

KITO

MAIN CATALOGUE



www.kito.net

KITO HOISTS

Always on the safe side

KITO HOISTS

High quality and multifunctional product variations. KITO products extend the performance capabilities of all industrial sectors

Made in Japan!



Extract from the publication:

**Wirtschaftsmagazin RUHR,
July August 2009**

With each hoisting device, KITO offers its customers a perfect symbiosis of safety, functionality and reliability. An array of safety features and a wide product depth combined with the GS certification guarantees the user a long service life, high reliability, and minimal maintenance resulting in high cost-effectiveness. „Quite simply, the main issue“.

Working together for success

The concentration of our core competence in the area of hoists is in the consistent quest for innovation and the well-founded specialized knowledge of our employees which guarantees the safety and quality that only original KITO products can provide.

For KITO innovation does not always mean something that has never been heard of before. Innovation also means the continual, evolutionary enhancement of successful products which is focused on the customer's immediate needs and on the changing requirements of the future. We work diligently on making our excellent products even better. For this reason KITO hoists have often redefined technology in their industry and this will always be the measure of KITO's quality in the future.

Our fully developed inventory control system guarantees our customers optimum availability of our complete product range which is continually adapted to market needs. A comprehensive network of dealers and partners guarantees deliveries and the necessary on-site supply of replacement parts at any time. Complete product service is reliably managed by our support dealers which includes maintenance in accordance with accident prevention regulations, potential repairs and equipment installation. This is a partnership you can rely on.



Nickel-plated load chains

Grade DAT (G80) in accordance with standard EN 818-7

Grade V (G100) in accordance with standard EN 818-7

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Extract from the publication:

Hebezeuge Fördermittel 48/2008

Impressive advantages ... that's what really sets you apart from your competitors. KITO is the only manufacturer worldwide that nickel-plates its load chain. This process of surface coating does not involve gassing because the nickel surface is permeable to hydrogen molecules. Nickel is well known for its resistance to salty air, water, diluted acids and most lyes.

Electric Chain Hoist ER Series

Up to 20 t (larger capacities on request)

The New One
Durable, safe,
operator friendly



Extract from the publication:

Hebezeuge Fördermittel 48/2008

Impressive advantages. KITO has focused on functionality in the development of the ER2. This means that the robust and solidly built hoist can easily fulfill its role with the directional frequency inverter technology or 24-volt contactor control with no outward embellishment.

Extract from the publication:

dhf intralogistik 7-8/2009

Based on a long-term test of capacity, the ER2 could be graded in FEM Class 3m. This applies to 5 models in total in the lower load-bearing range with frequency inverter and two stroke rates. Thus, the ER2 can now be used for double the service life, i.e. 3,200 hours under full load.

10 Years
warranty
on brake!

ER2-003IS
Hook suspension type
Dual lifting speed

Standards:

- ▶ Inverter for dual speed
- ▶ 400 V / 50 Hz / 60 Hz
- ▶ Counter hour meter (CH-Meter)
- ▶ Ergonomic push button control
- ▶ Contactor control for single lifting speed
- ▶ Electromagnetic brake
- ▶ Upper / lower limit switch
- ▶ Canvas chain bucket
- ▶ Nickel-plated load chain grade DAT (G80) in accordance with standard EN 818-7
- ▶ Thermal protection
- ▶ Carbon friction clutch

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ER2M005IS-IS
With motorized trolley MR2
Dual lifting and dual traversing speed



ER2SG005L
With geared trolley TSG
Single lifting speed

Electric Chain Hoist ER Series

Up to 20 t (larger capacities on request)

The New One
Durable, safe,
operator
friendly



Extract from the publication:

Maschinen-Technik 46/2008

Functionality and intrinsic values dominate. The hoisting device stands out particularly because of its large range, which gives the customer many choices. Load capacities from 125 kg to 20 t cover a broad range of applications. The diversity from the push trolley up to 5 t and use of the geared trolley or motor trolley up to 20 t gives the product the distinction of a universal hoisting device.



