

Smooth & ergonomic operation, reliable safety, enhanced durability

# ***KITO ELECTRIC CHAIN HOIST ER2***



Smooth & ergonomic operation

Reliable safety

Enhanced durability

Easier maintenance

Environmentally friendly

# Dual speed inverter hoist provided as standard\*



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\*Except for specific voltage

## KITO ELECTRIC CHAIN HOIST **ER2**

The new Kito electric chain hoist ER2 has been released as a product that further builds upon Kito's previous ER series. Seeking improved ease of use and work efficiency, an inverter has been provided as standard in a dual speed hoist and trolley. The dual speed inverter delivers smoother movement than ever, reducing load swing.

To ensure safety, Kito utilizes a double safety mechanism consisting of an originally developed friction clutch and upper-lower limit switch. Uniquely-designed push button control on the basis of ergonomics, enhanced durability of load chain, improved ease of maintenance as well as support for the environment achieve higher safety and working efficiency. These products, therefore, provide long-period stable operation, which is essential for improving production efficiency. Due to further improved durability, the increased product service life and reduced running costs have resulted in minimizing the lifetime cost.

Kito electric chain hoists have sought the industry's top level of safety, durability and ease of maintenance, and to continue as highly trusted products selected around the world, the evolution of Kito electric chain hoists continues.

**Dual speed inverter hoists with capacities up to 500kg**

**Hoist classification** **M6 (ISO)**  
**3m (FEM)**

**The durability of mechanical components such as gears and bearings is twice higher than M5 (ISO) 2m (FEM)!**

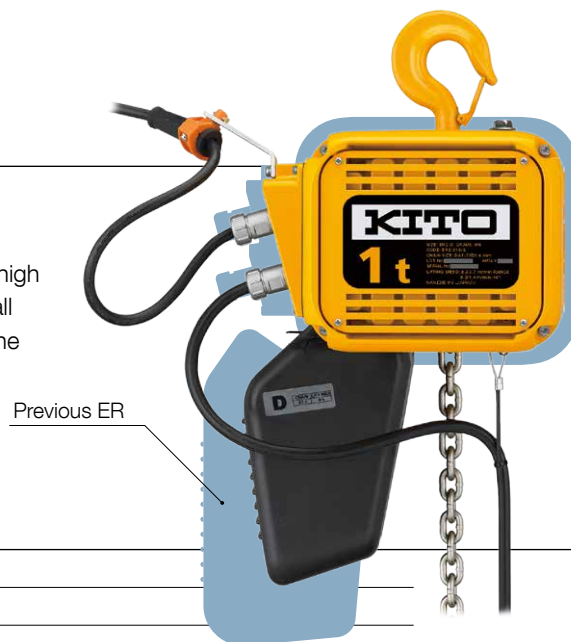
ER2 with hoist inverter enables smoother starting and stopping.  
The total duration of use is 3,200 hours (Subjected regularly to the maximum load).  
The increased duration provides better value and performance.



# Compact body

## Light weight

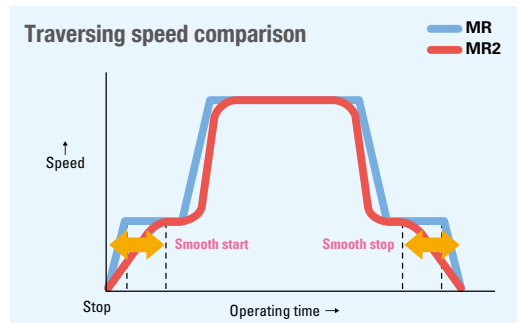
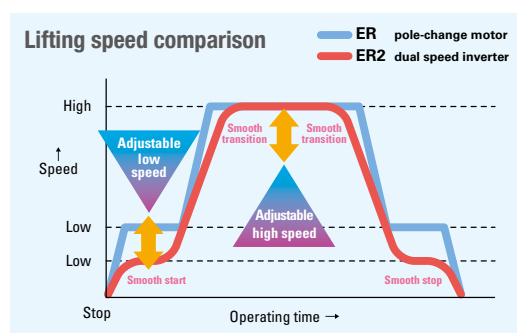
The compact aluminum die-cast body has exceptional rigidity as well as, high dust-protection and water-protection. It has a simple structure with a small number of parts. Fine-tuned profile of the load chain link benefits loss of the hoist body weight compared to the previous ER.



## ER2 outline

Rated capacity:	Single speed – 125kg to 20t
	Dual speed – 125kg to 5t
Voltage:	220-230V 50/60Hz
	380-415V 50Hz 380-440V 60Hz
	500V 50Hz (pole change for dual speed) 460V 60Hz (for specific regions)
Control voltage:	24V (110V for specific regions)
Duty rating:	Single speed – 60% ED (60min.)
	Dual speed – 40/20% ED (30/10min.)
Classification:	M4, M5, M6 (ISO); 1 Am, 2m, 3m (FEM); H4 (ASME)
Motor insulation:	Class B for 220-230-50/60 and 500-50 (460-60)
	Class F for 380-415-50 and 380-440-60
Enclosure:	Hoist body – IP55, Push button control - IP65
Suspension varieties:	Hook, Manual trolley, Motorized trolley
Operating temperature:	-20 to 40°C (-4 to 104°F)
Operating humidity:	85%RH or less

## Smooth & ergonomic operation



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

## 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 adjustable up to 12:1\* for lifting and 10:1\* for traversing.

ER2/MR2 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.

\*For a speed ratio other than the standard, please make a request at the time of placing an order.



## 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 was 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.



Back lug for firm grip



As for a crane fabrication with a motorized end truck, a control box is available if necessary.

**Cover made from silicone rubber to keep the pendant clean**

\*The cover is meant to keep dirt and debris away from the pendant.  
\*The cover is not waterproof.



Resistant to the collisions and shocks that may occur during work, Kito's original push button control can be used in various environments, thus supporting efficient work.



## Load sheave **reduced vibration**

Increasing the number of load sheave pockets helps relieve vibrations produced by the revolving polygonal sheave on the hoist's body and load chain.



# Reliable safety

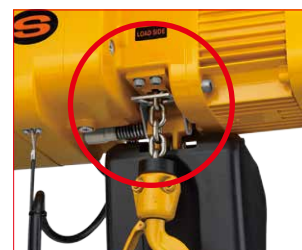
## Friction clutch & upper-lower limit switch **double safety**

Maintaining safety is the most important task for lifting equipment, and is essential for stable operation. To ensure safety, Kito utilizes a double safety mechanism consisting of an originally developed friction clutch and upper-lower limit switch.

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)



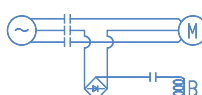
## Thermal protector

To prevent the motor from burning out due to excessive usage, a standard thermal protector is installed in the motor.



## Electromagnetic brake **fail-safe connection**

Connected in series to a motor circuit, a current-driven electromagnetic brake does not release unless the motor is energized. This concurrent drive increases safety of the circuit compared to separate circuits for the motor and the brake.



## 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.

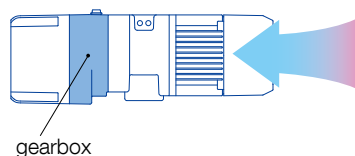


# Enhanced durability

## High end duty rating

The ER2 achieves M6(ISO)/3m(FEM) class (refer to section of "Hoist classifications"), with a duty cycle of 60% ED. Supporting use in the most demanding environments and conditions, this long service life 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.



## 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.

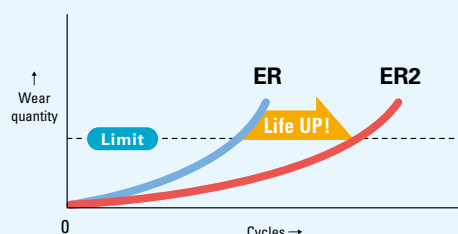


## Load chain **super strength**

Kito's world class original super-strength nickel-plated load chain certified by German Institute, uses unique technology to greatly increase resistance to fatigue and wear.



Load chain wear comparison

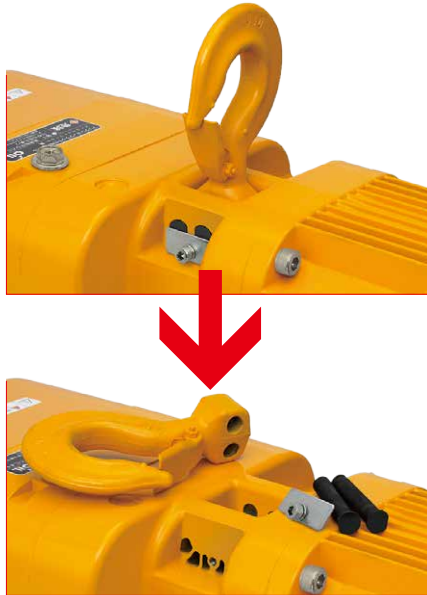


At Kito, testing is continuously being carried out regarding the load chain fatigue, wear, tensile strength, and environment. Kito takes pride in manufacturing load chains that have strength, durability and accuracy for utilization in the product. **ER2 chains are not compatible with that of the previous ER hoist series due to a difference of their chain profile.**

# Easier maintenance

## Connecting shaft & cover belt

The connecting shaft that was previously attached inside the body is now mounted on the outside of the ER2. This allows a top hook or suspender to be attached or removed with ease.

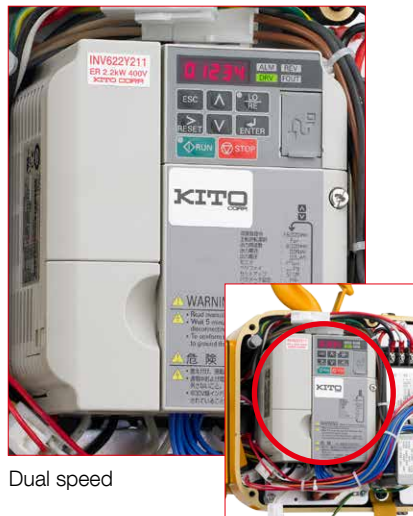


The electric parts and equipment are contained inside the controller cover. Therefore, inspection and parts replacement can be accomplished easily. The controller cover is connected to the hoist body using a cover belt so that maintenance can be carried out more easily.



