

## EQ & EQS ELECTRIC CHAIN HOISTS

### INCREASED PRODUCTIVITY



#### EQ

- ▶ 380 - 440 V
- ▶ 50 - 60 Hz
- ▶ 3 phases

#### EQS

- ▶ 110 V or 220 V - 240 V
- ▶ 50 Hz
- ▶ single phase



#### “No-load High-speed”

function: 1.3 times faster lifting speed when lifting less than 30 % of full load



## EQ & EQS electric chain hoist



### EQ

380 - 440 V  
50 - 60 Hz  
3 phases

### EQS

110V or 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

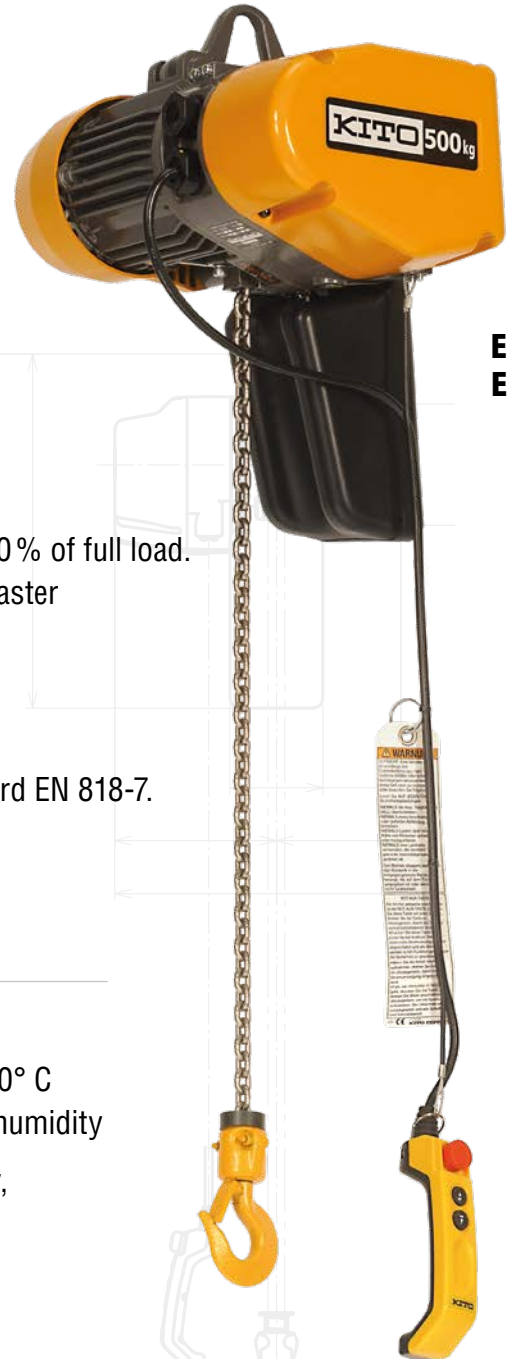
- ▶ 24 V control voltage
- ▶ Operating temperature -20° C up to +40° C, max. 85% humidity
- ▶ Compact aluminium body, sealed (IP55 rated)
- ▶ Eye suspension

