

# KITO

Improve Work Efficiency!  
Operator adjustable level limit switches

## Electric Chain Hoist Limit Lock ER2 Series

Programmable level limits

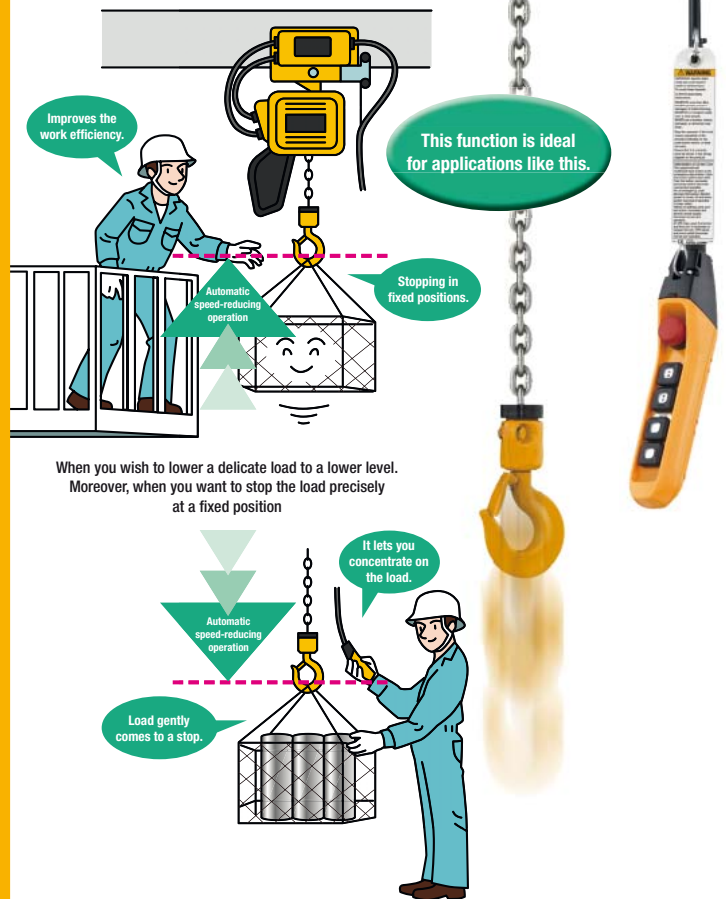


### Easily adjusted using Push Button Control

- > **Special limit lock features**  
Easily programmable stopping positions for the load
- > **Standard ER2 electro-mechanical switches**  
For upper most and lower most travel; plus "soft" limits for preset travel stops
- > **Two positions**  
One each upper and lower available
- > **Easy adjustment**  
Each position can be easily adjusted using only the push button control
- > **Improved productivity and efficiency in operation**  
The operator can easily lift or lower to the perfect position every time

**Made in Japan!**

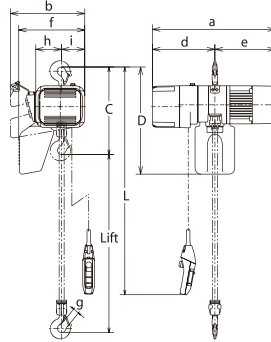
[www.kito.net](http://www.kito.net)



### Specifications

| Limit Lock   |   |
|--|---|
| Rated capacity   | 125 kg to 5 t   |
| Function   | Possible to stop the load in preset positions as the upper and lower limits (programmable using push button control). |
| Number of programmable positions   | 1 position each at the upper/lower limit  |
| Position sensing method  | Encoder detection method  |
| Deceleration   | Automatically decelerate to low-speed operation before a limit position.  |
| Position accuracy<br>* The standard electro mechanical ER2 limit switches are included as emergency stops. | ±10mm   |

# ER2 Dual Speed With Hook Suspension



## Setting Method

### Setting the upper-limit position

- (1) Stop the hook at the desired upper-limit position.
- (2) Press the emergency stop button. Then, hold down the Up button (1st step) for 5 seconds.

