

# KITO

## Electric Chain Hoist Model ER2 Up to 20 Tons



### The New One

Durable, safe,  
easy to use

**Made in Japan!**

- > **Frequency inverter technology**  
Exact positioning of the load
- > **New electromagnetic brake**  
Improved performance and safety
- > **Newly developed load sheave**  
Smooth and low-noise operation
- > **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

**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

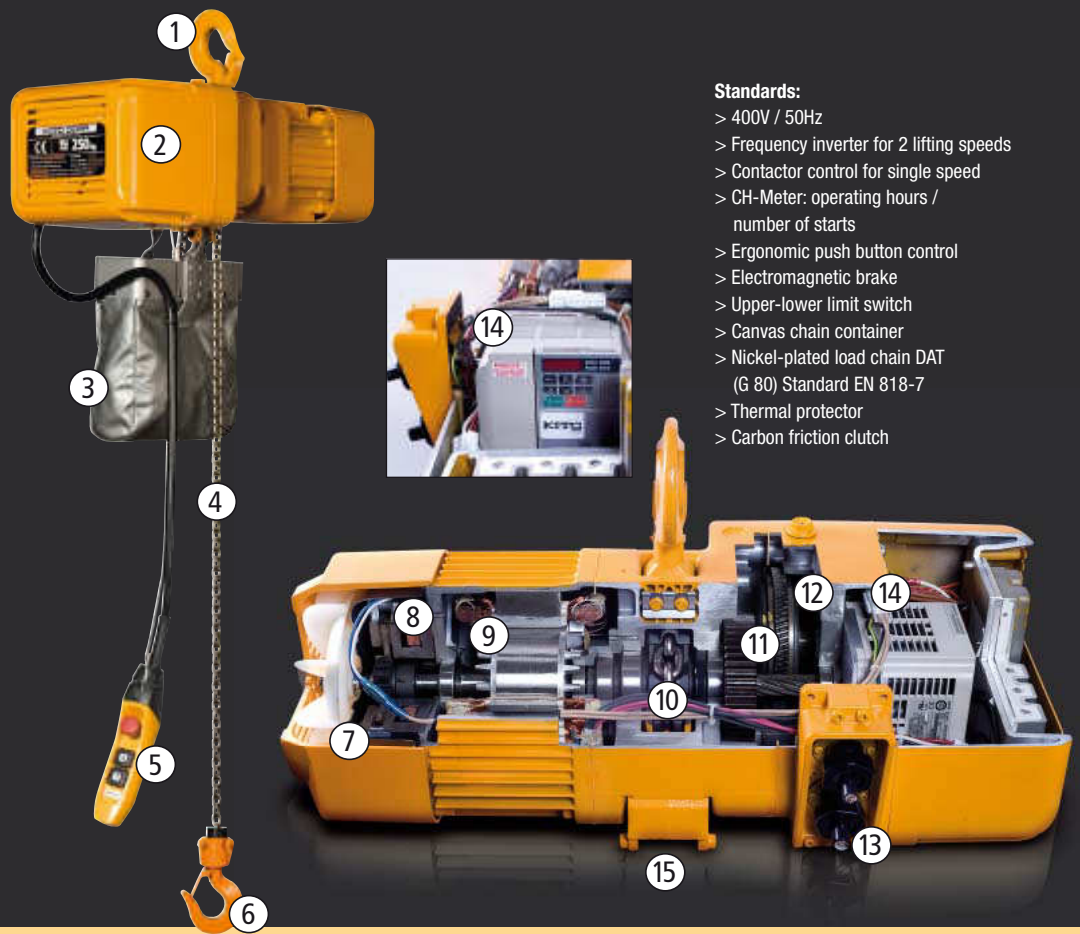
Source: Indukran

[www.kito.net](http://www.kito.net)

Kito Europe GmbH  
 Heerdter Lohweg 93  
 D-40549 Düsseldorf  
 Tel. + 49 (0) 211 - 52 80 09 - 0  
 Fax + 49 (0) 211 - 52 80 09 - 59  
 info@kito.net  
 www.kito.net

## KITO HOISTS

Always on the safe side



- Standards:**
- > 400V / 50Hz
  - > Frequency inverter for 2 lifting speeds
  - > Contactor control for single speed
  - > CH-Meter: operating hours / number of starts
  - > Ergonomic push button control
  - > Electromagnetic brake
  - > Upper-lower limit switch
  - > Canvas chain container
  - > Nickel-plated load chain DAT (G 80) Standard EN 818-7
  - > Thermal protector
  - > Carbon friction clutch

- Options:**
- > 500 V / Contactor control
  - > 230 V / 50 Hz / 60 Hz, 3 phase

- > Rubber bumpers for motorized trolleys
- > Additional mechanical brake
- > Electrical overload limiter
- > Acoustic overload signal
- > Radio remote control
- > Variable speed control

- > Level limit switch
- > Steel chain container
- > Trolley versions: motorized, geared and plain

**1. Top hook suspension:**  
 Hook or overhead mounting suspension can be attached or dismantled with very little effort (except for F-body)

**2. Aluminium die-cast body:**  
 Very robust design, extreme durable body

**3. Chain container:**  
 Canvas chain container

**4. Load chain:**  
 Nickel-plated load chain, grade DAT (G 80) Standard EN 818-7

**5. Push button control:**  
 ergonomic design, improved durability

**6. Bottom Hook:**  
 360° pivotable, eliminates twisting of the load chain

**7. External motor fan:**  
 Aluminium die-cast motor frame with external motor fan reduces a rise in heating during frequent operation

