Ultimate Light-weight & Compact Size, Meticulous Dedicated Design

KITO ELECTRIC CHAIN HOIST

EQ

Single Phase
Dual Speed Inverter Type
Equipped with
Electronic Overload Protection Device (OLL)
and Friction Clutch

Cool Design and Intelligent Function
Highlighting the Global Industry with Technology
Ultimate KITO Electric Chain Hoist EQ Now Released

Dual Speed Inverter Type
Equipped with
Electronic Overload Protection Device (OLL)
and Friction Clutch

KITO ELECTRIC CHAIN HOIST
EQ
500kg-1t

New KITO Electric Chain Hoist EQ maximizes
the characteristics of its dual speed inverter.
And we stick with the control design.
Motor-frame integration has materialized an ultimate light-weight,
compact size, while maintaining high functions.
Equipped with OLL; the electronic overload protection device
and friction clutch to ensure operational safety
and environmental friendliness.
Designed light-weight and compact, unique-shape push button switches
are easy to grab and operate.
KITO New Electric Chain Hoist is released now.
You can experience the new design!

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Electronic Overload Protection Device (OLL)

KITO ELECTRIC CHAIN HOIST
Dual Speed Inverter Type
and Friction Clutch
Equipped with
500kg-1t

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Equipped with OLL; the electronic overload protection device
compact size, while maintaining high functions.
Motor-frame integration has materialized an ultimate light-weight,
And we stick with the control design.
The characteristics of its dual speed inverter.

New KITO Electric Chain Hoist EQ maximizes

Integrated body protecting the high performance and high functions
> Outstanding rigidity, high dust-proofness and water-proofness suitable for severe environments and working conditions
> No-Load High-Speed Function
> Simply-structured integrated body with less component parts
> Dust-proof and jet-proof body (IP55)

Combination of idea and technology materializing light-weight size

Meticulous inverter dedicated design
> Fully miniaturized mechanical parts taking into account inverter-based smooth start and stop
> Transformer-free structure based on the inverter DC power
> Thermal protector-free structure based on the electronic thermal system

Double safety mechanism preventing the accident at the occurrence of abnormal load

Equipped with a friction clutch and electronic overload limiter
> The friction clutch prevents breakage of the hoist body and load chain at the occurrence of abnormal load such as an overload and lifting an anchored object.
> The electronic overload limiter detects an overload with the inverter and stops operation immediately.

Shutting off the current to the motor at the time of excessive lifting/lowering to prevent an accident
> The upper-lower limit switch prevents damage on the hoist body and load chain at the time of excessive lifting/lowering.
> Simply-structured upper-lower limit switch considering reduction of dead space

Meticulous long-life design
> Motor with an ingenious external cooling fan
> Oil bath lubrication type gear box
> Optimally shaped motor frame fins and fan cover
> Intermittent rating 40/20% ED

Suitable for severe environments and working conditions

Simple design with Grade M6 (500kg) M5 (1t)

World-class KITO original chain
Superstrong nickel-plated load chain
> Highly enhanced fatigue and wear resistance due to ingenious technology
> Special alloy steel quenched chain with high strength, durability and accuracy

Visual indication of maintenance timing
> Capable of showing the number of starts of the hoist and the hoist’s total on-time in the Data Display, allowing maintenance and inspection according to the frequency of use.
> Capable of controlling the inspection and replacement timings of component parts, etc. to suggest a maintenance plan for safety operation.

Shutting off the motor circuit in case of emergency
> Capable of shutting off the motor circuit at hand by pressing the emergency stop button.
> Originally designed easy-to-operate push button switch based on ergonomics
> 24 V DC operating voltage for higher safety

Higher work efficiency of the inspector

Higher maintainability
> Easy removal of a suspension eye by installing a connecting shaft at the upper part of the body
> Centralized control by the inverter minimizes the number of electric parts and equipment and minimizes replacement parts.

Environmentally friendly
> Free from 15 environmentally hazardous substances specified by KITO, including 6 European RoHS directive substances
> Lower noise during operation and braking due to a 4-pole motor and pull-rotor brake

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- Push button control
5 Reliable Safety
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- Electronic thermal protector
- Pull rotor type drum brake
- Emergency stop
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- Connecting shaft & suspension-eye
- CH (counter hour) meter
6 Enhanced Durability
- High end duty rating
- Unique motor frame fins & fan cover
- Load chain
Environmentally Friendly
- No hazardous substances
- Lower noise
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Smooth & Ergonomic Operation

Lifting speed comparison

- Pole-change motor
- EQ Dual speed inverter

The dual speed inverter delivers smoother movement than the pole change motor, reducing load swing. The high to low speed ratio can be set to a large value. This results in smooth starts, improved low speed stops, and improved positioning accuracy. The standard speed ratio is 6:1 (500kg) 4:1 (1t).