### Setting the lower-limit position

- (1) Stop the hook at the desired lower-limit position.
- (2) Press the emergency stop button. Then hold down the Down button (1st step) for 5 seconds.

## Cancelling Method

Cancellation is enabled at any hook position.

### Cancelling the upper-limit position

- (1) Press the Emergency Stop button.
- (2) Hold down the Up button for 5 seconds.

### Cancelling the lower-limit position

- (1) Press the Emergency Stop button.
- (2) Hold down the Down button for 5 seconds.

## Specifications

| Capacity (t) | Product Code | Hoist Body | Standard Lift (m) | Push Button Cord L (m) | Lifting Motor |              | Lifting Speed (m/min) |      |               | Load Chain  |     | Classification ISO/FEM/ASME | Test Load (t) | Net Weight (kg) | Additional Weight per 1m Lift (kg) |
|--------------|--------------|------------|-------------------|------------------------|---------------|--------------|-----------------------|------|---------------|-------------|-----|-----------------------------|---------------|-----------------|------------------------------------|
|              |              |            |                   |                        | Output (kw)   | Rating (%ED) | 50 Hz                 |      | Diameter (mm) | Chain Falls |     |                             |               |                 |                                    |
|              |              |            |                   |                        |               |              | High                  | Low  |               |             |     |                             |               |                 |                                    |
| 0.125        | ER2-001IH    | B          |                   |                        | 0.56          |              | Preset                | 16.6 | 2.8           | 4.3         | x 1 | M6/3m/H4                    | 0.156         | 27              | 0.42                               |
|              |              |            |                   |                        |               |              | Adjustable            | 10.8 | 1.4           |             |     |                             |               |                 |                                    |
| 0.25         | ER2-003IS    | B          |                   |                        | 0.9           |              | Preset                | 15.7 | 1.8           | 6           | x 1 | M6/3m/H4                    | 0.313         | 36              |                                    |
|              |              |            |                   |                        |               |              | Adjustable            | 15.7 | 0.9           |             |     |                             |               |                 |                                    |
| 0.5          | ER2-003IH    | C          |                   |                        | 0.56          |              | Preset                | 4.5  | 0.8           | 6           | x 1 | M6/3m/H4                    | 0.625         | 32              | 0.81                               |
|              |              |            |                   |                        |               |              | Adjustable            | 4.5  | 0.4           |             |     |                             |               |                 |                                    |
| 1            | ER2-005IS    | D          | 3                 | 2.5                    | 0.9           | 40/20        | Preset                | 8.5  | 1.4           | 7.7         | x 1 | M5/2m/H4                    | 1.25          | 45              | 1.33                               |
|              |              |            |                   |                        |               |              | Adjustable            | 8.5  | 0.7           |             |     |                             |               |                 |                                    |
| 1.6          | ER2-010IL    | E          |                   |                        | 1.8           |              | Preset                | 4.2  | 0.7           | 10.2        | x 1 |                             | 2.5           | 73              | 2.3                                |
|              |              |            |                   |                        |               |              | Adjustable            | 4.2  | 0.3           |             |     |                             |               |                 |                                    |
| 2            | ER2-010IS    | E          |                   |                        | 1.8           |              | Preset                | 8.2  | 1.4           | 10.2        | x 1 |                             | 2.5           | 89              |                                    |
|              |              |            |                   |                        |               |              | Adjustable            | 8.2  | 0.7           |             |     |                             |               |                 |                                    |
| 2.5          | ER2-016IS    | F          |                   |                        | 3.5           |              | Preset                | 5.3  | 0.9           | 11.2        | x 1 | M4/1Am/H4                   | 3.13          | 100             | 2.8                                |
|              |              |            |                   |                        |               |              | Adjustable            | 5.3  | 0.4           |             |     |                             |               |                 |                                    |
| 3.2          | ER2-020IL    | F          |                   |                        | 3.5           |              | Preset                | 4.3  | 0.7           | 11.2        | x 1 | M4/1Am/H4                   | 3.13          | 100             | 2.8                                |
|              |              |            |                   |                        |               |              | Adjustable            | 4.3  | 0.4           |             |     |                             |               |                 |                                    |
| 5            | ER2-020IS    | F          |                   |                        | 3.5           |              | Preset                | 8.2  | 1.4           | 11.2        | x 2 |                             | 4             | 105             | 4.7                                |
|              |              |            |                   |                        |               |              | Adjustable            | 8.2  | 0.7           |             |     |                             |               |                 |                                    |
| 5            | ER2-025IS    | F          |                   |                        | 2.8           |              | Preset                | 6.6  | 1.1           | 11.2        | x 2 |                             | 6.25          | 125             | 5.6                                |
|              |              |            |                   |                        |               |              | Adjustable            | 6.6  | 0.6           |             |     |                             |               |                 |                                    |
| 5            | ER2-032IS    | F          |                   |                        | 2.8           |              | Preset                | 5.2  | 0.9           | 11.2        | x 2 |                             | 6.25          | 125             | 5.6                                |
|              |              |            |                   |                        |               |              | Adjustable            | 5.2  | 0.4           |             |     |                             |               |                 |                                    |
| 5            | ER2-050IS    | F          |                   |                        | 2.8           |              | Preset                | 3.3  | 0.6           | 11.2        | x 2 |                             | 6.25          | 125             | 5.6                                |
|              |              |            |                   |                        |               |              | Adjustable            | 3.3  | 0.3           |             |     |                             |               |                 |                                    |

