Ultimate Light-weight & Compact Size, Meticulous Dedicated Design

KITO ELECTRIC CHAIN HOIST

EQ

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
125kg-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!
**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**

**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 inspection 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
EQ Electric Chain Hoist

Structure and Features
Safe and Durable Structure with High Maintainability

- Environmentally friendly
  KITO-specified 15 environmentally hazardous substances, including 6 European RoHS directive substances, are not used. Noise during operation and braking has been reduced by using a 4-pole motor and pull-rotor brake.

- Safe and reliable brake structure
  A drum brake stops a load unfailingly.

- Temperature rise inhibition by the cooling fan
  The fan attached to the end of the motor shaft feeds the cooling air to the body, motor cover and regenerative resistors to prevent the temperature rise of the hoist body during operation.

- Low-noise gear mechanism
  Use of helical gears greatly reduces operating noise.

- Gear box
  Lubrication by the oil bath enhances wear resistance of the gears as well as a cooling effect.

- Chain container
  Durable plastic containers as standard.

- Nickel-plated chain
  KITO’s original chain with high toughness and fatigue strength has been plated with nickel. It has excellent wear resistance.

- World-class superstrong load chain
  This is KITO’s original special alloy steel quenched chain developed by long years of research. The load chain is produced through the fully automated production facilities from material-loading to completion under high quality control. It has the hard surface to enhance wear resistance and is well-balanced between its strength and toughness in the core section. It is excellent in strength, durability and accuracy.

- Hook with skid-free hook latch (Bearing contained)
  Even if overloaded, the bottom hook is only gradually deformed and does not break. A notched skid-free hook latch has enhanced its durability.

- Suspension eye connectable to any part
  Use of a suspension eye allows applications to various usages.

- Connecting Shaft
  An access section to the connecting shaft is installed outside the body so as to easily remove the suspension eye.

- Aluminum die-cast body
  The body and motor frame have been integrated to make the entire body tough and compact.

- Enclosure
  Dust-protected and jet-protected (IP55)

- Inverter incorporated functions
  The CH meter (counter/hour meter) function incorporated in the inverter allows you to check the number of starts of the hoist and the hoist’s total on-time, and carry out maintenance and inspection according to the frequency of use. An electronic overload limiter is provided to make the inverter detect an overload and stop lifting operation. The inverter detects the load condition, and if there is no load, a no-load high speed function is activated to automatically switch to high speed operation.

- Friction clutch
  Originally developed as an emergency overload protection by KITO to slip the force from the motor in such lifting an anchored object.

- Upper-lower limit switch
  Triple safety mechanism combined with the friction clutch and electronic OLL. The circuit is shut off at the time of excessive lifting and lowering. * This is for emergency. Do not use it regularly.

- Chain guide
  KITO’s uniquely-structured for smooth chain-feeding.

Push button control
Newly developed minute current type push button switch responds to the 24 V DC inverter power. Compact design for easy grasp. * 3 and 5 buttons only

- Inverter incorporation functions
  The inverter detects the load condition, and if there is no load, a no-load high speed function is activated to automatically switch to high speed operation.

- Speed
  High to Low
  Speed
  Low
  Low
  Low
  Adjusted
  Smooth start
  Smooth stop
  Smooth transitional speed
  Transition
  Smooth
  Adjusted
  Smooth transitional speed
  Transition
  Smooth

- Operating time
  High speed
  Adjusted
  Smooth start
  Smooth stop
  Smooth transitional speed
  Transition
  Smooth
  Adjusted
  Smooth start
  Smooth stop
  Smooth transitional speed
  Transition
  Smooth

- Inverter incorporated functions
  The CH meter (counter/hour meter) function incorporated in the inverter allows you to check the number of starts of the hoist and the hoist’s total on-time, and carry out maintenance and inspection according to the frequency of use. An electronic overload limiter is provided to make the inverter detect an overload and stop lifting operation. The inverter detects the load condition, and if there is no load, a no-load high speed function is activated to automatically switch to high speed operation.

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Smooth & Ergonomic Operation

Inverter
smooth transitional speed

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.

A No-load High-Speed Function is equipped as standard feature, allowing its hoisting operation, leading to improving the work efficiency with ease and safety. This function is easily activated (ON/OFF) with the push button control.