A No-load High-Speed Function is equipped as standard feature, allowing its hoisting speed, faster during no-load operation. When the no-load condition is detected by the inverter, this function is activated automatically to switch to high speed operation, leading to improving the work efficiency with ease and safety. This function is easily activated (ON/OFF) with the push button control.

EQ inverter unit is well-customized for lifting applications including exclusive software with optimum control and is also provided with measures against impact and heat which were verified through long run tests.

Push button control
original design

The push button control is designed in an ergonomic shape that is operator friendly. Seeking ease of operation and universal design, KITO’s original push button control is designed and manufactured based on trial and error repeated many times, in particular, upgrading prototypes and evaluation from an enduser point of view especially with respect to unit strength. Contoured to comfortably fit into your hand. The button has a light operating sensation which responds to fine adjustments in pressure. The pressing stroke is short. The operator, therefore, will not become fatigued after long-periods of operation.
Reliable Safety

Electronic overload limiter & friction clutch & upper-lower limit switch  triple safety
Maintaining safety is the most important task for lifting equipment, and is essential for stable operation. To ensure safety, KITO utilizes a triple safety mechanism consisting of an originally developed electronic overload limiter and friction clutch and upper-lower limit switch. When the inverter detects an overload, the electronic overload limiter turns off the power to the motor to stop lifting the load.

The friction clutch is an emergency overload protection device that idles the motor when subjected to an excessive load over the rated capacity. Friction clutch performance is not easily compromised with changes in the surrounding temperature.

In the case of irregular loading, this operates in advance to prevent the hoist body or load chain from being damaged.

In the event that a load is lifted or lowered excessively, the limit switch stops the motor, preventing hoist or load chain damage. (Not regular use)

Electronic thermal protector
To prevent the motor from burning out due to excessive usage, a standard thermal protector is installed in the inverter.

Pull rotor type drum brake
With a rotor and pull rotor incorporated in the motor, this is a cone type drum brake which is released at the time of operation. When the power is shut off, the brake is activated, ensuring safety.

Emergency stop
The emergency stop, provided as standard, allows the motor power to be disconnected in an emergency without cutting off the main power supply.

Easier Maintenance

Connecting shaft & suspension-eye
The connecting shaft mounted on the outside of the EQ. This allows a suspension-eye to be attached or removed with ease.

CH (counter hour) meter
As a standard feature, the hoist’s total on-time and the number of moving starts are shown on the Data Display of the Inverter. This enables the user to carry out maintenance based upon the frequency of use.

By maintaining a history of the CH meter data, the inspection periods and replacement periods for gear oil, brakes and load chains can be efficiently controlled, allowing the equipment to be used with confidence.
Enhanced Durability

High end duty rating
The EQ achieves 500kg M6 (ISO) /3m (FEM) 1t M5 (ISO) /2m (FEM) class (refer to section of "Hoist Classifications"), with a duty cycle of 40/20% ED. Supporting use in the most demanding environments and conditions, this long service lifed hoist is a heavy-duty product which is also applicable to high frequency or long lift operations.
The gearbox is lubricated in an oil bath. As a result of this, wear and tear has been improved and cooling has also been enhanced at the same time.

Unique motor frame fins & fan cover
A unique fan-cooled motor with motor frame fins and a fan cover have been configured into a purpose built design. This design produces a much quieter motor unit as well as enhanced fan cooling capabilities.

Load chain super strength
KITO’s world class original super-strength nickel-plated load chain certified by German Institute, uses unique technology to greatly increase resistance to fatigue and wear. At KITO, testing is continuously being carried out regarding the load chain fatigue, wear, tensile strength, and environment. KITO takes pride in manufacturing load chains that have strength, durability and accuracy for utilization in the product.

Environmentally Friendly

No hazardous substances
As an environmental measure, several environmentally hazardous substances specified by KITO, including 6 European RoHS directive substances, are not used.

Lower noise
The utilization of the inverter, 4-pole motor as well as the drum brake, reduces the noise during operation and braking.
**Enhanced Durability**

*High end duty rating*

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The gearbox is lubricated in an oil bath. As a result of this, wear and tear has been improved and cooling has also been enhanced at the same time.

**Load chain**

Super strength

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A unique fan-cooled motor with motor frame fins and a fan cover have been configured into a purpose built design. This design produces a much quieter motor unit as well as enhanced fan cooling capabilities.