## CH (counter hour) meter

As a standard feature, the hoist's total on-time and the number of lowering starts are shown on the LCD of the CH meter. 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, contactors, brakes and load chains can be efficiently controlled, allowing the equipment to be used with confidence.



Dual speed



Single speed

# 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.

## Energy saving

Further, an energy-savings can be made due to reduction in rated current draw compared to the previous ER.

## Lower noise

The utilization of the inverter, 4-pole motor as well as the electromagnetic brake, reduces the noise during operation and braking.

# ER2 electric chain hoist

## Electromagnetic brake

Current-driven electromagnetic brake produces strong braking power, securely holding a load.

## External motor fan

Aluminum die-cast motor frame with external motor fan reduces rise in heating during frequent operation.

## Chain guide

Kito's uniquely-structured for smooth chain-feeding.

## Gears

Helical gears reduces operating noise.

## Chain container

Durable plastic or canvas containers as standard.

Direct wiring available

## Plug connection

Easily attached and removed

## Load chain

Nickel-plated load chain standard, manufactured through Kito's own technology to provide a higher resistance against fatigue, wear and rust. The load chain is made from a unique alloy-steel designed of Kito's study and experience, which is produced under high quality control through automated facilities from material incoming to chain completion. The load chain is manufactured with hard surface to increase wear resistance and is well-balanced between its strength and toughness in the core section.

## Hook

Equipped with a bearing and characterized by gradual elongation, not sudden breakage under overload conditions. The notched latch for firm contact improves resistance against lateral force.

## Push button control

Originally designed with emergency stop provided as standard that is both operator friendly and has greater durability.

## Thermal protector

Sensor overheating to shut off the current.

## Connecting shaft

The connecting shaft is mounted on the outside of the body. This allows the top hook or suspender to be attached or removed with ease (except for Body F).

## Aluminum die-cast body

Tough body

## Enclosure

Dust-protected and jet-protected (IP55)

## Electromagnetic contactor

Mechanically interlocked to prevent multi-switching at the same time

## CH meter built-in inverter

Recording and displaying no. of lowering starts and the hoist on-time enable right maintenance appropriate for operational frequency.

## 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

Simplified structure - stops the hoist at both ends of the hook path as a double safety mechanism with friction clutch. (Not regular use)

## Cover belt

Attached to the controller cover and gear case convenient for maintenance.



# ER2 electric chain hoist lineup

Type	Lifting speed		Capacity ( t )												
			125kg	250kg	500kg	1	1.5	2	2.5	3	5	Large capacity			
												7.5	10	15	20
Hook suspension ER2	Single	Low			●	●		●							
		Standard		●	●	●	●	●	●	●	●		●	●	●
		High	●	●											
	Dual inverter	Low			●	●		●							
		Standard		●	●	●	●	●	●	●	●				
		High	●	●											
Trolley suspension Motorized trolley ER2M Plain trolley ER2SP (up to 5t) Geared trolley ER2SG	Single	Low			●	●		●					●		
		Standard		●	●	●	●	●	●	●	●	●	●	●	●
		High	●	●											
	Dual inverter	Low			●	●		●							
		Standard		●	●	●	●	●	●	●	●				
		High	●	●											

Kito 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.

## Trolleys

### Motorized trolley MR2

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

#### Features

- Simple gear box construction
- Improved balance due to a lighter weight geared motor
- Speed variations
  - Single low speed
  - Single standard speed
  - Dual speed

### 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 to 5t)

### Geared trolley TSG

Designed for precise positioning and traversing by using hand chain (125kg to 20t)

#### Motorized trolley MR2



#### Plain trolley TSP



#### Geared trolley TSG



# Lifting & traversing speed

## Lifting speed

(m/min)

Capacity (t)	Single speed						Dual speed					
	50 Hz			60 Hz			50/60 Hz*			500 V		
	Low	Standard	High	Low	Standard	High	Low	Standard	High	Low	Standard	High
125kg			14.1			16.9			1.4 to 16.6			14.2/3.5
250kg		9.1	13.4		10.9	16.1		0.9 to 10.8	1.3 to 15.7		7.2/1.8	
500kg	3.8	7.3		4.6	8.8		0.4 to 4.5	0.7 to 8.5		3.6/0.9	7.1/1.8	
1	3.5	7.1		4.2	8.5		0.3 to 4.2	0.7 to 8.2		3.5/0.9	7.2/7.1	
1.5		4.5			5.4			0.4 to 5.3			4.8/1.2	
2	3.7	7.0		4.4	8.4		0.4 to 4.3	0.7 to 8.2		3.7/0.9	6.9/1.6	
2.5		5.7			6.8			0.6 to 6.6			5.5/1.3	
3		4.4			5.3			0.4 to 5.2			4.4/1.0	
5		2.9			3.5			0.3 to 3.3			2.8/0.6	
7.5		1.9			2.3							
10	1.4	2.9		1.7	3.5							
15		1.9			2.3							
20		1.4			1.7							

Note: The speed ratio of inverter hoists is preset to 6:1 in Kito.

## Traversing speed

(m/min)

Capacity (t)	Single speed				Dual speed	
	50 Hz		60 Hz		50/60 Hz*	500 V
	Low	Standard	Low	Standard	Standard	Standard
125kg to 5	10	20	12	24	2.4 to 24	20/10
7.5 to 20	10		12			

Note: The speed ratio of inverter trolleys is preset to 6:1 in Kito.

# Product code

**Type**

**ER2M010IS-IS**

**Capacity**

Code	Capacity
001	125 kg
003	250 kg
005	500 kg
010	1 t
015	1.5 t
020	2 t
025	2.5 t
030	3 t
050	5 t
075	7.5 t
100	10 t
150	15 t
200	20 t

**Lifting speed**

Code	Lifting speed
S	single, standard
L	single, low
H	single, high
IS	inverter dual, standard
IL	inverter dual, low
IH	inverter dual, high
SD	dual, standard
LD	dual, low
HD	dual, high

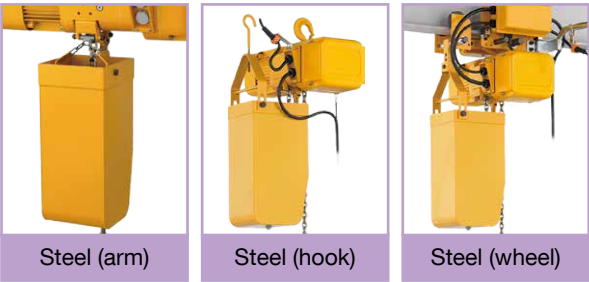
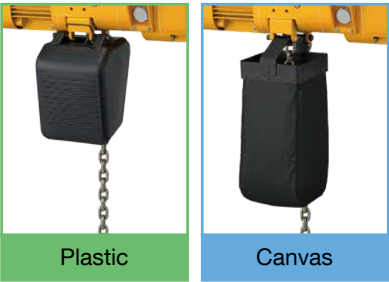
**Traversing speed**

Code	Traversing speed
S	single, standard
L	single, low
IS	inverter dual, standard
SD	dual, standard

Ex. for ER2M010IS-IS, the electric chain hoist bears "ER2-010IS" as a product code and the motorized trolley "MR2-010IS".

