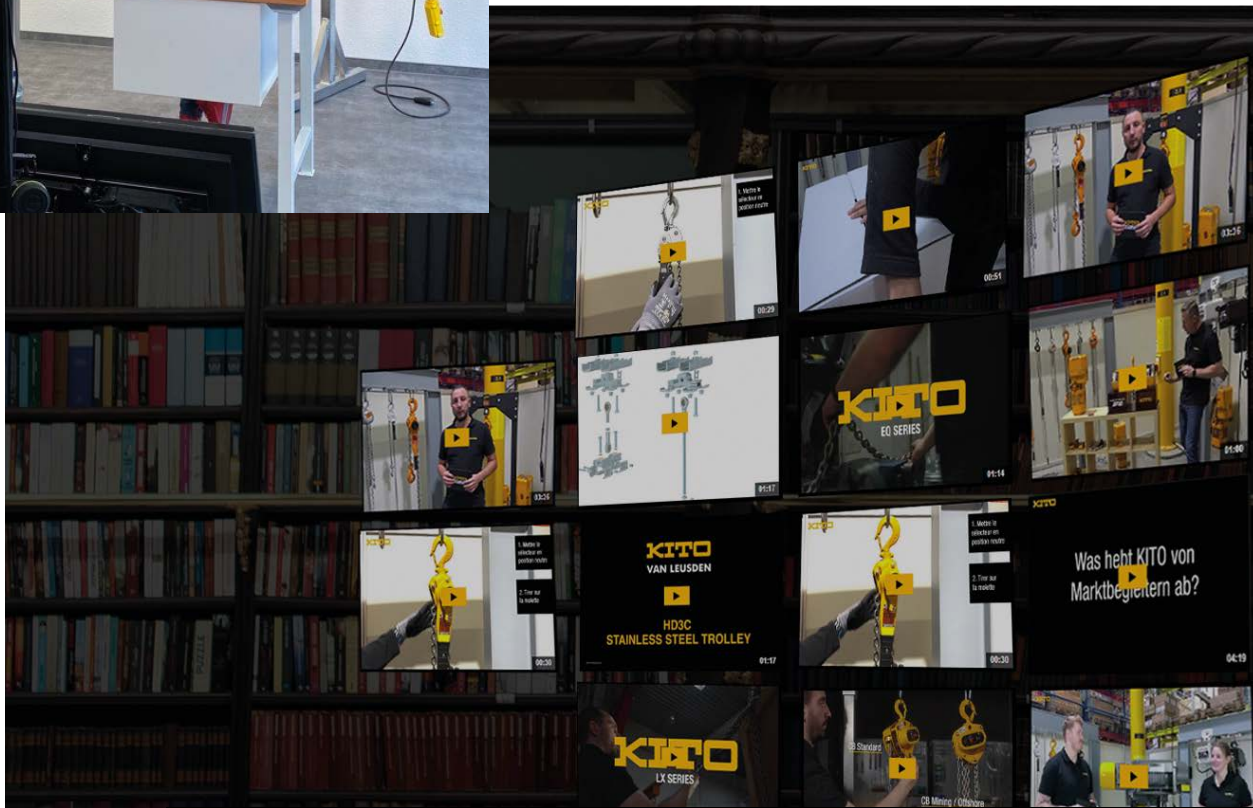
Book your Training now.

www.kito.net/en/academy

Feel free to ask about individual training or group training for larger groups:

academy@kito.net

DIGITAL TOOLS



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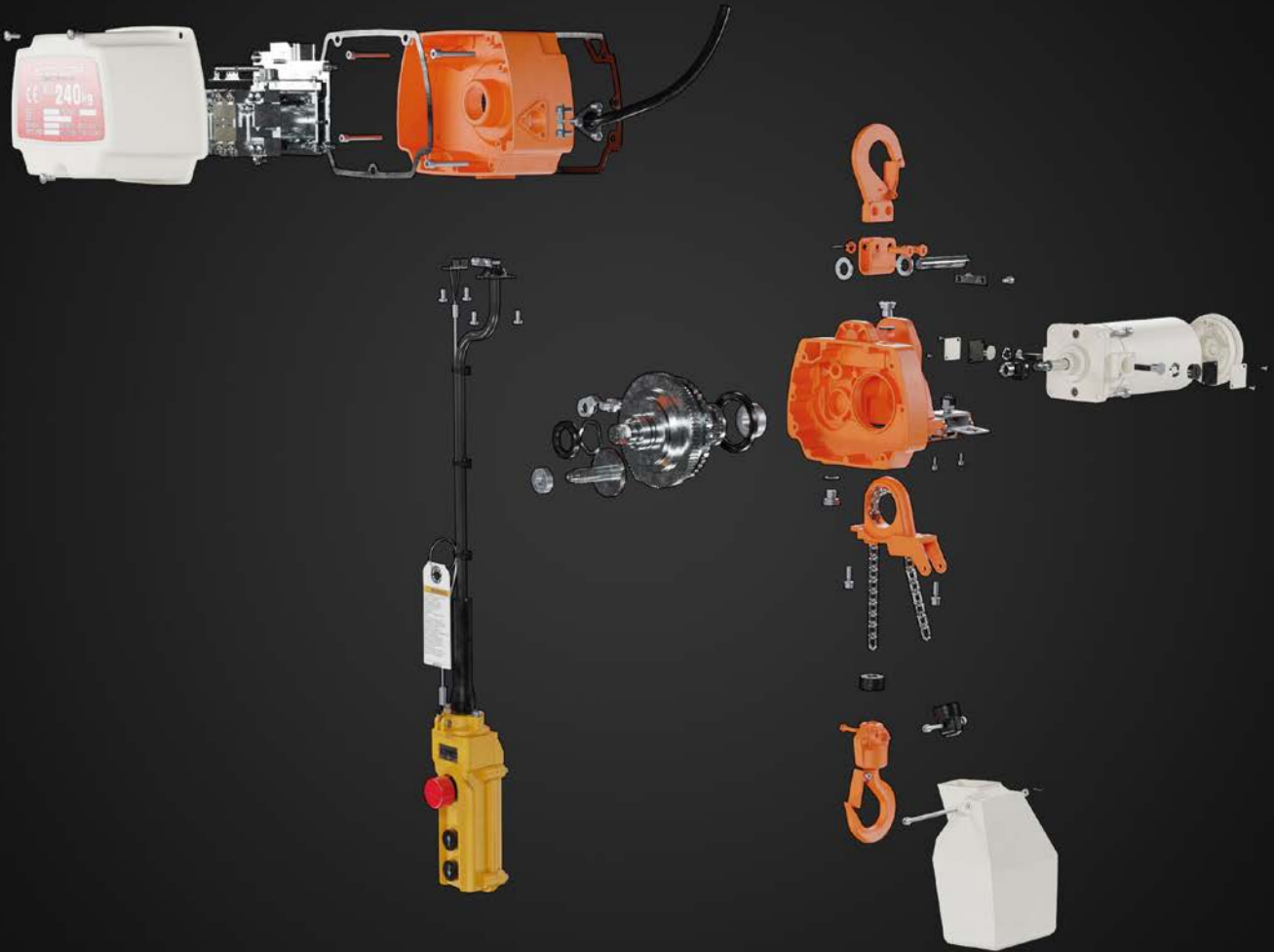
In our KITO MediaHub, we continuously present new videos on a wide range of topics. Here you will find product and explanation videos in numerous language versions. Use our filter options to find the right video.

Do you have a special video request?

Send your request directly to: marketing@kito.net

Would you like to deepen your product knowledge? We broadcast online events and webinars directly from our studio in Düsseldorf.

Send your request directly to: academy@kito.net



KITO 3D Hub

Experience the difference

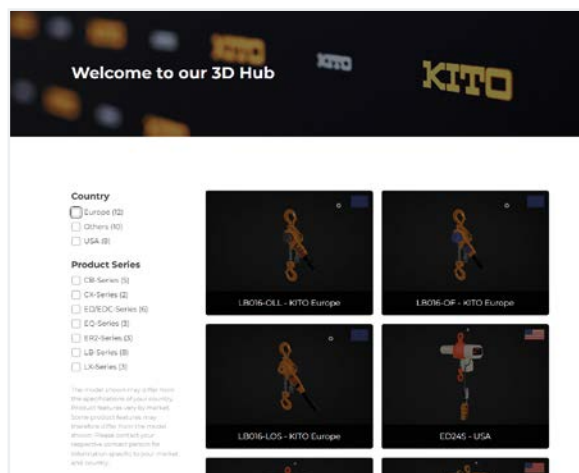
3d.kito.net

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Our KITO 3D Hub gives you a new look at our products. Search for the product you want using our filter function.

The exploded view allows you to see each individual part from all angles. With the help of the sliders, you can easily create a cutaway model yourself.





Manual chain hoists

LX

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LB

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LB-SL

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CX

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CB

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CB Mining / Offshore

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CB High Speed

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SHB

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TK beam clamp

p. 34 - 35



LX lever hoist

- ▶ Up to 500 kg load capacity
- ▶ Compact and lightweight construction
- ▶ Freewheel function
- ▶ Nickel-plated load chain grade T, series V (G100) in accordance with standard EN 818-7

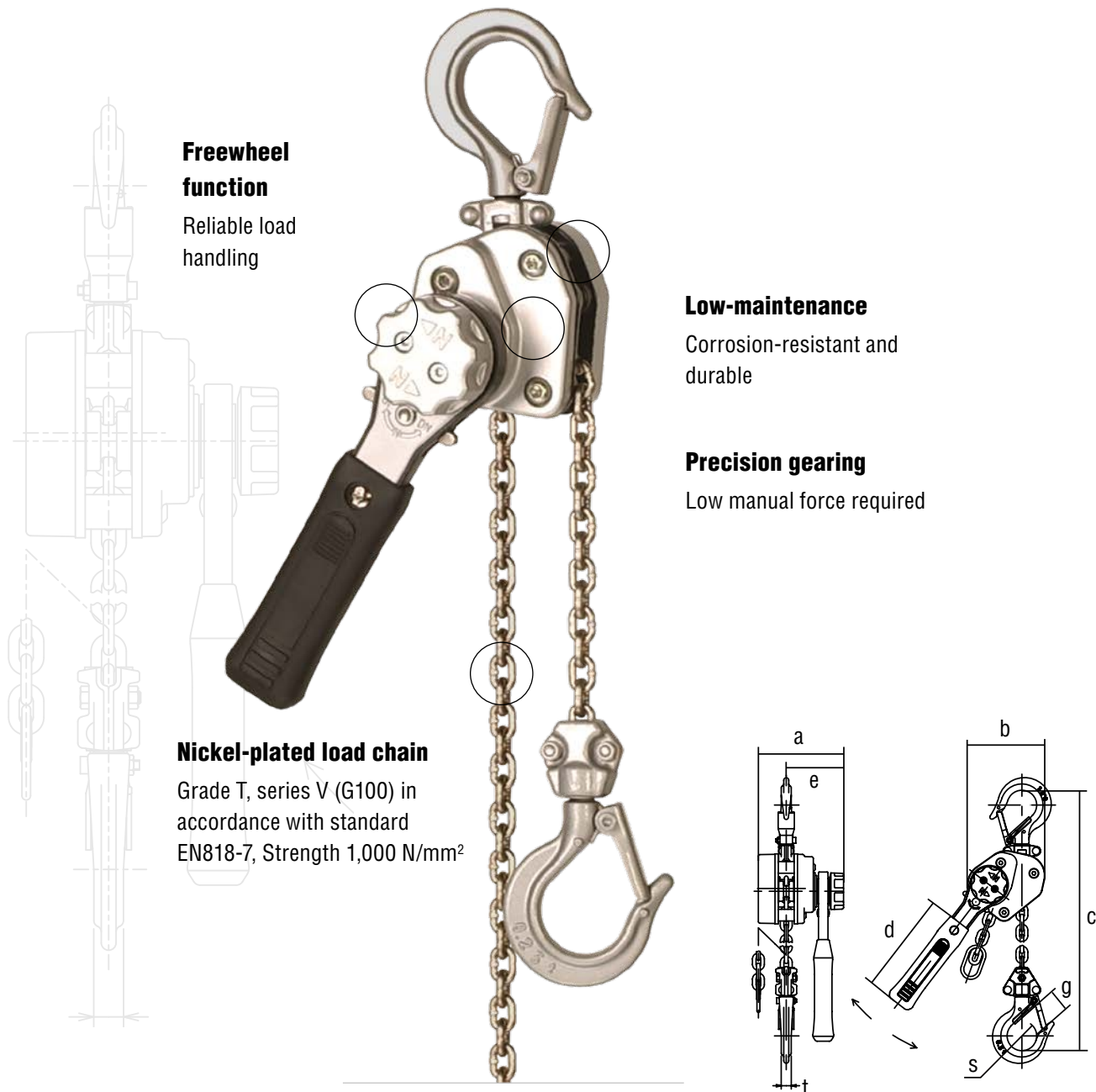


LX003



LX005

For use in confined spaces



Freewheel function

Reliable load handling

Low-maintenance

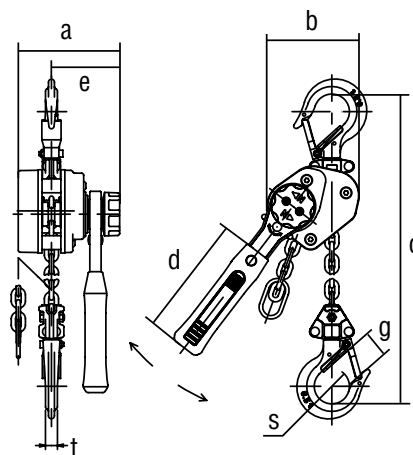
Corrosion-resistant and durable

Precision gearing

Low manual force required

Nickel-plated load chain

Grade T, series V (G100) in accordance with standard EN818-7, Strength 1,000 N/mm²



Technical data

Type	Load capacity	Standard lifting height	Lever pressure, full load	Load chain diameter	Chain falls	Weight	Weight for additional 1 m lift	Dimensions in mm							
								kg	m	daN	mm	kg	kg	a	b
LX003	250	1.5 bzw. 3.0	20	3.2 x 9.0	1	1.7 bzw. 2.0	0.2	90.5	73.5	205.0	150.0	62.0	21.0	32.0	11.0
LX005	500	1.5 bzw. 3.0	31	4.3 x 12.0	1	2.7 bzw. 3.3	0.4	102.0	93.0	246.0	180.0	68.0	24.5	35.5	12.0



LB lever hoist

- ▶ Up to 9,000 kg load capacity
- ▶ Unique freewheel function
- ▶ Fine-toothed precision gearing to reduce required force
- ▶ More robust and ergonomic lever
- ▶ High-performance mechanical brake
- ▶ Nickel-plated load chain grade T, series V (G100) in accordance with standard EN 818-7

Options

- ▶ Safety Lock (SL)
- ▶ Overload limiter (OLL)
- ▶ Without freewheel function (OF)
- ▶ Overload signal (LOS)
- ▶ Shipyard hook set (top and bottom hook)
- ▶ Chain lock



LB OLL

with overload limiter

LB OF

without freewheel function

Guided hook latch

Robust sheet steel housing

Reliable load handling

Nickel-plated load chain

Grade T, series V (G100)
in accordance with standard EN818-7,
Strength 1,000 N/mm²

Hook block quadruple riveted

Increased safety



Shipyard hook

For special applications e.g. shipbuilding
and sheet metal forming

KITO original freewheel function

Protection against unintentional
freewheeling under load

Overload signal LOS

Visual signal in case of overload

LB016



KITO clip as option

To be used for pulling
horizontal loads only

Technical data

Type	Load capacity	Standard lifting height*	Lever pressure, full load	Load chain diameter	Chain falls	Weight	Headroom C	Weight for additional 1 m lift
	kg	m	daN	mm		kg	mm	kg
LB008	800	1.5	28.4	5.6 x 15.7	1	5.7	280	0.7
LB010	1,000	1.5	35.3	5.6 x 15.7	1	5.9	300	0.7
LB016	1,600	1.5	33.3	7.1 x 19.9	1	8.0	335	1.1
LB025	2,500	1.5	36.3	8.8 x 24.6	1	11.2	375	1.7
LB032	3,200	1.5	36.3	10.0 x 28.0	1	15.0	395	2.3
LB063	6,300	1.5	37.2	10.0 x 28.0	2	26.0	540	4.7
LB090	9,000	1.5	38.2	10.0 x 28.0	3	40.0	680	7.0

*Further standard lifting heights: 3.0 m and 6.0 m



LB-SL lever hoist

- ▶ Up to 9,000 kg load capacity
- ▶ Complies with EN 13157
- ▶ High-performance load pressure brake with special pressure spring for maximum braking force
- ▶ Additional Safety Locking Module
- ▶ KITO original freewheel function: Protection against unintentional freewheeling under load and 2-step activation
- ▶ Nickel-plated load chain grade T, series V (G100), Breaking strength 1,000 N/mm²
- ▶ High strength, low wear and higher corrosion resistance
- ▶ SL Modification Kit available: Existing LB series lever hoists can be modified* with the SL Modification Kit (LB016/032/063/090)

*The modification from LB to LB-SL is only possible through KITO certified distributors.



LB-SL

with Safety-Lock

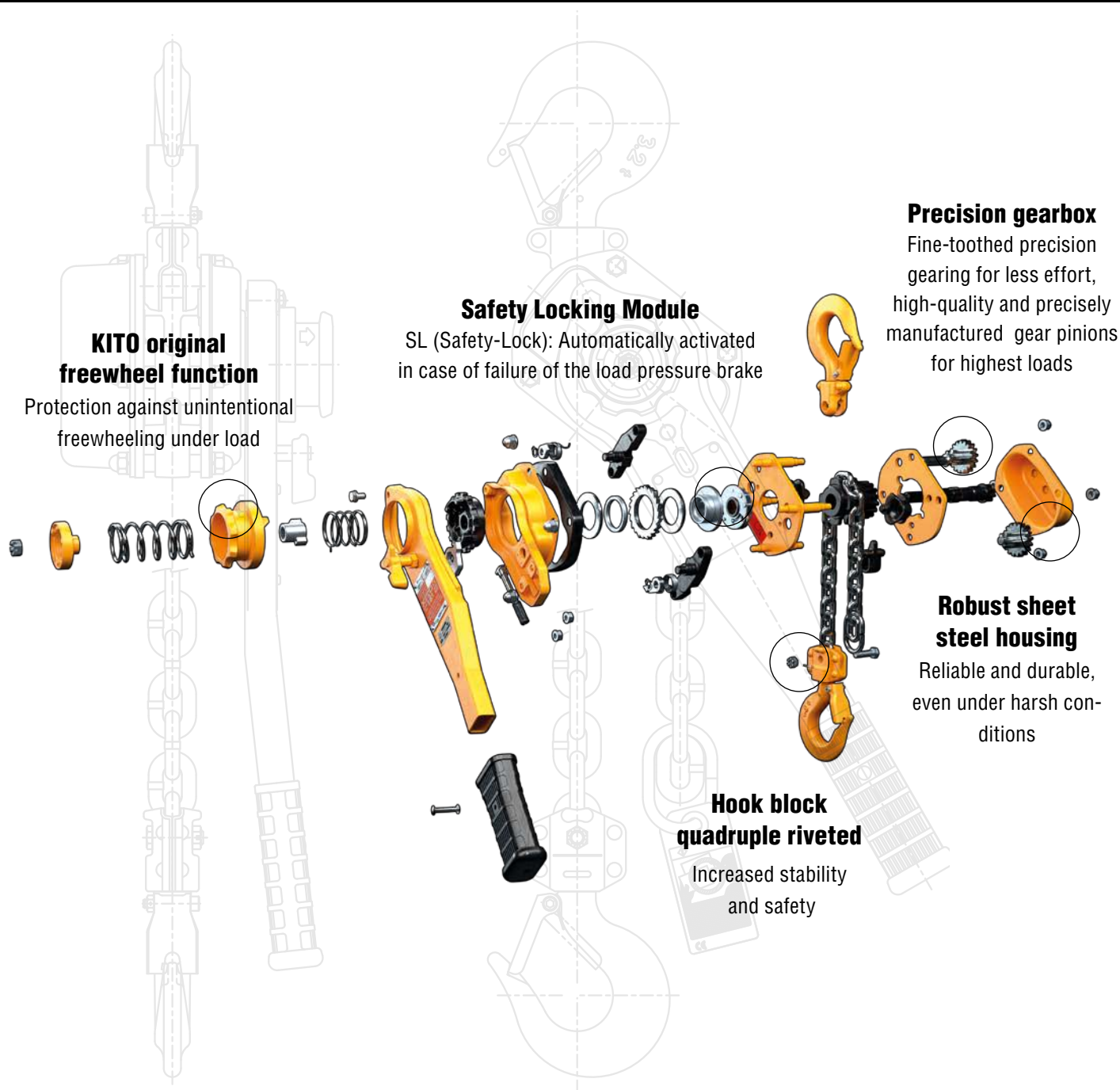
Options

- ▶ Chain lock



Additional Safety Locking Module

The additional Safety Locking Module SL (Safety-Lock): Activated automatically in the event of failure of the load pressure brake.