### 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)



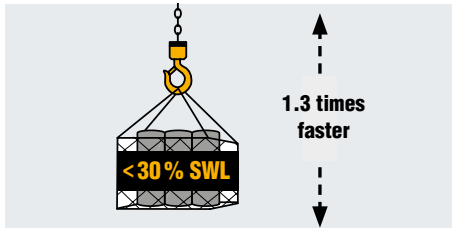
EQ005 /  
EQS005

### Radio remote control as option



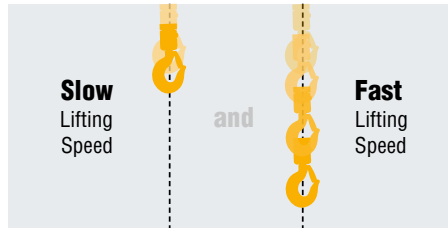
# Benefits

## “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

## Frequency inverter



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

## High FEM classification



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

## Reliable



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

# Optional suspensions



**Top hook**

▶ PAGE 8



**Plain trolley**

▶ PAGE 9



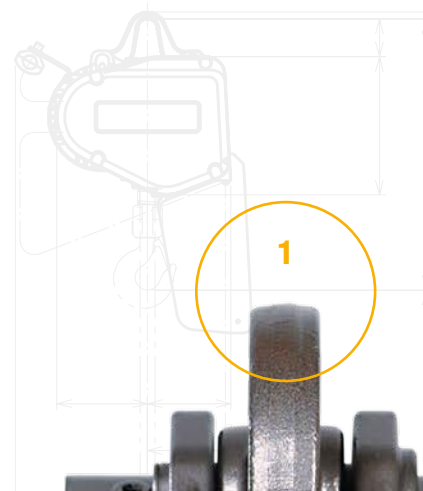
**Motor trolley (only EQ)**

▶ PAGE 10

## EQ & EQS Product description

### 1. Eye suspension

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

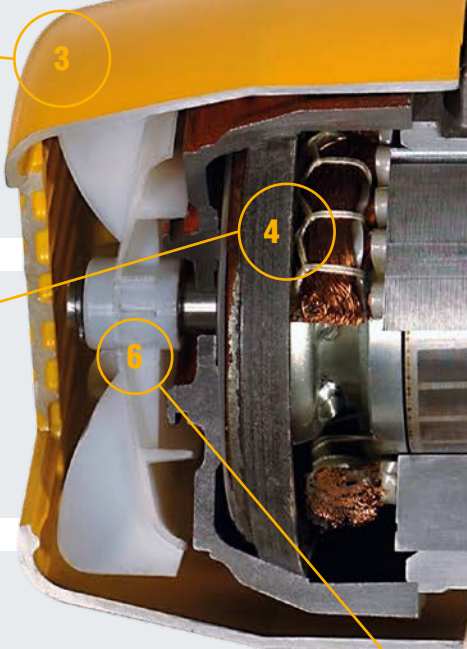


### 2. Load hook

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.