# Chain containers

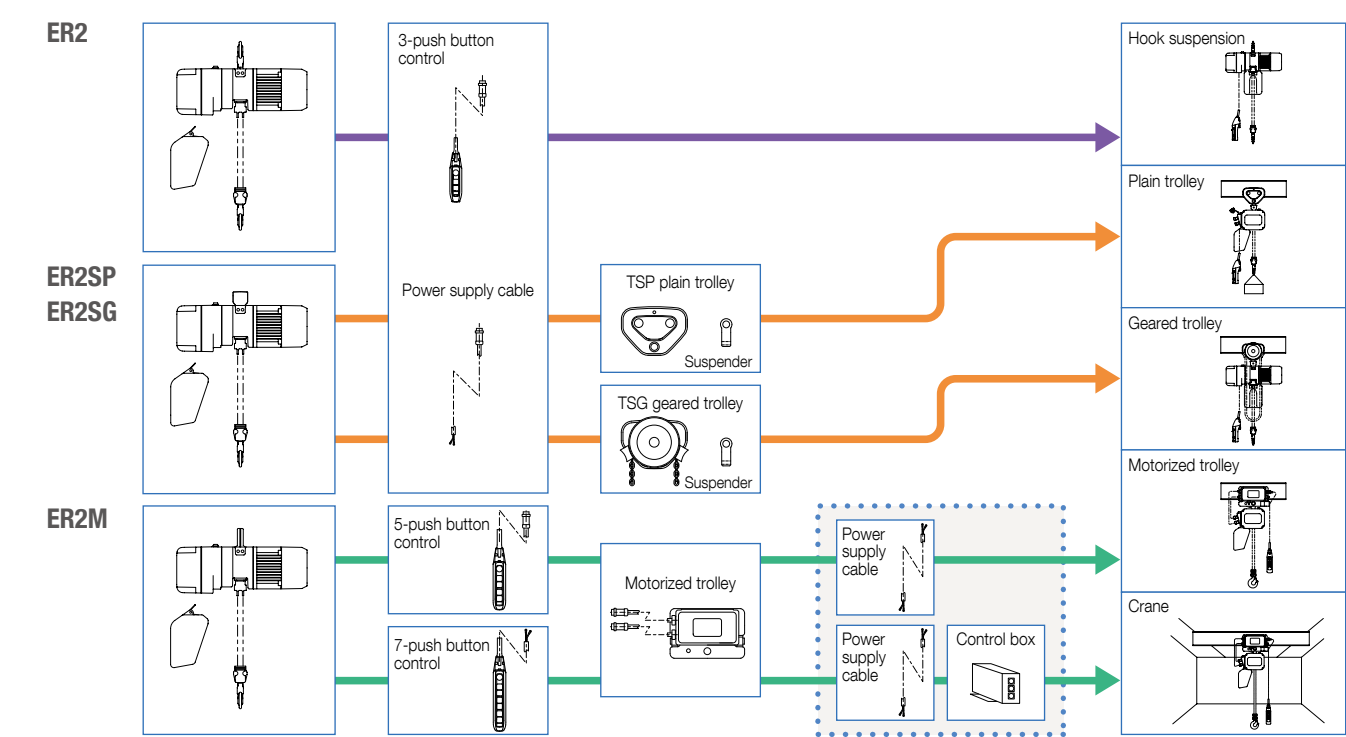
## Type of containers



Product code	Body	≤4m	4.1 ≤6m	6.1 ≤8m	8.1 ≤9m	9.1 ≤12m	12.1 ≤15m	15.1 ≤18m	18.1m<
ER2-001H/IH	B								
ER2-003S/IS									
ER2-003H/IH	C								
ER2-005L/IL									
ER2-005S/IS	D								
ER2-010L/IL									
ER2-010S/IS	E								
ER2-015S/IS									
ER2-020L/IL	F								
ER2-020S/IS									
ER2-025S/IS	E								
ER2-030S/IS									
ER2-050S/IS	F								
ER2-075S									
ER2-100L									
ER2-100S									
ER2-150S									
ER2-200S									

Containers are installed differently depending on the types of the products or lift.  
 The steel containers may not cover the standard curve radii depending on their installation conditions.

# Product configurations

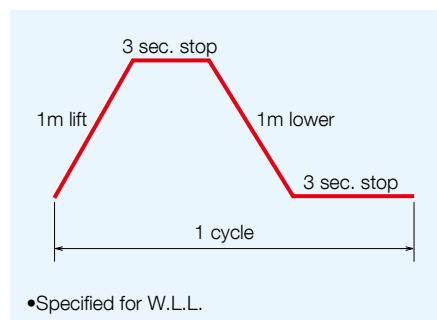


The following types of the hoist are configured differently from the above: Large capacities (7.5t or more), ER2SG/SP for crane, TWER2M and SHER2M

# Lifting motor ratings

## Short time rating

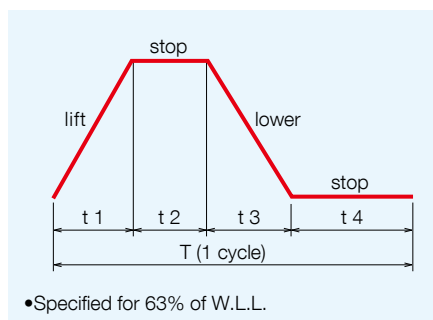
This rating indicates how long the hoist can be operated continuously on the below cycle, assuming continued operation for a short time span.



- Single speed: 60min
- Dual speed: 30/10min

## Intermittent rating (percent ED) max. number of starts per hour

This rating indicates the ED percent (ratio of motor on-to-off time) and max. number of starts per hour (how many times the motor is started up in one hour) for a



hoist operated continuously on the below cycle, assuming continued operation or repeated starting over a long time span.

In the case of single speed:

$$\%ED = \frac{\text{Motor on time (t1+t3)}}{1 \text{ cycle (T)}} \times 100$$

$$T = 1 \text{ cycle (t1+t2+t3+t4)}$$

(Within 10 minutes)

%ED and max. number of starts per hour

- Single speed: 60%ED, 360 starts/hr
- Dual speed: 40/20 %ED, 120/240 starts/hr



# Hoist classifications

## ISO/JIS

State of loading		Total duration of use (h)							
		200	400	800	1600	3200	6300	12500	25000
Light	Mechanisms subjected very rarely to the maximum load and, normally, to light loads	–	–	M1	M2	M3	M4	M5	M6
Moderate	Mechanisms subjected fairly frequently to the maximum load but, normally, to rather moderate loads	–	M1	M2	M3	M4	M5	M6	–
Heavy	Mechanisms subjected frequently to the maximum load and, normally, to loads of heavy magnitude	M1	M2	M3	M4	M5	M6	–	–
Very heavy	Mechanisms subjected regularly to the maximum load	M2	M3	M4	M5	M6	–	–	–

This classification refers to ISO 4301-1 and applies to the mechanical components including gears and bearings except for consumable parts.

## ASME HST

Hoist duty class	Typical areas of application	Operation time ratings at $K=0.65$			
		Uniformly distributed work periods		Infrequent work periods	
		Max. on time, min/ hr	Max. No. starts/ hr	Max. on time from cold start, min	Max. No. of starts
H2	Light machine shop fabricating, service, and maintenance; loads and utilization randomly distributed; rated loads infrequently handled	7.6 (12.5%)	75	15	100
H3	General machine shop fabricating, assembly, storage, and warehousing; loads and utilization randomly distributed	15 (25%)	150	30	200
H4	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	30 (50%)	300	30	300

The grade symbols are identical to those of ASME HST-1M. (Performance standard for electric chain hoist)

## FEM Relation between ISO-and FEM-denominations

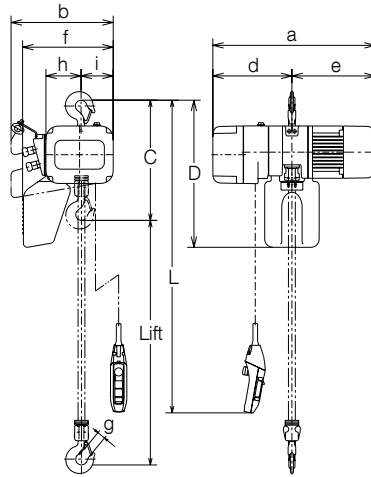
1 D <sub>m</sub>	1 C <sub>m</sub>	1 B <sub>m</sub>	1 A <sub>m</sub>	2 m	3 m	4 m	5 m	Class of operation time		Average operating time per day (in hours)	Calculated total operating time (in hours)
M 1	M 2	M 3	M 4	M 5	M 6	M 7	M 8				
Load spectrum	Cubic mean value	Class of operation time									
		V 0.06	V 0.02	V 0.25	V 0.5	V 1	V 2	V 3	V 4	V 5	
		T 0	T 1	T 2	T 3	T 4	T 5	T 6	T 7	T 8	
		Average operating time per day in hours									
		≤0.12	≤0.25	□≤0.5	□≤1	□≤2	□≤4	□≤8	□≤16	>16	
1 L1	K≤0.50	–	–	1 D <sub>m</sub>	1 C <sub>m</sub>	1 B <sub>m</sub>	1 A <sub>m</sub>	2 m	3 m	4 m	
2 L2	0.50<K≤0.63	–	1 D <sub>m</sub>	1 C <sub>m</sub>	1 B <sub>m</sub>	1 A <sub>m</sub>	2 m	3 m	4 m	5 m	
3 L3	0.63<K≤0.80	1 D <sub>m</sub>	1 C <sub>m</sub>	1 B <sub>m</sub>	1 A <sub>m</sub>	2 m	3 m	4 m	5 m	–	
4 L4	0.80<K≤1.00	1 C <sub>m</sub>	1 B <sub>m</sub>	1 A <sub>m</sub>	2 m	3 m	4 m	5 m	–	–	

Class of operating time		Average operating time per day (in hours)	Calculated total operating time (in hours)
V0.06	T0	≤0.12	200
V0.12	T1	≤0.25	400
V0.25	T2	≤0.5	800
V0.5	T3	≤1	1,600
V1	T4	≤2	3,200
V2	T5	≤4	6,300
V3	T6	≤8	12,500
V4	T7	≤16	25,000
V5	T8	>16	50,000

The grade symbols are identical to those of FEM 9.511. (Rules for the Design of Serial Lifting Equipment: Classification of Mechanisms)

# ER2 Single speed

With hook suspension



- 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.
- Steel chain containers are available as option as shown in section of "Chain containers" if your lift is more than capacity of the standard container volume.