**8. Electromagnetic brake:**  
 Produces a strong braking power (force) and secures the load

**9. Thermal motor protector:**  
 A sensor cuts the power in the case of overheating

**10. Chain guide:**  
 Uniquely developed design, ensures very smooth chain-feeding

**11. Gearbox:**  
 Helical gears offer a smooth and quiet operation

**12. Friction clutch:**  
 Recently developed by KITO as an overload protection which interrupts the transmission power from the motor

**13. Direct wiring:**  
 Easy to connect and disconnect using special internal connectors

**14. CH (counter hour) meter and lifting cycle counter are integrated in the frequency inverter:**  
 Allows an efficient control of maintenance intervals

**15. Upper-lower limit switch:**  
 Turns the motor off when the highest or lowest points have been reached.

### Technische Angaben

| Capacity (t) | Product Code | Body Size | Lifting motor |              | Lifting speed (m/min.) |      |          | Load chain    |     | Classification ISO/FEM | Testload (kg) | Net weight (kg) | Additional Weight per 1 m lift |
|--------------|--------------|-----------|---------------|--------------|------------------------|------|----------|---------------|-----|------------------------|---------------|-----------------|--------------------------------|
|              |              |           | Output (kW)   | Rating (%ED) | 50Hz                   |      | Diameter | x Chain falls |     |                        |               |                 |                                |
|              |              |           |               |              | Fast                   | Slow |          |               |     |                        |               |                 |                                |
| 125 kg       | ER2-001IH    | B         | 0,56          |              | Preset                 | 16,6 | 2,8      | 4,3           | x 1 | M6/3m                  | 156 kg        | 27              | 0,42                           |
|              | Adjustable   |           |               |              |                        | 1,4  |          |               |     |                        |               |                 |                                |
| 250 kg       | ER2-003IS    |           | 0,9           |              | Preset                 | 10,8 | 1,8      |               |     |                        | 313 kg        | 36              |                                |
|              | Adjustable   |           |               |              |                        | 0,9  |          |               |     |                        |               |                 |                                |
| 500 kg       | ER2-003IH    | C         | 0,56          |              | Preset                 | 15,7 | 2,6      | 6,0           | x 1 |                        | 625 kg        | 32              | 0,81                           |
|              | Adjustable   |           |               |              |                        | 1,3  |          |               |     |                        |               |                 |                                |
| 1,0          | ER2-005IL    | D         | 0,9           | 40/20        | Preset                 | 4,5  | 0,8      | 7,7           | x 1 | M5/2m                  | 1,25          | 45              | 1,33                           |
|              | Adjustable   |           |               |              |                        | 0,4  |          |               |     |                        |               |                 |                                |
| 1,6          | ER2-010IL    |           |               |              | Preset                 | 8,5  | 1,4      |               |     |                        | 2,5           | 73              | 2,3                            |
|              | Adjustable   |           |               |              |                        | 0,7  |          |               |     |                        |               |                 |                                |
| 2,0          | ER2-010IS    | E         |               |              | Preset                 | 4,2  | 0,7      | 10,2          | x 1 |                        | 3,13          | 100             | 2,8                            |
|              | Adjustable   |           |               |              |                        | 0,3  |          |               |     |                        |               |                 |                                |
| 2,5          | ER2-016IS    |           | 1,8           |              | Preset                 | 8,2  | 1,4      |               |     |                        | 4             | 105             | 4,7                            |
|              | Adjustable   |           |               |              |                        | 0,7  |          |               |     |                        |               |                 |                                |
| 3,2          | ER2-020IL    | F         | 3,5           |              | Preset                 | 5,3  | 0,9      | 11,2          | x 1 | M4/1Am                 | 6,25          | 128             | 5,6                            |
|              | Adjustable   |           |               |              |                        | 0,4  |          |               |     |                        |               |                 |                                |
| 5,0          | ER2-020IS    |           |               |              | Preset                 | 4,3  | 0,7      |               |     |                        | 6,25          | 128             | 5,6                            |
|              | Adjustable   |           |               |              |                        | 0,4  |          |               |     |                        |               |                 |                                |
| 2,5          | ER2-025IS    | E         |               |              | Preset                 | 8,2  | 1,4      |               |     |                        | 4             | 105             | 4,7                            |
|              | Adjustable   |           |               |              |                        | 0,7  |          |               |     |                        |               |                 |                                |
| 3,2          | ER2-025IS    | F         | 3,5           |              | Preset                 | 6,6  | 1,1      | 11,2          | x 1 | M4/1Am                 | 6,25          | 128             | 5,6                            |
|              | Adjustable   |           |               |              |                        | 0,6  |          |               |     |                        |               |                 |                                |
| 5,0          | ER2-032IS    |           |               |              | Preset                 | 5,2  | 0,9      |               |     |                        | 6,25          | 128             | 5,6                            |
|              | Adjustable   |           |               |              |                        | 0,4  |          |               |     |                        |               |                 |                                |
| 5,0          | ER2-050IS    | F         |               |              | Preset                 | 3,3  | 0,6      |               |     |                        | 6,25          | 128             | 5,6                            |
|              | Adjustable   |           |               |              |                        | 0,3  |          |               |     |                        |               |                 |                                |

\* Note: The high speed is preset to the maximum speed in KITO factory. The speed is adjustable between high and low. Higher capacities on request.

**Disclaimer:**  
 KITO does not assume liability for inappropriate usage of products. Operating instructions must be followed at all times. Subject to technical change, misprint and errors.

**Contact**  
 Kito Europe GmbH / Heerdter Lohweg 93 / D-40549 Düsseldorf  
 Tel. +49 (0) 211 / 52 80 09 - 0 / Fax +49 (0) 211 / 52 80 09 - 59  
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