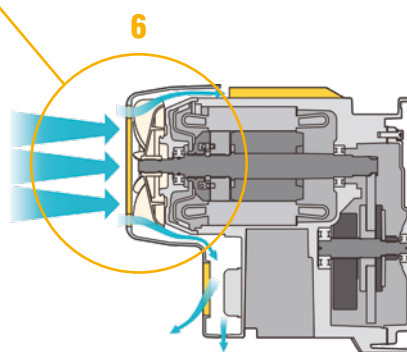


### 5. Push button pendant

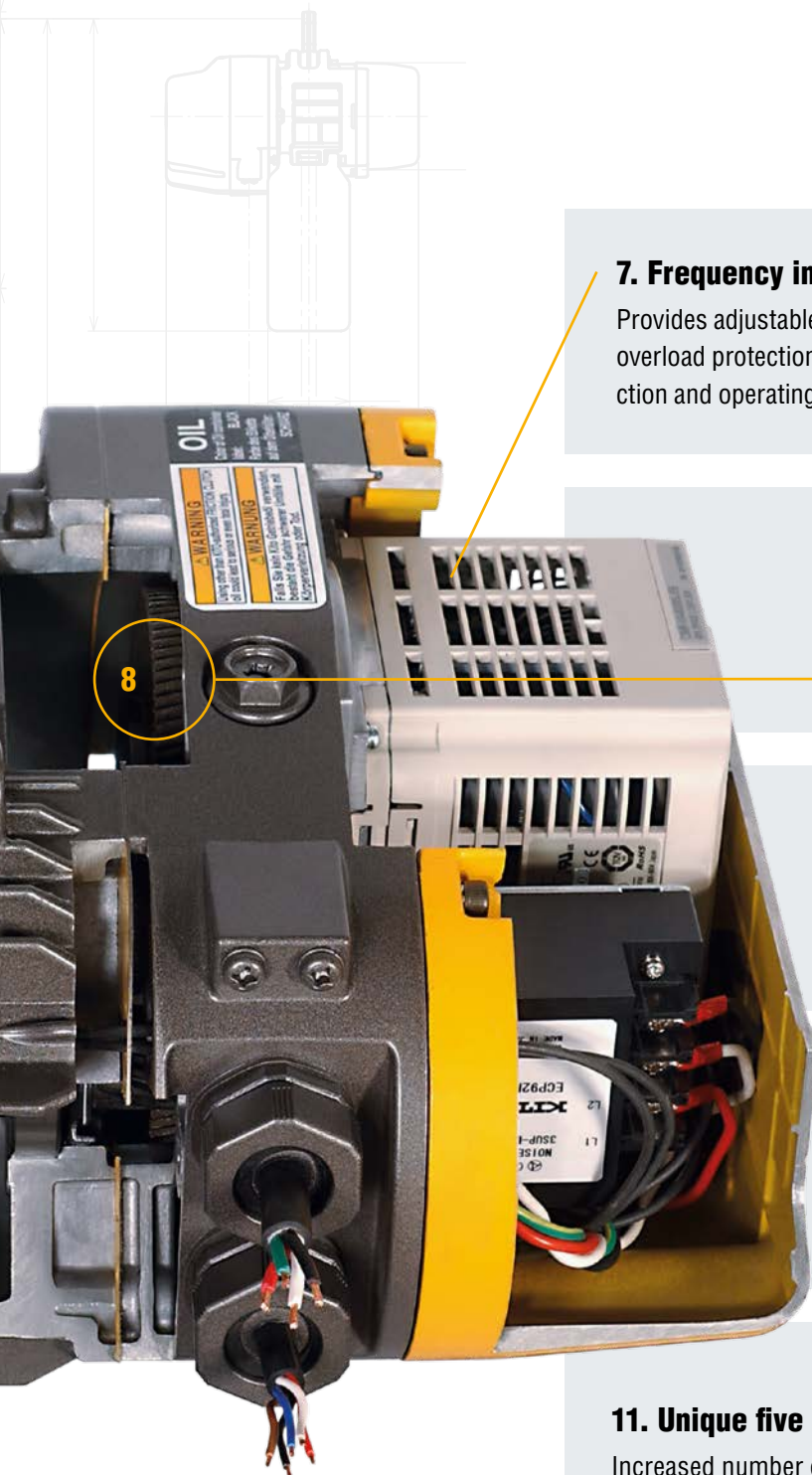
Ergonomic design. Easy-to-use in one-handed operation. IP65 rated. With emergency-stop button.

### 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.







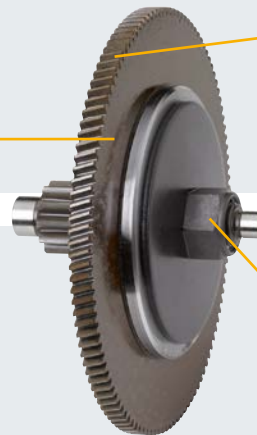
## 7. Frequency inverter

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/mm<sup>2</sup>. 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