ER2-100S
Hook suspension type
Single lifting speed

**10 Years
warranty
on brake!**

Options:

- ▶ Geared trolley
- ▶ Plain trolley
- ▶ Motorized trolley
- ▶ Electric overload limiter
- ▶ Additional brake (mechanical)
- ▶ Radio remote control
- ▶ 500 V / Contactor control
- ▶ 230 V / 50 Hz / 60 Hz, 3 PH
- ▶ Level limiter for lift / lowering
- ▶ Acoustic Overload signal



ER2M100S-L
With motorized trolley MR2
Single lifting and single traversing speed



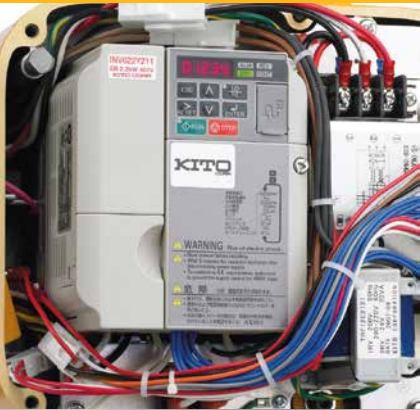
ER2SG075S
With geared trolley TSG
Single lifting speed

Electric Chain Hoist

Limit Lock ER2 Series

125 kg to 5 t

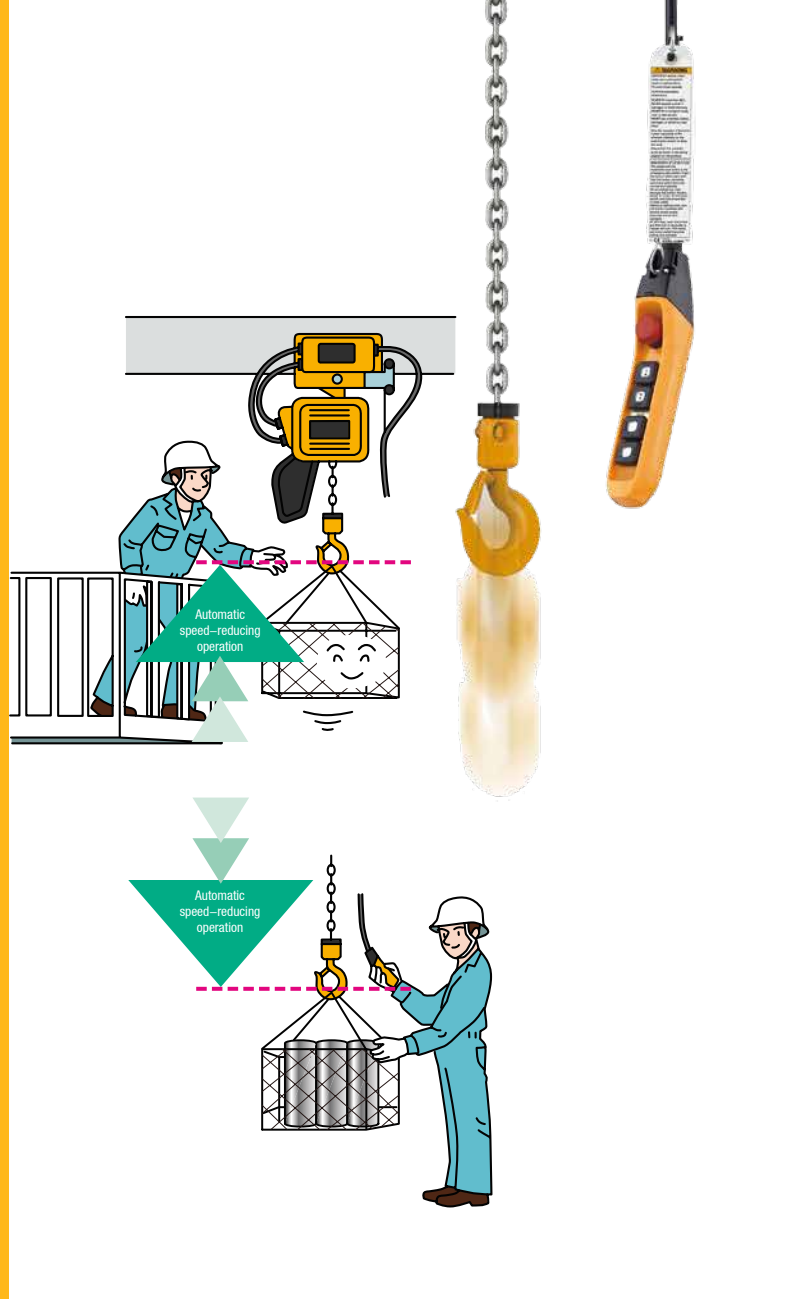
Programmable level limits



Improve Work Efficiency! Operator adjustable level limit switches

- ▶ **Special limit lock features**
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 each upper and lower available
- ▶ **Easy adjustment**
Each position can be easily adjusted using only the push button control
- ▶ **Improved productivity and efficiency in operation**
The operator can easily lift or lower to the perfect position every time

Made in Japan!



Electric Chain Hoist

Stepless Speed

ER2 Series

125 kg to 5 t