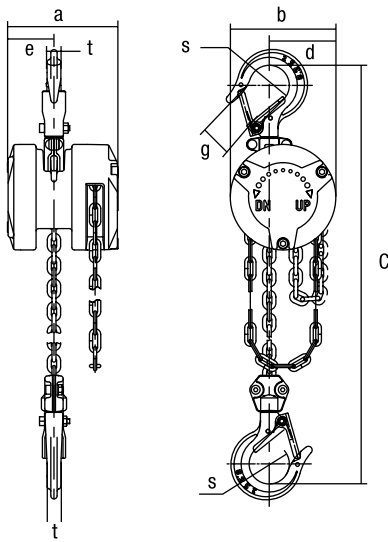


Technical data

Type	Load capacity	Lifting Height	Lever pressure, full load	Load chain diameter	Chainfalls	Weight	Headroom C	Weight for additional 1 m lift
	kg	m	daN	mm		kg	mm	kg
LB-SL	1,600	1.5	33.3	7.1 x 19.9	1	8.5	335	1.1
LB-SL	1,600	3.0	33.3	7.1 x 19.9	1			
LB-SL	3,200	1.5	36.3	10.0 x 28.0	1	15.6	395	2.3
LB-SL	3,200	3.0	36.3	10.0 x 28.0	1			
LB-SL	6,300	1.5	37.2	10.0 x 28.0	2	26.6	540	4.7
LB-SL	6,300	3.0	37.2	10.0 x 28.0	2			
LB-SL	9,000	1.5	38.2	10.0 x 28.0	3	40.6	680	7.0
LB-SL	9,000	3.0	38.2	10.0 x 28.0	3			

CX hand chain block with aluminium body

- ▶ Up to 1,000 kg load capacity
- ▶ Extremely lightweight
- ▶ High-quality aluminium housing
- ▶ Overload limiter as standard
- ▶ Nickel-plated load chain grade T, series V (G100) in accordance with standard EN 818-7



CX003

CX005

CX010

Technical data

Type	Load capacity	Standard lifting height	Hand chain length, folded	Hand force, full load	Pulled chain for 1 m lift	Load chain diameter	Chain falls	Weight	Weight for additional 1 m lift	Dimensions in mm							
										kg	m	m	daN	m	mm	kg	kg
CX003	250	3.0	2.5	14.7	33.8	3.2 x 9.0	1	2.4	0.4	88	84	217	53	37	21	32	11
CX005	500	3.0	2.5	18.7	42.8	4.3 x 12.1	1	4.5	0.9	101	102	260	66	44	24.5	35.5	12
CX010	1,000	3.0	3.0	19.3	85.6	4.3 x 12.0	2	7.3	1.8	103	122	360	87	44	29	42.5	15

Compact & extremely powerful.

Discover the unique features of the CX range!

Compact design without protruding bolts

Equipped with overload limiter

Twist checker as standard CX010

Enables a quick and easy check if the chain is twisted.

Corrosion-resistant hand chain

Hook with large internal diameter

Top and load hook

Guided hook latch

Top and load hook



CB hand chain block

- ▶ Up to 50,000 kg load capacity
- ▶ Shock-resistant double gear casing
- ▶ Robust mechanical brake for increased safety
- ▶ Maintenance-free bearings
- ▶ Forged load hook with wide opening
- ▶ Nickel-plated load chain grade T, series V (G100) in accordance with standard EN 818-7

Options

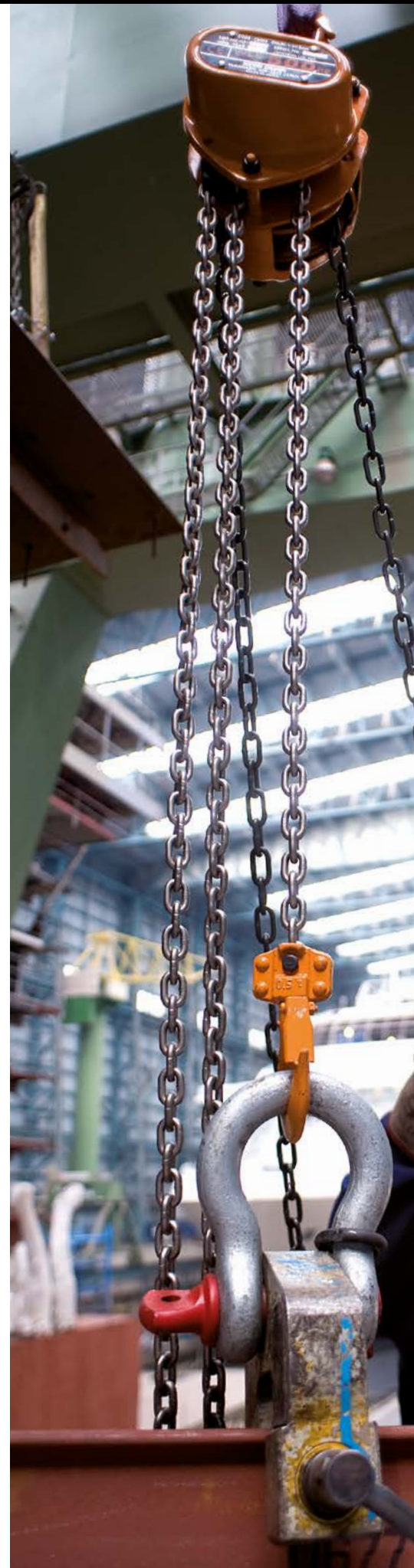
- ▶ TSG geared trolley (page 80 – 81)
- ▶ TSP plain trolley (page 82 – 83)
- ▶ Overload limiter (OLL)
- ▶ Various chain container sizes
- ▶ Stainless steel chain and hook for certain sizes



Technical data

Type	Load capacity	Standard lifting height*	Hand force, full load	Pulled chain for 1 m lift	Load chain diameter	Chain falls	Weight	Weight for additional 1 m lift
	kg	m	daN	m	mm		kg	kg
CB005	500	3.0	23.5	25	5.0 x 15.1	1	11.0	1.5
CB010	1,000	3.0	28.4	43	6.3 x 19.1	1	12.5	1.8
CB015	1,500	3.0	34.3	57	7.1 x 21.2	1	15.5	2.1
CB020	2,000	3.0	35.3	70	8.0 x 24.2	1	20.0	2.3
CB025	2,500	3.0	32.3	99	9.0 x 27.2	1	27.0	2.7
CB030	3,000	3.0	35.3	114	7.1 x 21.2	2	24.0	3.2
CB050	5,000	3.0	33.3	198	9.0 x 27.2	2	41.0	4.4
CB075	7,500	3.5	34.3	297	9.0 x 27.2	3	63.0	6.2
CB100	10,000	3.5	35.3	396	9.0 x 27.2	4	83.0	7.9
CB150	15,000	3.5	36.3	594	9.0 x 27.2	6	155.0	11.4
CB200	20,000	3.5	35.3 x 2	396 x 2	9.0 x 27.2	8	235.0	15.8
CB300	30,000	3.5	42.1 x 2	495 x 2	9.0 x 27.2	10	310.0	19.2
CB400	40,000	3.5	42.1 x 2	693 x 2	9.0 x 27.2	14	480.0	26.2
CB500	50,000	3.5	48.0 x 2	792 x 2	9.0 x 27.2	16	640.0	29.7

*Further standard lifting heights: 6.0 m e.g. 6.5 m. Further lifting heights on request.





Durable and safe. Easy to use.

Hook latch

Robust design

Braking system

Guarantees increased braking performance and safety beyond the threshold limits

Load chain guide

Quiet and smooth running

Nickel-plated load chain

Grade T, series V (G100)
in accordance with standard EN818-7,
Strength 1,000 N/mm²



Option: Universal trolleys from TS range

- ▶ TSG geared trolley (page 80 – 81)
- ▶ TSP plain trolley (page 82 – 83)



CB050



CB Mining / Offshore hand chain block

- ▶ Up to 50,000 kg load capacity
- ▶ Shock-resistant double gear casing
- ▶ Robust mechanical brake for increased safety
- ▶ Sealed, maintenance-free bearings to protect against dust and moisture
- ▶ Two retaining pawls, each with a double-pawl spring system as an additional safety feature
- ▶ Overload limiter (OLL)
- ▶ Forged load hook with wide opening
- ▶ Robust hook latch
- ▶ Cap nuts to ensure optimal protection of screw threads on the housing
- ▶ Nickel-plated load chain grade T, series V (G100) in accordance with standard EN 818-7

Options

- ▶ Various chain container sizes
- ▶ Stainless steel chains and hooks
- ▶ TSG geared trolley, TSP plain trolley (page 80 – 83)
- ▶ Without overload limiter (OLL), with two retaining pawls

Dimensions

The explaining drawing regarding the dimensions you will find on page 31 (CB High Speed Hand chain block)



CB100 MOH

Technical data

Type	Load capacity	Standard lifting height*	Hand force, full load	Pulled chain for 1 m lift	Load chain diameter	Chain falls	Weight	Weight for additional 1 m lift
	kg	m	daN	m	mm		kg	kg
CB005	500	3.0	23.5	25	5.0 x 15.1	1	11.0	1.5
CB010	1,000	3.0	28.4	43	6.3 x 19.1	1	12.5	1.8
CB015	1,500	3.0	34.3	57	7.1 x 21.2	1	15.5	2.1
CB020	2,000	3.0	35.3	70	8.0 x 24.2	1	20.0	2.3
CB025	2,500	3.0	32.3	99	9.0 x 27.2	1	27.0	2.7
CB030	3,000	3.0	35.3	114	7.1 x 21.2	2	24.0	3.2
CB050	5,000	3.0	33.3	198	9.0 x 27.2	2	41.0	4.4
CB075	7,500	3.5	34.3	297	9.0 x 27.2	3	63.0	6.2
CB100	10,000	3.5	35.3	396	9.0 x 27.2	4	83.0	7.9
CB150	15,000	3.5	36.3	594	9.0 x 27.2	6	155.0	11.4
CB200	20,000	3.5	35.3 x 2	396 x 2	9.0 x 27.2	8	235.0	15.8
CB300	30,000	3.5	42.1 x 2	495 x 2	9.0 x 27.2	10	310.0	19.2
CB400	40,000	3.5	42.1 x 2	693 x 2	9.0 x 27.2	14	480.0	26.2
CB500	50,000	3.5	48.0 x 2	792 x 2	9.0 x 27.2	16	640.0	29.7

*Further standard lifting heights: 6.0 m e.g. 6.5 m. Further lifting heights on request.



Cap nuts
To protect the thread



Two retaining pawls
Each with double-pawl spring system for increased safety



Robust hook latch
For increased load-bearing capacity



Sealed bearings
To protect against dust and moisture

CB High Speed hand chain block

- ▶ Up to 50,000 kg load capacity
- ▶ Nickel-plated load chain grade T, series V (G100) in accordance with standard EN 818-7
- ▶ Shock-resistant double gear casing
- ▶ Planetary gear system enables seven-times-faster lifting when repositioning an unloaded hook (up to 10 % of WLL)
- ▶ Maintenance-free bearings
- ▶ Double-pawl spring system

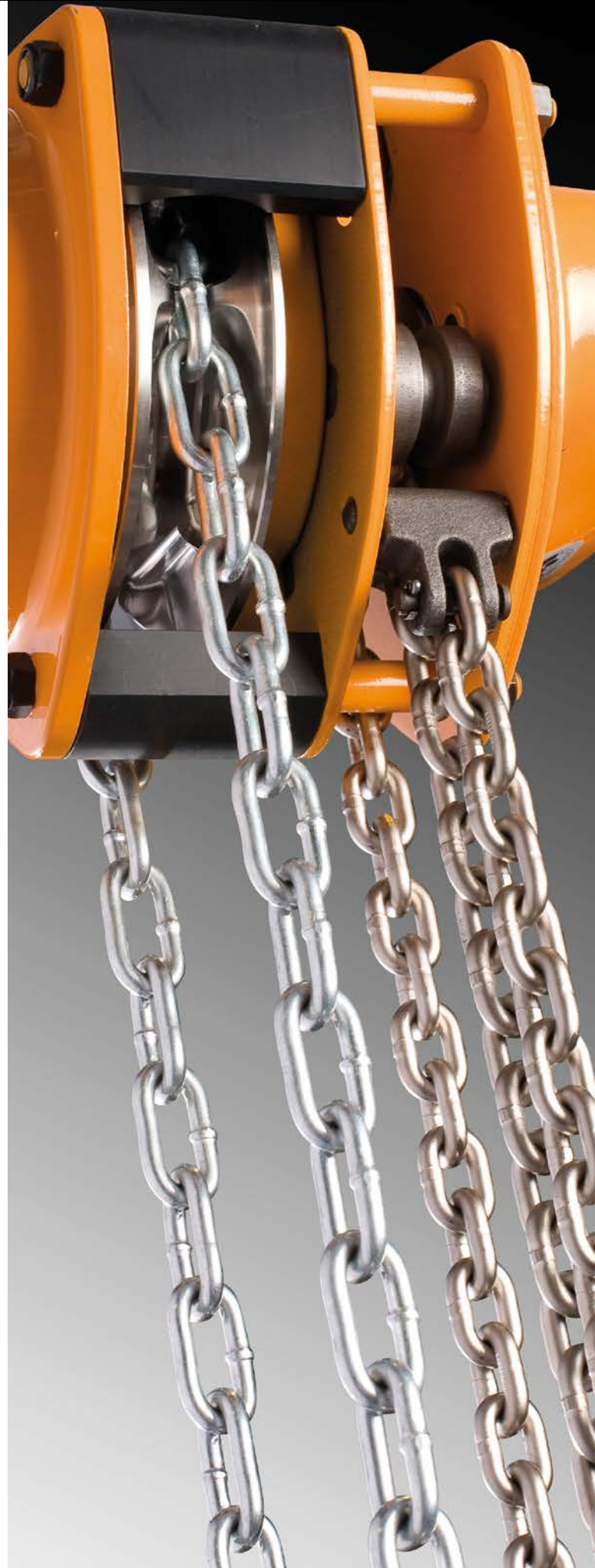


Automatic magnetic clutch technology

For reliable switching between normal and high-speed modes

Speed ratio of 7:1 when repositioning an unloaded hook

Unsurpassed high-speed operation when unloaded. With its specially developed automatic magnetic clutch technology, KITO has managed to achieve a sevenfold increase in lifting speed when repositioning an unloaded hook. A planetary gear system is located behind the brake to ensure total safety. Operating capacities under load correspond to CB standard specifications.



Increase your productivity and efficiency

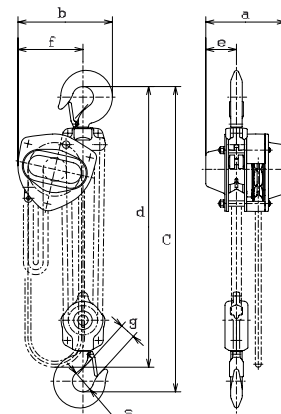
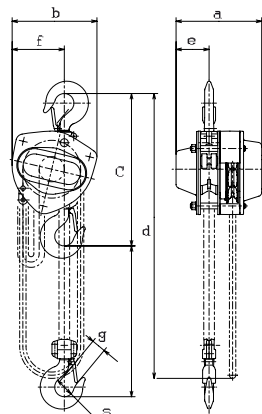


CB025 TSH

CB200 TSH

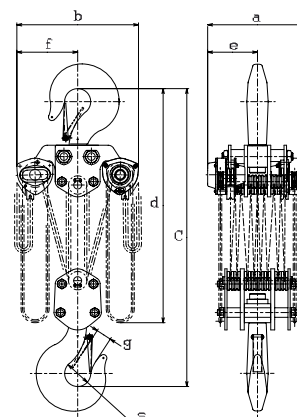
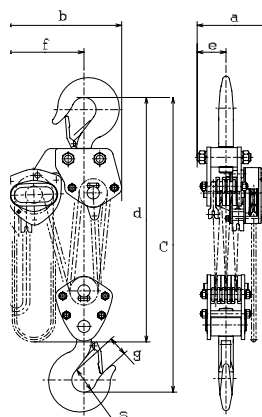
2,500 kg

5,000 kg



15,000 kg

50,000 kg



Technical data

Type	Load capacity	Standard lifting height	Hand chain length, folded	Hand force, full load	Pulled chain for 1 m lift		Load chain diameter	Minimum switching load	Weight	Weight for additional 1 m lift	Head-room C	Dimensions in mm							
					partial load	full load						a	b	d	e	f	g	s	
CB025	2,500	3.0	3.0	36.3	14	99	9.0 x 27.2	0.25 <	34	2.7	420	237	233	3000	91	143	40.0	53	
CB050	5,000	3.0	3.5	37.2	28	198	9.0 x 27.2	0.50 <	48	4.4	600	237	282	3600	91	194	46.5	63	
CB075	7,500	3.5	4.0	38.2	42	297	9.0 x 27.2	0.70 <	70	6.2	770	237	373	4200	91	253	72.5	85	
CB100	10,000	3.5	4.0	39.2	56	396	9.0 x 27.2	0.90 <	90	7.9	760	237	438	4200	111	308	72.5	85	
CB150	15,000	3.5	4.5	41.2	85	594	9.0 x 27.2	1.30 <	162	11.4	1020	313	492	4700	119	337	80.0	100	
CB200	20,000	3.5	4.5	39.2 x 2	56 x 2	396 x 2	9.0 x 27.2	1.80 <	249	15.8	1180	464	746	4800	232	373	81.0	110	
CB300	30,000	3.5	4.5	47.0 x 2	71 x 2	495 x 2	9.0 x 27.2	2.20 <	324	19.2	1300	494	746	4800	247	373	103.0	125	
CB400	40,000	3.5	4.5	48.0 x 2	99 x 2	693 x 2	9.0 x 27.2	2.90 <	ca. 494	26.2	1480	592	760	4900	296	380	96.0	145	
CB500	50,000	3.5	4.5	52.9 x 2	113 x 2	792 x 2	9.0 x 27.2	3.20 <	ca. 654	29.7	1560	634	796	4900	317	398	100.0	165	

**Extreme short
headroom**



SHB short headroom block

- ▶ Up to 10,000 kg load capacity
- ▶ Hand chain block integrated into trolley
- ▶ Extensive range of flange widths
- ▶ Shock-resistant gear casing
- ▶ High-performance mechanical brake
- ▶ Fall protection device and rubber bumpers
- ▶ Nickel-plated load chain grade T, series V (G100) in accordance with standard EN 818-7

Options

- ▶ Overload limiter (OLL)



Nickel-plated load chain

Grade T, series V (G100)
in accordance with
standard EN818-7,
Strength 1,000 N/mm²

Short headroom

Built-in lower block

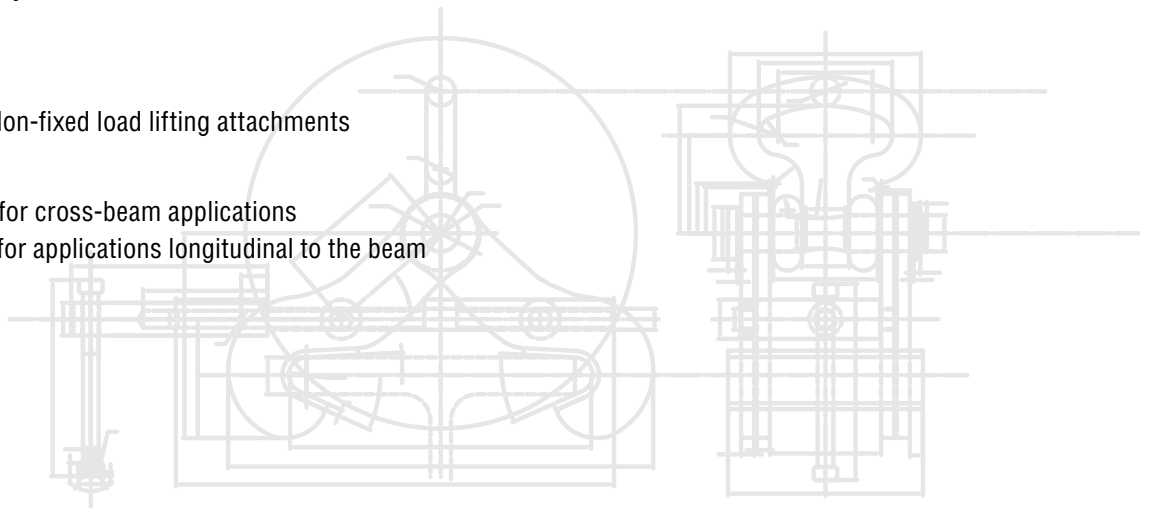
Technical data

Type	Load capacity	Standard lifting height	Hand chain length, folded	Hand force, full load, chain block	Hand force, full load, trolley	Flange width in mm		Load chain diameter	Chain falls	Weight	Weight for additional 1 m lift	Headroom C
	kg	m	m	daN	daN	Standard	W30	mm		kg	kg	mm
SHB010	1,000	3.0	3.0	31.4	3.2	58-163	164-305	5.0 x 15.1	2	67.0	3.0	115
SHB020	2,000	3.0	3.0	28.4	2.9	82-204	205-305	7.1 x 21.2	2	110.0	4.2	145
SHB030	3,000	3.0	3.0	36.3	3.7	82-204	205-305	8.0 x 24.2	2	160.0	4.6	165
SHB050	5,000	3.0	3.5	44.1	4.5	125-204	205-305	9.0 x 27.2	2	280.0	5.4	195
SHB075	7,500	3.5	4.0	45	3.6	150-220	221-305	9.0 x 27.2	4	366.0	10.8	255
SHB100	10,000	3.5	4.0	47	4.8	150-220	221-305	9.0 x 27.2	4	366.0	10.8	255



TK beam clamp

- ▶ Up to 10,000 kg load capacity
- ▶ Ergonomic design
- ▶ Shackle as standard
- ▶ In line with DIN EN 13155 Non-fixed load lifting attachments
- ▶ Shackle suitable for:
 - angle pulling up to 45° for cross-beam applications
 - angle pulling up to 15° for applications longitudinal to the beam
- ▶ Bolts – 10 % central taper