## Dimensions (mm)

| Capacity (t) | Product Code | Headroom C | D   | a (MFC)   | b   | d (MFC)   | e (MFC)   | f     | g  | h     | i     |
|--------------|--------------|------------|-----|-----------|-----|-----------|-----------|-------|----|-------|-------|
| 0.125        | ER2-001IH    | 350        | 430 | 535 (564) | 345 | 276 (305) | 259       | 284   | 27 | 99    | 117   |
|              |              |            |     |           |     |           |           |       |    |       |       |
| 0.25         | ER2-003IS    | 370        | 490 | 571 (598) | 348 | 300 (325) | 271 (273) | 283   | 27 | 113   | 106   |
|              |              |            |     |           |     |           |           |       |    |       |       |
| 0.5          | ER2-003IH    | 370        | 490 | 568 (593) | 348 | 300 (325) | 268       | 283   | 27 | 113   | 106   |
|              |              |            |     |           |     |           |           |       |    |       |       |
| 1            | ER2-005IL    | 430        | 550 | 614 (632) | 376 | 316 (332) | 298 (300) | 335   | 31 | 129   | 118   |
|              |              |            |     |           |     |           |           |       |    |       |       |
| 1.6          | ER2-010IS    | 430        | 550 | 623 (639) | 376 | 316 (332) | 307       | 335   | 31 | 129   | 118   |
|              |              |            |     |           |     |           |           |       |    |       |       |
| 2            | ER2-016IS    | 510        | 630 | 710 (737) | 427 | 372 (397) | 338 (340) | 384,5 | 39 | 160.5 | 137.5 |
|              |              |            |     |           |     |           |           |       |    |       |       |
| 2.5          | ER2-020IS    | 575        | 630 | 767 (782) | 427 | 411 (426) | 356       | 384,5 | 39 | 160.5 | 137.5 |
|              |              |            |     |           |     |           |           |       |    |       |       |
| 3.2          | ER2-025IS    | 625        | 840 | 800 (826) | 445 | 401 (427) | 399       | 437,5 | 44 | 216   | 82    |
|              |              |            |     |           |     |           |           |       |    |       |       |
| 5            | ER2-032IS    | 785        | 920 | 767 (782) | 427 | 411 (426) | 356       | 397   | 44 | 216   | 82    |
|              |              |            |     |           |     |           |           |       |    |       |       |
| 5            | ER2-050IS    | 850        | 920 | 800 (826) | 445 | 401 (427) | 399       | 439   | 47 | 231.5 | 84.5  |
|              |              |            |     |           |     |           |           |       |    |       |       |

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