## Specifications

Capacity (t)	Product code	Hoist body	Standard lift (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)	50Hz	60Hz	Diameter (mm)	Chain falls				
125kg	ER2-001H	B		0.56		14.1	16.9	ø4.3	x 1		156kg	27	0.42
250kg	ER2-003S					9.1	10.9				313kg		
	ER2-003H			0.9		13.4	16.1					37	
500kg	ER2-005L	C		0.56		3.8	4.6	ø6.0	x 1	M5/2m/H4	625kg	33	0.81
	ER2-005S					7.3	8.8					37	
1	ER2-010L	D	3	0.9	60	3.5	4.2	ø7.7	x 1		1.25	47	1.33
	ER2-010S					7.1	8.5					54	
1.5	ER2-015S			1.8		4.5	5.4				1.88	72	
2	ER2-020L	E				3.7	4.4	ø10.2	x 1		2.5	73	2.3
	ER2-020S					7.0	8.4					91	
2.5	ER2-025S	F		3.5		5.7	6.8	ø11.2	x 1	M4/1Am/H4	3.13	104	2.8
3	ER2-030S	E				4.4	5.3	ø10.2	x 2		3.75	107	4.7
5	ER2-050S	F				2.9	3.5	ø11.2	x 2		6.25	132	5.6

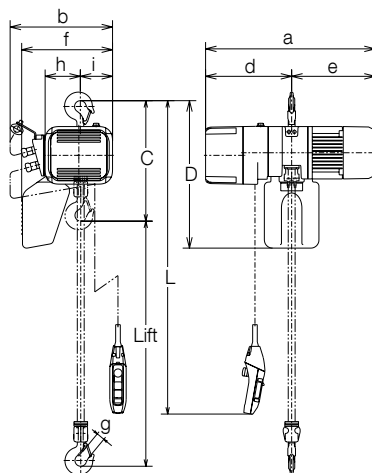
## Dimensions (mm)

Capacity (t)	Product code	Headroom C	D	a	b	d	e	f	g	h	i
125kg	ER2-001H	350	430	478(564)	321(345)	219(305)	259	260(284)	27	99	93(117)
250kg	ER2-003S			510(593)			268				
	ER2-003H	370	490	513(599)	348	242(325)	271(273)	283	27	113	106
500kg	ER2-005S			510(593)			268				
1	ER2-010L	430	550	589(632)	376	291(332)	298(300)	335	31	129	118
	ER2-010S			598(639)			307				
1.5	ER2-015S	510	630	646(738)	427	308(397)	338(341)	384.5	34	160.5	137.5
2	ER2-020L	575		703(782)			356		39		
	ER2-020S	590									
2.5	ER2-025S	625	840	736(826)	445	337(427)	399	437.5		173.5	142.5
3	ER2-030S	785	920	703(782)	427	347(426)	356	397	44	216	82
5	ER2-050S	850		736(826)	445	337(427)	399	439	47	231.5	84.5

Note: Figures in ( ) are data for mechanical brake with friction clutch.

# ER2 Dual speed inverter

With hook suspension



- 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.
- Steel chain containers are available as option as shown in section of "Chain containers" if your lift is more than capacity of the standard container volume.
- Lifting speed in catalogue is at the rated load. It may vary depending on actual load.

## Specifications

Capacity (t)	Product code	Hoist body	Standard Lift (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)	50/60Hz		Diameter (mm)	x	Chain falls											
						High	Low														
125kg	ER2-001IH	B		0.56		Preset	16.6	2.8	ø4.3	x	1	M6/3m/H4 (M5/2m/H4)	156kg	27	0.42						
250kg	ER2-003IS					Adjustable		1.4					313kg								
	ER2-003IH					Preset	10.8	1.8													
						Adjustable		0.9													
500kg	ER2-005IL	C		0.56		Preset	15.7	2.6	ø6.0	x	1	M5/2m/H4	625kg	36	0.81						
						Adjustable		1.3													
	ER2-005IS	D	3	0.9	40/20	Preset	4.5	0.8					ø7.7	x		1	M5/2m/H4	1.25	45	1.33	
						Adjustable		0.4													
	1	ER2-010IL	E		1.8		Preset	8.5					1.4	ø10.2		x	1		2.5	73	2.3
							Adjustable						0.7								
1.5	ER2-015IS	F		3.5		Preset	4.2	0.3	ø11.2	x	1	M4/1Am/H4	3.13	100	2.8						
2	ER2-020IL	F				Adjustable	8.2	0.7					ø10.2	x	2		3.75	105	4.7		
						Preset	5.3	0.9	ø11.2	x	2									6.25	128
2.5	ER2-025IS	E				Preset	5.2	0.4					ø10.2	x	2		3.75	105	4.7		
						Adjustable		0.6													
3	ER2-030IS	F				Preset	3.3	0.6	ø11.2	x	2		6.25	128	5.6						
5	ER2-050IS	F				Adjustable		0.3													

Note: The high speed is preset to the maximum speed in Kito. The speeds are adjustable between high and low. Figures in ( ) are data for mechanical brake with friction clutch.

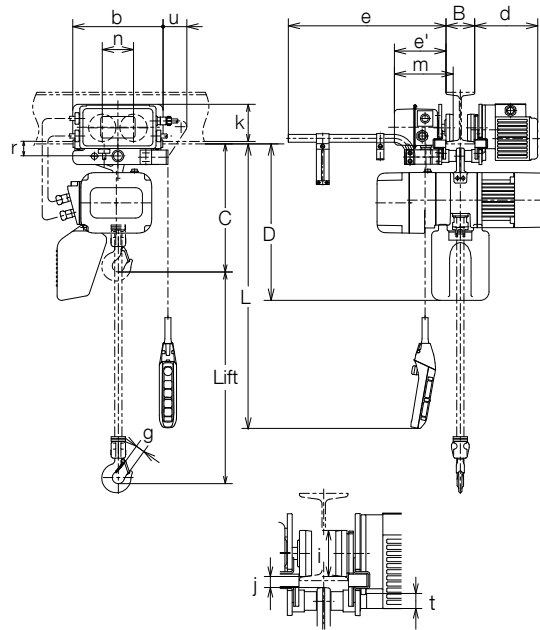
## Dimensions (mm)

Capacity (t)	Product code	Headroom C	D	a	b	d	e	f	g	h	i
125kg	ER2-001IH	350	430	535(564)	345	276(305)	259	284	27	99	117
250kg	ER2-003IS										
	ER2-003IH	370	490	568(593)	348	300(325)	268	283	27	113	106
500kg	ER2-005IL										
	ER2-005IS	430	550	614(632)	376	316(332)	298(300)	335	31	129	118
1	ER2-010IL										
	ER2-010IS	510	630	623(639)	427	372(397)	307	384.5	34	160.5	137.5
1.5	ER2-015IS										
2	ER2-020IL	575	840	710(737)	445	411(426)	356	437.5	39	173.5	142.5
	ER2-020IS										
2.5	ER2-025IS	625	920	800(826)	427	401(427)	399	439	44	216	82
3	ER2-030IS	785		767(782)	445	411(427)	356	439	47	231.5	84.5
5	ER2-050IS	850		800(826)	445	401(427)	399	439	47	231.5	84.5

Note: Figures in ( ) are data for mechanical brake with friction clutch.

# ER2M Single lifting - single traversing speed

With motorized trolley



- 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.
- Steel chain containers are available as option as shown in section of "Chain containers" if your lift is more than capacity of the standard container volume.
- Single lifting - Dual traversing is also available.

## Specifications

Capacity (t)	Product code	Hoist body	Stand- ard lift (m)	ER2						MR2								Test load (t)	Net weight (kg)	Additional weight per 1m lift (kg)	
				Lifting motor		Lifting speed (m/min)		Load chain		Classifi- cation ISO/FEM /ASME	Traversing motor		Traversing speed (m/min)		Flange width B (mm)		Min. radius curve (mm)				
															Standard	Option					
				Output (kW)	Rating (%ED)	50Hz	60Hz	Diameter (mm)	Chain falls			Output (kW)	Rating (%ED)	50Hz	60Hz		W30 (305mm)				
125kg	ER2M001H-S/L	B		0.56		14.1	16.9	ø4.3	x 1										156kg	58	0.42
250kg	ER2M003S-S/L					9.1	10.9														
	ER2M003H-S/L		0.9	13.4	16.1													313kg	68		
500kg	ER2M005L-S/L	C		0.56		3.8	4.6	ø6.0	x 1	M5/2m /H4						58 to 153	154 to 305		625kg	64	0.81
	ER2M005S-S/L					7.3	8.8												68		
1	ER2M010L-S/L	D	3	60		3.5	4.2	ø7.7	x 1			0.4	40	20 (10)	24 (12)			800	1.25	77	1.33
	ER2M010S-S/L				7.1	8.5	84														
1.5	ER2M015S-S/L			1.8		4.5	5.4												1.88	110	
2	ER2M020L-S/L	E				3.7	4.4	ø10.2	x 1							82 to 178	179 to 305		2.5	111	2.3
	ER2M020S-S/L				7.0	8.4	129														
2.5	ER2M025S-S/L	F		3.5		5.7	6.8	ø11.2	x 1	M4/1Am /H4								1000	3.13	152	2.8
3	ER2M030S-S/L	E			4.4	5.3	ø10.2	x 2	3.75										155	4.7	
5	ER2M050S-S/L	F				2.9	3.5	ø11.2	x 2										0.75		

Note: The bracketed figures in Traversing speed are low speed. The minimum radius curve may depend on flange width. For further information, contact the nearest Kito dealer.

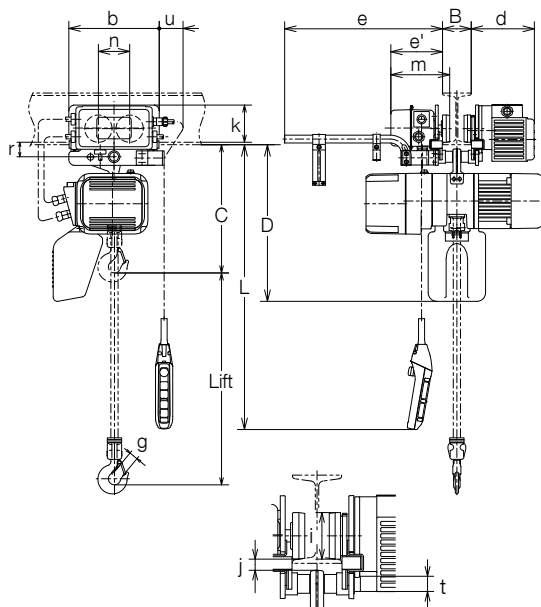
## Dimensions (mm)

Capacity (t)	Product code	Headroom C	D	b	d	e	e'	g	i	j	k	m	n	r	t	u
125kg	ER2M001H-S/L	375	450													
250kg	ER2M003S-S/L															
	ER2M003H-S/L							27								
500kg	ER2M005L-S/L	395	510	315	220	515	179		95	22	130	205	109	51	31	83
	ER2M005S-S/L															
1	ER2M010L-S/L	435	550					31								
	ER2M010S-S/L															
1.5	ER2M015S-S/L	505						34								
2	ER2M020L-S/L	570	630	325	225	520	184		110	27	125	212	118	60	36	76
	ER2M020S-S/L	585						39								
2.5	ER2M025S-S/L	620	830						125	29	131	215	132	68	43	70
3	ER2M030S-S/L	765	900	340	226	521	186	44								
5	ER2M050S-S/L	840	910	400	281	528	192	47	140	44	145	233	150	86	54	56



# ER2M Dual lifting inverter - Dual traversing speed inverter

With motorized trolley



- 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.
- Steel chain containers are available as option as shown in section of "Chain containers" if your lift is more than capacity of the standard container volume.
- Lifting speed in catalogue is at the rated load. It may vary depending on actual load.