**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 is infinitely variable from 16.7 % to 100 % of maximum lifting speed

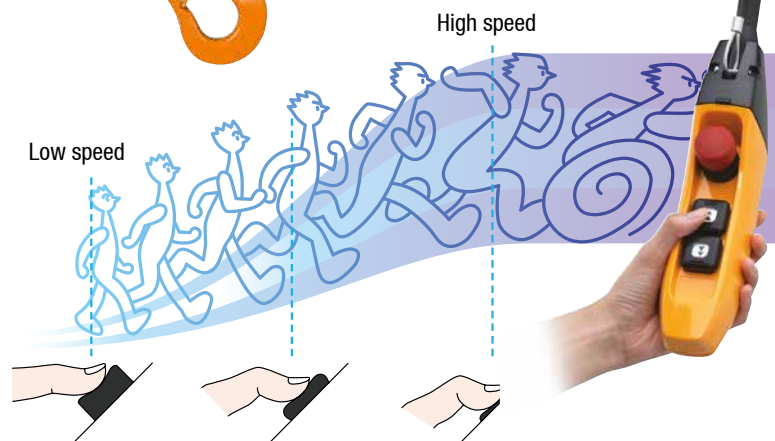
▶ **Maintenance of speed at any point**

Maximum control of the load enabling safe and efficient hoisting operations

▶ **Consistent speed control function**

Variable speed features in both the lifting and lowering direction

**Improve Work
Efficiency!
Variable speed for
ultimate load control**



KITO

Electric Chain Hoist Model CDER2

125 kg and 250 kg

With ergonomic
cylinder control
Quick and easy
to operate



- ▶ **Easy-operation frequency inverter for two lifting speeds**
Exact positioning of the load
- ▶ **Ergonomic cylinder control**
- ▶ **Quick release bottom hook**
- ▶ **Controlling the lifting and lowering process with only one hand**
- ▶ **High FEM classification**
M6/3m for capacities up to 500 kg and 2 speeds (dual speed)
- ▶ **Upgraded annealing process of load chain**
Ensures ultimate resistance and durability

Made in Japan!



**3 Years
Product Warranty**

**10 Year
Warranty
on brake**

Product Warranty: 3 years product warranty and 10 years warranty on the brake system. The guarantee is only valid if the operating conditions, inspection and maintenance intervals as described in the owner's manual are followed.