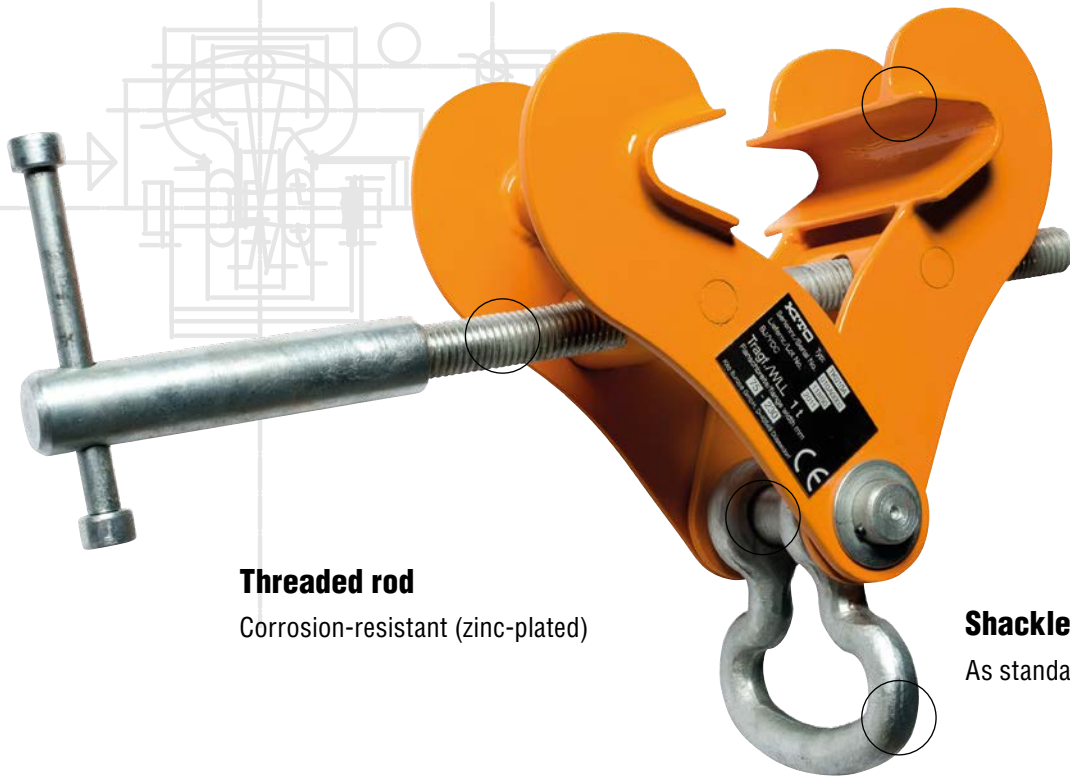


Tapering of the support bolt

Optimal centring of the hoist

Large contact areas

For improved load distribution

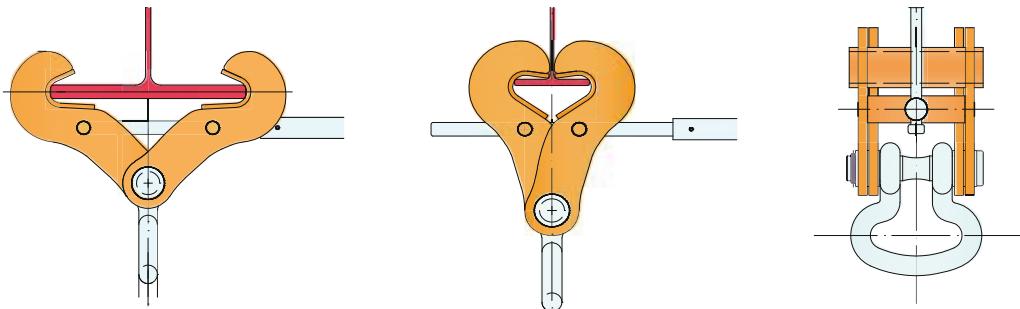


Threaded rod

Corrosion-resistant (zinc-plated)

Shackle

As standard



Technical data

Type	Load capacity kg	Flange width mm	Weight kg	Reduction in working load limits - Angle measured from the vertical - WLL reduction factor in %		Headroom mm
				longitudinal to the beam 0° - 15°	cross-beam applications 0° - 45°	
TK010A	1,000	75 - 230	4.0	0	0	207
TK020A	2,000	75 - 230	5.3	0	0	205
TK030A	3,000	75 - 230	9.0	0	0	254
TK030B	3,000	140 - 320	11.0	0	0	284
TK050A	5,000	75 - 230	11.0	0	0	265
TK050B	5,000	140 - 320	13.5	0	0	283
TK075A	7,500	90 - 320	20.0	0	0	328
TK100A	10,000	90 - 320	20.0	0	0	328

Warning! The beam clamps can only be used up to an angle of 15° longitudinal to the beam. Is the angle 15° the beam clamp may not be used.
For cross-beam applications the beam clamp can be used up to an angle of 45° without reduction to the working load if the beam fulfils the necessary conditions.



Electric chain hoists

ED

p. 38 - 39



EDC

p. 40 - 41



EQ & EQS

p. 42 - 49



ER2

p. 50 - 53



ER2 Limit Lock

p. 54 - 55



ER2 Stepless Speed

p. 56 - 57





ER2 Second Step Variable

p. 58 - 59



CDER2

p. 60 - 61



SHER2M

p. 62 - 65



TWER2M

p. 66 - 69



ED electric chain hoist



- ▶ Up to 480 kg load capacity
- ▶ 230 V / 50 Hz single-phase
- ▶ Hook suspension
- ▶ High-performance mechanical brake with friction clutch
- ▶ Range limit switch for lifting
- ▶ Single or dual lifting speed
- ▶ Weather-tight and corrosion-resistant
- ▶ Aluminium gear casing
- ▶ Nickel-plated load chain grade T, series DAT (G80) in accordance with standard EN 818-7

Options

- ▶ Radio remote control
- ▶ TMH plain trolley
- ▶ Universal trolleys in the TS range
 - TSG geared trolley (page 80 - 81)
 - TSP plain trolley (page 82 - 83)
- ▶ Foam hook protector



As option: TMH mini trolley



ED48



ED16

Compact, lightweight and reliable. Can be put into operation immediately.

Load capacities from 60 kg to 480 kg

480 kg capacity in double-chain design, available with conversion set

High-performance mechanical brake

With friction clutch

Nickel-plated load chain

Grade T, series DAT (G80) in accordance with standard EN818-7, Strength 800 N/mm²

High lifting speed, max. 20,1 m/min.

Lifting height up to 100 m

Technical data

Type	Load capacity	Chain falls	Rating	FEM classification	Lifting speed	Weight	Headroom C
	kg		% ED		m/min	kg	mm
ED06S	60	1	30	1Am	20.1	11.5	315
ED06ST	60	1	30	1Am	20.1/4.0	12	315
ED10S	100	1	30	1Am	12.5	11.5	315
ED10ST	100	1	30	1Am	12.5/3.0	12	315
ED16S	160	1	30	1Am	19.2	15.5	330
ED16ST	160	1	30	1Am	19.2/4.0	16	330
ED18S	180	1	20	1Am	7.7	11.5	315
ED18ST	180	1	20	1Am	7.7/3.0	12	315
ED24S	240	1	30	1Am	12.9	15.5	330
ED24ST	240	1	30	1Am	12.9/3.0	16	330
ED48S	480	2	30	1Am	6.4	21	520
ED48ST	480	2	30	1Am	6.4/2.0	21	520

Standard lifting height: 3 m for ED

S = Single Speed, ST = Dual Speed



EDC electric chain hoist with cylinder control

- ▶ Up to 240 kg load capacity
- ▶ 230 V / 50 Hz single-phase
- ▶ Hook suspension
- ▶ High-performance mechanical brake with friction clutch
- ▶ Range limit switch for lifting
- ▶ Weather-tight and corrosion-resistant
- ▶ Aluminium gear casing
- ▶ Nickel-plated load chain grade T, series DAT (G80) in accordance with standard EN 818-7

Options

- ▶ TMH plain trolley
- ▶ Universal trolleys from range
 - TSG geared trolley (page 80 – 81)
 - TSP plain trolley (page 82 – 83)

High-performance mechanical brake

With friction clutch

Nickel-plated load chain

Grade T, series DAT (G80) in accordance with standard EN818-7, Strength 800 N/mm²

Speed adjustment

Using potentiometer in push button pendant

Two lifting speeds as standard



EDC24

Removable load hook

Technical data

Type	Load capacity	Standard lifting height	Rating	FEM classification	Lifting speed	Weight	Headroom C
	kg	m	% ED		m/min	kg	mm
EDC06SD	60	1.8	30	1Am	20.1/4.0	14.5	945
EDC10SD	100	1.8	30	1Am	12.5/3.0	14.5	945
EDC16SD	160	1.8	30	1Am	19.2/4.0	11.5	960
EDC18SD	180	1.8	20	1Am	7.7/3.0	14.5	945
EDC24SD	240	1.8	30	1Am	12.9/3.0	18.5	960



EDC load hook



Cylinder control



Potentiometer



As option: TMH mini trolley



**Compact,
lightweight
and reliable.
Can be put
into operation
immediately.**

EQ & EQS electric chain hoist



EQ

380 - 440V
50 - 60Hz
3 phases

EQS

110V oder 220V - 240V
50 Hz
single phase



Frequency inverter as standard

For precise positioning of the load and
“No-load High-speed” function



“No-load High-speed” function

1.3 times faster lifting speed when lifting less than 30% of full load.
The EQS010IS even lifts due to its design 1.8 times faster
at a maximum of 30% of the nominal load



Unique nickel-plated load chain

Grade T, series DAT (G80) in accordance with standard EN 818-7. Less
wear and high corrosion resistance

Safety

- ▶ Frequency inverter controlled electronic overload protection and long-life friction clutch as mechanical overload protection
- ▶ Pull-rotor brake, extremely durable and reliable
- ▶ Operating hours counter / load cycle counter

Features

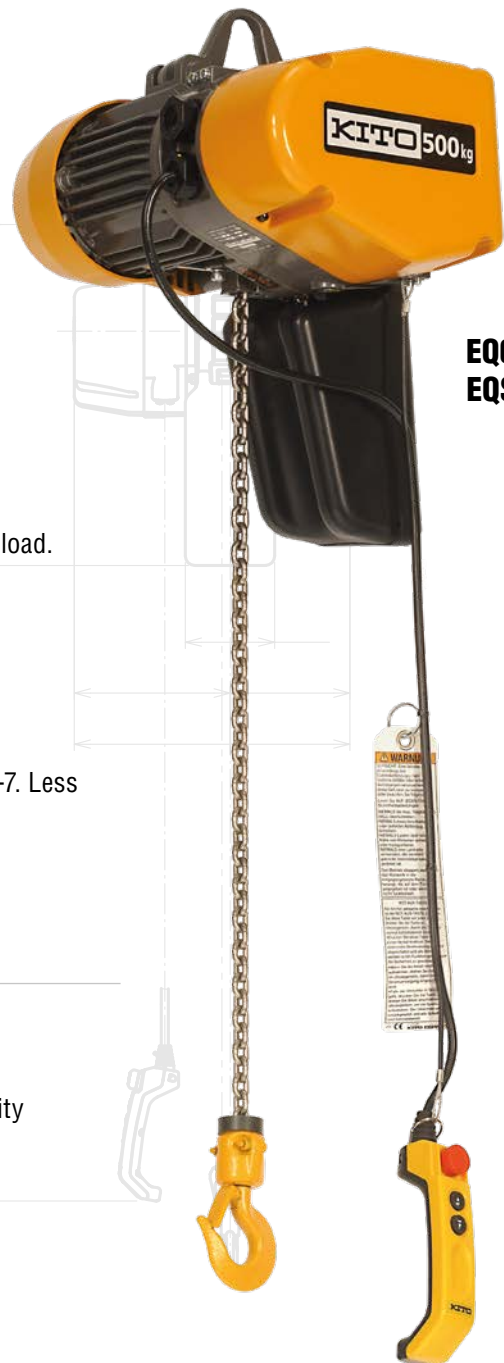
- ▶ 24 V control voltage
- ▶ Operating temperature -20° C up to +40° C, max. 85% humidity
- ▶ Compact aluminium body, sealed (IP55 rated)
- ▶ Eye suspension

Performance

- ▶ Dual lifting speed
- ▶ Up to 1,000 kg load capacity
- ▶ Maximum lifting height 15 m
- ▶ Upper and lower limit switch

Options

- ▶ Top hook
- ▶ Radio remote control
- ▶ Safety load hook
- ▶ Plain or motor trolley (EQS only plain trolley)



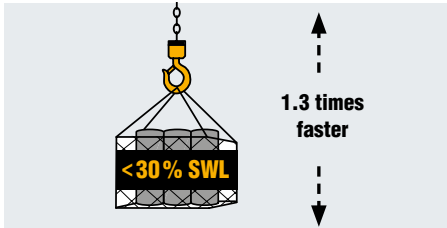
EQ005 /
EQS005

Radio remote control as option



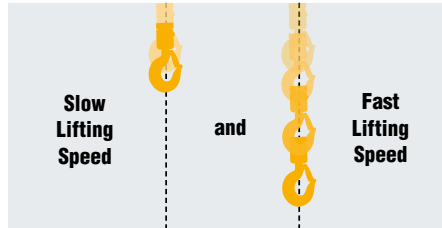
Benefits

“No-load High-speed” function



- ▶ 1.3 times faster lifting speed when lifting less than 30% of full load
- ▶ Improves work efficiency

Dual lifting speed with inverter



- ▶ High and low lifting speed
- ▶ Adjustable speed control
- ▶ Suitable for all work processes

Unique load chain



- ▶ Less wear
- ▶ Higher corrosion resistance
- ▶ Longer lifetime, less down-times

Frequenzumrichter



- ▶ Precise positioning
- ▶ Prevents load swing
- ▶ Increase safety
- ▶ Easy to use

Hohe FEM Klassifizierung



- ▶ Up to 500 kg load capacity FEM 3m / ISO M6
- ▶ 1,000 kg load capacity FEM 2m / ISO M5
- ▶ High durability and reliability

Zuverlässig



- ▶ Sealed die-cast aluminum body, IP55 rated
- ▶ No transformer, no electromagnetic components like contactors, relays, etc.

Optional suspensions



Top hook



Plain trolley

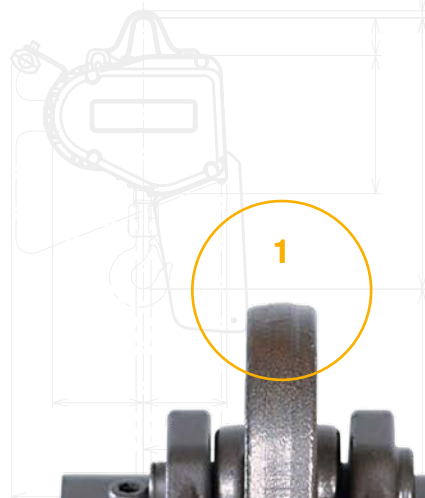


Motor trolley (only EQ)

EQ & EQS Product description

1. Eye suspension

Offers low headroom. Suitable also for enclosed profile trolley applications. Easily changed to optional top hook.



2. Load hook

With robust hook latch. Pivots by 360° provided by high quality ball bearings to avoid kinking and twisting of the load chain.

3. Compact die-cast aluminium body

Lightweight and completely sealed body, IP 55 rated. Compact design offers a low headroom.

4. Advanced pull-rotor brake

Extremely durable and reliable. Contains no brake coil to fail like conventional disc brakes.

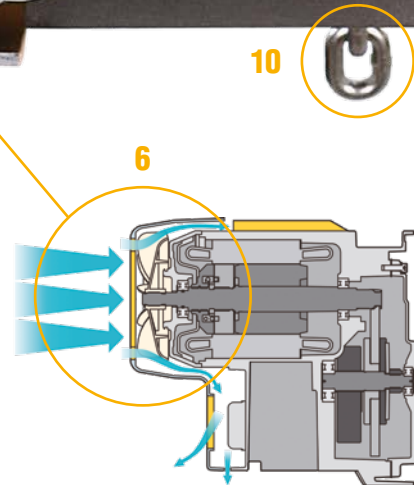
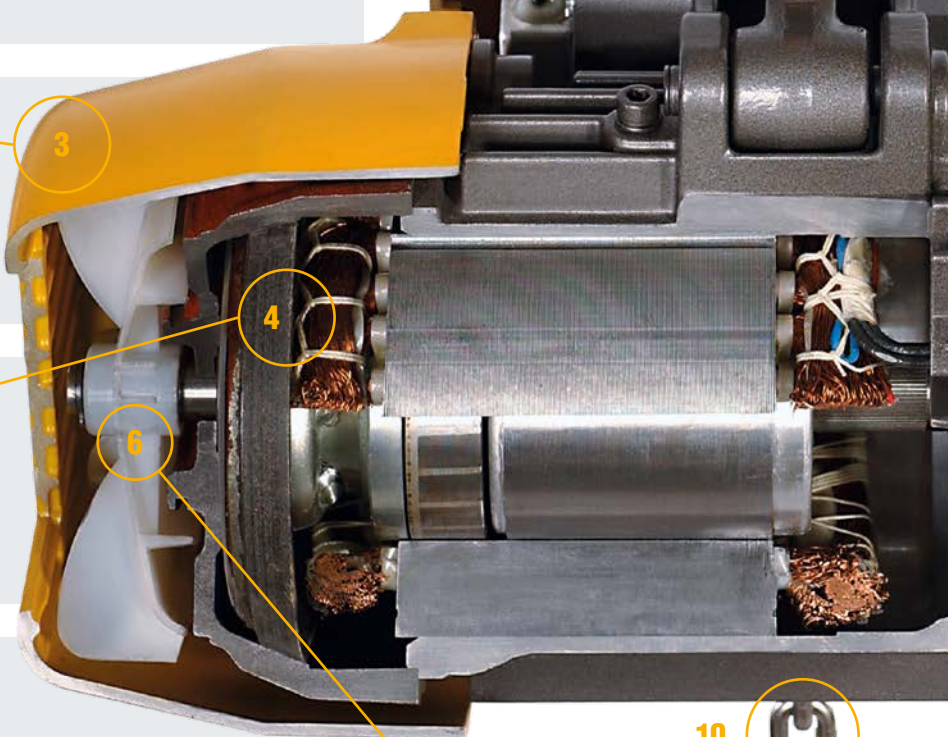


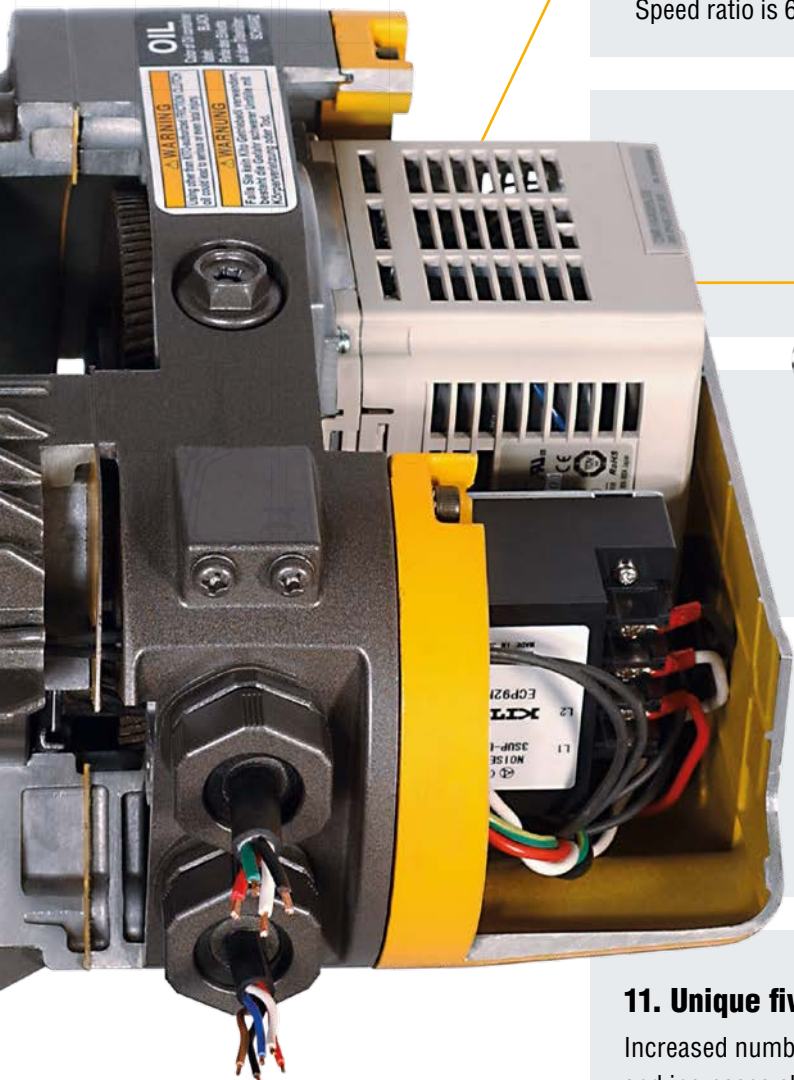
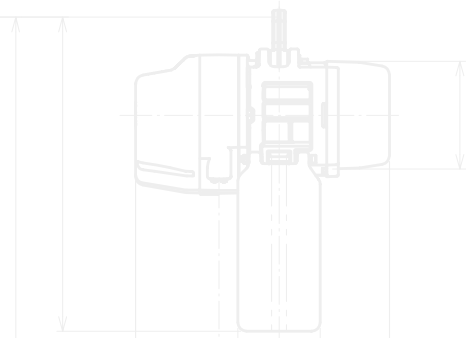
5. Push button pendant

Ergonomic design. Easy-to-use in one-handed operation. IP65 rated. With emergency-stop button.