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**Lower noise**

The utilization of the inverter, 4-pole motor as well as the drum brake, reduces the noise during operation and braking.

**Environmentally Friendly**

**EQ Electric Chain Hoist Lineup**

<table>
<thead>
<tr>
<th>Type</th>
<th>Lifting speed</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>500kg</td>
</tr>
<tr>
<td>Suspension Eye EQ</td>
<td>Dual Speed Inverter</td>
<td>●</td>
</tr>
<tr>
<td>With Plain Trolley EQSP</td>
<td></td>
<td>●</td>
</tr>
</tbody>
</table>

**Trolleys**

**Plain Trolley TSP**

- Designed for light load manual applications (500kg-1t)
- Designed to provide smooth and easy traversing.
- Lugs provide protection from striking damage against rail stoppers, and from falling off the rail.
- Wheel flanges also prevent derailment.

**Lifting Speed (Single Phase)**

<table>
<thead>
<tr>
<th>EQ</th>
<th>50Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>High</td>
</tr>
<tr>
<td></td>
<td>50Hz</td>
</tr>
<tr>
<td>500kg</td>
<td>7.6</td>
</tr>
<tr>
<td>1t</td>
<td>5.1</td>
</tr>
</tbody>
</table>

KITO will not be held liable for any malfunction, lack of performance or accident if the product is being used in conjunction with any other equipment. If the product is to be used for unintended purposes, please confirm with your dealer in advance.
Mechanisms subjected very rarely to the maximum load and, normally, to light loads

Mechanisms subjected fairly frequently to the maximum load but, normally, to rather moderate loads

Mechanisms subjected frequently to the maximum load and, normally, to loads of heavy magnitude

Light machine shop fabricating, service, and maintenance; loads and utilization randomly distributed; rated loads infrequently handled

General machine shop fabricating, assembly, storage, and warehousing; loads and utilization randomly distributed

High volume handling in steel warehouses, machine shops, fabricating plants and mills, and foundries; manual or automatic cycling operations in heat treating and plating; loads at or near rated load frequently handled

Mechanisms subjected regularly to the maximum load

This classification refers to ISO 4301-1 and applies to the mechanical components including gears and bearings except for consumable parts.

The grade symbols are identical to those of FEM 9.511. (Rules for Design of Serial Lifting Equipment: Classification of Mechanisms)

Load spectrum

Cubic mean value

\[ K \leq 0.50 \]

\[ 0.50 < K \leq 0.63 \]

\[ 0.63 < K \leq 0.80 \]

\[ 0.80 < K \leq 1.00 \]

\[ V_{0.06} \leq 0.12 \]

\[ V_{0.25} \leq 0.5 \]

\[ V_{1} \leq 2 \]

\[ V_{2} \leq 4 \]

\[ V_{3} \leq 8 \]

\[ V_{4} > 16 \]

\[ T_{0} \leq 0.12 \]

\[ T_{1} \leq 0.25 \]

\[ T_{2} \leq 0.5 \]

\[ T_{3} \leq 1 \]

\[ T_{4} \leq 2 \]

\[ T_{5} \leq 4 \]

\[ T_{6} \leq 8 \]

\[ T_{7} \leq 16 \]

\[ T_{8} > 16 \]

\[ 200 \]

\[ 400 \]

\[ 800 \]

\[ 1600 \]

\[ 3200 \]

\[ 6300 \]

\[ 12500 \]

\[ 25000 \]

\[ 50000 \]

ISO/JIS – M1

M2

M3

M4

M5

M6

M7

M8

V0.06

T0

\[ V_{0.25} \leq 0.5 \]

\[ V_{1} \leq 1 \]

\[ V_{2} \leq 2 \]

\[ V_{3} \leq 4 \]

\[ V_{4} \leq 8 \]

\[ V_{5} > 16 \]

\[ T_{0} \leq 0.12 \]

\[ T_{1} \leq 0.25 \]

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\[ T_{4} \leq 2 \]

\[ T_{5} \leq 4 \]

\[ T_{6} \leq 8 \]

\[ T_{7} \leq 16 \]

\[ T_{8} > 16 \]

\[ 200 \]

\[ 400 \]

\[ 800 \]

\[ 1600 \]

\[ 3200 \]

\[ 6300 \]

\[ 12500 \]

\[ 25000 \]

\[ 50000 \]

Typical areas of application

Max. No. starts/ hr

Max. on time from cold start, min

Max. No. of starts

Max. on time, min/ hr

Operation time ratings at \( \gamma = 0.65 \)

Uniformly distributed work periods

Infrequent work periods

Product Code

Chain Containers

Type of containers

Plastic

Canvas (Option)

Product Configurations

* Please contact us.
**Hoist Classifications**

### ISO/JIS

<table>
<thead>
<tr>
<th>State of loading</th>
<th>Total duration of use (h)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>200</td>
</tr>
<tr>
<td>Light</td>
<td>-</td>
</tr>
<tr>
<td>Moderate</td>
<td>-</td>
</tr>
<tr>
<td>Heavy</td>
<td>M1</td>
</tr>
<tr>
<td>Very heavy</td>
<td>M2</td>
</tr>
</tbody>
</table>

This classification refers to ISO 4301-1 and applies to the mechanical components including gears and bearings except for consumable parts.