## Specifications

Capacity (t)	Product code	ER2										MR2										Test load (t)	Net weight (kg)	Additional weight per 1m lift (kg)					
		Hoist body	Stand- ard lift (m)	Lifting motor		Lifting speed (m/min)*		Load chain	Classi- fication ISO/FEM /ASME	Traversing motor		Traversing speed* (m/min)		Flange width B (mm)		Min. radius curve (mm)													
				Output (kW)	Rating (%ED)	50/60Hz				Diameter (mm)	Chain x falls	Output (kW)	Rating (%ED)	50/60Hz			Standard	Option W30 (305mm)											
						High	Low							High	Low				High	Low									
125kg	ER2M001IH-IS	B		0.56		Preset	16.6	2.8	ø4.3 x 1	M6/3m /H4 (M5/2m) /H4								156kg	59	0.42									
250kg	ER2M003IS-IS					Preset	10.8	1.8										Adjustable											313kg
	ER2M003IH-IS					Preset	15.7	2.6										Adjustable											69
500kg	ER2M005IL-IS	C		0.56		Preset	4.5	0.8	ø6.0 x 1					58 to 153	154 to 305			625kg	65	0.81									
	ER2M005IS-IS					Preset	8.5	1.4										Adjustable									69		
1	ER2M010IL-IS	D	3		40/20	Preset	4.2	0.7	ø7.7 x 1	M5/2m /H4	0.4	27/13	Preset	24	4			1.25	77	1.33									
	ER2M010IS-IS					Preset	8.2	1.4										Adjustable									84		
1.5	ER2M015IS-IS	E		1.8		Preset	5.3	0.9	ø10.2 x 1				Adjustable	24	2.4			1.88	111										
2	ER2M020IL-IS					Preset	4.3	0.7										Adjustable										2.5	112
	ER2M020IS-IS					Preset	8.2	1.4										Adjustable										129	
2.5	ER2M025IS-IS	F		3.5		Preset	6.6	1.1	ø11.2 x 1	M4/1Am /H4								3.13	151	2.8									
3	ER2M030IS-IS	E				Preset	5.2	0.9										Adjustable								3.75	155	4.7	
5	ER2M050IS-IS	F				Preset	3.3	0.6										Adjustable									1800	6.25	200

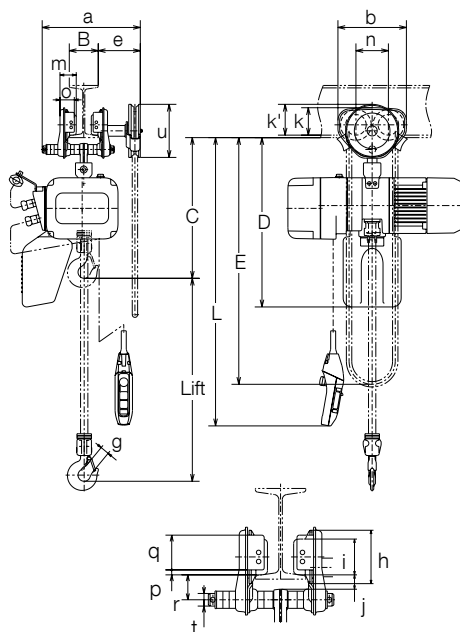
Note: The minimum radius curve may depend on flange width. For further information, contact the nearest Kito dealer.  
The high speed is preset to the maximum speed in Kito. The speeds are adjustable between high and low.  
Figures in ( ) are data for mechanical brake with friction clutch.

## Dimensions (mm)

Capacity (t)	Product code	Headroom C	D	b	d	e	e'	g	i	j	k	m	n	r	t	u
125kg	ER2M001IH-IS	375	450													
250kg	ER2M003IS-IS															
	ER2M003IH-IS							27								
500kg	ER2M005IL-IS	395	510	315	220	515	179		95	22	130	205	109	51	31	83
	ER2M005IS-IS															
1	ER2M010IL-IS	435	550					31								
	ER2M010IS-IS															
1.5	ER2M015IS-IS	505						34								
2	ER2M020IL-IS	570	630	325	225	520	184		110	27	125	212	118	60	36	76
	ER2M020IS-IS	585						39								
2.5	ER2M025IS-IS	620	830													
3	ER2M030IS-IS	765	900	340	226	521	186		125	29	131	215	132	68	43	70
5	ER2M050IS-IS	840	910	400	281	528	192	47	140	44	145	233	150	86	54	56

# ER2SG Single speed

With geared trolley



- 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.
- Steel chain containers are available as option as shown in section of "Chain containers" if your lift is more than capacity of the standard container volume.

## Specifications

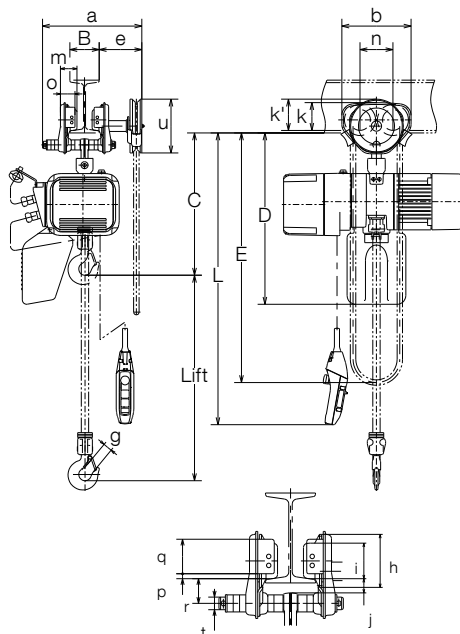
Capacity (t)	Product code	Hoist body	Stand- ard lift (m)	ER2						Classifi- cation ISO/FEM /ASME	Folded hand chain length E (m)	TSG				Test load (t)	Net weight (kg)	Additional weight per 1m lift (kg)	
				Lifting motor		Lifting speed (m/min)		Load chain				Flange width B (mm)			Min. radius curve (mm)				
				Output (kW)	Rating (%ED)	50Hz	60Hz	Diameter (mm)	Chain falls			Standard	Option						
													W20 (203mm)	W30 (305mm)					
125kg	ER2SG001H	B		0.56		14.1	16.9	ø4.3 x 1								156kg	40	1.4	
250kg	ER2SG003S					9.1	10.9												
	ER2SG003H		0.9		13.4	16.1										313kg	50		
500kg	ER2SG005L	C		0.56		3.8	4.6	ø6.0 x 1	M5/2m /H4			58 to 127	128 to 203	204 to 305	1300	625kg	46	1.7	
	ER2SG005S					7.3	8.8										50		
1	ER2SG010L	D	3	0.9	60	3.5	4.2	ø7.7 x 1		2.8						1.25	59	2.3	
	ER2SG010S						7.1									8.5			66
1.5	ER2SG015S			1.8		4.5	5.4									1.88	89		
2	ER2SG020L	E				3.7	4.4	ø10.2 x 1				82 to 153		154 to 305	1500	2.5	90	3.2	
	ER2SG020S						7.0									8.4			109
2.5	ER2SG025S	F		3.5		5.7	6.8	ø11.2 x 1	M4/1Arm /H4						1700	3.13	132	3.7	
3	ER2SG030S	E				4.4	5.3	ø10.2 x 2									3.75	134	5.6
5	ER2SG050S	F				2.9	3.5	ø11.2 x 2									3.3	100 to 178	

## Dimensions (mm)

Capacity (t)	Product code	Headroom C	D	a	b	e	g	h	i	j	k	k'	m	n	o	p	q	r	t	u
125kg	ER2SG001H	415	490																	
250kg	ER2SG003S																			
	ER2SG003H						27													
500kg	ER2SG005L	435	550	345	236	152		106	71	28	95	107	56	112	50		69	50	25	
	ER2SG005S																			
1	ER2SG010L	470	590				31									10				183
	ER2SG010S																			
1.5	ER2SG015S	570					34													
2	ER2SG020L	635	690	385	280	154		127	85	34	112	109	71	131	63		83	62	32	
	ER2SG020S	650					39													
2.5	ER2SG025S	680	890																	
3	ER2SG030S	780	910	398	324	157		148	100	36	134	115	80	152	74		102	68	36	
							44													
5	ER2SG050S	840		401	400	156	47	169	118	46	144	131	81	178	70		104	88	54	

# ER2SG Dual speed inverter

With geared trolley



- 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.
- Steel chain containers are available as option as shown in section of "Chain containers" if your lift is more than capacity of the standard container volume.
- Lifting speed in catalogue is at the rated load. It may vary depending on actual load.

