

# EQ & EQS electric chain hoist



## EQ

380 - 440 V  
50 - 60 Hz  
3 phases



## 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)



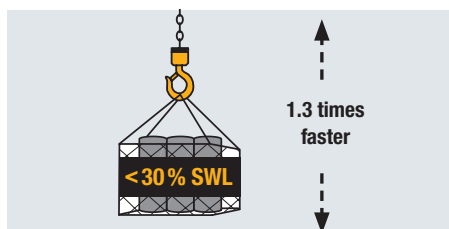
EQ005 /  
EQS005

## Radio remote control as option



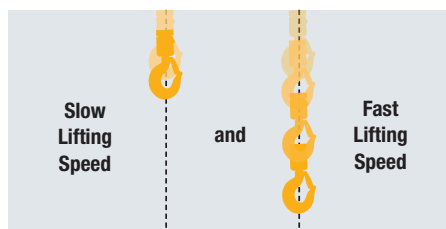
# Benefits

## “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 electromagnetic components like contactors, relays, etc.

# Optional suspensions



Top hook



Plain trolley



Motor trolley (only EQ)

## EQ & EQS Product description

### 1. Eye suspension

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



### 2. Load hook

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



### 3. Compact die-cast aluminium body

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



### 4. Advanced pull-rotor brake

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



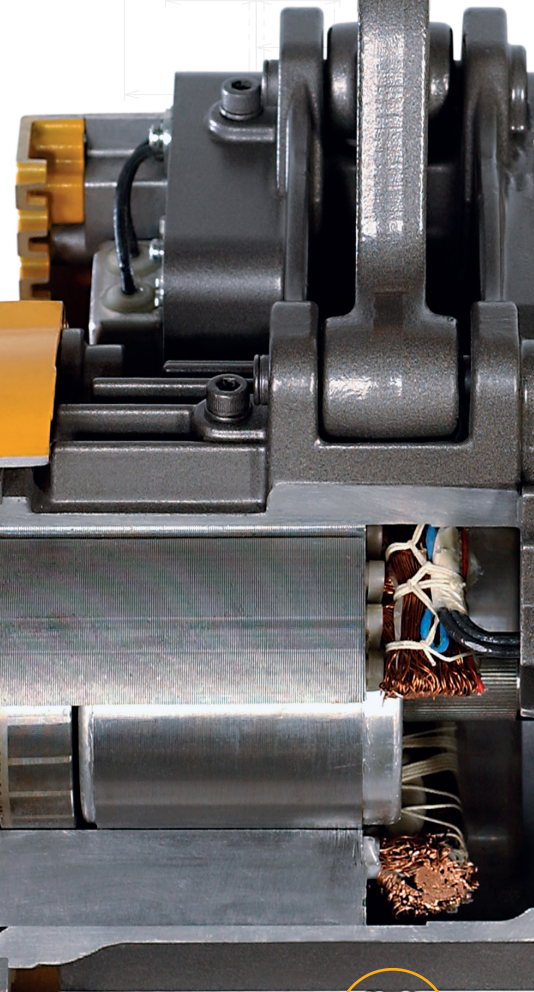
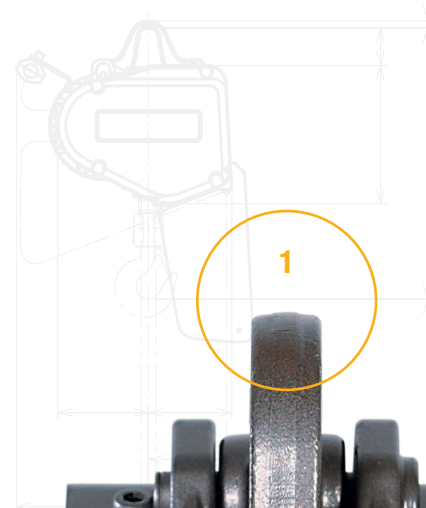
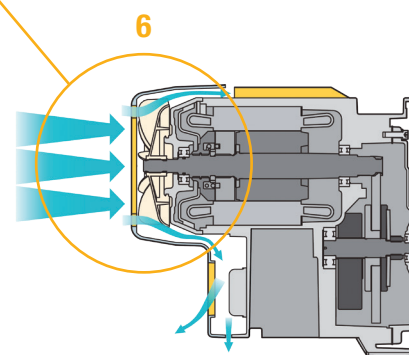
### 5. Push button pendant