Electric Chain Hoist

Model FER2

500 kg up to 2 t

For contaminant controlled or corrosive environments



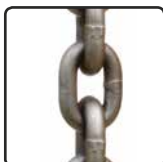
- ▶ NSF H1 Compliant Food Grade Grease and Oil
- ▶ CE Certification
- ▶ Grade 80, Case Hardened Chain
- ▶ IP55 Environmental Protection
- ▶ Nickel plated load chain
- ▶ A Certificate of Conformance is included

Kito's Food Grade ER2 Electric Chain Hoist is well suited for lifting applications in food, beverage, and pharmaceutical processing industries where pristine cleanliness is critical. Food grade lubricants used on the load chain and in the gearbox are NSF H1 compliant for safe use in any facility where incidental contact with product is a concern. Customer specified options include white epoxy paint, stainless steel and nickel-plated hardware, and nickel-plated load chain making this hoist well-suited for contaminant controlled or corrosive processing environments.

STANDARDS AND AVAILABLE OPTIONS:



White Epoxy Paint



Nickel-plated Load Chain



Food Grade Oil and Grease



Stainless Steel and Nickel-plated Hardware



Fail Safe Brake



White Epoxy Bottom Hook



Stainless Steel Hook Latch

Electric Chain Hoist ED Series Up to 480 kg

The Fast One
Compact, light
weight, reliable



Extract from the publication:

Hebezeuge Fördermittel 49/2008

... Thanks to its light weight of 12 kg and load-bearing capacity of 100 kg, it can be moved to different locations quickly and easily. The aluminum gear casing is weather and rust-resistant. Work process can be optimized using the variable speed settings in the precision hoist.

... Safety-relevant features include a high-performance mechanical brake with friction clutch and an upper limit switch.

**230 V / 50 Hz
Single phase**

ED24ST

Hook suspension type
Dual lifting speed

Standards:

- ▶ Upper limit switch
- ▶ Quick release bottom hook for EDC
- ▶ Preselected lifting speed
- ▶ Chain spring for ED48
- ▶ Single or dual lifting speed

Options:

- ▶ Plain trolley TMH25
- ▶ Chain bucket up to 70 m
- ▶ Radio remote control



EDC24SD
Cylinder control type
Dual lifting speed



ED48S
Hook suspension type
Single lifting speed

KITO

Electric Chain Hoist EQ Model

Up to 1 t



The compact one
Small and powerful



- ▶ **Frequency inverter as standard**
 - smooth and precise load control
 - adjustable speed control
- ▶ **Compact hook end approach**
- ▶ **High productivity feature**
 - 130% speed at less than 30% WLL
- ▶ **Electromagnetic pull-rotor brake**
 - Long life, maintenance free
- ▶ **Electronic thermal motor protection**
 - prevents motor overheating
- ▶ **Electronic overload limiter**
 - via frequency inverter
- ▶ **Nickel plated load chain**
 - wear resistant, long life and corrosion resistant

Up to 1.3 times lifting speed for increased productivity!



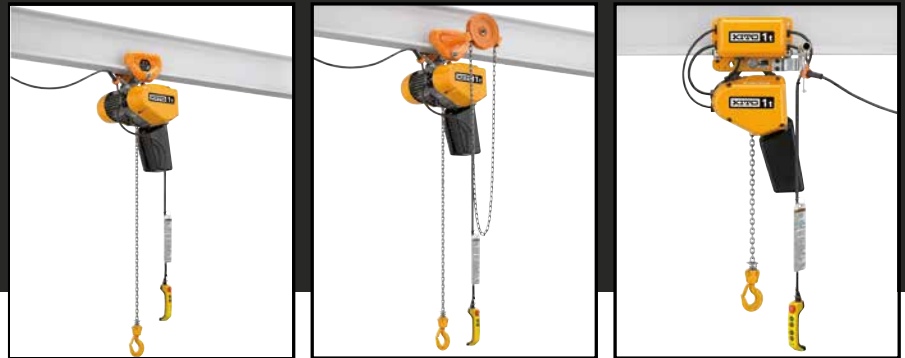
Made in Japan!