EQ/MR2Q inverter unit is well-customized for lifting/traversing 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.

Accelerating and decelerating time in addition to speed are adjustable for dual speed inverter trolley.
Enhanced Durability

Reliable Safety

High end duty rating
The EQ achieves M6(ISO)/3m(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.

Load chain super strength
KITO's world class original supper-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.

Easier Maintenance

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.

Environmentally Friendly

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.

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.

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.

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.

Easier Maintenance
Enhanced Durability

High end duty rating
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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.

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.
## EQ Electric Chain Hoist Lineup

### EQ Outline

<table>
<thead>
<tr>
<th><strong>Rated capacity:</strong></th>
<th>125kg-1t (Dual speed)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Voltage:</strong></td>
<td>200-230V 50/60Hz</td>
</tr>
<tr>
<td></td>
<td>380-460V 50/60Hz</td>
</tr>
<tr>
<td><strong>Control voltage:</strong></td>
<td>DC 24V</td>
</tr>
<tr>
<td><strong>Duty rating:</strong></td>
<td>40/20% ED</td>
</tr>
<tr>
<td><strong>Classification:</strong></td>
<td>1t: M5 (ISO/JIS), 2m (FEM), H4 (ASME)</td>
</tr>
<tr>
<td></td>
<td>125-500kg: M6 (ISO/JIS), 3m (FEM), H4 (ASME)</td>
</tr>
<tr>
<td><strong>Motor insulation:</strong></td>
<td>Class B</td>
</tr>
<tr>
<td><strong>Enclosure:</strong></td>
<td>Hoist body: IP55, Push button control: IP65</td>
</tr>
<tr>
<td><strong>Suspension varieties:</strong></td>
<td>Manual trolley, motorized trolley</td>
</tr>
<tr>
<td><strong>Operating temperature:</strong></td>
<td>-20 - +40°C (-4 - +104°F)</td>
</tr>
<tr>
<td><strong>Operating humidity:</strong></td>
<td>85%RH or less</td>
</tr>
<tr>
<td><strong>Noise level:</strong></td>
<td>EQ, dual speed VFD model 80dB or less (A scale: measured at 1m away from the Electric chain hoist)</td>
</tr>
<tr>
<td></td>
<td>MR2Q 85dB or less (A scale: measured at 1m away from the Electric chain hoist)</td>
</tr>
<tr>
<td><strong>Sound power level:</strong></td>
<td>MR2Q 96dB or less (A scale)</td>
</tr>
</tbody>
</table>
EQ Electric Chain Hoist Lineup

<table>
<thead>
<tr>
<th>Type</th>
<th>Lifting speed</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suspension Eye EQ</td>
<td></td>
<td>125kg</td>
</tr>
<tr>
<td>With Motorized Trolley EQM</td>
<td></td>
<td>250kg</td>
</tr>
<tr>
<td>With Plain Trolley EQSP</td>
<td></td>
<td>500kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1t</td>
</tr>
</tbody>
</table>

Trolley Specifications

- **Motorized Trolley MR2Q**
  - Bearing built-in side rollers provide smooth running through the minimum radius curve and excellent traversing performance with preventive derailment.

- **Plain & Geared Trolley**
  - 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.

**Plain Trolley TSP**
- Designed for light load manual applications (125kg-1t)

### Lifting & Traversing Speed

#### EQ

<table>
<thead>
<tr>
<th>Capacity</th>
<th>50/60Hz</th>
<th>No-Load High-Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>125kg</td>
<td>17.0</td>
<td>2.8</td>
</tr>
<tr>
<td>250kg</td>
<td>10.0</td>
<td>1.7</td>
</tr>
<tr>
<td>500kg</td>
<td>7.6</td>
<td>1.3</td>
</tr>
<tr>
<td>1t</td>
<td>7.1</td>
<td>1.2</td>
</tr>
</tbody>
</table>

#### MR2Q

<table>
<thead>
<tr>
<th>Capacity</th>
<th>50/60Hz</th>
<th>Adjustable Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>125kg-1t</td>
<td>24</td>
<td>4</td>
</tr>
</tbody>
</table>

KTO 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.
Ex. for EQM010IS-IS, the electric chain hoist bears "EQ010IS" as a product code and the motorized trolley "MR2Q010IS".