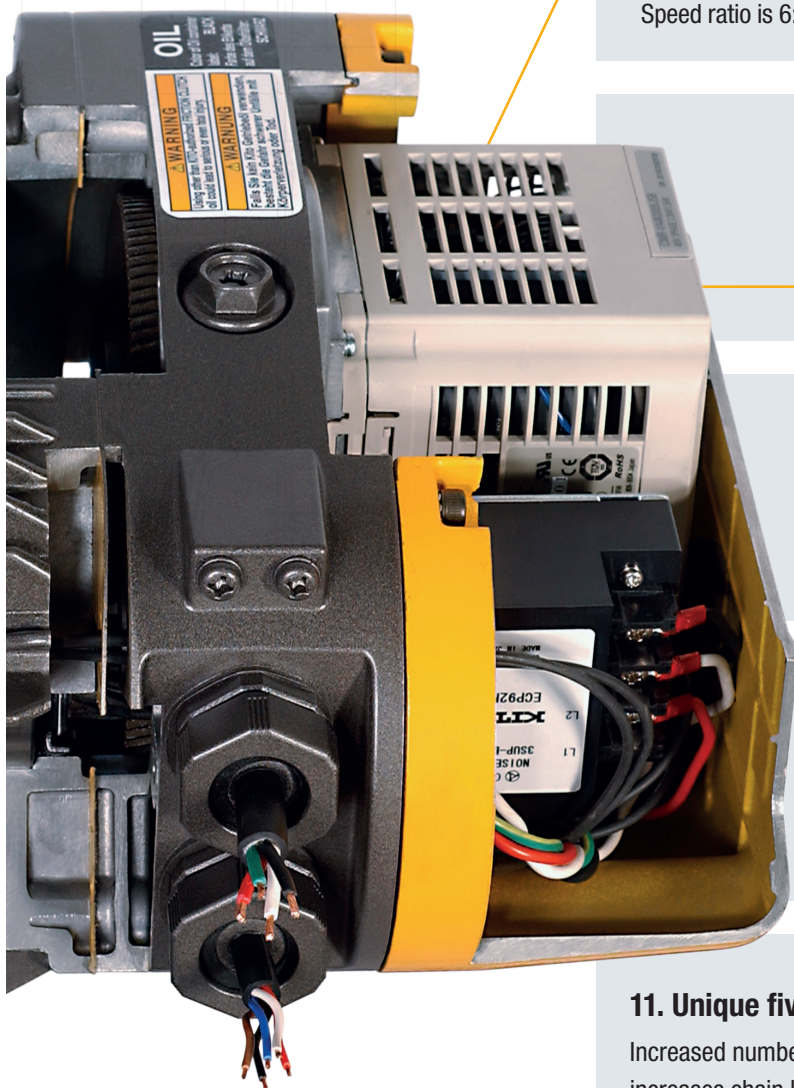
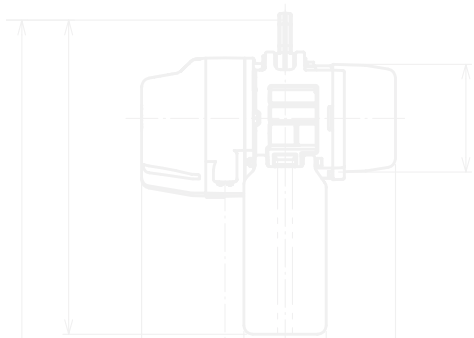
Ergonomic design. Easy-to-use in one-handed operation. IP65 rated. With emergency-stop button.



### 6. Fan-cooled motor

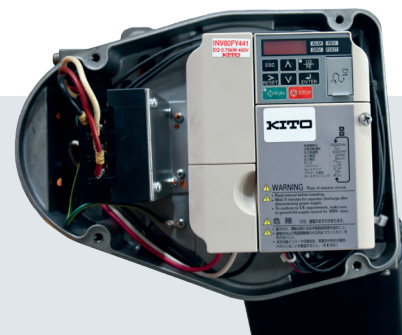
Heavy duty motor with external fan, cooling fins and external thermal motor protection. Improved air flow guarantees an optimized hoist duty rating and greatly lengthens brake life.