## Specifications

Capacity (t)	Product code	ER2									TSG						Test load (t)	Net weight (kg)	Additional weight per 1m lift (kg)			
		Hoist body	Standard lift (m)	Lifting motor		Lifting speed (m/min)*		Load chain		Classifi- cation ISO/FEM /ASME	Folded hand chain length E (m)	Flange width B (mm)			Min. radius curve (mm)							
				Output (kW)	Rating (%ED)	50/60Hz		Diameter (mm)	Chain falls			Standard	Option									
						High	Low						W20 (203mm)	W30 (305mm)								
125kg	ER2SG001IH	B		0.56		Preset	16.6	2.8	ø4.3 x 1	M6/3m /H4					156kg	40	1.4					
250kg	ER2SG003IS					Adjustable	10.8	1.4														
	ER2SG003IH					Adjustable	0.9															
500kg	ER2SG005IL	C		0.56		Preset	15.7	2.6	ø6.0 x 1		58 to 127	128 to 203	204 to 305	1300	313kg	49	1.7					
	ER2SG005IS					Adjustable	1.3															
1	ER2SG010IL	D	3	0.9	40/20	Preset	4.5	0.8	ø7.7 x 1	M5/2m /H4	2.8				625kg	45	2.3					
	Adjustable					0.4																
	ER2SG010IS					Adjustable	8.5	1.4														
1.5	ER2SG015IS	E		1.8		Preset	4.2	0.7	ø10.2 x 1						1.25	57						
2	ER2SG020IL					Adjustable	0.3															
	ER2SG020IS					Adjustable	8.2	1.4														
2.5	ER2SG025IS	F		3.5		Preset	8.2	0.7	ø11.2 x 1	M4/1Am /H4					1.88	89						
3	ER2SG030IS					Adjustable	5.3	0.4														
	ER2SG030IS					Adjustable	4.3	0.7										ø10.2 x 1		82 to 153		154 to 305
5	ER2SG050IS	Adjustable	8.2	0.4																		
3	ER2SG030IS	E				Preset	6.6	1.1	ø11.2 x 1						1700	3.13	128	3.7				
5	ER2SG050IS	F				Adjustable	5.2	0.9	ø10.2 x 2							3.75	132	5.6				
						Adjustable	0.4															
5	ER2SG050IS	F				Preset	3.3	0.6	ø11.2 x 2		3.3	100 to 178		179 to 305	2300	6.25	184	6.5				
						Adjustable	0.3															

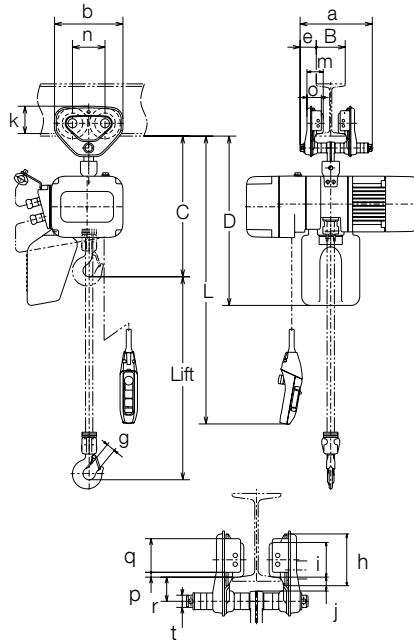
Note: The high speed is preset to the maximum speed in Kito. The speeds are adjustable between high and low.

## Dimensions (mm)

Capacity (t)	Product code	Headroom C	D	a	b	e	g	h	i	j	k	k'	m	n	o	p	q	r	t	u
125kg	ER2SG001IH	415	490																	
250kg	ER2SG003IS																			
	ER2SG003IH						27													
500kg	ER2SG005IL	435	550	345	236	152		106	71	28	95	107	56	112	50		69	50	25	
	ER2SG005IS																			
1	ER2SG010IL	470	590				31									10				183
	ER2SG010IS																			
1.5	ER2SG015IS	570					34													
2	ER2SG020IL	635	690	385	280	154		127	85	34	112	109	71	131	63		83	62	32	
	ER2SG020IS	650					39													
2.5	ER2SG025IS	680	890																	
3	ER2SG030IS	780	910	398	324	157	44	148	100	36	134	115	80	152	74		102	68	36	
	ER2SG050IS	840		401	400	156	47	169	118	46	144	131	81	178	70		104	88	54	

# ER2SP Single speed

With plain trolley



- 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.
- Steel chain containers are available as option as shown in section of "Chain containers" if your lift is more than capacity of the standard container volume.
- The hoist direction to a beam for 3 t or 5 t is different 90 degrees.

## Specifications

Capacity (t)	Product code	Hoist body	Stand- ard lift (m)	ER2						Classification ISO/FEM/ASME	TSP			Test load (t)	Net weight (kg)	Additional weight per 1m lift (kg)											
				Lifting motor		Lifting speed (m/min)		Load chain			Flange width B (mm)		Min. radius curve (mm)														
				Output (kW)	Rating (%ED)	50Hz	60Hz	Diameter (mm)	Chain falls		Standard	Option															
125kg	ER2SP001H	B		0.56		14.1	16.9	ø4.3 x 1							156kg	32	0.42										
250kg	ER2SP003S					9.1	10.9																				
	ER2SP003H	C		0.9		13.4	16.1													313kg	42						
500kg	ER2SP005L			0.56		3.8	4.6	ø6.0 x 1							M5/2m/H4								625kg	38	0.81		
	ER2SP005S		7.3	8.8			42																				
1	ER2SP010L	D	3	0.9	60	3.5	4.2	ø7.7 x 1									55	1.33									
	ER2SP010S						7.1										8.5				62						
1.5	ER2SP015S			1.8			4.5	5.4									1.88	85									
2	ER2SP020L	E					3.7	4.4	ø10.2 x 1										86	2.3							
	ER2SP020S			7.0	8.4														105								
2.5	ER2SP025S	F		3.5		5.7	6.8	ø11.2 x 1	M4/1Am/H4								128	2.8									
3	ER2SP030S	E				4.4	5.3	ø10.2 x 2															130	4.7			
5	ER2SP050S	F				2.9	3.5	ø11.2 x 2																			

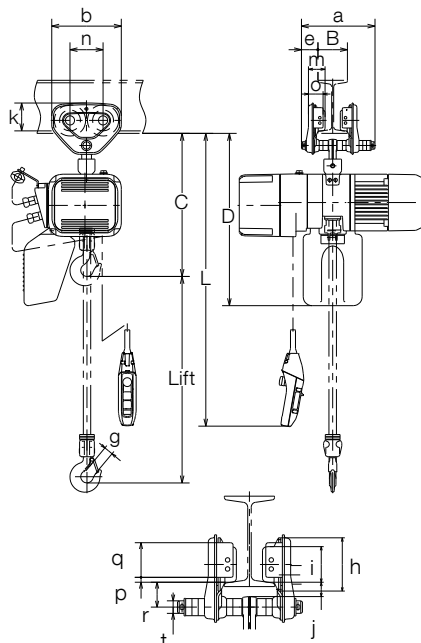
## Dimensions (mm)

Capacity (t)	Product code	Headroom C	D	a	b	e	g	h	i	j	k	m	n	o	p	q	r	t
125kg	ER2SP001H	395	470															
250kg	ER2SP003S																	
	ER2SP003H			204	182	46	27	82	60	21	76	47.5	84	42		54	38	22
500kg	ER2SP005L	415	530															
	ER2SP005S																	
1	ER2SP010L	470	590	249	236	56	31	106	71	28	95	56	112	50	10	69	50	25
	ER2SP010S																	
1.5	ER2SP015S	570					34											
2	ER2SP020L	635	690	300	280	69		127	85	34	112	71	131	63		83	62	32
	ER2SP020S	650					39											
2.5	ER2SP025S	680	890															
3	ER2SP030S	780		320	324	79		148	100	36	134	80	152	74		102	68	36
							44											
5	ER2SP050S	840	910	297	400	53	47	169	118	46	144	81	178	70		104	88	54



# ER2SP Dual speed inverter

With plain trolley



- 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.
- Steel chain containers are available as option as shown in section of "Chain containers" if your lift is more than capacity of the standard container volume.
- The hoist direction to a beam for 3 t or 5 t is different 90 degrees.
- Lifting speed in catalogue is at the rated load. It may vary depending on actual load.

## Specifications

Capacity (t)	Product code	Hoist body	ER2								TSP				Test load (t)	Net weight (kg)	Additional weight per 1m lift (kg)											
			Standard lift (m)	Lifting motor		Lifting speed (m/min)*		Load chain	Classifi- cation ISO/FEM /ASME	Flange width B (mm)			Min. radius curve (mm)															
				Output (kW)	Rating (%ED)	50/60Hz				Diameter (mm)	Chain falls	Standard		Option														
							High	Low							W20 (203mm)	W30 (305mm)												
125kg	ER2SP001IH	B		0.56		Preset	16.6	2.8	ø4.3 x 1		M6/3m /H4	50 to 102	103 to 203		1100	156kg	32	0.42										
250kg	ER2SP003IS					Preset	10.8	1.8								ø6.0 x 1			M5/2m /H4	58 to 127	128 to 203		1300	313kg	41			
	ER2SP003IH					Adjustable	15.7	2.6									Adjustable	4.5						0.4			625kg	37
500kg	ER2SP005IL	C		0.56		Preset	8.5	1.4	ø7.7 x 1		M5/2m /H4	82 to 153	154 to 305		1500	625kg	41											
	ER2SP005IS					Adjustable	4.2	0.7								Adjustable			8.2	0.7	1.25	53	1.33					
1	ER2SP010IL					D	3									40/20	Preset	5.3	0.9	ø10.2 x 1				M4/1Am /H4	100 to 178	179 to 305		1700
ER2SP010IS	Adjustable	4.3	0.4	Adjustable	5.2				0.4	3.75	128	4.7																
1.5	ER2SP015IS	E		1.8					Preset	8.2			0.7	ø11.2 x 1														
2	ER2SP020IL					Adjustable	6.6	0.6	Adjustable	3.3	0.3	ø11.2 x 2																
	ER2SP020IS					Adjustable	4.3	0.4	Adjustable	5.2	0.4	ø10.2 x 2																
2.5	ER2SP025IS	F		3.5		Preset	5.2	0.9	ø10.2 x 2							3.13	124	2.8										
3	ER2SP030IS					Adjustable	6.6	0.6								Adjustable			3.3	0.3	ø11.2 x 2							
5	ER2SP050IS					Adjustable	4.3	0.4								Adjustable	5.2	0.4	ø10.2 x 2									

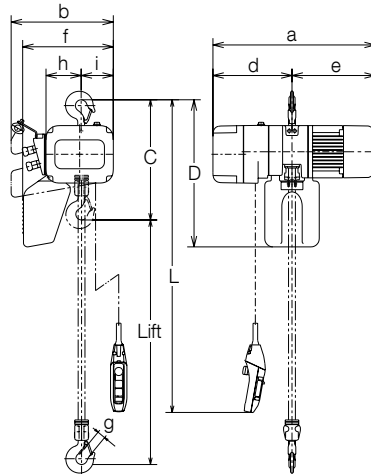
Note: The high speed is preset to the maximum speed in Kito. The speeds are adjustable between high and low.