6. Fan-cooled motor

Heavy duty motor with external fan, cooling fins and external thermal motor protection. Improved air flow guarantees an optimized hoist duty rating and greatly lengthens brake life.





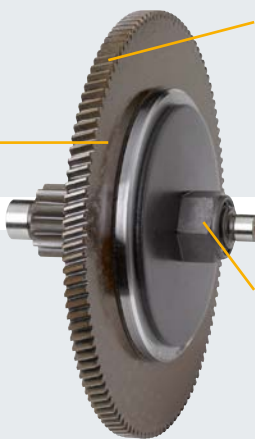
7. Frequency inverter

Provides adjustable dual lifting speed, overload protection, “No-load high-speed” function and operating hours counter. Speed ratio is 6:1.



8. Helical gears

Precision machined components guarantees quiet and smooth operation.



9. Long-life friction clutch

Provides consistent overload protection. Prevents damages of hoist and load.

10. Unique Nickel-plated load chain

Grade T, series DAT (G80) in accordance with standard EN818-7, strength 800 N/mm². Less wear and higher corrosion resistance.

11. Unique five pocket design

Increased number of pockets reduces chain vibration and increases chain life. Five pockets as standard.



12 + 13



12. Chain guide

Provides smooth and quiet guiding of chain. Heavy cast iron construction for improved wear resistance.

13. Upper & lower limit switch

Robust micro switches. Low-profile design for an optimized headroom.

Suspension eye

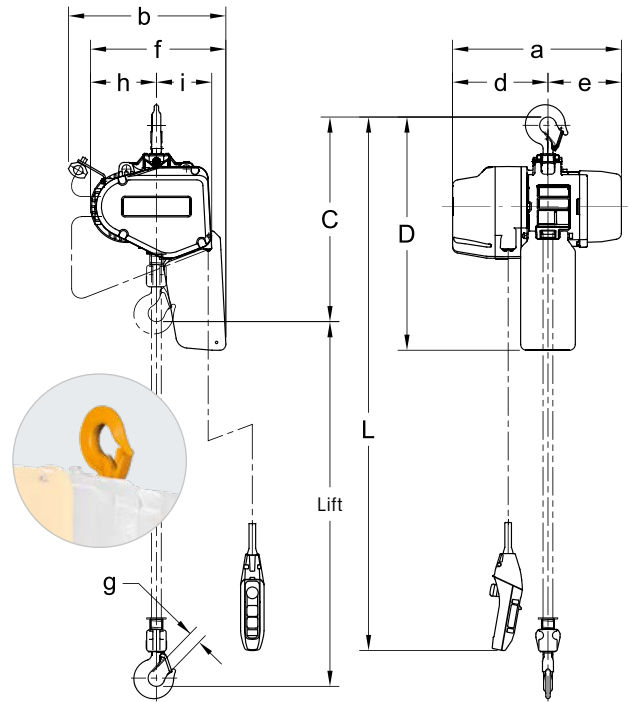
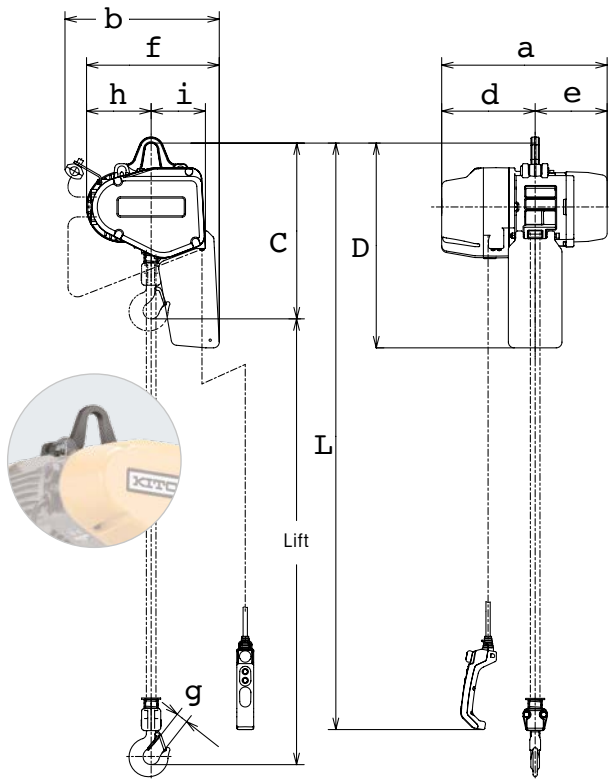
EQ

EQS

Top hook

EQ

EQS



Dimensions EQ / EQS

Basic	Type	Load capacity kg	Headroom C (mm)				Dimensions (mm)							
			C top hook	C suspension eye	D top hook	D suspension eye	a	b	d	e	f	g	h	i
EQ	EQ001IS	125	440	395	533	485	417	367	230	187	298	27	137	128
EQ	EQ003IS	250	440	395	533	485	417	367	230	187	298	27	137	128
EQ	EQ005IS	500	458	410	533	485	417	367	230	187	298	27	137	128
EQ	EQ010IS	1,000	525	465	598	535	433	403	245	188	332	31	154	142
EQS	EQS005IS	500	458	410	533	485	417	367	230	187	298	27	137	128
EQS	EQS010IS	1,000	525	465	598	535	433	403	245	188	332	31	154	142

Technical Data EQ / EQS

Basic	Type	Load capacity kg	Body size	Standard lifting height m	Lifting motor		Lifting speed, m / min			Load chain diameter mm	Chain falls	Classification FEM	Weight kg	Headroom C mm
					Output, kW	Rating, % ED	High (light load), 0 - 30%	High, 30 - 100%	Low					
EQ	EQ001IS	125	C	3	0.5	40 / 20	22.0	17.0	2.8	5.6 x 15.7	1	3m	32	395
EQ	EQ003IS	250	C	3	0.5	40 / 20	13.0	10.0	1.7	5.6 x 15.7	1	3m	31	395
EQ	EQ005IS	500	C	3	0.75	40 / 20	9.9	7.6	1.3	5.6 x 15.7	1	3m	32	410
EQ	EQ010IS	1,000	D	3	1.5	40 / 20	9.2	7.1	1.2	7.1 x 19.9	1	2m	42	465
EQS	EQS005IS	500	C	3	0.75	40 / 20	9.9*	7.6*	1.3	5.6 x 15.7	1	3m	33	410
EQS	EQS010IS	1,000	D	3	1.5	40 / 20	9.2**	5.1**	1.2	7.1 x 19.9	1	2m	43	465

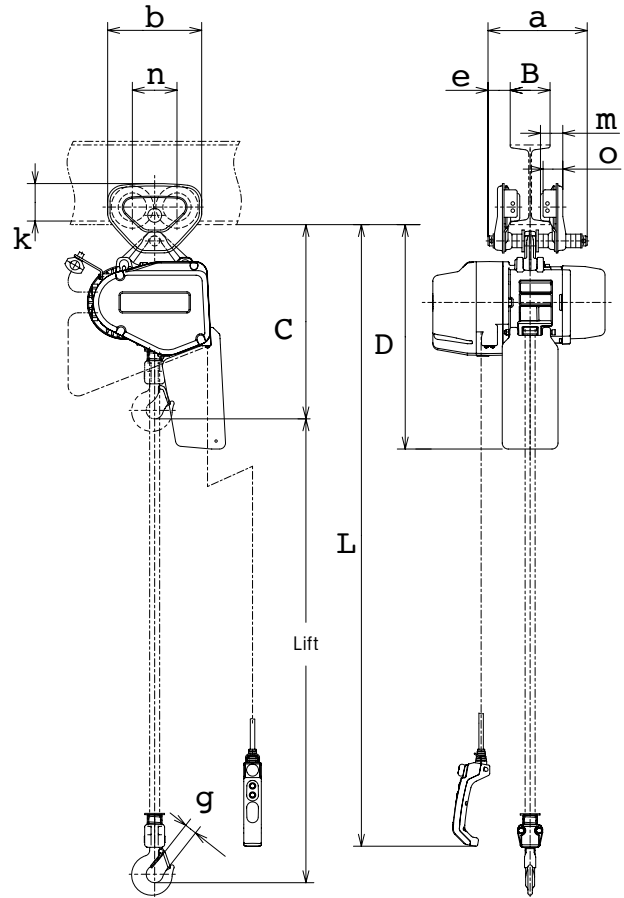
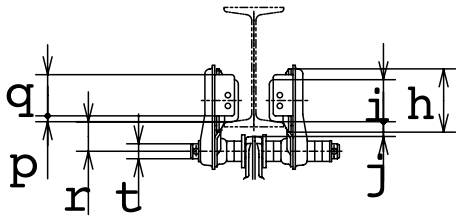
*% of full load, EQS005 speed ratio 6:1.

**EQS010 speed ratio 4:1, 1.8 times faster lifting speed when lifting less than 30% of full load.

Plain trolley

EQ

EQS



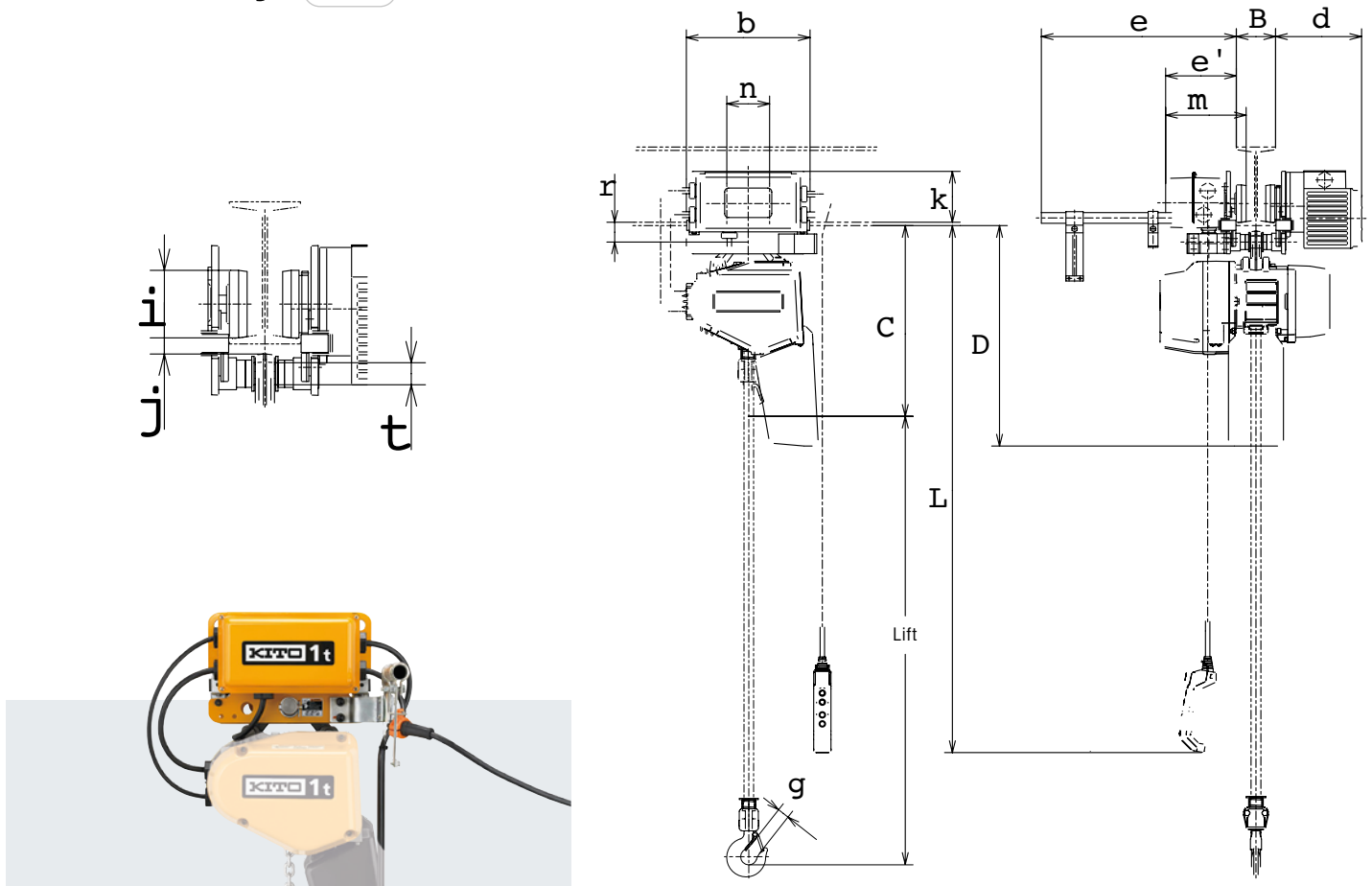
Dimensions EQ / EQS with plain trolley

Basic	Type	Load capacity	Dimensions (mm)																
			kg	C	D	a	b	e	g	h	i	j	k	m	n	o	p	q	r
EQ	EQSP001IS	125	415	505	204	182	46	27	82	60	19	76	47.5	84	42	10	54	38	22
EQ	EQSP003IS	250	415	505	204	182	46	27	82	60	19	76	47.5	84	42	10	54	38	22
EQ	EQSP005IS	500	430	505	204	182	46	27	82	60	19	76	47.5	84	42	10	54	38	22
EQ	EQSP010IS	1,000	490	565	249	236	56	31	106	71	25	95	56	112	50	10	69	50	25
EQS	EQSSP005IS	500	430	505	204	182	46	27	82	60	19	76	47.5	84	42	10	54	38	22
EQS	EQSSP010IS	1,000	490	565	249	236	56	31	106	71	25	95	56	112	50	10	69	50	25

Technical Data EQ / EQS with plain trolley

Basic	Type	Flange width B		Min. curve radius		Headroom C
		Standard (mm)	Option W30 (mm)	Standard (mm)	Option W30 (mm)	
EQ	EQSP001IS	50 - 163	164 - 305	1,150	1,200	415
EQ	EQSP003IS	50 - 163	164 - 305	1,150	1,200	415
EQ	EQSP005IS	50 - 163	164 - 305	1,150	1,200	430
EQ	EQSP010IS	58 - 163	164 - 305	1,350	1,400	490
EQS	EQSSP005IS	50 - 163	164 - 305	1,150	1,200	430
EQS	EQSSP010IS	58 - 163	164 - 305	1,350	1,400	490

Motor trolley EQ



Dimensions EQ with motor trolley

Basic	Type	Load capacity kg	Dimensions (mm)													
			C	D	b	d	e	e'	g	i	j	k	m	n	r	t
EQ	EQM001IS-IS	125	420	515	315	220	515	179	27	95	27	130	205	109	51	31
EQ	EQM003IS-IS	250	420	515	315	220	515	179	27	95	27	130	205	109	51	31
EQ	EQM005IS-IS	500	440	515	315	220	515	179	27	95	27	130	205	109	51	31
EQ	EQM010IS-IS	1,000	490	565	315	220	515	179	31	95	22	130	205	109	51	31

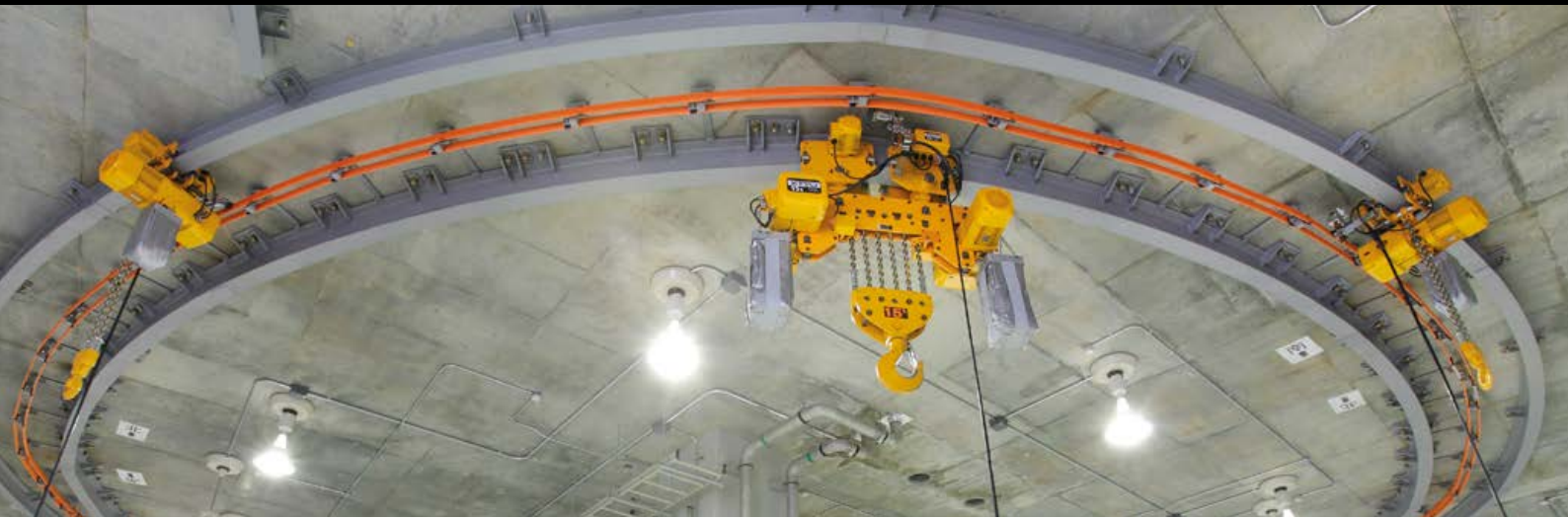
Technical data EQ with motor trolley

Basic	Type	Travel motor		*Travel speed (m/min)			Flange width B		Min. curve radius mm	Headroom C mm
		Output (kW)	Output (% ED)	50 Hz		Standard mm	Option W30 mm			
				High	Low					
EQ	EQM001IS-IS	0.4	27/13	Standard	24	4	58 - 163	164 - 305	800	420
EQ	EQM003IS-IS	0.4	27/13	Standard	24	4	58 - 163	164 - 305	800	420
EQ	EQM005IS-IS	0.4	27/13	Standard	24	4	58 - 163	164 - 305	800	440
EQ	EQM010IS-IS	0.4	27/13	Standard	24	4	58 - 163	164 - 305	800	490

*Adjustable travel speed: 24 / 2.4

EQ003IS
with Plastic
chain container





ER2 electric chain hoist

- ▶ Up to 20,000 kg load capacity
- ▶ 380 - 440 V / 50 Hz
- ▶ 24 V control voltage
- ▶ Single or dual lifting speed
- ▶ Frequency inverter for dual lifting speeds
- ▶ Overload limiter thanks to carbon friction clutch
- ▶ Operating hours counter / load cycle counter
- ▶ Range limit switch for lifting / lowering
- ▶ Thermal motor protection
- ▶ Nickel-plated load chain grade T, series DAT (G80) in accordance with standard EN 818-7

Options

- ▶ Radio remote control
- ▶ Limit lock = programmable limit switch to restrict and define the hook path when lifting and lowering (page 54 – 55)
- ▶ Stepless speed control (page 56 – 57)
- ▶ Plain, geared or motorised trolley (page 80 – 85)
- ▶ Special voltages on request



ER2SP



ER2SG



ER2M



ER2M 100 S



ER2 100 S

Durable, safe and user-friendly



Chain container

In plastic or canvas, depending on lifting height



ER2 003

Push button pendant
Ergonomic design

Device suspension

Top hook or connector can be easily assembled and disassembled (except with body F)

Die-cast aluminium body

With stable structure

Nickel-plated load chain

Grade T, series DAT (G80) in accordance with standard EN818-7, Strength 800 N/mm²

Load hook

Pivots by 360° to avoid kinking and twisting of the load chain

Chain container

Type	Load capacity	Plastic chain container	Canvas chain container S	Canvas chain container L
	kg	m	m	m
ER2-001	125	6	8	15
ER2-003	250	6	8	15
ER2-005	500	6	8	15
ER2-010	1,000	6	8	15
ER2-016	1,600	4	12	18
ER2-020	2,000	4	12	18
ER2-025	2,500	–	8	12

Type	Load capacity	Plastic chain container	Canvas chain container S	Canvas chain container L
	kg	m	m	m
ER2-032	3,200	–	6	9
ER2-050	5,000	–	4	6
ER2-075	7,500	–	4	8
ER2-100	10,000 L	–	3	6
ER2-100	10,000 S	–	6	2 x 6
ER2-150	15,000	–	4	2 x 4
ER2-200	20,000	–	3	2 x 3