Standards:

- ▶ Frequency inverter
- ▶ 380 – 460 V / 3 phase
- ▶ Overload protection via frequency inverter
- ▶ Counter hour meter
- ▶ Upper – lower limit switch
- ▶ Pull–rotor motor brake
- ▶ Nickel plated load chain class DAT (G80) Norm EN 818–7
- ▶ Plastic chain container
- ▶ Ergonomic push button control
- ▶ Control voltage 24 V DC
- ▶ Aluminium die–cast body small, light, rugged
- ▶ High duty rating FEM 3m /ISO M6 rating through 500 Kg

Options:

- ▶ Plain and gear trolley
- ▶ Motorized trolley (inverter controlled – dual speed)



Aluminium die-cast body
Compact and robust housing

Hanging suspension
Easy to assemble / disassemble

Heavy duty fan-cooled motor

Low maintenance due to:

- No transformer
- No magnetic contactor
- No brake contactor
- No brake coil

Plastic chain container

Frequency inverter
Adjustable lifting speed
standard speed ratio 6:1

KITO

Lever Hoist LB Series

Up to 9 t

The Original
Constantly
improved



Extract from the publication:

Technik + Schifffahrt 5/2009

The height has been reduced in comparison to conventional ratchet hoists, so that it can be used easily in confined spaces. The KITO ratchet hoist model LB also stands out due to its unique chain free-wheel mechanism with load fall protection, robust and ergonomic lever, a nickel-plated load chain with long service life, hook closure with safety device, reliable brake and lightweight compact design.



LB016

Standards:

- ▶ Freewheel safeguard
(Not LB without freewheel mechanism)
- ▶ Quad riveted bottom hook
- ▶ Nickel-plated load chain Grade V (G100)
in accordance with standard EN 818-7



Options:

- ▶ with friction clutch LB-OLL
- ▶ Without freewheel mechanism LB-OF
- ▶ Overload signal LB-LOS
- ▶ Wire rope clip
- ▶ Shipyard hook

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Where dynamic forces can occur,
KITO recommends the LB-OF
without freewheel mechanism



LB016-OF



LB016-OLL

Lever Hoist LX Series

250 kg and 500 kg

The small one
Operation in
limited space



Extract from the publication:

KEM Sonderheft 6/2009

Light ratchet hoist. They are predominantly used where delicate parts need to be joined together in tight spaces. The LX is designed for loads of 250 kg and 500 kg. In this hoist, the focus is on its compact form, small dimensions and light weight, thanks to its aluminium housing.

... A further advantage is the small, fine-tolerance load chain. For example, the LX003 has a 250kg load capacity and a chain diameter of just 3.2 mm (with the LX005 a capacity of 500 kg and a chain diameter of 4.3 mm) which provides efficient and smooth operation. The hand lever is 150 or 180 mm respectively long, which means this device can prove itself even when there is no room at all.



LX003

LX005

Manual Chain Hoist CX Series

250 kg and 500 kg

The Light One
Small and
compact, robust
and shockproof

Extract from the publication:

Material Handling 2/2009

As small as a beer coaster. At just 2.4 kg in weight, 217 mm size and with a load capacity of 250 kg, the KITO manual chain hoist CX003 is unmatched as one of the smallest and lightest chain hoists around. The body is made of aluminum and has counter-sunk screws. The manual chain hoist is equipped with overload protection as standard. Next to the CX003 Kito also offers this manual chain hoists series in the capacity of 500 kg. Thanks to its robust and enduring quality the CX series enables a maximum in lifting capacity next to its highly ergonomic design.

**With
Overload
Limiter**



CX003

CX005

Manual Chain Hoist CB Series

Up to 50 t

The Robust One
Simplicity,
durable and
reliable



Extract from the publication:

Handling 3/2009

For special uses. KITO CB series manual chain hoists have a shock-resistant gear casing, double ratcheted spring, precision gears and double casing to protect against dust and water, secure and reliable mechanical brake, load chain guide and a nickel-plated load chain with long service life. They are impressive because they are reliable, durable and easy to use. A range of load-bearing capacities from 500 kg to 50 t, even up to 100 tons with special designs, facilitates a broad variety of applications for these manual chain hoists.