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Lifting speed</th>
<th>Traversing speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Code</td>
<td>Code</td>
<td>Code</td>
</tr>
<tr>
<td>001</td>
<td>125 kg</td>
<td>IS</td>
</tr>
<tr>
<td>003</td>
<td>250 kg</td>
<td>IS</td>
</tr>
<tr>
<td>005</td>
<td>500 kg</td>
<td>IS</td>
</tr>
<tr>
<td>010</td>
<td>1 t</td>
<td>IS</td>
</tr>
</tbody>
</table>

Ex. for EQM010IS-IS, the electric chain hoist bears "EQ010IS" as a product code and the motorized trolley "MR2Q010IS".

**Chain Containers**

**Type of containers**

| Plastic | Canvas (Option) |

*Only Plastic Container is available for EQ010IS.*

**Product Configurations**

EQ

- 3-push button control
- Power supply cable

EQSP

- 5-push button control
- Suspension
- Plain Trolley
- Power supply cable

EQM

- 7-push button control
- Motorized trolley MR2Q
- Power supply cable
- Control box
- Crane
### 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>–</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>
<th>Average operating time per day in hours</th>
<th>Calculated total operating time (in hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Dm</td>
<td>1 Cm</td>
<td>1 Bm</td>
<td>1 Am</td>
<td>V0.06 T0</td>
</tr>
<tr>
<td>M 1</td>
<td>M 2</td>
<td>M 3</td>
<td>M 4</td>
<td>M1 M2 M3 M4 M5 M6 M7 M8</td>
</tr>
<tr>
<td>2 L2</td>
<td>K&lt;0.50</td>
<td>T 0</td>
<td>T 1</td>
<td>V0.06 T0</td>
</tr>
<tr>
<td></td>
<td>0.50&lt;K&lt;0.63</td>
<td>T 0</td>
<td>T 1</td>
<td>V0.12 T1</td>
</tr>
<tr>
<td></td>
<td>0.63&lt;K&lt;0.80</td>
<td>T 0</td>
<td>T 1</td>
<td>V0.25 T2</td>
</tr>
<tr>
<td></td>
<td>0.80&lt;K&lt;1.00</td>
<td>T 0</td>
<td>T 1</td>
<td>V0.5 T3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>T 2</td>
<td>T 3</td>
<td>V1 T4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>T 4</td>
<td>T 5</td>
<td>V2 T5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>T 6</td>
<td>T 7</td>
<td>V3 T6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>T 8</td>
<td>T 9</td>
<td>V4 T7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>T 10</td>
<td>V5 T8</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. of 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 plating; 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)
With Suspension Eye

• 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.

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 Output (kW)</th>
<th>Lifting Speed (m/min)*</th>
<th>No load speed</th>
<th>Load Chain Diameter (mm)</th>
<th>Chain Falls</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>125kg</td>
<td>EQ001IS</td>
<td>C</td>
<td>3</td>
<td>2.5</td>
<td>0.5</td>
<td>40/20</td>
<td>17.0</td>
<td>2.8</td>
<td>21.1</td>
<td>M6/3m/H4</td>
<td>156kg</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>250kg</td>
<td>EQ003IS</td>
<td>C</td>
<td>3</td>
<td>2.5</td>
<td>0.75</td>
<td>0.5</td>
<td>10.0</td>
<td>1.7</td>
<td>13.0</td>
<td>M5/2m/H4</td>
<td>313kg</td>
<td>0.71</td>
<td></td>
</tr>
<tr>
<td>500kg</td>
<td>EQ005IS</td>
<td>D</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>7.6</td>
<td>1.3</td>
<td>9.9</td>
<td>M5/2m/H4</td>
<td>625kg</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>EQ010IS</td>
<td>D</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>7.1</td>
<td>1.2</td>
<td>9.2</td>
<td>M5/2m/H4</td>
<td>1.25</td>
<td>42</td>
<td>1.14</td>
</tr>
</tbody>
</table>

Note: The high speed is preset to the maximum speed in KITO factory. The speeds are adjustable between High and Low.