## Dimensions (mm)

Capacity (t)	Product code	Headroom C	D	a	b	e	g	h	i	j	k	m	n	o	p	q	r	t
125kg	ER2SP001IH	395	470															
250kg	ER2SP003IS																	
250kg	ER2SP003IH			204	182	46	27	82	60	21	76	47.5	84	42		54	38	22
500kg	ER2SP005IL	415	530															
500kg	ER2SP005IS																	
1	ER2SP010IL	470	590	249	236	56	31	106	71	28	95	56	112	50	10	69	50	25
1	ER2SP010IS																	
1.5	ER2SP015IS	570					34											
2	ER2SP020IL	635	690	300	280	69		127	85	34	112	71	131	63		83	62	32
2	ER2SP020IS	650					39											
2.5	ER2SP025IS	680	890															
3	ER2SP030IS	780	910	320	324	79		148	100	36	134	80	152	74		102	68	36
5	ER2SP050IS	840		297	400	53	47	169	118	46	144	81	178	70		104	88	54

# ER2 Dual speed 500V pole change

With hook suspension



- 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.
- Steel chain containers are available as option as shown in section of "Chain containers" if your lift is more than capacity of the standard container volume.

## Specifications

Capacity (t)	Product code	Hoist body	Standard lift (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)		Diameter (mm)	Chain falls				
125kg	ER2-001HD	B		0.5/0.13		14.2/3.5	ø4.3	x 1		156kg	31	0.42
250kg	ER2-003SD					7.2/1.8				313kg		
500kg	ER2-005LD	C		0.9/0.23		3.6/0.9	ø6.0	x 1	M5/2m/H4	625kg	39	0.81
	ER2-005SD					7.1/1.8					43	
1	ER2-010LD	D	3		40/20	3.5/0.9	ø7.7	x 1		1.25	56	1.33
	ER2-010SD					7.2/1.7					58	
1.5	ER2-015SD	E		1.8/0.45		4.8/1.2	ø10.2	x 1		1.88	74	
2	ER2-020LD					3.7/0.9					76	2.3
	ER2-020SD					6.9/1.6				2.5	97	
2.5	ER2-025SD	F		3.5/0.88		5.5/1.3	ø11.2	x 1	M4/1Am/H4	3.13	108	2.8
3	ER2-030SD	E				4.4/1.0	ø10.2	x 2		3.75	113	4.7
5	ER2-050SD	F				2.8/0.6	ø11.2	x 2		6.25	134	5.6

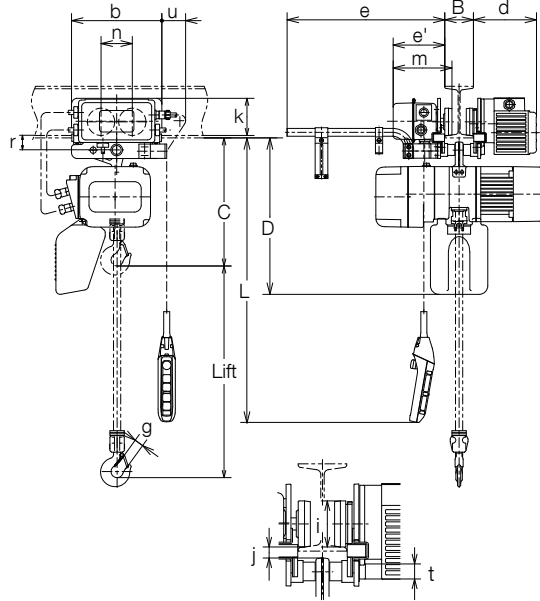
## Dimensions (mm)

Capacity (t)	Product code	Headroom C	D	a	b	d	e	f	g	h	i
125kg	ER2-001HD	350	430	478	321 (345)	219 (305)	259	260	27	99	93 (117)
250kg	ER2-003SD			(564)				(305)			
500kg	ER2-005LD	370	490	513	348	242 (325)	271	283	27	113	106
	ER2-005SD			(598)			(273)				
1	ER2-010LD	430	550	589	376	291 (332)	298	335	31	129	118
	ER2-010SD			(632)			(300)				
1.5	ER2-015SD	510	630	646	427	308	338	384.5	34	160.5	137.5
2	ER2-020LD	575		(737)		(397)	(340)		39		
	ER2-020SD	590	737	347	390						
2.5	ER2-025SD	625	840	736	445	337	399	437.5		173.5	142.5
				(826)		(427)					
3	ER2-030SD	785	920	737	427	347	390	397	44	216	82
5	ER2-050SD	850		(816)		(426)					
			736	445	337	399	439	47	231.5	84.5	
				(826)		(427)					

Note: Figures in ( ) are data for mechanical brake with friction clutch.

# ER2M Dual lifting pole change - Dual traversing speed **500V** pole change

With motorized trolley



- 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.
- Steel chain containers are available as option as shown in section of "Chain containers" if your lift is more than capacity of the standard container volume.

## Specifications

Capacity (t)	Product code	Hoist body	Stand- ard lift (m)	ER2					MR2						Test load (t)	Net weight (kg)	Additional weight per 1m lift (kg)		
				Lifting motor		Lifting speed (m/min)	Load chain	Classifi- cation ISO/FEM /ASME	Traversing motor		Traversing speed (m/min)	Flange width B (mm)		Min. radius curve (mm)					
				Output (kW)	Rating (%ED)				Diameter (mm)	Chain falls		Output (kW)	Rating (%ED)					Standard	Option W30 (305mm)
125kg	ER2M001HD-SD	B	3	0.5/0.13	40/20	14.2/3.5	ø4.3 × 1	M5/2m /H4	0.32/0.08	27/13	20/5	58 to 153	154 to 305	800	156kg	66	0.42		
250kg	ER2M003SD-SD					7.2/1.8									313kg				
500kg	ER2M005LD-SD	C		0.9/0.23		3.6/0.9	ø6.0 × 1								625kg	74	0.81		
	ER2M005SD-SD					7.1/1.8												77	
1	ER2M010LD-SD	D		1.8/0.45		3.5/0.9	ø7.7 × 1									1.25	89	1.33	
	ER2M010SD-SD					7.2/1.7											92		
1.5	ER2M015SD-SD	E		3.5/0.88		4.8/1.2	ø10.2 × 1	1.88	116	2.3									
2	ER2M020LD-SD					3.7/0.9			2.5		117								
	ER2M020SD-SD	6.9/1.6		138															
2.5	ER2M025SD-SD	F		3		4.4/1.0	5.5/1.3	ø11.2 × 1	M4/1Am /H4	0.64/0.16				82 to 178	179 to 305	1000	3.13	159	2.8
3	ER2M030SD-SD	E					4.4/1.0	ø10.2 × 2									3.75	164	4.7
5	ER2M050SD-SD	F					2.8/0.6	11.2 × 2									6.25	208	5.6

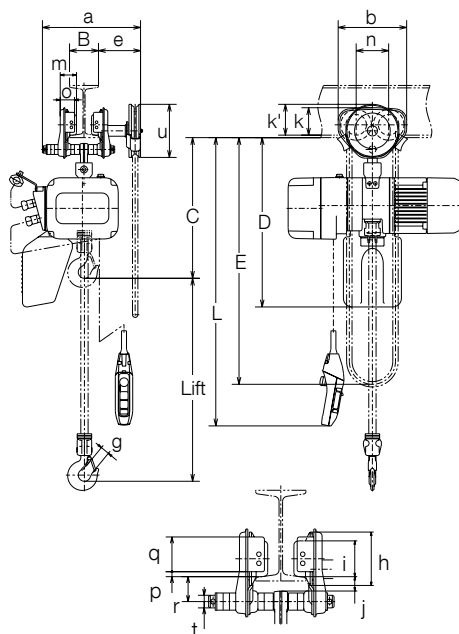
Note: The minimum radius curve may depend on flange width. For further information, contact the nearest Kito dealer.

## Dimensions (mm)

Capacity (t)	Product code	Headroom C	D	b	d	e	e'	g	i	j	k	m	n	r	t	u
125kg	ER2M001HD-SD	375	450					27								
250kg	ER2M003SD-SD															
500kg	ER2M005LD-SD	395	510	315	268	515	179		95	22	130	205	109	51	31	83
	ER2M005SD-SD															
1	ER2M010LD-SD	435	550					31								
	ER2M010SD-SD															
1.5	ER2M015SD-SD	505						34	110	27	125	212	118	60	36	77
2	ER2M020LD-SD	570	630	325	273	520	184									
	ER2M020SD-SD	585						39								
2.5	ER2M025SD-SD	620	830	340	274	521	186		125	29	131	215	132	68	43	70
3	ER2M030SD-SD	765	900					44								
5	ER2M050SD-SD	840	910	400	281	528	192	47	140	44	145	233	150	86	54	56

# ER2SG Dual speed 500V pole change

With geared trolley



- 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.
- Steel chain containers are available as option as shown in section of "Chain containers" if your lift is more than capacity of the standard container volume.