Product design and explanation

1. Electromagnetic brake

Ensures powerful braking and holds the load securely

2. Thermal overload limiter

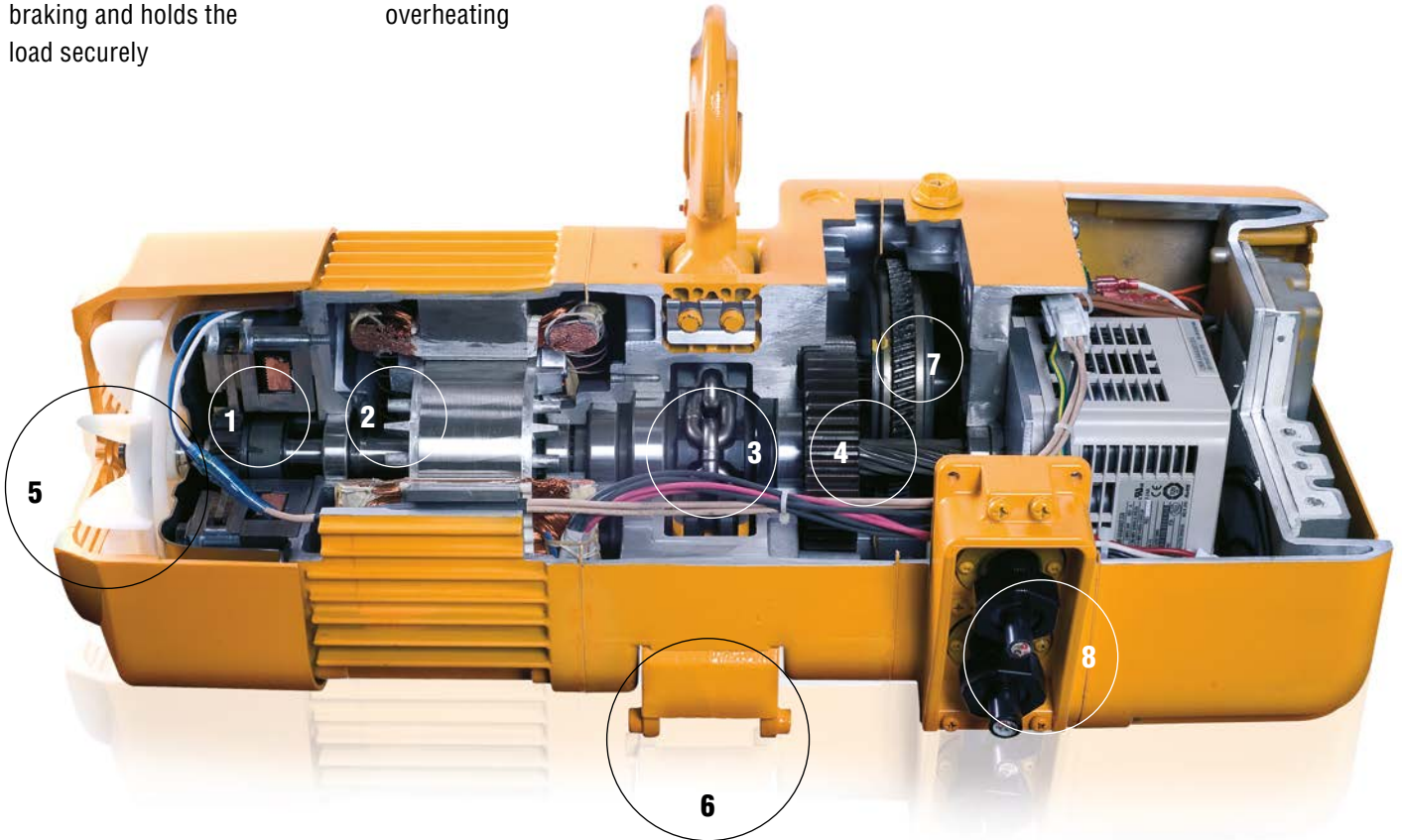
Prevents the motor from overheating

3. Chain guide

Uniquely structured to ensure even running

4. Gearbox

Helical gears reduce operating noise



5. Fan cooling

The combination of the aluminium die-cast body and fan system ensure optimum cooling

6. Upper / lower limit switch

Stops the hook when the highest or lowest position has been reached

7. Friction clutch

To protect the components subject to stress against overloading

8. Direct cabling

Internal connectors make it easier to connect the device



Operating hours counter / load cycle counter built into frequency inverter

The display of operating data allows maintenance intervals to be planned effectively.

Technical data

Type	Load capacity kg	Body size	Lifting motor		Lifting speed (m/min)*			Load chain diameter mm	Chain falls	Classification FEM/ISO	Headroom C mm	Weight kg	Weight for additional 1 m lift kg
			Out-put, kW	Rating (% ED)	50 Hz								
					High	Low							
ER2-001IH	125	B	0.56	40/20	Standard	16.6	2.8	4.3	1	3m/M6	350	27	0.42
			0.56	40/20	Adjustable	16.6	1.4						
ER2-003IS	250	B	0.56	40/20	Standard	10.8	1.8	4.3	1	3m/M6	350	27	0.42
			0.56	40/20	Adjustable	10.8	0.9						
ER2-003IH	250	C	0.9	40/20	Standard	15.7	2.6	6.0	1	3m/M6	370	36	0.81
			0.9	40/20	Adjustable	15.7	1.3						
ER2-005IL	500	C	0.56	40/20	Standard	4.5	0.8	6.0	1	3m/M6	370	32	0.81
			0.56	40/20	Adjustable	4.5	0.4						
ER2-005IS	500	C	0.9	40/20	Standard	8.5	1.4	6.0	1	3m/M6	370	36	0.81
			0.9	40/20	Adjustable	8.5	0.7						
ER2-010IL	1,000	D	0.9	40/20	Standard	4.2	0.7	7.7	1	2m/M5	430	45	1.33
			0.9	40/20	Adjustable	4.2	0.3						
ER2-010IS	1,000	D	1.8	40/20	Standard	82	1.4	7.7	1	2m/M5	430	52	1.33
			1.8	40/20	Adjustable	8.2	0.7						
ER2-016IS	1,600	E	1.8	40/20	Standard	5.3	0.9	10.2	1	2m/M5	510	72	2.3
			1.8	40/20	Adjustable	5.3	0.4						
ER2-020IL	2,000	E	1.8	40/20	Standard	4.3	0.7	10.2	1	1Am/M4	575	73	2.3
			1.8	40/20	Adjustable	4.3	0.4						
ER2-020IS	2,000	E	3.5	40/20	Standard	8.2	1.4	10.2	1	1Am/M4	590	89	2.3
			3.5	40/20	Adjustable	8.2	0.7						
ER2-025IS	2,500	F	3.5	40/20	Standard	6.6	1.1	11.2	1	1Am/M4	625	100	2.8
			3.5	40/20	Adjustable	6.6	0.6						
ER2-032IS	3,200	E	3.5	40/20	Standard	5.2	0.9	10.2	2	1Am/M4	785	105	4.7
			3.5	40/20	Adjustable	5.2	0.4						
ER2-050IS	5,000	F	3.5	40/20	Standard	3.3	0.6	11.2	2	1Am/M4	850	128	5.6
			3.5	40/20	Adjustable	3.3	0.3						
ER2-100IS	10,000	F	3.5	40/20	Standard	3.3	0.6	11.2	4	1Am/M4	1,370	303	11.0
			3.5	40/20	Adjustable	3.3	0.3						
ER2-150IS	15,000	F	3.5	40/20	Standard	2.2	0.4	11.2	6	1Am/M4	1,595	404	17.0
			3.5	40/20	Adjustable	2.2	0.2						
ER2-200IS	20,000	F	3.5	40/20	Standard	1.7	0.3	11.2	8	1Am/M4	1,710	476	22.0
			3.5	40/20	Adjustable	1.7	0.15						

*Please note: The high speed is preset to the maximum speed in KITO factory. The speed is adjustable between high and low. Higher load capacities on request.



ER2 Limit Lock electric chain hoist

- ▶ Up to 5,000 kg load capacity

Individual programmable hook position limits

- ▶ **Easily adjusted using push button control**
- ▶ **Special limit lock feature**
Easily programmable stopping positions for the load
- ▶ **Standard ER2 electro-mechanical switches**
For upper most and lower most travel; plus “soft” limits for preset travel stops
- ▶ **Two positions**
One upper and lower limit position
- ▶ **Improved productivity and efficiency in operation**
The operator can easily lift or lower to the perfect position every time

Setting method

Setting the upper-limit position

- ▶ Stop the hook at the desired upper-limit position
- ▶ Press the EMERGENCY STOP button
Then, hold down the UP button (1st step) for 5 seconds

Setting the lower-limit position

- ▶ Stop the hook at the desired lower-limit position
- ▶ Press the EMERGENCY STOP
Then hold down the DOWN button (1st step) for 5 seconds

Upper limit position

Individual adjustable upper and lower limit switches. Automatically decelerate to low-speed operation before reaching a limit position.

Automatic speed-reducing operation

Lower limit position

To cancel the programmed limit position is every time possible

Cancelling the upper-limit position

- ▶ Press the EMERGENCY STOP button
- ▶ Hold down the UP button for 5 seconds

Cancelling the lower-limit position

- ▶ Press the EMERGENCY STOP button
- ▶ Hold down the DOWN button for 5 seconds

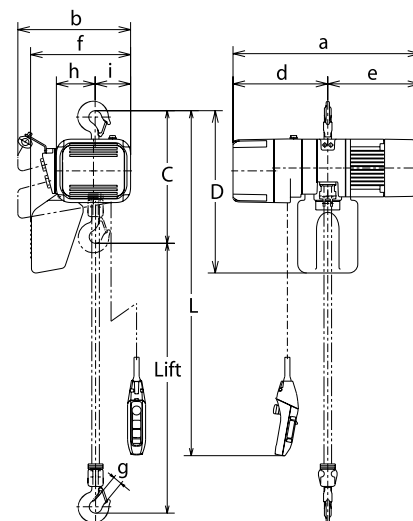
Technical data

Type	Load capacity kg	Body size	Lifting height m	Control cable m	Lifting motor		Lifting speed* (m/min)			Load chain diameter mm	Chain falls	Classification FEM/ISO	Head-room C mm	Weight kg	Weight for additional 1 m lift kg
					Out-put, kW	Rating (% ED)	50 Hz								
							High	Low							
ER2-001IH	125	B	3	2.5	0.56	40/20	Standard	16.6	2.8	4.3	1	3m/M6	350	27	0.42
							Adjustable	16.6	1.4						
ER2-003IS	250	B	3	2.5	0.56	40/20	Standard	10.8	1.8	4.3	1	3m/M6	350	27	0.42
							Adjustable	10.8	0.9						
ER2-003IH	250	C	3	2.5	0.9	40/20	Standard	15.7	2.6	6.0	1	3m/M6	370	36	0.81
							Adjustable	15.7	1.3						
ER2-005IL	500	C	3	2.5	0.56	40/20	Standard	4.5	0.8	6.0	1	3m/M6	370	32	0.81
							Adjustable	4.5	0.4						
ER2-005IS	500	C	3	2.5	0.9	40/20	Standard	8.5	1.4	6.0	1	3m/M6	370	36	0.81
							Adjustable	8.5	0.7						
ER2-010IL	1,000	D	3	2.5	0.9	40/20	Standard	4.2	0.7	7.7	1	2m/M5	430	45	1.33
							Adjustable	4.2	0.3						
ER2-010IS	1,000	D	3	2.5	1.8	40/20	Standard	8.2	1.4	7.7	1	2m/M5	430	52	1.33
							Adjustable	8.2	0.7						
ER2-016IS	1,600	E	3	2.5	1.8	40/20	Standard	5.3	0.9	10.2	1	2m/M5	510	72	2.3
							Adjustable	5.3	0.4						
ER2-020IL	2,000	E	3	2.5	1.8	40/20	Standard	4.3	0.7	10.2	1	1Am/M4	575	73	2.3
							Adjustable	4.3	0.4						
ER2-020IS	2,000	E	3	2.5	3.5	40/20	Standard	8.2	1.4	10.2	1	1Am/M4	590	89	2.3
							Adjustable	8.2	0.7						
ER2-025IS	2,500	F	3	2.5	3.5	40/20	Standard	6.6	1.1	11.2	1	1Am/M4	625	100	2.8
							Adjustable	6.6	0.6						
ER2-032IS	3,200	E	3	2.8	3.5	40/20	Standard	5.2	0.9	10.2	2	1Am/M4	785	105	4.7
							Adjustable	5.2	0.4						
ER2-050IS	5,000	F	3	2.8	3.5	40/20	Standard	3.3	0.6	11.2	2	1Am/M4	850	128	5.6
							Adjustable	3.3	0.3						

*Please note: The high speed is preset to the maximum speed in KITO factory. The speed is adjustable between high and low. Higher load capacities on request.

Type	Load capacity kg	Dimensions (mm)								
		D	a (MFC*)	b	d (MFC*)	e (MFC*)	f	g	h	i
ER2-001IH	125	430	535 (564)	345	276 (305)	259	284	27	99	117
ER2-003IS	250	430	535 (564)	345	276 (305)	259	284	27	99	117
ER2-003IH	250	430	568 (593)	348	300 (325)	268	283	27	113	106
ER2-005IL	500	490	571 (598)	348	300 (325)	271 (273)	283	27	113	106
ER2-005IS	500	490	568 (593)	348	300 (325)	268	283	27	113	106
ER2-010IL	1,000	550	614 (632)	376	316 (332)	298 (300)	335	31	129	118
ER2-010IS	1,000	550	623 (639)	376	316 (332)	307	335	31	129	118
ER2-016IS	1,600	630	710 (737)	427	372 (397)	338 (340)	384.5	34	160.5	137.5
ER2-020IL	2,000	630	710 (737)	427	372 (397)	338 (340)	384.5	39	160.5	137.5
ER2-020IS	2,000	630	767 (782)	427	411 (426)	356	384.5	39	160.5	137.5
ER2-025IS	2,500	840	800 (826)	445	401 (427)	399	437.5	39	173.5	142.5
ER2-032IS	3,200	920	767 (782)	427	411 (426)	356	397	44	216	82
ER2-050IS	5,000	920	800 (826)	445	401 (427)	399	439	47	231.5	84.5

*With additional, mechanical brake.



**Variable speed
for ultimate
load control**



ER2 Stepless Speed electric chain hoist

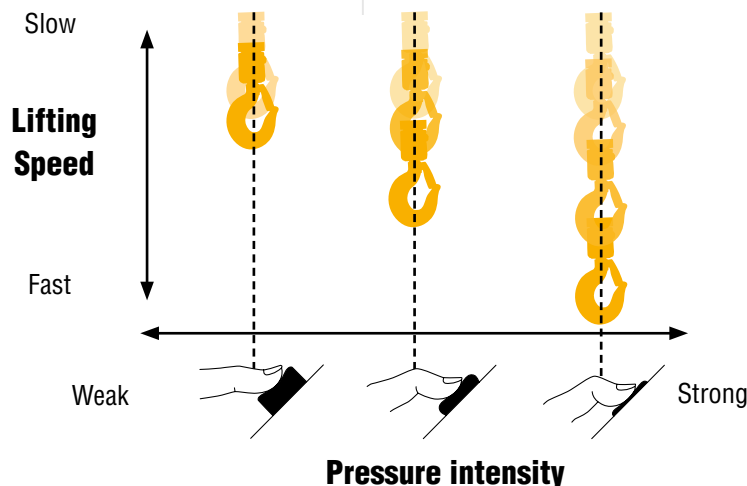


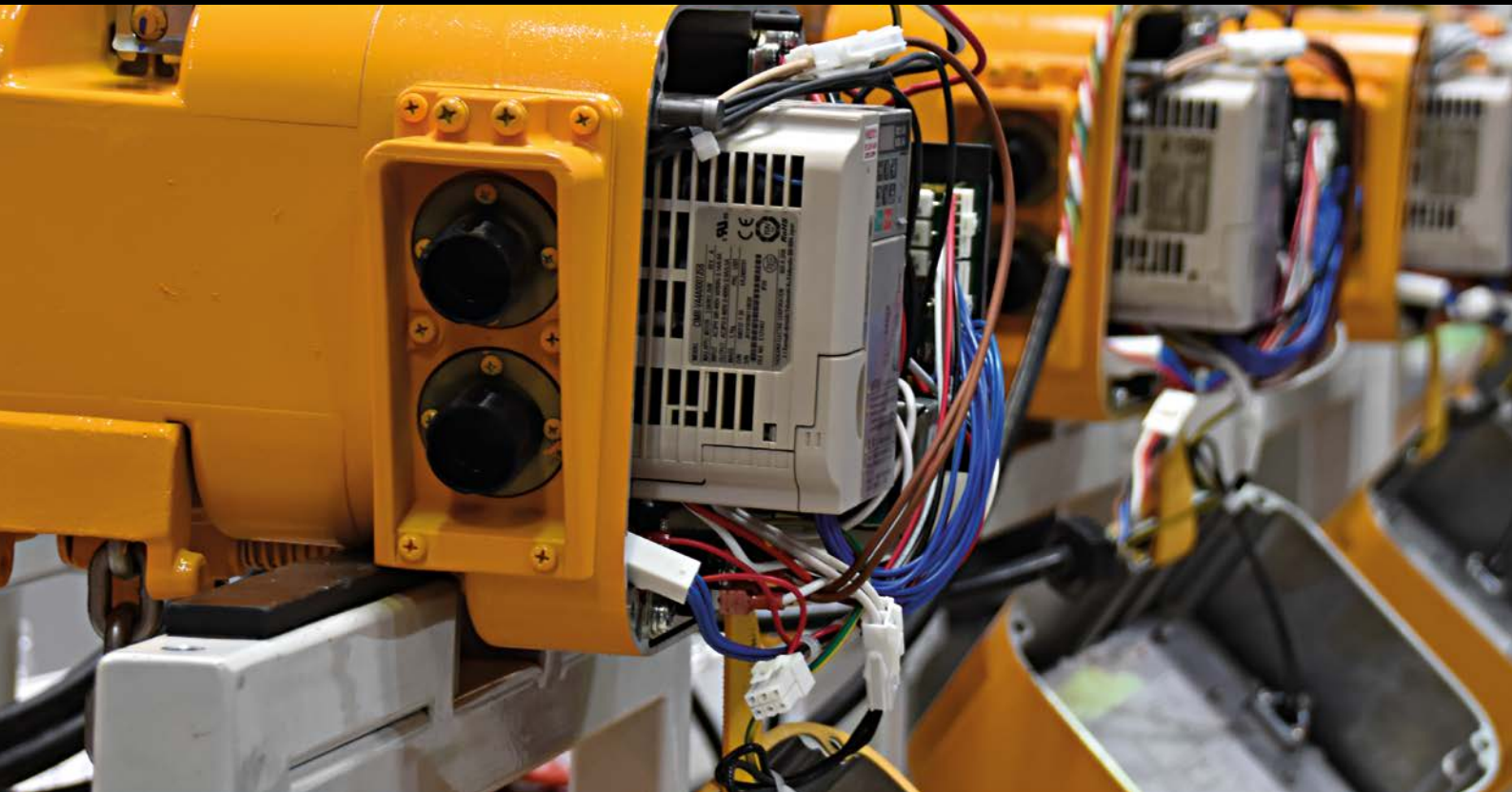
- ▶ Up to 20,000 kg load capacity

Infinitely variable speed control

- ▶ **Variable speed control functions**
High performance speed control for the KITO ER2 dual speed inverter type and a special push button control
- ▶ **Operation advantages**
The further the operator depresses the push button, the faster the hoist lifts or lowers
- ▶ **Maximum lifting speed range**
Acceleration and deceleration with a 1:6 ratio of maximum lifting speed
- ▶ **Constant speed at any point**
Maximum control of the load enabling safe and efficient hoisting operations
- ▶ **Consistent speed control function**
Variable speed features for lifting and lowering operation
- ▶ Available with manual or motorized trolleys
- ▶ Ideal for galvanizing or dipping operations

i **Technical data and dimensions**
Please find the information on page 55.





ER2 Second Step Variable

► Electric Chain Hoist with up to 20.000 kg load capacity

When the pushbutton is released from the second step to the first step, the speed that was in effect at the time before the maximum speed was reached is maintained.

The KITO ER2 can therefore be operated at will between the low and maximum speed. To return to the 1st step or slower speed, the pushbutton must be released completely and pressed again.

2. Step



Constant
Speed

1. Step

Acceleration

**Control switch
for variable
lifting speed**

in the second step



Features

- ▶ 380 – 440 V | 50 Hz / 60 Hz
- ▶ 24 V Control voltage
- ▶ Dual lifting speed – Second Step Variable
- ▶ Frequency inverter
- ▶ Overload limiter thanks to carbon friction clutch
- ▶ Operating hours counter / load cycle counter
- ▶ Range limit switch for lifting / lowering
- ▶ Thermal motor protection
- ▶ Nickel-plated load chain grade T, series DAT (G80) in accordance with standard EN 818-7
- ▶ Standard ER2 can be modified into Second Step Variable



Device suspension
Top hook or connector can be easily assembled and disassembled



Control switch
2-step pushbutton with powerful frequency inverter



Load hook
Pivots by 360° to avoid kinking and twisting of the load chain



Chain container
In plastic or canvas, depending on lifting height

Advantages



2 Step Push Button & Frequency Inverter

As with the ER2 Standard Dual Speed, this control function uses a 2-step pushbutton and a powerful KITO ER2 frequency inverter.



Smooth deceleration with delay time

If the pushbutton is released completely at any step, the KITO ER2 brakes quickly with a delay time. The deceleration speed is fixed and cannot be changed.



Smooth acceleration

Pressing the pushbutton from the first to the second step, causes a smooth and optimal acceleration time from minimum to maximum speed.



Individual acceleration rate & stroke speed

The KITO ER2 in Second Step Variable mode also allows the acceleration rate to be changed using the frequency inverter.



Check out the video of the **SECOND STEP VARIABLE** for even more flexibility in handling:

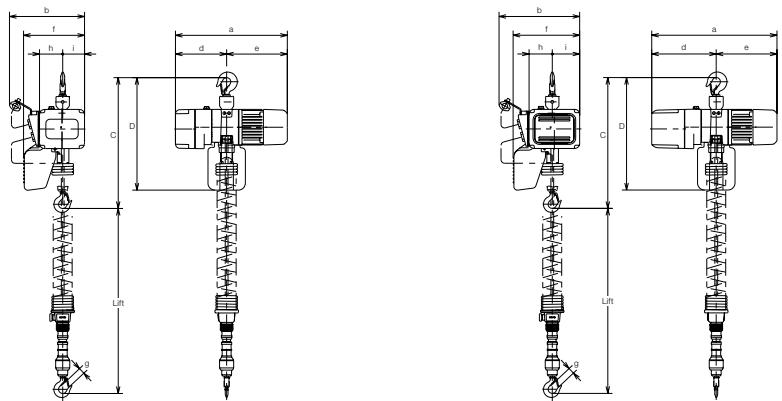
Scan the QR code to watch the video!