... The load chain has a break strength of 1,000 N/mm² and corresponds to quality grade V.

Standards:



Options:

- ▶ Geared trolley
- ▶ Plain trolley
- ▶ Canvas chain bucket
- ▶ Overload limiter



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CB010



CB500

Please get in contact with us about our special CB Offshore Versions.

KITO

Manual Chain Hoist CB – ATEX

Up to 3 t

EX-protected
Ex II 2 G c II BT4
Ex II 2 D c 135 °C

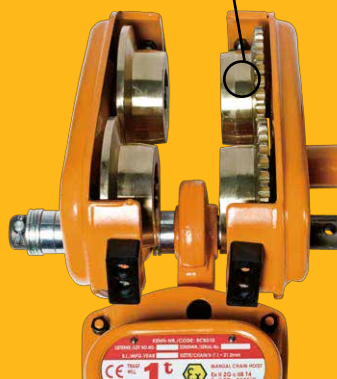


- ▶ **Allows the operation in potentially explosive atmosphere**
Conforms to ATEX Directive 94/9/EC
- ▶ **Increased safety for temperature limit range**
Maximum equipment temperature 135 °C
- ▶ **Safe operation in potentially explosive atmosphere**
Protected against explosive gases, vapors and dust



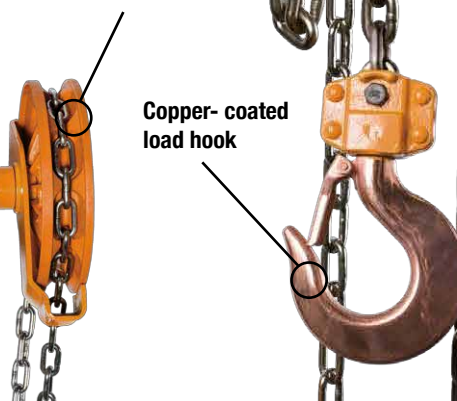
Made in Japan!

Solid bronze
(Bronze coated for 3 t)



Hand chain
SUS 304

Copper-coated
load hook



Manual Chain Hoist

High Speed CB

Up to 50 t

The fast one
 Increase productivity
 and give your
 business a lift



▶ **Planetary gear system enables seven times faster lifting and lowering speed**

than traditional hoists when repositioning an unloaded hook (if the load is up to 10 % of WLL)

▶ **Highly abrasion resistant**

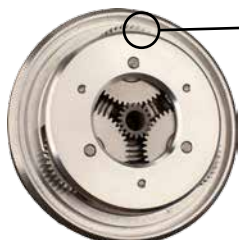
Kito NP load chain is nickel-plated and heat-treated for high, uniform strength

▶ **Maintenance-free sealed bearings**

increase reliability and reduce hand chain pull

▶ **Long service life**

Heat-treated gears and load bearing parts are hardened for long, trouble-free life



New quick-clutch
 Mechanism that shifts from normal operation to seven times lifting and lowering speed

Manual Chain Hoist Yellow CF Model

Up to 3 t

The fast one
Sleek smooth
design
Robust



Step up to Kito quality
and safety

- ▶ **Increased productivity**
Single reduction gearing maximizes lifting and lowering speed and saves time
- ▶ **Aluminium die-cast body**
durable, corrosion-resistant and lightweight
- ▶ **Double housing**
for protection against dust and water
- ▶ **Kito NP nickel plated grade 100 load chain**
outstanding corrosion-resistance, ultra-smooth surface

Made in Japan!