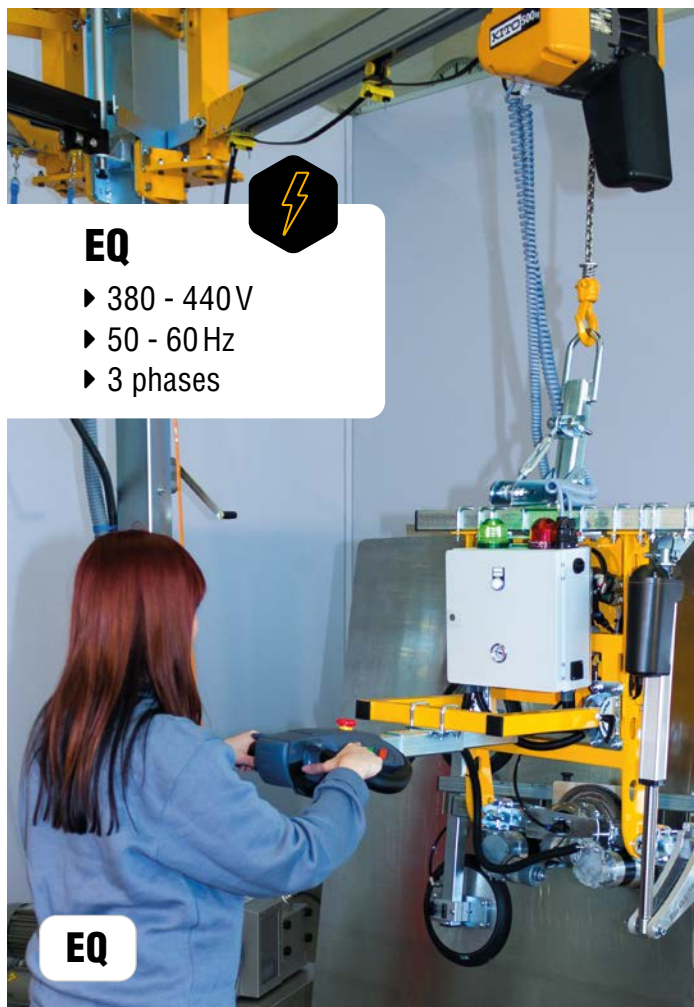
Provides smooth and quiet guiding of chain. Heavy cast iron construction for improved wear resistance.

## 13. Upper & lower limit switch

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

## EQ Applications

- 🔧 Industrial environment
- 🔧 Production facilities
- 🔧 Plant engineering
- 🔧 Assembly lines
- 🔧 Workshops
- 🔧 Marine equipment
- 🔧 Maintenance services
- 🔧 And many more ...



**EQ**

- ▶ 380 - 440 V
- ▶ 50 - 60 Hz
- ▶ 3 phases





## EQS Applications

- 🔧 Construction sites
- 🔧 Maintenance services
- 🔧 Sewage industry
- 🔧 Workshops
- 🔧 Agriculture
- 🔧 Technical inspections
- 🔧 Production facilities
- 🔧 Assembly lines
- 🔧 And many more ...