CDER2 electric chain hoist with cylinder control

- ▶ Up to 250 kg load capacity
- ▶ 380 - 440 V / 50 Hz
- ▶ 24 V control voltage
- ▶ Frequency inverter for precise positioning of the load
- ▶ Ergonomic cylinder control
- ▶ Operating hours counter / load cycle counter
- ▶ Range limit switch for lifting / lowering
- ▶ Thermal motor protection
- ▶ Electromagnetic brake
- ▶ Nickel-plated load chain grade T, series DAT (G80) in accordance with standard EN 818-7



Dimensions

Type	Load capacity	Dimensions (mm)								
		D	a	b	d	e	f	g	h	i
ER2-001IH	125	490	535	345	276	259	284	27	99	117
ER2-003IS	250	490	535	345	276	259	284	27	99	117

Quick and convenient to use

With ergonomic cylinder control and frequency inverter for dual lifting speeds

Classification according to FEM 3m/ISO M6

for load range up to 250 kg

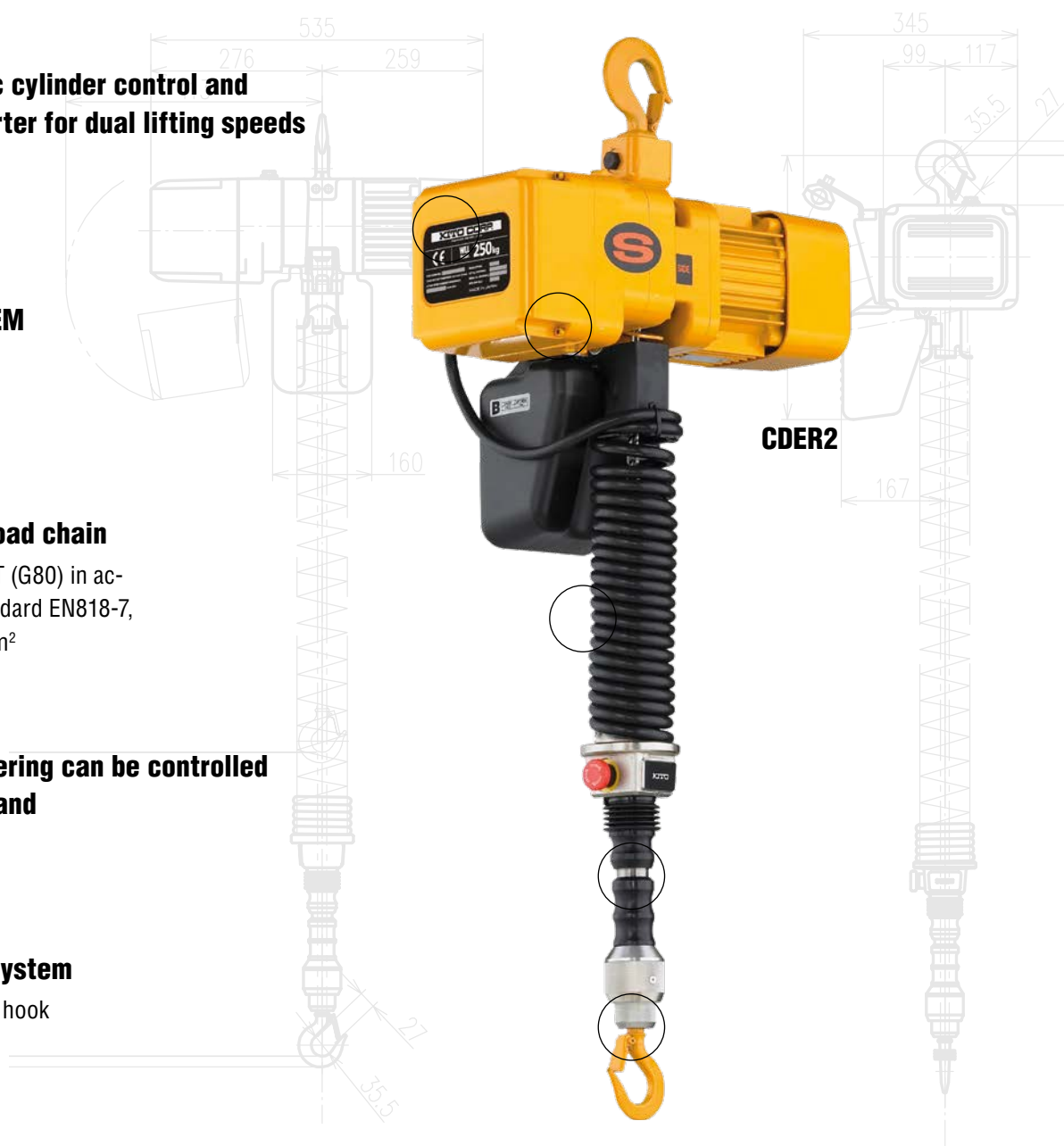
Nickel-plated load chain

Grade T, series DAT (G80) in accordance with standard EN818-7, Strength 800 N/mm²

Lifting and lowering can be controlled with just one hand

Quick release system

for removable load hook



Technical data

Type	Load capacity kg	Body size	Lifting height m	Lifting motor		Lifting speed* (m/min)			Load chain diameter mm	Chain falls	Classification FEM/ISO	Headroom C mm	Weight kg	Weight for additional 1 m lift kg
				Output, kW	Rating (% ED)	50 Hz								
						High	Low							
ER2-001IH	125	B	1.8	0.56	40/20	Standard	16.6	2.8	4.3	1	3m/M6	1,065	29	0.42
ER2-001IH	125	B	1.8	0.56	40/20	Adjustable	16.6	1.4	4.3	1	3m/M6	1,065	29	0.42
ER2-003IS	250	B	1.8	0.56	40/20	Standard	10.8	1.8	4.3	1	3m/M6	1,065	29	0.42
ER2-003IS	250	B	1.8	0.56	40/20	Adjustable	10.8	0.9	4.3	1	3m/M6	1,065	29	0.42

*Please note: The high speed is preset to the maximum speed in KITO factory. The speed is adjustable between high and low.

SHER2M electric chain hoist short headroom

- ▶ Up to 5,000 kg load capacity
- ▶ 380 - 440 V / 50 Hz
- ▶ 24 V control voltage
- ▶ Frequency inverter for precise positioning of the load
- ▶ Single and dual lifting and traveling speed
- ▶ Operating hours counter / load cycle counter
- ▶ Range limit switch for lifting / lowering
- ▶ Thermal motor protection
- ▶ Electromagnetic brake
- ▶ Nickel-plated load chain grade T, series DAT (G80) in accordance with standard EN 818-7

Options

- ▶ Fall protection device and bumpers
- ▶ Limit Lock - Individual programmable hook position limits (page 54 – 55)
- ▶ Stepless Speed - Infinitely variable speed control (page 56 – 57)

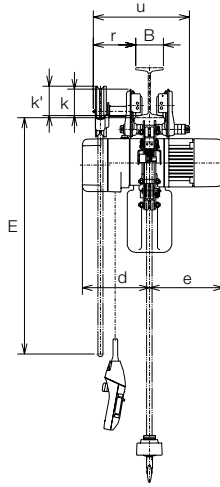




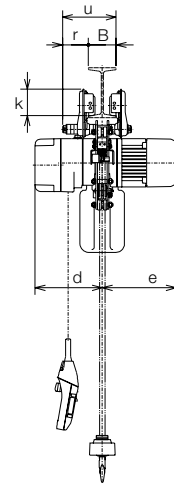
**Usage of the
effective lifting
height**



Optimized headroom C due to special chain guide solution



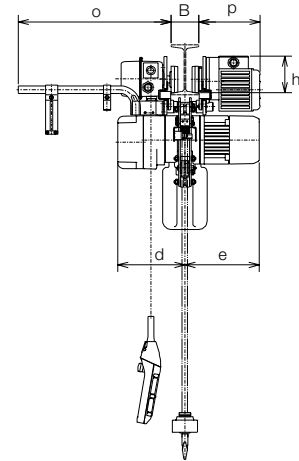
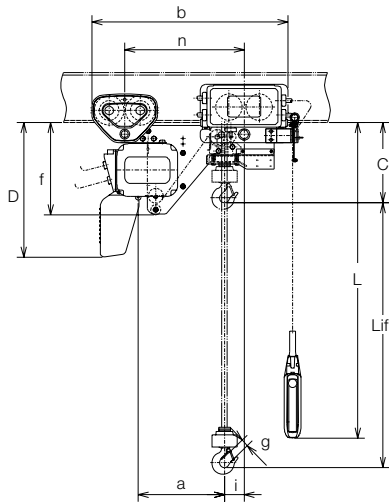
Geared trolley



Plain trolley

Headroom comparison

Type	Load capacity	Headroom C (mm)		
		A SHER2M	B Standard ER2M	Difference (A-B)
003IS	250	265	375	-110
005IL	500	285	395	-110
005IS	500	285	395	-110
010IL	1,000	345	435	-90
010IS	1,000	345	435	-90
016IS	1,600	435	505	-70
020IL	2,000	435	570	-135
020IS	2,000	475	585	-110
032IS	3,200	610	765	-155
050IS	5,000	670	900	-230



Motor trolley

Dimensions

Type	Load capacity	Dimensions (mm)																	
		D	E	a	b	d	c	f	g	h	i	j	k	K'	n	o	p	r	u
003IS-IS	250	430	3700	260	656 (616)	219	259	325	27	130	68	18	95	107	380	515	220	152 (56)	345 (249)
005IS-IS	500	525	3700	310	706 (666)	242	268	370	27	130	70	18	95	107	430	515	220	152 (56)	345 (249)
010IS-IS	1,000	550	3700	339	734 (694)	291	307	405	31	130	77	18	95	107	458	515	220	152 (56)	345 (249)
016IS-IS	1,600	640	3700	389	826 (803)	308	338	487	34	125	79	29	112	109	523	520	225	154 (69)	385 (300)
020IS-IS	2,000	840	3700	423	846 (823)	337	399	527	39	125	79	29	112	109	543	520	225	154 (69)	385 (300)
032IS-IS	3,200	830	3700	435	892 (884)	347	356	487	44	131	45	24	134	115	560	521	226	157 (79)	398 (320)
050IS-IS	5,000	860	4200	475	1057 (1057)	337	399	542	47	145	66	31	144	131	657	528	281	156 (53)	401 (297)

Please note: The numbers in the column „b“ stand for the manual trolley types. The numbers in „r“ and „u“ stand for plain trolleys. The numbers in column „D“ stand for a lifting height of 4 m. For further information please contact your local KITO dealer.

Technical data

Type	Load capacity	ER2							
		Body size	Lifting motor		Lifting speed* (m/min)			Load chain diameter	Chain falls
			Output, kW	Rating (% ED)		50 Hz			
SHER2M	kg							High	Low
			003IS-IS	250	B			0.56	40/20
003IS-IS	250	B	0.56	40/20	Adjustable	10.8	0.9	4.3	1
005IS-IS	500	C	0.9	40/20	Standard	8.5	1.4	6.0	1
005IS-IS	500	C	0.9	40/20	Adjustable	8.5	0.7	6.0	1
010IS-IS	1,000	D	1.8	40/20	Standard	8.2	1.4	7.7	1
010IS-IS	1,000	D	1.8	40/20	Adjustable	8.2	0.7	7.7	1
016IS-IS	1,600	E	1.8	40/20	Standard	5.3	0.9	10.2	1
016IS-IS	1,600	E	1.8	40/20	Adjustable	5.3	0.4	10.2	1
020IS-IS	2,000	F	3.5	40/20	Standard	6.6	1.1	11.2	1
020IS-IS	2,000	F	3.5	40/20	Adjustable	6.6	0.6	11.2	1
032IS-IS	3,200	E	3.5	40/20	Standard	4.1	0.7	10.2	2
032IS-IS	3,200	E	3.5	40/20	Adjustable	4.1	0.4	10.2	2
050IS-IS	5,000	F	3.5	40/20	Standard	3.3	0.6	11.2	2
050IS-IS	5,000	F	3.5	40/20	Adjustable	3.3	0.3	11.2	2

*Please note: The high speed is preset to the maximum speed at the KITO factory. The speeds are adjustable between High and Low. Just for straight beams. Curved beams and flange width on request. For further information please contact your local KITO dealer.

Type	Trolley							Weight, kg		
	Travel Motor		Travel speed			Flange width: B (mm)				
	SHER2M	Output, kW	Rating (% ED)		50 Hz		Standard	Option W30 (305 mm)	Motor trolley	Geared trolley
High					Low					
003IS-IS	0.4	27/13	Standard	24	4	75 - 163	164 - 305	78	61	56
003IS-IS	0.4	27/13	Adjustable	24	2.4	75 - 163	164 - 305	78	61	56
005IS-IS	0.4	27/13	Standard	24	4	75 - 163	164 - 305	90	73	68
005IS-IS	0.4	27/13	Adjustable	24	2.4	75 - 163	164 - 305	90	73	68
010IS-IS	0.4	27/13	Standard	24	4	100 - 163	164 - 305	124	107	102
010IS-IS	0.4	27/13	Adjustable	24	2.4	100 - 163	164 - 305	124	107	102
016IS-IS	0.4	27/13	Standard	24	4	125 - 204	205 - 305	158	139	134
016IS-IS	0.4	27/13	Adjustable	24	2.4	125 - 204	205 - 305	158	139	134
020IS-IS	0.4	27/13	Standard	24	4	125 - 204	205 - 305	212	193	188
020IS-IS	0.4	27/13	Adjustable	24	2.4	125 - 204	205 - 305	212	193	188
032IS-IS	0.4	27/13	Standard	24	4	125 - 204	205 - 305	241	222	217
032IS-IS	0.4	27/13	Adjustable	24	2.4	125 - 204	205 - 305	241	222	217
050IS-IS	0.75	27/13	Standard	24	4	150 - 204	205 - 305	322	307	300
050IS-IS	0.75	27/13	Adjustable	24	2.4	150 - 204	205 - 305	322	307	300



**Safe and
synchronous
lifting**

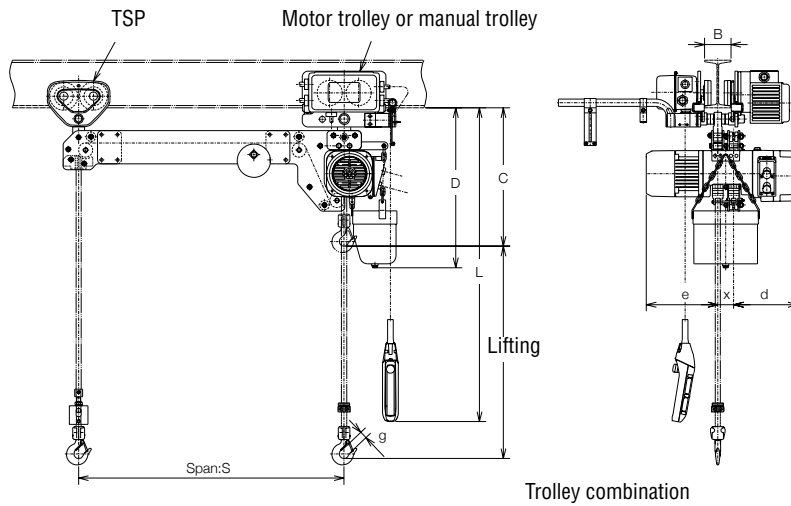
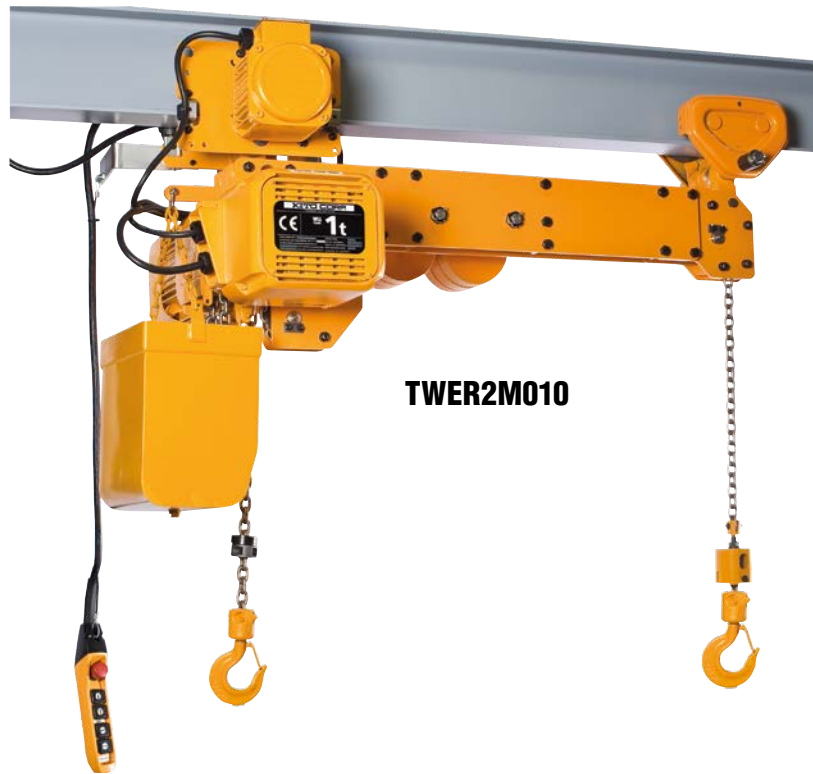
TWER2M Twin Hook electric chain hoist

- ▶ Up to 5,000 kg load capacity
- ▶ 380 - 440 V / 50 Hz
- ▶ 24 V control voltage
- ▶ Frequency inverter for precise positioning of the load
- ▶ Single and dual lifting and traveling speed
- ▶ Operating hours counter / load cycle counter
- ▶ Range limit switch for lifting / lowering
- ▶ Thermal motor protection
- ▶ Electromagnetic brake
- ▶ Nickel-plated load chain grade T, series DAT (G80) in accordance with standard EN 818-7
- ▶ Steel chain container

Options

- ▶ Fall protection device and bumpers
- ▶ Limit Lock - Individual programmable hook position limits (page 54 – 55)
- ▶ Stepless Speed - Infinitely variable speed control (page 56 – 57)





Dimensions

Type	Load capacity kg	Headroom C	Dimensions (mm)					
			D	S	d	e	g	x
003IS-IS	125 + 125	535	620	max. 4,000	300	271	27	60
005IS-IS	250 + 250	535	620	max. 4,000	300	268	27	60
010IS-IS	500 + 500	615	710	max. 4,000	493	307	31	71
020IS-IS	1,000 + 1,000	790	790	max. 4,000	600	363	39	81
032IS-IS	1,600 + 1,600	820	820	max. 4,000	600	363	44	81
050IS-IS	2,500 + 2,500	990	990	max. 4,000	611	418	46	85

Technical data

Type	Load capacity	Body size	ER2							Weight
			Lifting motor		Lifting speed* (m/min)	Load chain diameter	Chain falls			
			Output, kW	Rating (% ED)				50 Hz		
TWER2M	kg				High	Low	mm	kg		
003IS-IS	125 + 125	C	0.56	40/20	Standard	10.8	1.8	6.0	2	120
005IS-IS	250 + 250	C	0.9	40/20	Standard	8.5	1.4	6.0	2	125
010IS-IS	500 + 500	D	1.8	40/20	Standard	8.2	1.4	7.7	2	180
020IS-IS	1,000 + 1,000	E	3.5	40/20	Standard	8.2	1.4	10.2	2	265
032IS-IS	1,600 + 1,600	E	3.5	40/20	Standard	5.2	0.9	10.2	4	310
050IS-IS	2,500 + 2,500	F	3.5	40/20	Standard	3.3	0.6	11.2	4	365

Type	Load capacity	Body size	Trolley						
			Travel Motor		Travel speed* (m/min)	Flange width: B (mm)			
			Output, kW	Rating (% ED)		50 Hz		Option	
TWER2M	kg				High	Low	Standard	W30 (305 mm)	
003IS-IS	125 + 125	C	0.4	27/13	Standard	24	4	58 - 153	164 - 305
005IS-IS	250 + 250	C	0.4	27/13	Standard	24	4	58 - 153	164 - 305
010IS-IS	500 + 500	D	0.4	27/13	Standard	24	4	58 - 153	164 - 305
020IS-IS	1,000 + 1,000	E	0.4	27/13	Standard	24	4	82 - 204	204 - 305
032IS-IS	1,600 + 1,600	E	0.4	27/13	Standard	24	4	100 - 204	204 - 305
050IS-IS	2,500 + 2,500	F	0.75	27/13	Adjustable	24	2.4	100 - 204	204 - 305

*Please note: The high speed is preset to the maximum speed at the KITO factory. The speeds are adjustable between High and Low.
Just for straight beams. Curved beams on request. The exact net weight depends on the hook space. The maximum lifting height is 8 m.
Special lifting heights on request. For further information please contact your local KITO dealer.