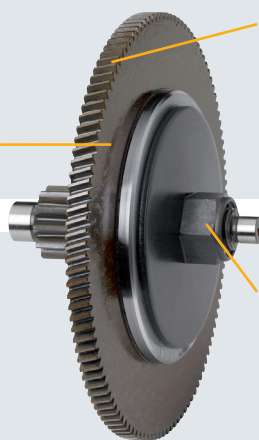
### 7. Frequency inverter

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



### 8. Helical gears

Precision machined components guarantees quiet and smooth operation.



### 9. Long-life friction clutch

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

### 10. Unique Nickel-plated load chain

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

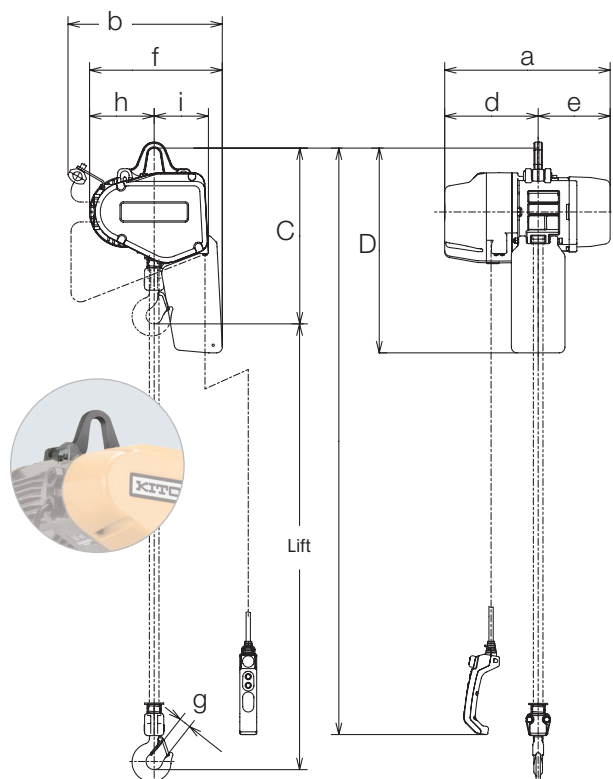
### 13. Upper & lower limit switch

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

## Suspension eye

EQ

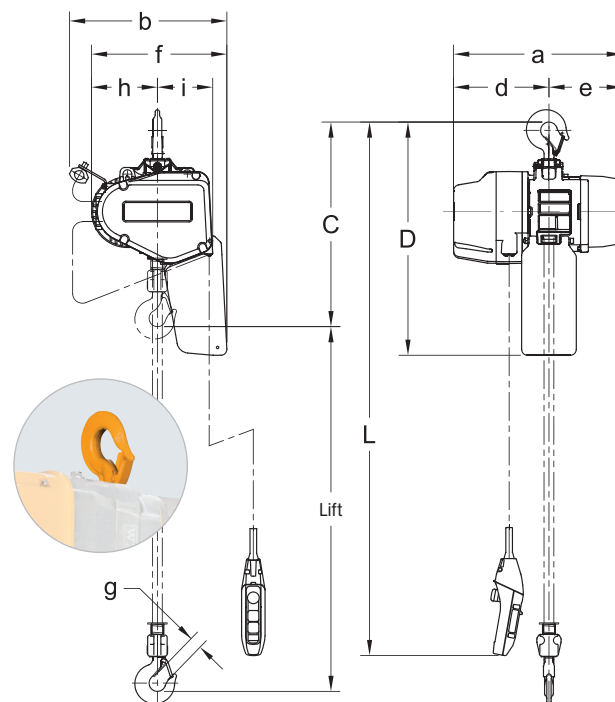
EQS



## Top hook

EQ

EQS



## Dimensions EQ / EQS

| Basic | Type     | Load capacity | Headroom C (mm) |                     |               |                     | Dimensions (mm) |     |     |     |     |    |     |     |
|-------|----------|---------------|-----------------|---------------------|---------------|---------------------|-----------------|-----|-----|-----|-----|----|-----|-----|
|       |          | kg            | 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              |