### FEM

**Relation between ISO-and FEM-Denominations**

<table>
<thead>
<tr>
<th>Load spectrum</th>
<th>Cubic mean value</th>
<th>Class of operation time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>V 0.06 V 0.02 V 0.25 V 0.5 V 1 V 2 V 3 V 4 V 5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>T 0 T 1 T 2 T 3 T 4 T 5 T 6 T 7 T 8</td>
</tr>
<tr>
<td>1 L1</td>
<td>K≤0.50</td>
<td>≤0.12 ≤0.25 ≤0.5 ≤1 ≤2 ≤4 ≤8 ≤16 &gt;16</td>
</tr>
<tr>
<td>2 L2</td>
<td>0.50&lt;K≤0.63</td>
<td>≤1 Dm 1 Cm 1 Bm 1 Am 2 m 3 m 4 m 5 m</td>
</tr>
<tr>
<td>3 L3</td>
<td>0.63&lt;K≤0.80</td>
<td>1 Dm 1 Cm 1 Bm 1 Am 2 m 3 m 4 m 5 m</td>
</tr>
<tr>
<td>4 L4</td>
<td>0.80&lt;K≤1.00</td>
<td>1 Cm 1 Bm 1 Am 2 m 3 m 4 m 5 m</td>
</tr>
</tbody>
</table>

The grade symbols are identical to those of FEM 9.511. (Rules for Design of Serial Lifting Equipment: Classification of Mechanisms)

### ASME HST

**Operation time ratings at K=0.65**

<table>
<thead>
<tr>
<th>Hoist duty class</th>
<th>Typical areas of application</th>
<th>Uniformly distributed work periods</th>
<th>Infrequent work periods</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Max. on time, min/hr</td>
<td>Max. No. starts/hr</td>
</tr>
<tr>
<td>H2</td>
<td>Light machine shop fabricating, service, and maintenance; loads and utilization randomly distributed; rated loads infrequently handled</td>
<td>7.6 (12.5%)</td>
<td>75</td>
</tr>
<tr>
<td>H3</td>
<td>General machine shop fabricating, assembly, storage, and warehousing; loads and utilization randomly distributed</td>
<td>15 (25%)</td>
<td>150</td>
</tr>
<tr>
<td>H4</td>
<td>High volume handling in steel warehouses, machine shops, fabricating plants and mills, and foundries; manual or automatic cycling operations in heat treating and platting; loads at or near rated load frequently handled</td>
<td>30 (50%)</td>
<td>300</td>
</tr>
</tbody>
</table>

The grade symbols are identical to those of ASME HST-1M. (Performance standard for Electric Chain Hoist)
Note: The high speed is preset to the maximum speed in KITO factory. The speeds are adjustable between High and Low.

Specifications

<table>
<thead>
<tr>
<th>Capacity (t)</th>
<th>Product Code</th>
<th>Hoist Body</th>
<th>Standard Lift (m)</th>
<th>Push Button Cord L (m)</th>
<th>Lifting Motor</th>
<th>Lifting Speed (m/min)*</th>
<th>No load High speed</th>
<th>Load Chain</th>
<th>Classification ISO/FEM/ASME</th>
<th>Test Load (t)</th>
<th>Net Weight (kg)</th>
<th>Additional Weight per 1m Lift (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>500kg</td>
<td>EQS005IS C</td>
<td></td>
<td>3</td>
<td>2.5</td>
<td>0.75</td>
<td>40/20</td>
<td>7.6</td>
<td>1.3</td>
<td>M6/3m/H4</td>
<td>625kg</td>
<td>33</td>
<td>0.71</td>
</tr>
<tr>
<td>1</td>
<td>EQS010IS D</td>
<td></td>
<td></td>
<td></td>
<td>1.5</td>
<td></td>
<td>5.1</td>
<td>1.2</td>
<td>M5/2m/H4</td>
<td>1.25</td>
<td>43</td>
<td>1.14</td>
</tr>
</tbody>
</table>

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Dimensions (mm)