Wire Rope Hoists



RX Foot mounted hoist



RX Monorail trolley





RX Low headroom monorail hoist trolley

RX Low headroom monorail hoist trolley



RX Wire Rope Hoist



**Lifting capacities between
1,000 kg and 50,000 kg**



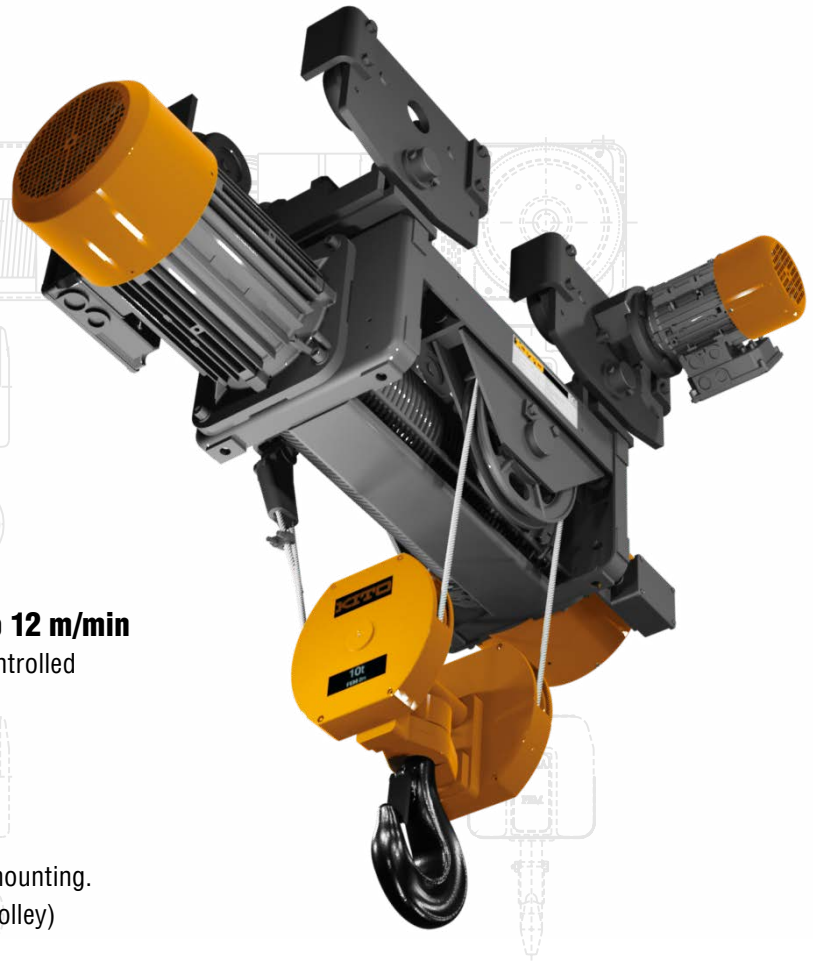
2 or 4 rope strands
Reeving 2/1, 4/1 and 4/2



Lifting speeds from 1.5 m/min to 12 m/min
Single-speed, two-speed, frequency-controlled



Foot mounts
that allow for „standing“ or „hanging“ mounting.
(As a foot hoist or for a double-girder-trolley)



Features

- ▶ 380 - 440V / 50 - 60Hz / 3 phases
- ▶ Insulation class: IP 55 (standard) - IP 66 (optional)
- ▶ Control voltage: 42 V, 110 V
- ▶ 24 V, 48 V, 230 V (optional)
- ▶ Three-phase asynchronous motor, sliding anchor motor (optional)
- ▶ Planetary gear

Safety

- ▶ Electronic overload protection, with two adjustable levels
- ▶ Overheating protection for hoist motor

Options

- ▶ Radio remote control
- ▶ Special painting
- ▶ Outdoor application
- ▶ Festoon cable systems
- ▶ Load spectrum monitoring
- ▶ Synchronization
- ▶ Load summation
- ▶ Load measurement
- ▶ Load display
- ▶ Hoist units as „True Vertical“ version
- ▶ Anti Sway Control

Advantages



Robust design

All components are designed for durability and ease of maintenance. Decades of experience and continuous development make the RX wire rope hoist a reliable partner for moving your loads.



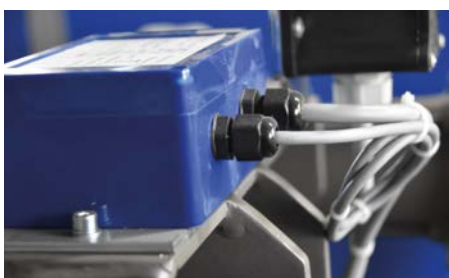
Three-piece rope guide ring in cast iron design

Stable and easy to install. The rope is optimally guided on the rope drum. The tension spring ensures that the rope is held in the rope groove and thus protects against damage and slack rope on the drum.



Electronic overload protection

... with two adjustable levels, protects the hoist and all components directly affected by the load from overload. (Performance Level C).



Electromagnetic disc brake

Safe and easy to maintain.



Elektromagnetische Scheibenbremse

Sicher und wartungsfreundlich.

The types



Foot mounted hoist

Foot mounted hoist without trolley.

For lifting capacities from 1,000 kg up to 32,000 kg.



Monorail trolley

Hoist with standard headroom trolley.

For capacities from 1,000 kg up to 32,000 kg.



Double girder trolley

For capacities from 1,000 kg up to 32,000 kg either supported or suspended, version S2-S4. Only in supported execution for capacities from 20,000 kg up to 25,000 kg 2 rope falls, for capacities from 40,000 kg up to 50,000 kg 4 rope falls.



Low headroom monorail hoist trolley

For capacities from 1,000 kg up to 10,000 kg.



The RX wire rope hoist is suitable for the use in a wide variety of applications in an industrial environment:



- 🔧 Production plants
- 🔧 Plant engineering
- 🔧 Production lines
- 🔧 Workshops
- 🔧 Ship equipment
- 🔧 Service & Maintenance

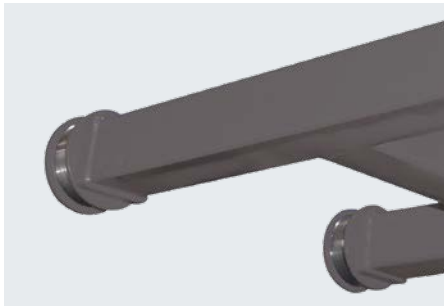


RX product description



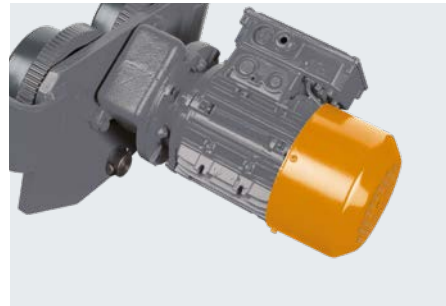
1. Rope Guide

The rope guide consists of two parts: the guide ring and tension spring. The tension spring ensures that the rope lays correctly into the drum groove whilst the guide ring always maintains the rope in the correct position preventing the rope from coming off the drum groove. By moving the guide ring along the drum, the limit switches for the highest and lowest hook positions are activated. The limit switch actuation is freely accessible and the setting can be made without great effort.



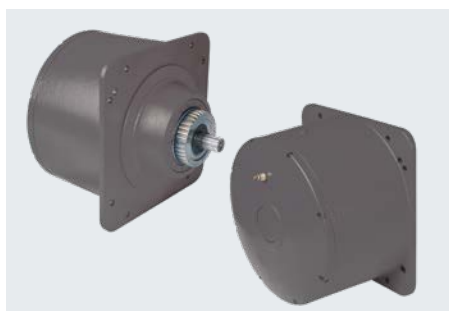
2. Wheels

The double-girder trolley is equipped with double-flange wheels. All wheels have high quality ball bearings. The driven wheels are connected directly to the self braking gearmotor. This maintenance-friendly, long-life construction enables the best power transmission between the running wheels and the trolley rail, as well as less wear.



3. Trolley construction

The standard headroom monorail design enables the hoist to operate directly under and parallel with the crane or runway beam. The hoist is directly connected to the trolley. All components are freely accessible, which guarantees ease of maintenance.



4. Hoist gearbox

The extremely robust, two- or three-stage planetary gear ensures reliable power transmission from the hoist motor to the rope drum. The parts of the planetary gear in the power flow are made of heat-treated quality steel.



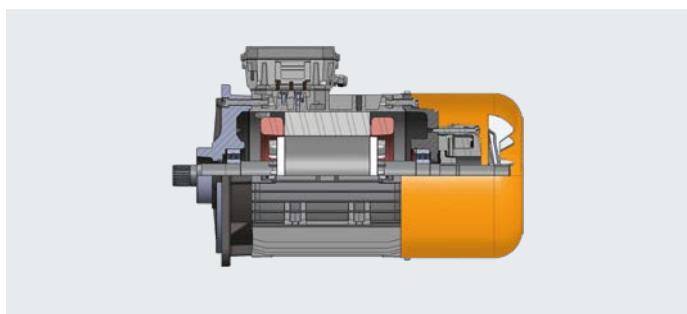
5. Low headroom trolley

The drives of the low headroom trolley consists of two electric motors, fitted onto planetary gearboxes. The power transmission of the gears goes directly to the toothed wheel axles. This construction does not require any additional, external gears.



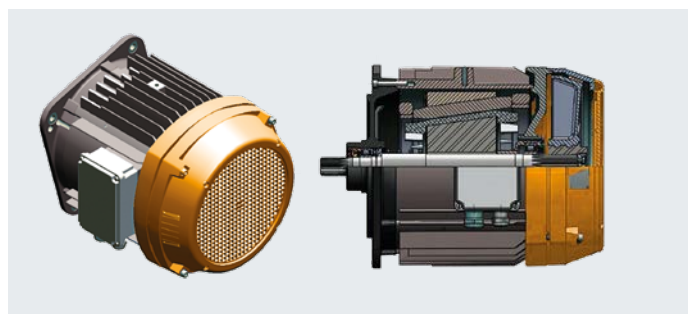
6. Disc brake

The generously dimensioned disc brake acts directly on the rotor shaft so that the braking force is effectively.



7. Motor

The three-phase asynchronous motors with cylindrical rotor and disc brake are available with single or dual speed option. The single speed motor allows inverter control to be fitted offering flexible speed control to suit the application requirements.



8. Sliding anchor motor

A sliding anchor motor with one or two speeds and a conical brake is optionally available. The axial movement of the rotor ensures that the brake works. The braking torque is provided by the axially mounted Helical spring guaranteed. The brake is released by moving the rotor axially when the motor is energized.



Trolleys

TSG geared trolley

p. 80 - 81



TSP plain trolley

p. 82 - 83





MR2 motor trolley

p. 84 - 85



TMH mini trolley



As option for ED and EDC
electric chain hoists

TSG geared trolley

- ▶ Up to 30,000 kg load capacity
- ▶ Lightweight and compact design
- ▶ Fall protection device and rubber bumpers
- ▶ Extensive range of flange widths
- ▶ Heat-treated wheels
- ▶ Connector C for rigid suspension and / or hook suspension up to 5,000 kg

Options

- ▶ Connector E for ER2 electric chain hoist
- ▶ W30 flange width extender

Technical data

Type	Load capacity kg	Shaft	Flange width mm	Connector	Hand chain m	Ø Hand chain mm	Curve radius min. mm	Weight kg
TSG	125	Standard	58 - 163	C	3.0	5.0 x 25.0	1,350 - 1,400	13.5
TSG	125	W30	164 - 305	C	3.0	5.0 x 25.0	1,350 - 1,400	13.5
TSG	250	Standard	58 - 163	C	3.0	5.0 x 25.0	1,350 - 1,400	13.5
TSG	250	W30	164 - 305	C	3.0	5.0 x 25.0	1,350 - 1,400	13.5
TSG	500	Standard	58 - 163	C	3.0	5.0 x 25.0	1,350 - 1,400	13.5
TSG	500	W30	164 - 305	C	3.0	5.0 x 25.0	1,350 - 1,400	13.5
TSG	1,000	Standard	58 - 163	C	3.0	5.0 x 25.0	1,350 - 1,400	13.5
TSG	1,000	W30	164 - 305	C	3.0	5.0 x 25.0	1,350 - 1,400	13.5
TSG	1,500	Standard	82 - 204	C	3.0	5.0 x 25.0	1,600	20.0
TSG	1,500	W30	205 - 305	C	3.0	5.0 x 25.0	1,600	20.0
TSG	2,000	Standard	82 - 204	C	3.0	5.0 x 25.0	1,600	21.0
TSG	2,000	W30	205 - 305	C	3.0	5.0 x 25.0	1,600	21.0
TSG	2,500	Standard	82 - 204	C	3.0	5.0 x 25.0	1,800	30.0
TSG	2,500	W30	205 - 305	C	3.0	5.0 x 25.0	1,800	30.0
TSG	3,000	Standard	82 - 204	C	3.0	5.0 x 25.0	1,800	30.0
TSG	3,000	W30	205 - 305	C	3.0	5.0 x 25.0	1,800	30.0
TSG	5,000	Standard	100 - 204	C	3.0	5.0 x 25.0	2,400	60.0
TSG	5,000	W30	205 - 305	C	3.0	5.0 x 25.0	2,400	60.0
TSG	7,500	Standard	150 - 220	-	3.0	5.0 x 25.0	3,000 - 3,100	115.0
TSG	7,500	W30	221 - 305	-	3.0	5.0 x 25.0	3,000 - 3,100	115.0
TSG	10,000	Standard	150 - 220	-	3.0	5.0 x 25.0	3,000 - 3,100	115.0
TSG	10,000	W30	221 - 305	-	3.0	5.0 x 25.0	3,000 - 3,100	115.0
TSG	15,000	Standard	150 - 220	-	3.0	5.0 x 25.0	-	271.0
TSG	15,000	W30	221 - 305	-	3.0	5.0 x 25.0	-	271.0
TSG	20,000	Standard	150 - 220	-	3.0	5.0 x 25.0	-	271.0
TSG	20,000	W30	221 - 305	-	3.0	5.0 x 25.0	-	271.0
TSG	30,000	Standard	175 and 190	-	3.0	5.0 x 25.0	-	450.0



TSG for ER2 electric chain hoist with connector E



TSG geared trolley 125 kg to 3,000 kg



TSG geared trolley 5,000 kg to 30,000 kg



**TSG
with connector C
for hand chain block**



TSP
with connector C
for hand chain block



TSP plain trolley
125 kg to 2,000 kg



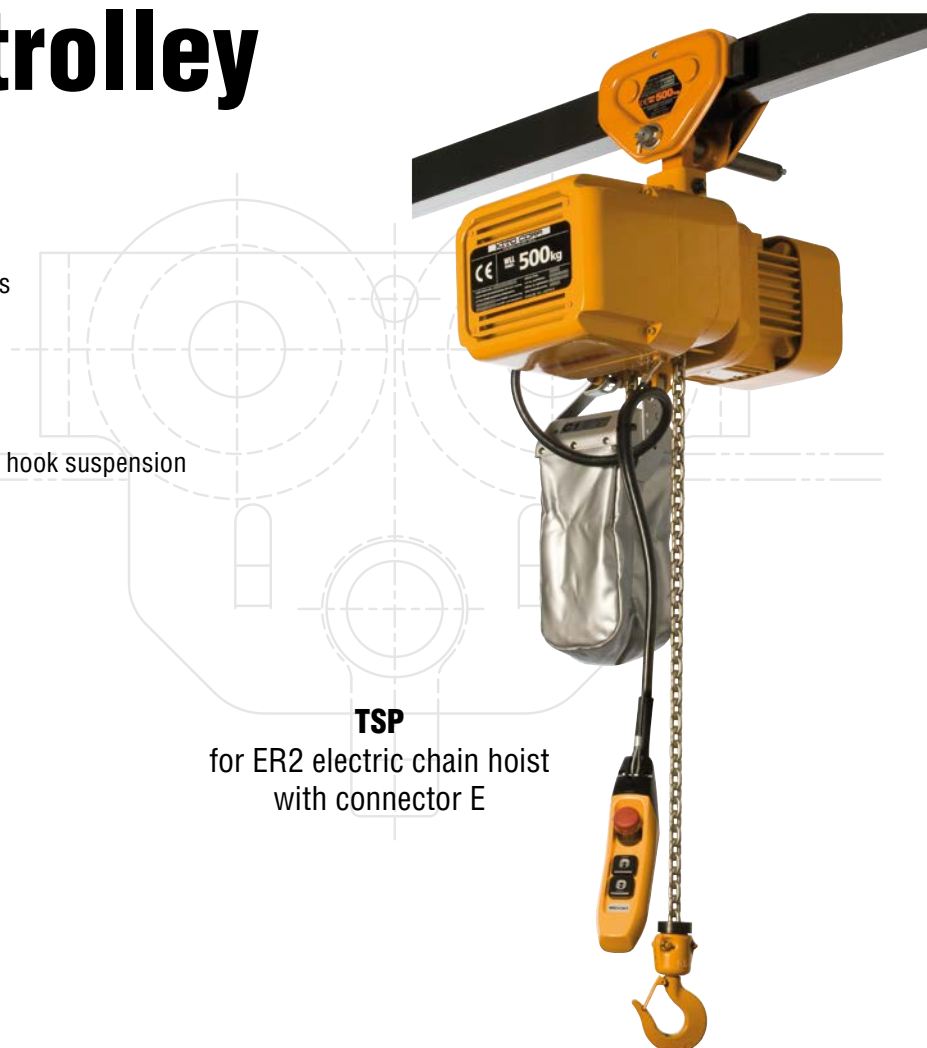
TSP plain trolley
3,000 kg to 5,000 kg

TSP plain trolley

- ▶ Up to 5,000 kg load capacity
- ▶ Lightweight and compact design
- ▶ Fall protection device and rubber bumpers
- ▶ Extensive range of flange widths
- ▶ Heat-treated wheels
- ▶ Sealed, maintenance-free bearings
- ▶ Connector C for rigid suspension and / or hook suspension

Options

- ▶ Connector E for ER2 electric chain hoist
- ▶ W30 flange width extender



Technical data

Type	Load capacity	Shaft	Flange width	Connector	Curve radius min.	Weight
	kg		mm		mm	kg
TSP	125	Standard	50 - 163	C	1,150 - 1,200	5.1
TSP	125	W30	164 - 305	C	1,150 - 1,200	5.1
TSP	250	Standard	50 - 163	C	1,150 - 1,200	5.1
TSP	250	W30	164 - 305	C	1,150 - 1,200	5.1
TSP	500	Standard	50 - 163	C	1,150 - 1,200	5.1
TSP	500	W30	164 - 305	C	1,150 - 1,200	5.1
TSP	1,000	Standard	58 - 163	C	1,350 - 1,400	8.0
TSP	1,000	W30	164 - 305	C	1,350 - 1,400	8.0
TSP	1,500	Standard	82 - 204	C	1,600	14.0
TSP	1,500	W30	205 - 305	C	1,600	14.0
TSP	2,000	Standard	82 - 204	C	1,600	14.0
TSP	2,000	W30	205 - 305	C	1,600	14.0
TSP	2,500	Standard	82 - 204	C	1,800	23.0
TSP	2,500	W30	205 - 305	C	1,800	23.0
TSP	3,000	Standard	82 - 204	C	1,800	23.0
TSP	3,000	W30	205 - 305	C	1,800	23.0
TSP	5,000	Standard	100 - 204	C	2,400	50.0
TSP	5,000	W30	205 - 305	C	2,400	50.0

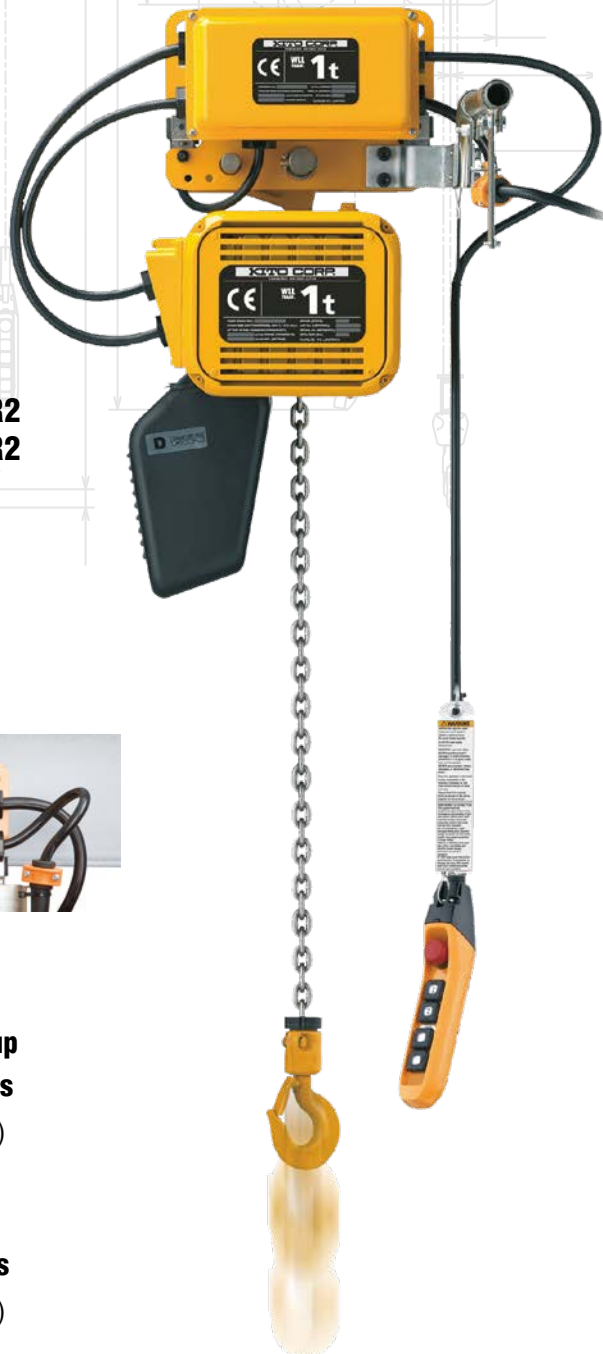
MR2 motor trolley

- ▶ Up to 5,000 kg load capacity
- ▶ 380 - 440 V / 50 Hz
- ▶ Single and dual traveling speed
- ▶ Adjustable start-up and braking ramps (frequency inverter)
- ▶ Connector for rigid suspension (ER2 electric chain hoist)
- ▶ Heat-treated wheels