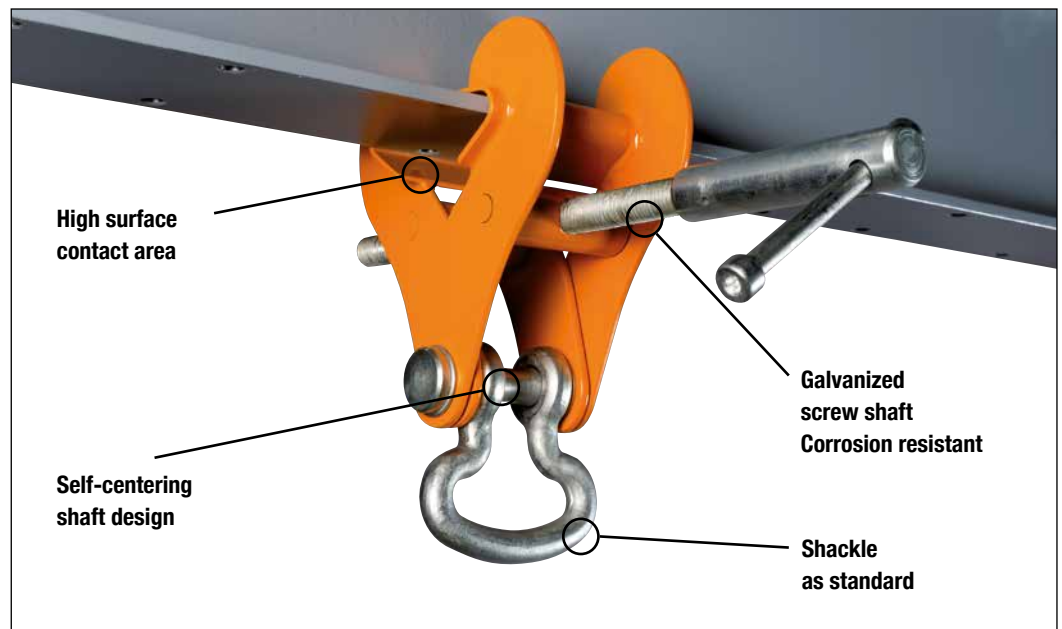
Beam clamp TK Model Up to 10 t

Safe and rugged



Designed and manufactured in Europe!

- ▶ Unique shackle design
- ▶ New rugged design
- ▶ Wide range of capacities
- ▶ Optimized handling for textile slings
- ▶ Galvanized screw shaft corrosion resistant
- ▶ High surface contact jaws distribute load evenly
- ▶ Suitable for angle pulling
- ▶ Self-centering shaft



KITO

Manual Chain Hoist SHB Model

Up to 10t

With Geared Trolley
Short Headroom Trolley Hoist



- ▶ Shock resistant gear case
- ▶ Minimized manual effort due to efficient drive train
- ▶ Highly accurate gear
- ▶ Double enclosures protect against dust and water

Made in Japan!

Trolleys

The Mobile One

Universal trolleys

Standard: rubber bumper, lugs



Plain trolley TSP 125 kg – 3 t



Plain trolley TSP 5 t



Geared trolley TSG 125 kg – 3 t



Geared trolley TSG 5 t – 20 t



Motorized trolley MR2 125 kg – 20 t



Short Head Block SHB 1 t – 5 t

Electric Chain Hoist ER Series

Up to 5 t

The Short One Utilization of the effective height



Extract from the publication:

Logistik Journal 4/2009

When every centimeter counts: chain hoist from KITO. The SHER2M electric chain hoist is in demand when it comes down to every centimeter.

... A special low headroom design facilitates variable use. Important: the load can be carried up to in front of the beam. The SHER2M fulfills diverse tasks with frequency inverter technology or 24-volt contactor control. The device can be adjusted to the specific transport or production process required.



SHER2M010IS-IS

With motorized trolley MR2
Dual lifting and dual traversing
speed

Electric Chain Hoist

ER Series

Up to 5 t

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The Long One

Secure and synchronous lifting



Extract from the publication

dima 4/2009

Synchronous motion cycles in one hoist. The TWER2M double hook electric hoist is ideal wherever loads must be kept horizontal or you need to lift and lower loads simultaneously: It is primarily designed for rolled profile girders and is used especially to handle long goods, such as pipes and profile rods, etc. The hooks can be spaced according to the long goods and to customer specifications.