### EQS

- ▶ 110V or 220V - 240V
- ▶ 50 Hz
- ▶ single phase



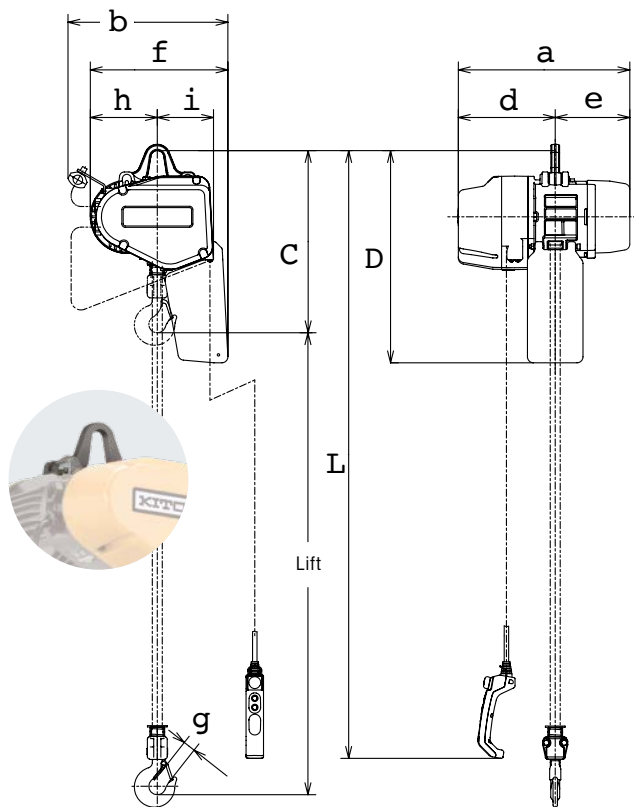
EQ

EQS

## Suspension eye

EQ

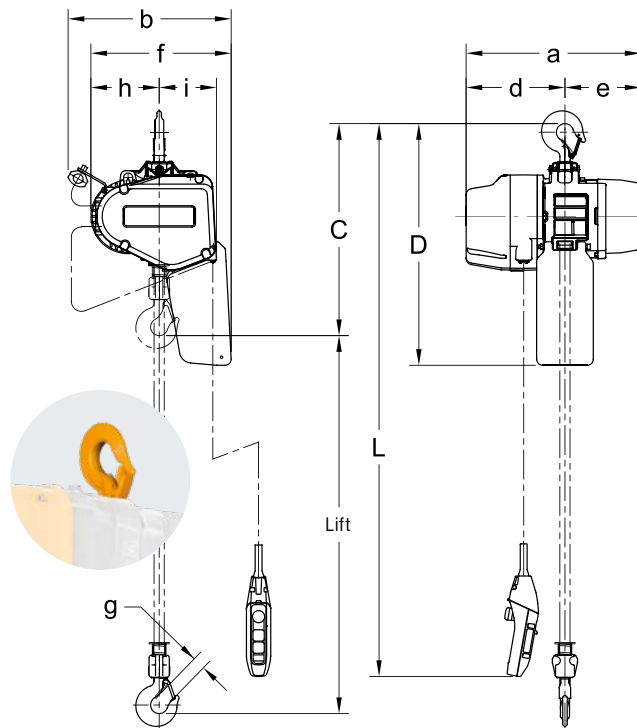
EQS



## Top hook

EQ

EQS



### Dimensions EQ / EQS

| Basic | Type     | Load capacity<br>kg | Headroom C (mm) |                     |               |                     | Dimensions (mm) |     |     |     |     |    |     |     |
|-------|----------|---------------------|-----------------|---------------------|---------------|---------------------|-----------------|-----|-----|-----|-----|----|-----|-----|
|       |          |                     | C<br>top hook   | C<br>suspension eye | D<br>top hook | D<br>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<br>kg | Body size | Standard lifting height<br>m | Lifting motor |              | Lifting speed, m / min      |                  |     | Load chain diameter<br>mm | Chain falls | Classification<br>FEM | Weight<br>kg | Headroom C<br>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              |

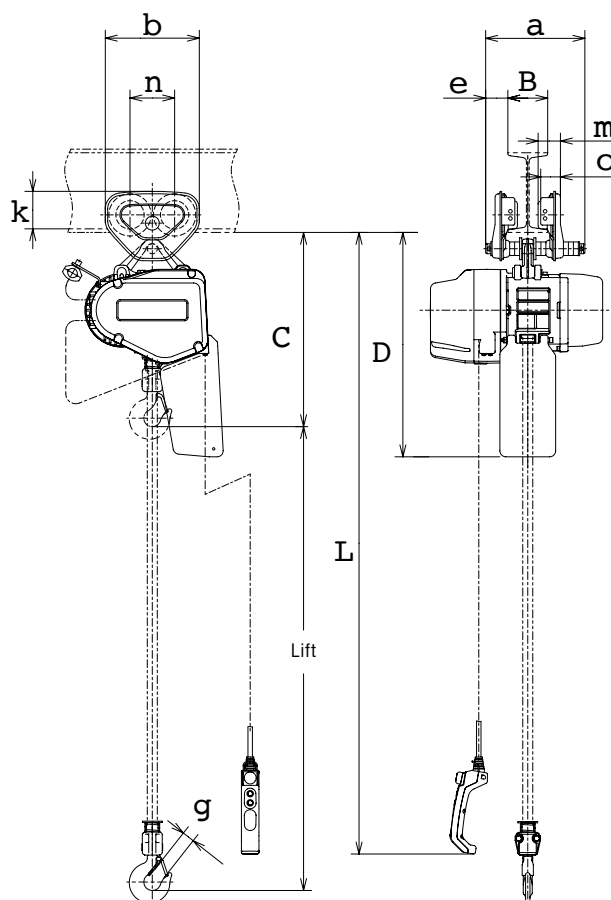
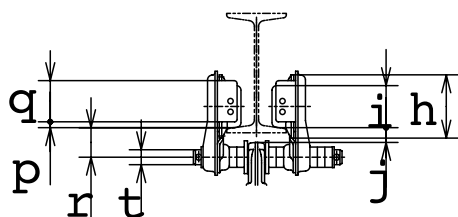
\*% of full load, EQS005 speed ratio 6:1. \*\*EQS010 speed ratio 4:1, 1.8 times faster lifting speed when lifting less than 30% of full load.