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>125kg</td>
<td>EQ001IS</td>
<td>395</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>250kg</td>
<td>EQ003IS</td>
<td>465</td>
<td>417</td>
<td>367</td>
<td>230</td>
<td>187</td>
<td>298</td>
<td>27</td>
<td>137</td>
<td>128</td>
<td></td>
</tr>
<tr>
<td>500kg</td>
<td>EQ005IS</td>
<td>410</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>EQ010IS</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>

Suspension Eye & Bottom Hook Dimensions (mm)

<table>
<thead>
<tr>
<th>Capacity (t)</th>
<th>Product Code</th>
<th>Suspension Eye</th>
<th>Bottom Hook</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>b</td>
<td>R</td>
<td>i</td>
</tr>
<tr>
<td>125kg</td>
<td>EQ001IS</td>
<td>139.3</td>
<td>67.5</td>
</tr>
<tr>
<td>250kg</td>
<td>EQ003IS</td>
<td>153.6</td>
<td>71</td>
</tr>
<tr>
<td>500kg</td>
<td>EQ005IS</td>
<td>153.6</td>
<td>71</td>
</tr>
</tbody>
</table>
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>Standard Lift (m)</th>
<th>Push Button Cord (m)</th>
<th>Lifting Motor Load Chain (t)</th>
<th>Lifting Speed (m/min)*</th>
<th>Traversing Speed (m/min)</th>
<th>Load Chain Falls</th>
<th>Classification ISO/FEM/ASME</th>
<th>Traversing Motor Output (kW)</th>
<th>Traversing Motor Rating (%ED)</th>
<th>Flange Width B (mm)</th>
<th>Min. Radius Curve (mm)</th>
<th>Test Load (t)</th>
<th>Net Weight (kg)</th>
<th>Additional Weight per 1m Lift (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>125kg</td>
<td>EQM001S-IS</td>
<td>3</td>
<td>0.5</td>
<td>17.0</td>
<td>2.8</td>
<td>22.1</td>
<td>5.6 x 1</td>
<td>M6/3m /H4</td>
<td>0.4</td>
<td>27/13</td>
<td>58-153</td>
<td>54-305</td>
<td>156kg</td>
<td>63</td>
<td>0.71</td>
</tr>
<tr>
<td>250kg</td>
<td>EQM003S-IS</td>
<td>C</td>
<td>2.5</td>
<td>10.0</td>
<td>1.7</td>
<td>13.0</td>
<td>9.9</td>
<td>M5/2m /H4</td>
<td>0.4</td>
<td>27/13</td>
<td>800</td>
<td>313kg</td>
<td>625kg</td>
<td>66</td>
<td>1.25</td>
</tr>
<tr>
<td>500kg</td>
<td>EQM005S-IS</td>
<td>D</td>
<td>0.75</td>
<td>7.6</td>
<td>1.3</td>
<td>9.9</td>
<td>9.9</td>
<td>M5/2m /H4</td>
<td>0.4</td>
<td>27/13</td>
<td>250</td>
<td>625kg</td>
<td>1.25</td>
<td>66</td>
<td>1.14</td>
</tr>
<tr>
<td>1</td>
<td>EQM010S-IS</td>
<td>D</td>
<td>1.5</td>
<td>7.1</td>
<td>1.2</td>
<td>9.2</td>
<td>7.1 x 1</td>
<td>M5/2m /H4</td>
<td>0.4</td>
<td>27/13</td>
<td>0</td>
<td>250</td>
<td>1.25</td>
<td>66</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Note: The minimum radius curve may depend on flange width. For further information, contact the nearest KITO dealer.

The high speed is preset to the maximum speed in KITO factory. The lifting speeds are adjustable between High and Low and the traversing speeds are adjustable from 2.4 to 24.

### Dimensions (mm)

<table>
<thead>
<tr>
<th>Capacity (t)</th>
<th>Product Code</th>
<th>Headroom C</th>
<th>D</th>
<th>b</th>
<th>d</th>
<th>e</th>
<th>e’</th>
<th>g</th>
<th>i</th>
<th>j</th>
<th>k</th>
<th>m</th>
<th>n</th>
<th>r</th>
<th>t</th>
</tr>
</thead>
<tbody>
<tr>
<td>125kg</td>
<td>EQM001S-IS</td>
<td>420</td>
<td>515</td>
<td>315</td>
<td>220</td>
<td>515</td>
<td>179</td>
<td>27</td>
<td>95</td>
<td>27</td>
<td>130</td>
<td>205</td>
<td>109</td>
<td>51</td>
<td>31</td>
</tr>
<tr>
<td>250kg</td>
<td>EQM003S-IS</td>
<td>440</td>
<td>565</td>
<td>31</td>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>500kg</td>
<td>EQM005S-IS</td>
<td>440</td>
<td>565</td>
<td>31</td>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>EQM010S-IS</td>
<td>490</td>
<td>565</td>
<td>31</td>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

• Standard length of power supply cable is ten 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.