<table>
<thead>
<tr>
<th>Capacity (t)</th>
<th>Product Code</th>
<th>Headroom C</th>
<th>D</th>
<th>a</th>
<th>b</th>
<th>d</th>
<th>e</th>
<th>f</th>
<th>g</th>
<th>h</th>
<th>i</th>
</tr>
</thead>
<tbody>
<tr>
<td>500kg</td>
<td>EQS005IS</td>
<td>410</td>
<td>485</td>
<td>417</td>
<td>367</td>
<td>230</td>
<td>187</td>
<td>296</td>
<td>27</td>
<td>137</td>
<td>128</td>
</tr>
<tr>
<td>1</td>
<td>EQS010IS</td>
<td>465</td>
<td>535</td>
<td>433</td>
<td>403</td>
<td>245</td>
<td>188</td>
<td>332</td>
<td>31</td>
<td>154</td>
<td>142</td>
</tr>
</tbody>
</table>

• Standard length of power supply cable is five meters.
• Optional length of lift, push button cord and power supply cable besides standard is available on your request.
• Extending the load chain is prohibited with additional links.

Suspension Eye & Bottom Hook

Dimensions (mm)
Specifications

<table>
<thead>
<tr>
<th>Capacity (t)</th>
<th>Product Code</th>
<th>EQ</th>
<th>EQSP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>EQ</td>
<td>EQSP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hoist Body</td>
<td>Standard Lift (m)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>500</td>
</tr>
<tr>
<td>500kg</td>
<td>EQSSP005IS</td>
<td>C</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>EQSSP010IS</td>
<td>D</td>
<td>1.5</td>
</tr>
</tbody>
</table>

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Dimensions (mm)

<table>
<thead>
<tr>
<th>Capacity (t)</th>
<th>Product Code</th>
<th>Headroom C</th>
<th>D</th>
<th>a</th>
<th>b</th>
<th>e</th>
<th>g</th>
<th>h</th>
<th>i</th>
<th>j</th>
<th>k</th>
<th>m</th>
<th>n</th>
<th>o</th>
<th>p</th>
<th>q</th>
<th>r</th>
<th>t</th>
</tr>
</thead>
<tbody>
<tr>
<td>500kg</td>
<td>EQSSP005IS</td>
<td>430</td>
<td>505</td>
<td>264</td>
<td>182</td>
<td>46</td>
<td>27</td>
<td>82</td>
<td>60</td>
<td>19</td>
<td>76</td>
<td>47.5</td>
<td>84</td>
<td>42</td>
<td>10</td>
<td>54</td>
<td>38</td>
<td>22</td>
</tr>
<tr>
<td>1</td>
<td>EQSSP010IS</td>
<td>490</td>
<td>565</td>
<td>284</td>
<td>236</td>
<td>56</td>
<td>31</td>
<td>106</td>
<td>71</td>
<td>25</td>
<td>95</td>
<td>56</td>
<td>112</td>
<td>50</td>
<td>10</td>
<td>69</td>
<td>50</td>
<td>25</td>
</tr>
</tbody>
</table>

Technical Documents

Electric Chain Hoist Rated Currents

For lifting

<table>
<thead>
<tr>
<th>Type</th>
<th>Motor output (kW)</th>
<th>Rated current (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EQS005IS</td>
<td>0.75</td>
<td>14.5</td>
</tr>
<tr>
<td>EQS010IS</td>
<td>1.5</td>
<td>19.5</td>
</tr>
</tbody>
</table>

Power Supply Cable Allowable Lengths (EQ)

See the following table for the standard power supply cable allowable lengths and sizes. When using the cable of other size than those mentioned in the table, determine the cable length by the right formula.

\[
\text{Allowable length (m)} = \frac{1000}{35.6} \times \frac{1}{\text{Cross-sectional area of 1 core wire (mm}^2\text{)}} \times \text{Rated voltage (V)} \times 0.02 \times \text{Rated current (A)}
\]

<table>
<thead>
<tr>
<th>Type</th>
<th>Cable size (mm²)</th>
<th>Rated current (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EQS005IS</td>
<td>2 (3.5)</td>
<td>33 (58)</td>
</tr>
<tr>
<td>EQS010IS</td>
<td>3.5 (5.5)</td>
<td>43 (67)</td>
</tr>
</tbody>
</table>

Note: Parenthesized values denote the size one rank above the standard one.
The functions and performance of the products mentioned in the catalog have been designed based on the related regulations and standards. If they are used for other than their intended purposes such as being integrated into your equipment, we will not take any responsibility for accidents attributable to their unintended usages as well as guarantee their performance and functions. Never remodel our products.

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