# Plain trolley

EQ

EQS



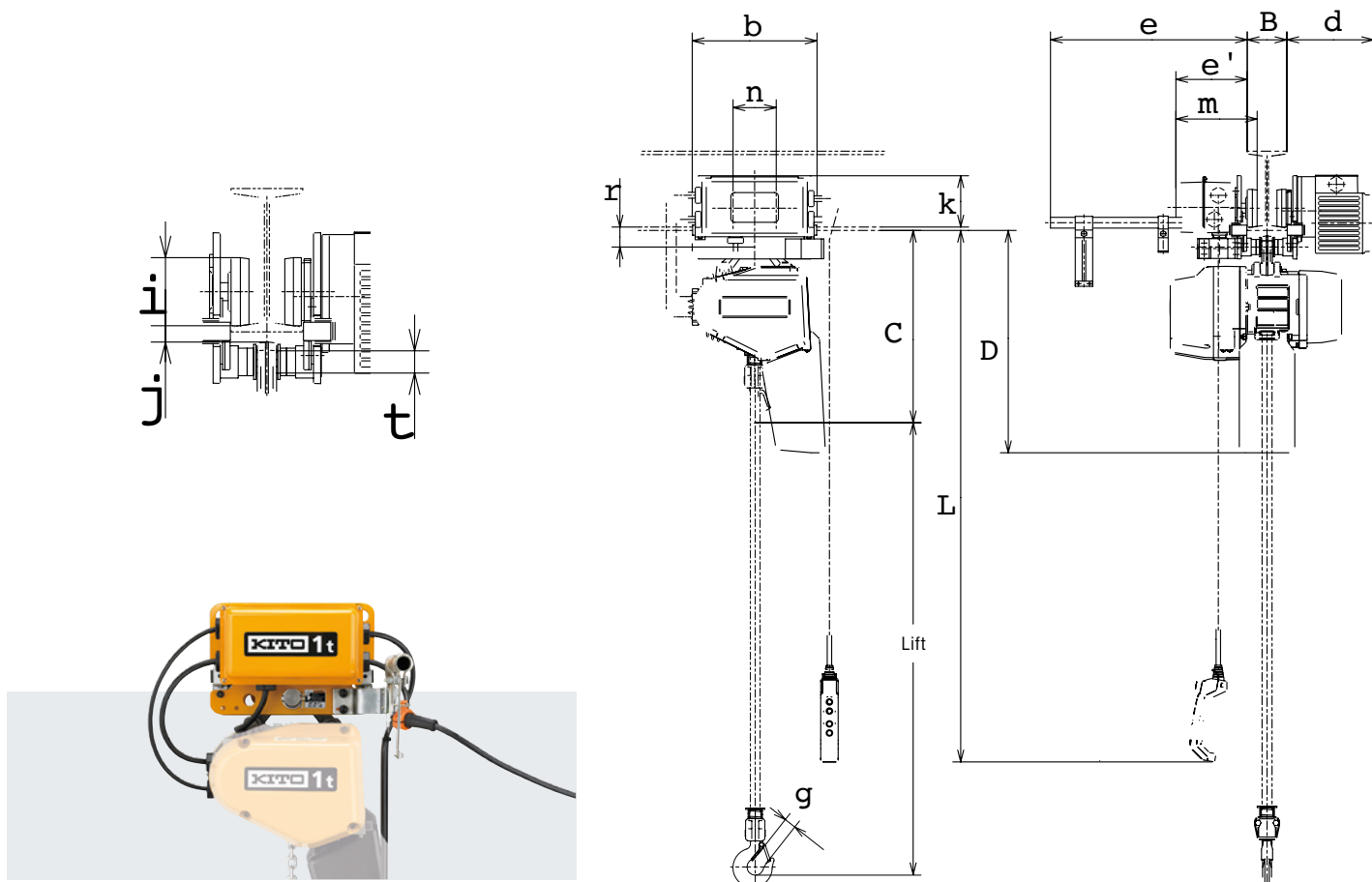
## Dimensions EQ / EQS with plain trolley