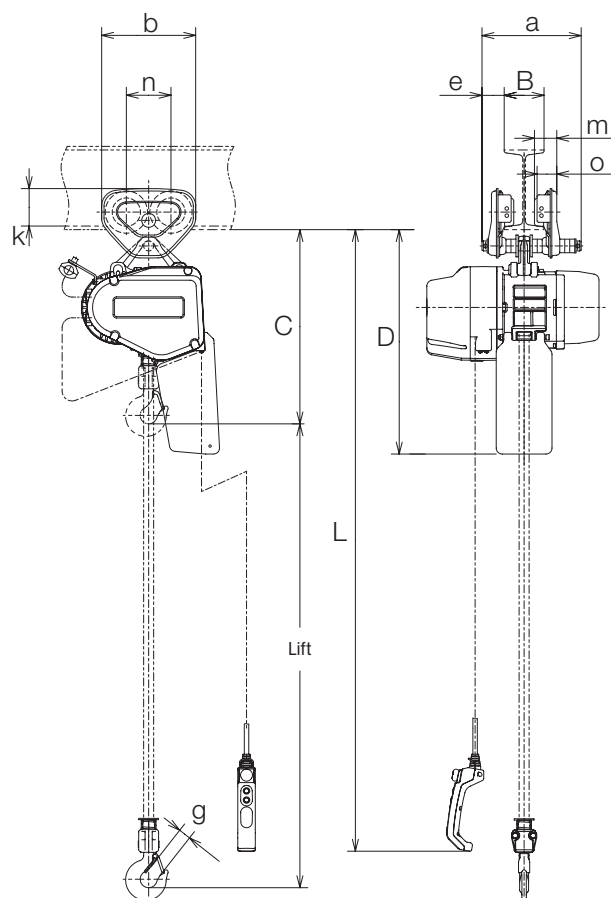
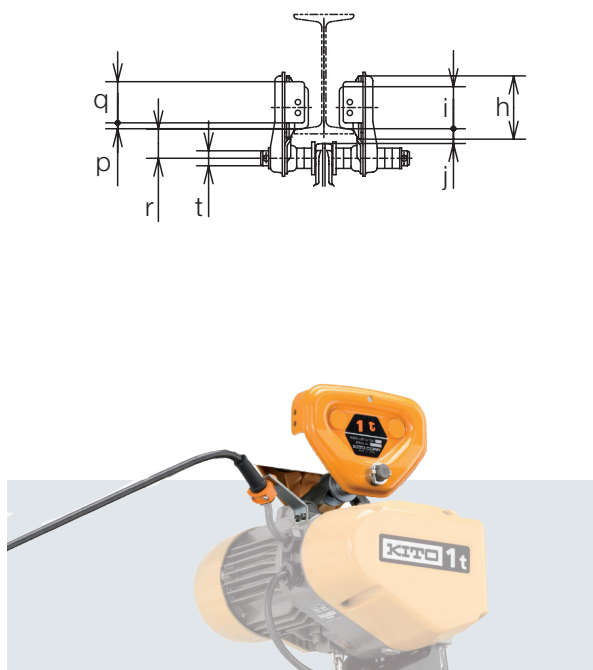
\*% of full load , EQS005 speed ratio 6:1.