• Extending the load chain is prohibited with additional links.
EQSP 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 Output (kW)</th>
<th>Lifting Speed (m/min)**</th>
<th>Load Chain Diameter (mm)</th>
<th>Chain Falls</th>
<th>Classification ISO/FEM/ASME</th>
<th>Flange Width B (mm)</th>
<th>Option Min. Radius Curve (mm)</th>
<th>Test Load (t)</th>
<th>Net Weight (kg)</th>
<th>Additional Weight per 1m Lift (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>125kg</td>
<td>EQSP001IS</td>
<td>C</td>
<td>3</td>
<td>2.5</td>
<td>0.5</td>
<td>17.0</td>
<td>2.8</td>
<td>22.1</td>
<td>M6/3m/H4</td>
<td>50-102</td>
<td>103-203</td>
<td>156</td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>250kg</td>
<td>EQSP003IS</td>
<td></td>
<td>3</td>
<td>2.5</td>
<td>0.75</td>
<td>10.0</td>
<td>1.7</td>
<td>13.0</td>
<td>M6/2m/H4</td>
<td>58-127</td>
<td>128-203</td>
<td>313</td>
<td>0.71</td>
<td></td>
</tr>
<tr>
<td>500kg</td>
<td>EQSP005IS</td>
<td>D</td>
<td>1.5</td>
<td>1.5</td>
<td></td>
<td>7.6</td>
<td>1.3</td>
<td>9.9</td>
<td>M6/2m/H4</td>
<td>58-127</td>
<td>128-203</td>
<td>625</td>
<td>36</td>
<td></td>
</tr>
</tbody>
</table>

Note: The high speed is preset to the maximum speed in KITO factory. The lifting speeds are adjustable between High and Low.
In case of only straight I-beam, 0.5ton plain trolley can be used on 57mm and less width beam and 1ton plain trolley and geared trolley can be used on 73mm and less width beam.

EQSP Dimensions (mm)

| Capacity (t) | Product Code | Headroom | d | a | b | e | g | h | i | j | k | m | n | o | p | q | r | t |
|--------------|--------------|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 125kg        | EQSP001IS    | 415      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 250kg        | EQSP003IS    | 430      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 500kg        | EQSP005IS    | 450      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1            | EQSP010IS    | 490      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
Electric Chain Hoist (EQM) Rated Currents

<table>
<thead>
<tr>
<th>Type</th>
<th>Motor output (kW)</th>
<th>200-230 V</th>
<th>380-460 V</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rated current (A)</td>
<td>50Hz</td>
<td>60Hz</td>
</tr>
<tr>
<td>EQ001IS</td>
<td>0.5</td>
<td>5.1</td>
<td></td>
</tr>
<tr>
<td>EQ003IS</td>
<td>0.75</td>
<td>6.3</td>
<td></td>
</tr>
<tr>
<td>EQ005IS</td>
<td>1.5</td>
<td>10.5</td>
<td></td>
</tr>
</tbody>
</table>

For traversing

<table>
<thead>
<tr>
<th>Type</th>
<th>Motor output (kW)</th>
<th>220-230 V</th>
<th>380-440 V</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rated current (A)</td>
<td>50Hz</td>
<td>60Hz</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.4</td>
<td>3.5</td>
</tr>
</tbody>
</table>

Note: MR2Q is designed for 220-230V or 380-460V.

Power Supply Cable Allowable Lengths (EQ + MR2Q)

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.

Allowable length (m) = \( \frac{1000}{30.8} \times \frac{\text{Cross-sectional area of 1 core wire (mm}^2\text{)}}{x} \times \frac{\text{Rated voltage (V)}}{0.02} \times \frac{\text{Rated current (A)}}{x}

Note: MR2Q is designed for 220-230V or 380-460V.

For customers considering using the product with a 460V power supply, please contact the nearest KITO dealer.
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