Options

- ▶ Fall protection device and bumpers as a set

MR2
with ER2

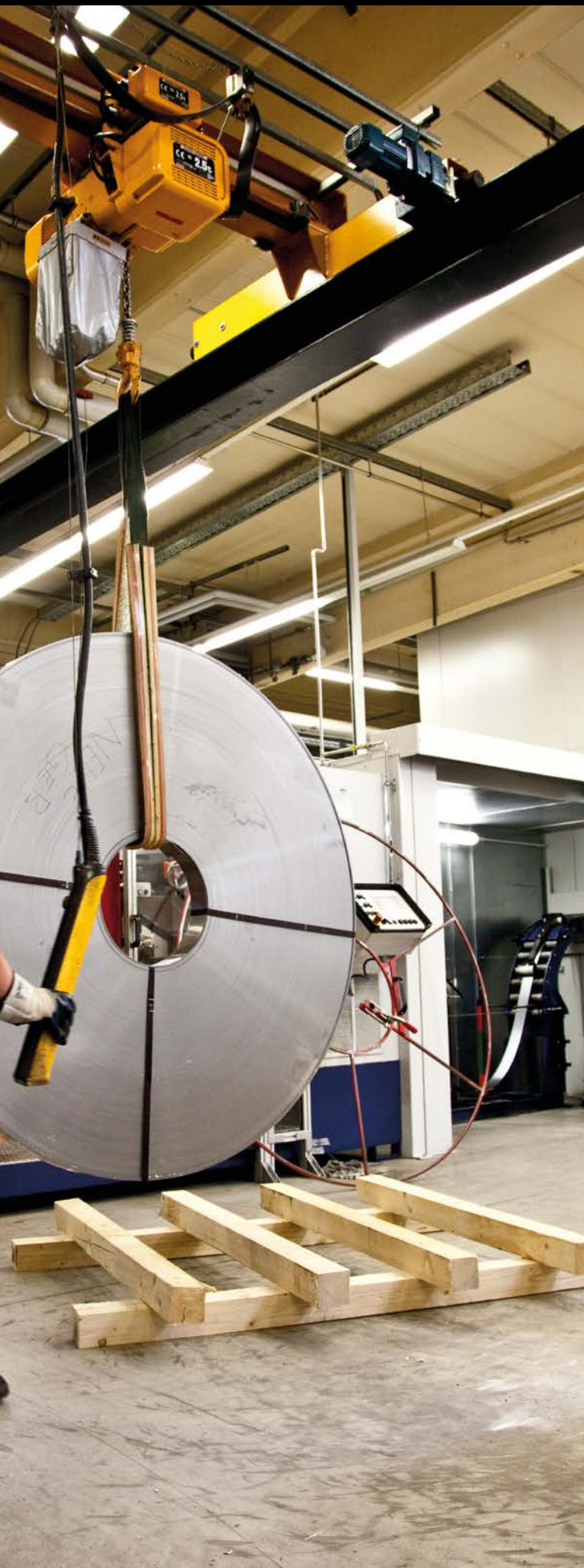


MR2

**Adjustable start-up
and braking ramps**
(frequency inverter)

**Adjustable
traversing speeds**
(frequency inverter)





**MR2
with ER2**

Technical data

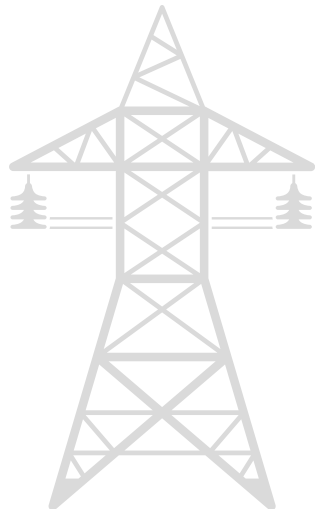
Type	Load capacity	Version	Speed	Flange width	Travel speed	ED	Curve radius min.
	kg			mm	m/min	%	mm
MR2	125	S	single	58 - 163	20.0	40	800
MR2	125	IS	dual	58 - 163	24.0/4.0-2.4	27 / 13	800
MR2	250	S	single	58 - 163	20.0	40	800
MR2	250	IS	dual	58 - 163	24.0/4.0-2.4	27 / 13	800
MR2	500	S	single	58 - 163	20.0	40	800
MR2	500	IS	dual	58 - 163	24.0/4.0-2.4	27 / 13	800
MR2	1,000	S	single	58 - 163	20.0	40	800
MR2	1,000	IS	dual	58 - 163	24.0/4.0-2.4	27 / 13	800
MR2	1,600	S	single	82 - 204	20.0	40	800
MR2	1,600	IS	dual	82 - 204	24.0/4.0-2.4	27 / 13	800
MR2	2,000	S	single	82 - 204	20.0	40	800
MR2	2,000	IS	dual	82 - 204	24.0/4.0-2.4	27 / 13	800
MR2	2,500	S	single	82 - 204	20.0	40	1,000
MR2	2,500	IS	dual	82 - 204	24.0/4.0-2.4	27 / 13	1,000
MR2	3,200	S	single	82 - 204	20.0	40	1,000
MR2	3,200	IS	dual	82 - 204	24.0/4.0-2.4	27 / 13	1,000
MR2	5,000	S	single	100 - 204	20.0	40	1,000
MR2	5,000	IS	dual	100 - 204	24.0/4.0-2.4	27 / 13	1,000



Industry solutions

LB-SL lever hoist for overhead power line construction

p. 88 - 89



FER2 electric chain hoist for food / beverages / pharma

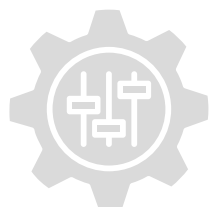
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Customized special solutions

p. 94 - 97





LB-SL lever hoist for overhead power line construction

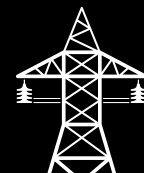
- ▶ Load capacities from 1,600 kg to 9,000 kg
- ▶ Original KITO derailleur gearshift with two shift stages, as protection against unintentional freewheeling, even under load
- ▶ Fine-toothed precision gearing to reduce required force
- ▶ Robust and ergonomic lever handle
- ▶ Heavy-duty load pressure brake with special compression spring for maximum braking power
- ▶ Complies with EN 13157 Cranes - Safety - Hand-operated cranes
- ▶ Nickel-plated load chain grade T, series V (G100)
- ▶ Breaking strength 1,000 N/mm²
- ▶ High strength and low wear
- ▶ Higher corrosion resistance
- ▶ Additional safety lock SL (Safety-Lock):
Is activated automatically if the load pressure brake fails

Options

- ▶ Chain lock
- ▶ Additional chain stopper
- ▶ Overload limiter (OLL)
- ▶ Without freewheel function (OF)
- ▶ Overload signal (LOS)
- ▶ Shipyard hook set (top and bottom hook)

i Technical data
Please find this information
on pages 22 and 23.





Robust and safe. Especially when it matters.

KITO original freewheel function

Protection against unintentional freewheeling under load

Robust sheet steel housing

Reliable also under rough handling conditions

Hook block quadruple riveted

Increased safety

Chain lock

Hook block quadruple riveted

Nickel-plated load chain

Grade T, series V (G100) in accordance with standard EN818-7, Strength 1,000 N/mm²



Safety Locking Module

The additional safety lock SL: Is activated automatically if the load pressure brake fails



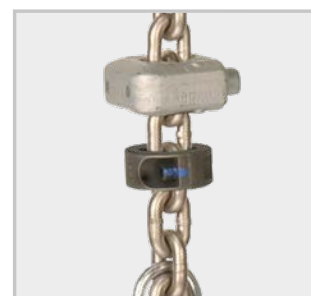
Fine-toothed precision gearing

to reduce required pulling force



Overload signal LOS

Visual signal in case of overload



Chain lock and chain stopper

FER2 electric chain hoist for food / beverages / pharma

- ▶ NSF H1 compliant food grade grease and oil
- ▶ With CE certification
- ▶ Nickel-plated load chain
- ▶ Grade T, series DAT (G80) in accordance with standard EN818-7
- ▶ IP55 protection class
- ▶ With declaration of conformity

Options

- ▶ Epoxy painting
- ▶ Hook suspension
- ▶ Plain, geared or motor trolley (pages 80 – 85)
- ▶ Mounting either crosswise or parallel to the girder



Technical data

Please find this information on page 53.



Headroom C

Load capacity	Hook suspension		Plain trolley		Geared trolley		Motor trolley	
	Standard load hook	Stainless steel load hook	Standard load hook	Stainless steel load hook	Standard load hook	Stainless steel load hook	Standard load hook	Stainless steel load hook
500	370	452	414	495	434	516	396	475
1,000	430	538	470	579	470	579	434	456
2,000	575	594	635	655	635	655	569	589

All other dimensions and operation specifications are the same as ER2 standard specifications.



Absolute purity and highest reliability

FER2 electric chain hoist with options like epoxy paint, motor trolley, stainless steel load hook, nickel-plated chain stopper and chain spring, limit plate and chain container made of stainless steel.



FSHER2M electric chain hoist short headroom

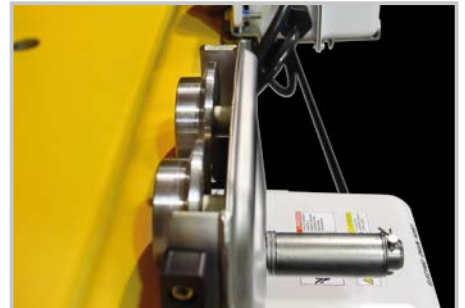
As option with epoxy paint. Optimized usage of space due to short headroom C.



TSP plain trolley, shafts, brackets and adjustment rings completely nickel-plated



Load hook, load chain, chain guide, guide rollers, fasteners and screws made of stainless steel



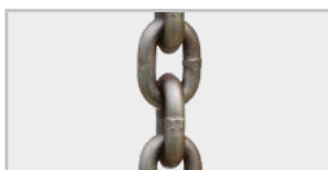
Wheels of both trolleys made of stainless steel



Standards



Fail safe brake



Nickel-plated load chain



**Food grade grease and oil
(NSF H1)**



IP55 protection class

Options



White epoxy paint



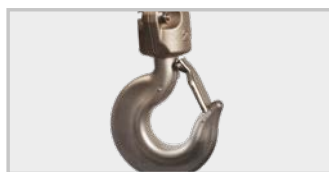
**Load hook with white
epoxy paint**



**Stainless steel hook
latch**



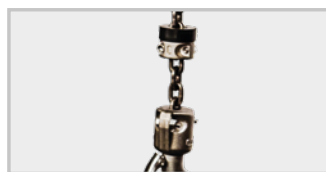
**Nickel-plated e.g. stain-
less steel components**



**Corrosion-resistant load
hook made of stainless
steel**



**Rubber buffer and stain-
less steel chain stopper**
At unloaded chain end



**Rubber buffer and stain-
less steel chain stopper**
Load cap. 500 kg and 1,000 kg



**Stainless steel chain
spring and limit plate**
Load capacity 2,000 kg



**Corrosion-resistant wheels
made of stainless steel**



**Stainless steel guide
rollers (MR2)**



**Nickel-plated suspension
shaft and suspender**

Accessories



**Stainless steel chain
container**



Plastic chain container



Canvas chain container



**Silicone cover for
control pendant**

Special solutions for manual chain hoists

Mechanical special solutions:

- ▶ Special painting / coating for marine, electroplating and other applications
- ▶ Exceptional temperature applications
- ▶ Special safety load hooks up to 3,200 kg load capacity
- ▶ Special chain container
- ▶ Special locking brake for manual trolleys
- ▶ Corrosion-resistant components made of stainless steel
- ▶ Untreated load chain for LB and CB (for applications in the immediate vicinity of welding)
- ▶ Special trolleys, e.g. extra-wide flange
- ▶ Trolleys for low curve radii
- ▶ Applications and use in the offshore industry
- ▶ Trolley with rack-and-pinion drive system

Special applications:

- ▶ Chain hoists for food, beverage and pharma industry

Technical documentation / certification

- ▶ Inspection certificate 3.1 in accordance with EN 10204:2004 for the hoist, hook and chain
- ▶ Inspection certificate 3.2 in accordance with EN 10204:2004 or DNV-GL on request in return for a fee
- ▶ Inspection books can be issued in return for a fee



Certificates can be provided upon request for a fee

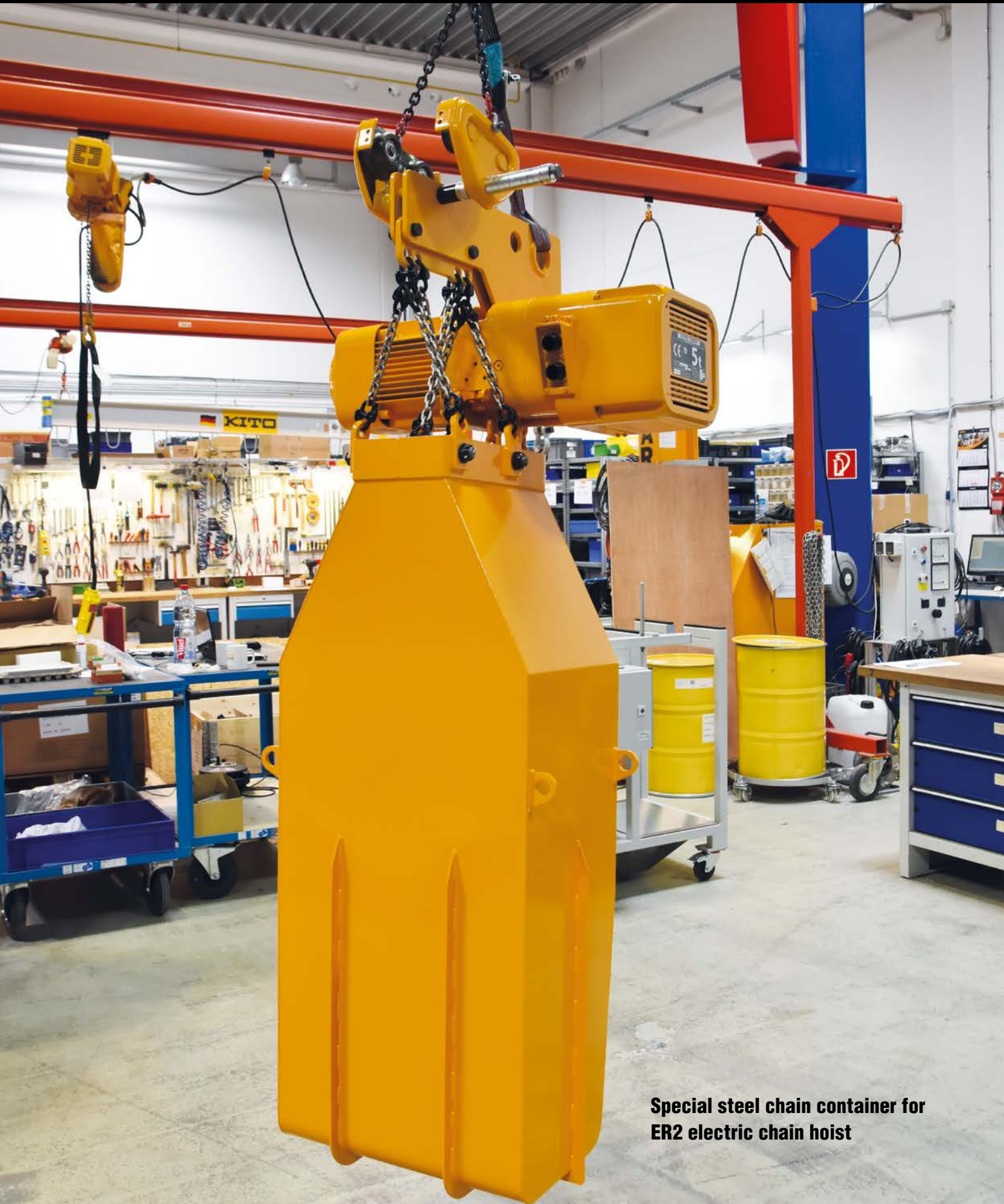
For special application queries please contact sales@kito.net





LB lever hoist with special paint and overload signal LOS





Special steel chain container for ER2 electric chain hoist



Special solutions for electric chain hoists

Electrical special solutions:

- ▶ Tandem/tridem control via a push button pendant
(selection of individual chain hoists from one unit / individual control of the chain hoists)
- ▶ Push button pendant and radio remote control can be provided on request
- ▶ Acoustic and visual alarm systems
- ▶ Limit switch for motor trolleys
- ▶ Trailing cable systems and conductor lines
- ▶ Electromechanical overload limiter
- ▶ Gear limit switch
- ▶ Battery-powered electric brake opening for ER2 in the event of a power cut
- ▶ Special voltages on request
- ▶ Reprogramming of the frequency inverter on request
- ▶ Special controls / automation on request

Mechanical special solutions:

- ▶ Special painting / coating for marine, electroplating and other applications
- ▶ Special safety load hooks up to 3,200 kg load capacity
- ▶ Special chain container
- ▶ Special locking brake for manual trolleys
- ▶ Applications and use in the offshore industry
- ▶ Corrosion-resistant components made of stainless steel
- ▶ Trolley with rack-and-pinion drive system
- ▶ Trolleys for low curve radii
- ▶ Special trolleys, e.g. extra-wide flange

Special applications:

- ▶ Electric chain hoists for food, beverage and pharma industry

Technical Documentation/Certification:

- ▶ CE certificates – free of charge at the initial point of ordering
- ▶ Inspection certificate: 3.1 in accordance with EN 10204:2004
- ▶ Further certificates can be provided upon request, e.g. 3.2, CSA, UL



Certificates can be provided upon request for a fee



For special solution queries please contact sales@kito.net

User

These companies already rely on our premium hoists

Company	Industry
DEUTZ-FAHR	Agricultural Technology
OUTOKUMPU	Steel
THYSSENKRUPP	Steel
VALRONA	Food
SCHLOSSBRUNNEN WÜLLNER	Food
FRISCHLI	Food
SÜDZUCKER	Food
CARGILL	Food and Feed
VILLEROY & BOCH	Ceramics
BRIDGESTONE	Tires
UPM	Paper
KOMATSU	Construction
MAX BÖGL	Construction
SCHWENK	Concrete
ESCO EUROPEAN SALT COMPANY	Salt Production
REMONDIS	Recycling
DU PONT	Chemistry
WACKER CHEMIE	Chemistry
BASF	Chemistry
DOW	Chemistry
SCHMITT & SOHN	Elevators
RWE	Energy
GE	Energy
ELTEL	Energy (Overhead power line construction)
BILFINGER FRB	Energy (Overhead power line construction)
OMEXOM	Energy (Overhead power line construction)
C-TEAM	Energy (Overhead power line construction)
ENERCON	Wind Energy
VESTAS	Wind Energy
HITACHI	Electronics
WESTINGHOUSE	Electronics
SANYO	Electronics
PANASONIC	Electronics
SONY	Electronics

Company	Industry
SIEMENS	Electronics
TOSHIBA	Electronics
BOSCH	Electronics
TUI CRUISES	Cruise Ship
MEYER WERFT	Shipyard
BLOHM & VOSS	Shipyard
STX	Shipyard
MAN DIESEL	Motors
MAN TURBO	Motors
ALSTOM	Logistics
KÄSSBOHRER	Vehicle Construction
GOLDHOFER	Machines
EISENWERKE BRÜHL	Automotive
VW VOLKSWAGEN	Automotive
FIAT	Automotive
FORD	Automotive
TOYOTA	Automotive
HONDA	Automotive
MAZDA	Automotive
SKODA	Automotive
NISSAN	Automotive
HYUNDAI	Automotive
FERRARI	Automotive
OPEL	Automotive
AIRBUS	Aviation
BOEING	Aviation
CESSNA	Aviation
LOCKHEED MARTIN	Aviation and Aerospace
TURKISH AIRLINES	Airline
AMERICAN AIRLINES	Airline
BP	Petrochemistry
EXXON MOBIL	Petrochemistry
SHELL	Petrochemistry
STATOIL	Petrochemistry

References

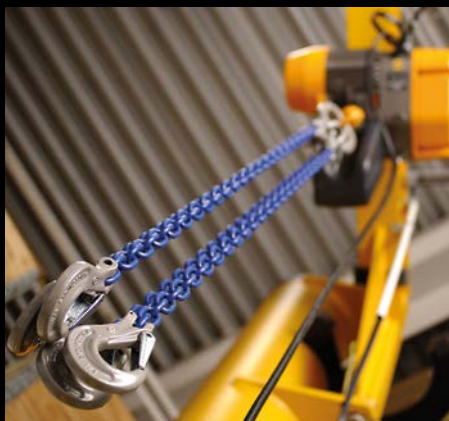
KITO hoists are in use in various industries worldwide.



KITO

The Group in Europe

KITO weissenfels



Suits perfect to “below the hook devices” like chain slings from KITO Weissenfels

KITO ERIKKILA



Unbeatable in combination with KITO ERIKKILA light crane systems and jib cranes

KITO VAN LEUSDEN



On a high-quality level as engineered lifting solution from KITO VAN LEUSDEN

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