The developers at KITO stress that the operator does not need to guide the load manually. Frequency inverter operation takes care of this, allowing loads to be positioned gently with pinpoint accuracy.

Extract from the publication:

dhf intralogistik 11/2008

... It is equipped with double load chain gear, which keeps the chain synchronous. This saves the customer from buying two chain hoists, as this task is normally affected with two hoists running synchronously. This technical configuration gives KITO a unique selling point – from both a technical and pricing perspective.

TWER2M010IS-IS

With motorized trolley MR2
Dual lifting and dual traversing
speed

Jib Crane Systems KE Series

Up to 20 t



KE-P-PS shown with EQ,
plain trolley and optional
base plate mounting kit

Complete workstation lifting systems

Kito's KE Series jib crane systems are perfectly matched to your industrial lifting needs. The smoothest and most vibration-free system available due to soft-start and soft-stop inverter controlled hoist. Hoisting speeds are programmable to match your specific needs.

Standard features include:

- ▶ **Bounce-free lifting**
Inverter controlled hoist insures super-smooth lifting and lowering
 - ▶ **Column or wall-mounted designs**
Maximize both floor space and lifting height
 - ▶ **Precision fittings and bearings**
Ensures the lightest, easiest motion and ultimate load control
 - ▶ **100 % jig-fitted components**
with automatic welding to ensure safety and long life
- ▶ Jib crane with integrated main line disconnect switch
 - ▶ EQ Series inverter-controlled electric chain hoist with TSP plain trolley (through 1 t)
 - ▶ ER2M Series inverter-controlled electric chain hoist with MR2 Series inverter controlled motorized trolley (1,6 t and above)
 - ▶ 3 or 5 button ergonomic pendant with emergency stop
 - ▶ Flat cable power supply festoon system in C-track
 - ▶ End stops with rubber bumpers for trolley end-travel
 - ▶ End stops with rubber bumpers for jib rotation (excludes 360 ° type)
 - ▶ Literature packet with owner's manual, drawings, installation guide, CE certificate, parts lists, etc.

SPECIAL FEATURES AND ACCESSORIES

Electric chain hoists

1) Special electric features

- ▶ Single push button station controlling multiple hoists (with selector switch for simultaneous / individual hoist control).
- ▶ Special push button stations (7 button, etc).
- ▶ Customer preferred brand for pendant or radio control.
- ▶ Special motor insulation class.
- ▶ Hoists less controls (for direct control).
- ▶ Safety and warning indicators (start-up light/horn, etc.).
- ▶ Trolley travel limit switches.
- ▶ Festooning / electrification systems.
- ▶ Electromechanical overload limiter.
- ▶ Multiple position geared limit switches.
- ▶ Emergency brake release for ER2 (to lower load in case of power supply failure).
- ▶ Third party testing certifications such as UL, CSA etc.

2) Mechanical features

- ▶ Special painting / coatings for marine, acid and other applications.
- ▶ Higher / lower temperature limits.
- ▶ Special self-locking and other hooks.
- ▶ Steel chain containers.
- ▶ Parking brake for manual trolley.
- ▶ Offshore industry solutions and applications.
- ▶ Anti-corrosion and stainless steel options.

Manual chain hoists

- ▶ Special painting / coatings for marine, acid and other applications.
- ▶ Offshore industry solutions and applications.
- ▶ Higher / lower temperature limits.
- ▶ Special self-locking and other hooks.
- ▶ Parking brake for manual trolley.
- ▶ Blackened chain for LB, CB and CF (reduced weld splatter).

Special application products

- ▶ Food grade manual or electric hoists.
- ▶ Low headroom ATEX hoists.
- ▶ Clean room manual or electric hoists.

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