\*\*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

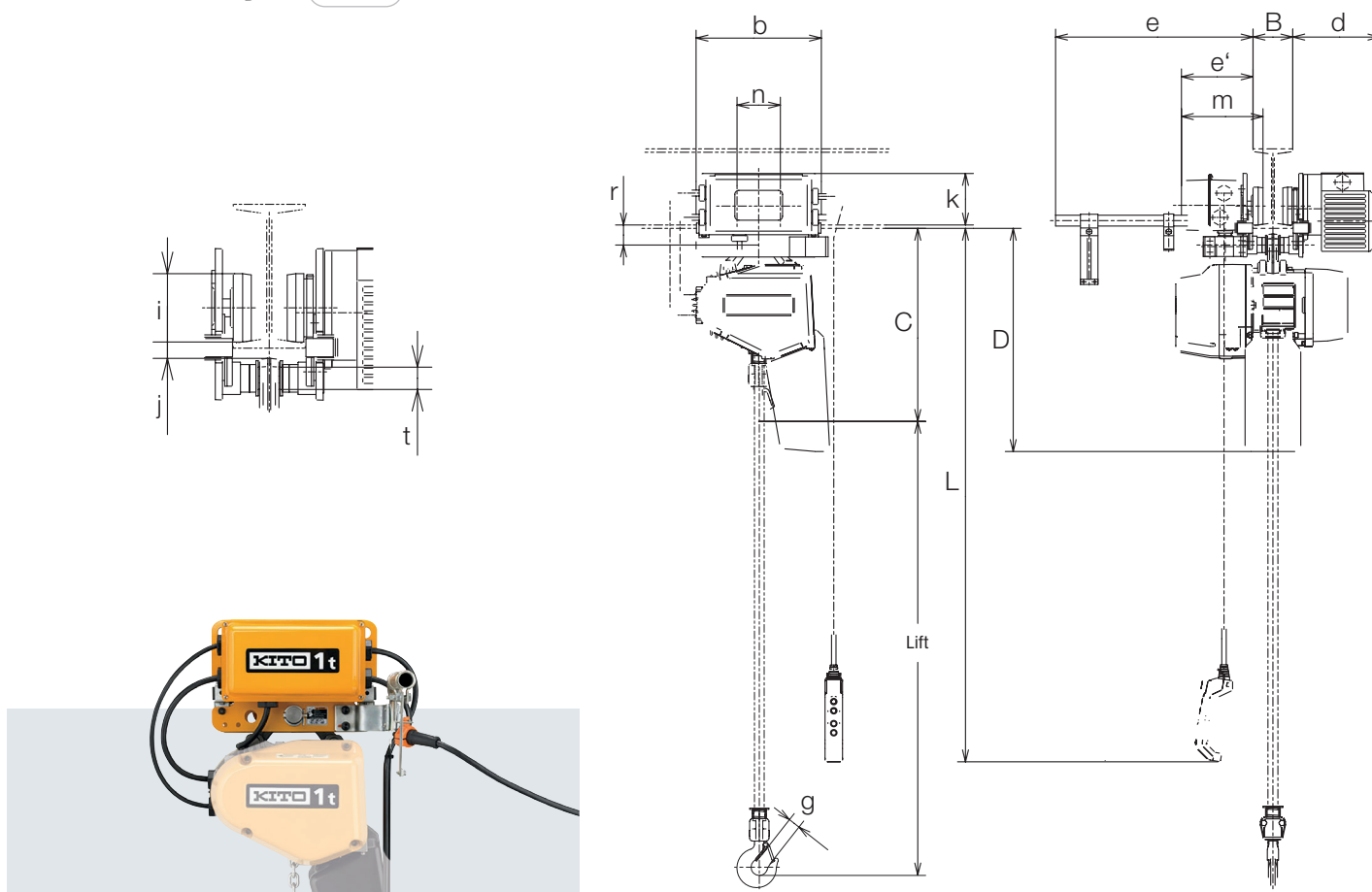
| Basic | Type       | Load capacity<br>kg | Dimensions (mm) |     |     |     |    |    |     |    |    |    |      |     |    |    |    |    |    |
|-------|------------|---------------------|-----------------|-----|-----|-----|----|----|-----|----|----|----|------|-----|----|----|----|----|----|
|       |            |                     | 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<br>mm |
|-------|------------|----------------|-----------------|-------------------|-----------------|------------------|
|       |            | Standard (mm)  | Option W30 (mm) | Standard (mm)     | Option W30 (mm) |                  |
| EQ    | EQSP001IS  | 50 - 163       | 164 - 305       | 1,150             | 1,200           | 415              |
| EQ    | EQSP003IS  | 50 - 163       | 164 - 305       | 1,150             | 1,200           | 415              |
| EQ    | EQSP005IS  | 50 - 163       | 164 - 305       | 1,150             | 1,200           | 430              |
| EQ    | EQSP010IS  | 58 - 163       | 164 - 305       | 1,350             | 1,400           | 490              |
| EQS   | EQSSP005IS | 50 - 163       | 164 - 305       | 1,150             | 1,200           | 430              |
| EQS   | EQSSP010IS | 58 - 163       | 164 - 305       | 1,350             | 1,400           | 490              |

## Motor trolley

EQ



## Dimensions EQ with motor trolley

| Basic | Type        | Load capacity | Dimensions (mm) |     |     |     |     |     |    |    |    |     |     |     |    |    |
|-------|-------------|---------------|-----------------|-----|-----|-----|-----|-----|----|----|----|-----|-----|-----|----|----|
|       |             | kg            | 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



**EQ003IS**  
with Plastic  
chain container