| Basic | Type       | Load capacity | Dimensions (mm) |     |     |     |    |    |     |    |    |    |      |     |    |    |    |    |    |
|-------|------------|---------------|-----------------|-----|-----|-----|----|----|-----|----|----|----|------|-----|----|----|----|----|----|
|       |            | kg            | C               | D   | a   | b   | e  | g  | h   | i  | j  | k  | m    | n   | o  | p  | q  | r  | t  |
| 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   | EQSP005IS | 50 - 163       | 164 - 305       | 1,150             | 1,200           | 430        |
| EQS   | EQSP010IS | 58 - 163       | 164 - 305       | 1,350             | 1,400           | 490        |

## Motor trolley EQ



### Dimensions EQ with motor trolley

| Basic | Type        | Load capacity<br>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 | Headroom C |
|-------|-------------|--------------|---------------|-----------------------|-------|-----|----------------|---------------|-------------------|------------|
|       |             | Output (kW)  | Output (% ED) |                       | 50 Hz |     | Standard mm    | Option W30 mm | mm                | 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

# Chain container

EQ

EQS

In plastic or canvas, depending on lifting height.



**Plastic chain container**



**Canvas chain container**

| Basic      | Type     | Load capacity | Plastic chain container | Canvas chain container |
|------------|----------|---------------|-------------------------|------------------------|
|            |          | kg            | m                       | m                      |
| <b>EQ</b>  | EQ001IS  | 125           | 6                       | 15                     |
| <b>EQ</b>  | EQ003IS  | 250           | 6                       | 15                     |
| <b>EQ</b>  | EQ005IS  | 500           | 6                       | 15                     |
| <b>EQ</b>  | EQ010IS  | 1,000         | 6                       | 15                     |
| <b>EQS</b> | EQS005IS | 500           | 6                       | 15                     |
| <b>EQS</b> | EQS010IS | 1,000         | 6                       | 15                     |

## Load chain

### 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:

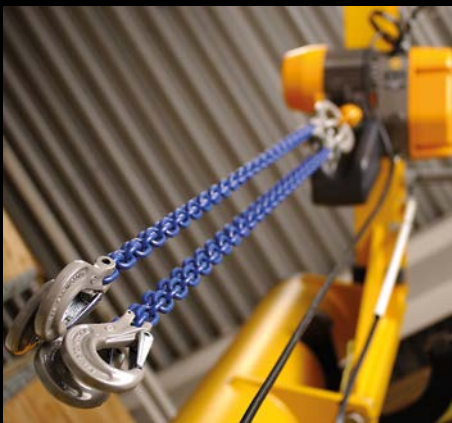
- ▶ Reduced hydrogen embrittlement
- ▶ Nickel-plated load chain grade T, series DAT (G80) as standard for electric chain hoists resp. grade T, series V (G100) as standard for manual chain hoists in accordance with standard EN 818-7
- ▶ Special manufacturing process – strength 800 N/mm<sup>2</sup> resp. 1,000 N/mm<sup>2</sup>





## Added value

### **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

**Kito Europe GmbH**

Heerdter Lohweg 93  
40549 Düsseldorf

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