## Specifications

Capacity (t)	Product code	ER2							TSG					Test load (t)	Net weight (kg)	Additional weight per 1m lift (kg)		
		Hoist body	Standard lift (m)	Lifting motor		Lifting speed (m/min)	Load chain		Classification ISO/FEM /ASME	Folded hand chain Length E (m)	Flange width B (mm)						Min. radius curve (mm)	
				Output (kW)	Rating (%ED)		Diameter (mm)	Chain falls			Standard	Option						
						50Hz						W20 (203mm)	W30 (305mm)					
125kg	ER2SG001HD	B		0.5/0.13		14.2/3.5	ø4.3 x 1							156kg	44	1.4		
250kg	ER2SG003SD					7.2/1.8		313kg										
500kg	ER2SG005LD	C		0.9/0.23		3.6/0.9	ø6.0 x 1		M5/2m /H4	58 to 127	128 to 203	204 to 305	1300	625kg	52	1.7		
	ER2SG005SD					7.1/1.8		56										
1	ER2SG010LD	D	3		40/20	3.5/0.9	ø7.7 x 1		2.8					1.25	68	2.3		
	ER2SG010SD					7.2/1.7		70										
1.5	ER2SG015SD	E		1.8/0.45		4.8/1.2								1.88	91			
2	ER2SG020LD					3.7/0.9	ø10.2 x 1							82 to 153			154 to 305	
	ER2SG020SD	6.9/1.6					115											
2.5	ER2SG025SD	F		3.5/0.88		5.5/1.3	ø11.2 x 1		M4/1Am /H4				1700	3.13	136	3.7		
3	ER2SG030SD	E				4.4/1.0	ø10.2 x 2									3.75	140	5.6
5	ER2SG050SD	F				2.8/0.6	ø11.2 x 2								3.3	100 to 178		179 to 305

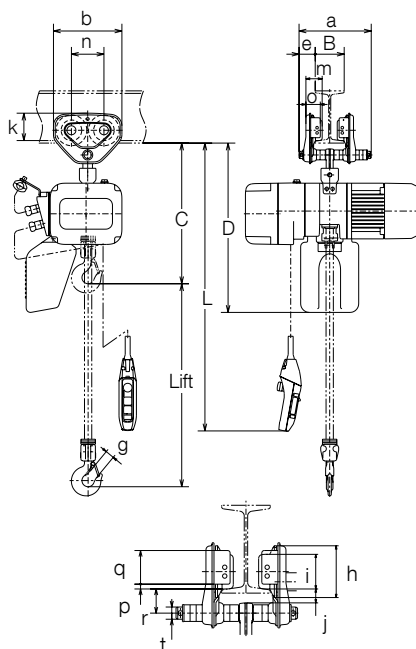
## Dimensions (mm)

Capacity (t)	Product code	Headroom C	D	a	b	e	g	h	i	j	k	k'	m	n	o	p	q	r	t	u
125kg	ER2SG001HD	415	490																	
250kg	ER2SG003SD						27													
500kg	ER2SG005LD	435	550	345	236	152		106	71	28	95	107	56	112	50		69	50	25	
	ER2SG005SD																			
1	ER2SG010LD	470	590				31													
	ER2SG010SD																			
1.5	ER2SG015SD	570					34									10				183
2	ER2SG020LD	635	690	385	280	154		127	85	34	112	109	71	131	63		83	62	32	
	ER2SG020SD	650					39													
2.5	ER2SG025SD	680	890																	
3	ER2SG030SD	780	910	398	324	157		148	100	36	134	115	80	152	74		102	68	36	
5	ER2SG050SD	840		401	400	156	47	169	118	46	144	131	81	178	70		104	88	54	



# ER2SP Dual speed 500V pole change

With plain trolley



- 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.
- Steel chain containers are available as option as shown in section of "Chain containers" if your lift is more than capacity of the standard container volume.
- The hoist direction to a beam for 3 t or 5 t is different 90 degrees.

## Specifications

Capacity (t)	Product code	ER2							TSP				Test load (t)	Net weight (kg)	Additional weight per 1m lift (kg)	
		Hoist body	Standard lift (m)	Lifting motor		Lifting speed (m/min)	Load chain		Classifi- cation ISO/FEM /ASME	Flange width B (mm)		Min. radius curve (mm)				
				Output (kW)	Rating (%ED)		Diameter (mm)	Chain falls		Standard	Option					
125kg	ER2SP001HD	B		0.5/0.13		14.2/3.5	ø4.3 x 1			50 to 102	103 to 203	204 to 305	1100	156kg	36	0.42
250kg	ER2SP003SD					7.2/1.8								313kg		
500kg	ER2SP005LD	C		0.9/0.23		3.6/0.9	ø6.0 x 1		M5/2m /H4					625kg	44	0.81
	ER2SP005SD					7.1/1.8								48		
1	ER2SP010LD	D	3		40/20	3.5/0.9	ø7.7 x 1			58 to 127	128 to 203		1300	1.25	64	1.33
	ER2SP010SD					7.2/1.7								66		
1.5	ER2SP015SD			1.8/0.45		4.8/1.2	ø10.2 x 1			82 to 153	154 to 305	1500	2.5	1.88	87	2.3
2	ER2SP020LD	E				3.7/0.9								89		
	ER2SP020SD					6.9/1.6								111		
2.5	ER2SP025SD	F		3.5/0.88		5.5/1.3	ø11.2 x 1		M4/1Am /H4				1700	3.13	132	2.8
3	ER2SP030SD	E				4.4/1.0	ø10.2 x 2						3.75	136	4.7	
5	ER2SP050SD	F				2.8/0.6	ø11.2 x 2			100 to 178	179 to 305	2300	6.25	184	5.6	

## Dimensions (mm)

Capacity (t)	Product code	Headroom C	D	a	b	e	g	h	i	j	k	m	n	o	p	q	r	t
125kg	ER2SP001HD	395	470															
250kg	ER2SP003SD			204	182	46	27	82	60	21	76	47.5	84	42		54	38	22
500kg	ER2SP005LD	415	530															
	ER2SP005SD																	
1	ER2SP010LD	470	590	249	236	56	31	106	71	28	95	56	112	50	10	69	50	25
	ER2SP010SD																	
1.5	ER2SP015SD	570					34											
2	ER2SP020LD	635	690	300	280	69	39	127	85	34	122	71	131	63		83	62	32
	ER2SP020SD	650																
2.5	ER2SP025SD	680	890															
3	ER2SP030SD	780	910	320	324	79	44	148	100	36	134	80	152	74		102	68	36
5	ER2SP050SD	840		297	400	53	47	169	118	46	144	81	178	70		104	88	54

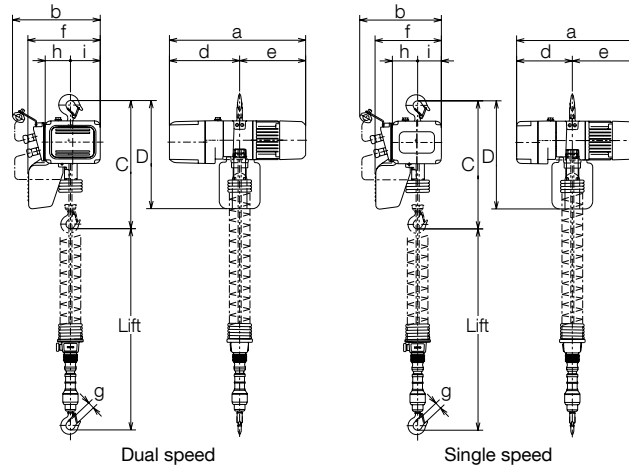
# CDER2 Cylindrical control dual/single speed

With hook suspension



Dual speed

Single speed



Dual speed

Single speed

- Standard length of power supply cable is five meters.
- Length of lift, push button cord and power supply cable is standard only available.
- Extending the load chain is prohibited with additional links.
- Plastic chain container is provided only.

## Specifications

Capacity (t)		Product code	Hoist body	Standard lift (m)	Lifting motor		Lifting speed (m/min)*		Load chain		Classification ISO/FEM/ASME	Test load (kg)	Net weight (kg)	Additional weight per 1m lift (kg)
					High	Low			Diameter (mm)	Chain falls				
Dual	125kg	ER2C001IH	B	1.8	0.56	40/20	Preset	16.6	2.8	ø4.3 x 1	M6/3m/H4 (M5/2m/H4)	156	28	0.42
	Adjustable	1.4												
	250kg	ER2C003IS					Preset	10.8	1.8			313		
							Adjustable		0.9					

Note: The high speed is preset to the maximum speed in Kito. The speeds are adjustable between high and low.  
Figures in ( ) are data for mechanical brake with friction clutch.

## 500V

Capacity (t)		Product code	Hoist body	Standard lift (m)	Lifting motor		Lifting speed (m/min)	Load chain		Classification ISO/FEM/ASME	Test load (kg)	Net weight (kg)	Additional weight per 1m lift (kg)
					Output (kW)	Rating (%ED)	50Hz	Diameter (mm)	x Chain falls				
Dual	125kg	ER2C001HD	B	1.8	0.5/0.13	40/20	14.2/3.5	ø4.3	x 1	M5/2m/H4	156	33	0.42
	250kg	ER2C003SD					7.2/1.8				313		

Capacity (t)		Product code	Hoist body	Standard lift (m)	Lifting motor		Lifting speed (m/min)		Load chain		Classification ISO/FEM/ASME	Test load (kg)	Net weight (kg)	Additional weight per 1m lift (kg)
					Output (kW)	Rating (%ED)	50Hz	60Hz	Diameter (mm)	Chain falls				
Single	125kg	ER2C001IH	B	1.8	0.56	60	14.1	16.9	ø4.3	x 1	M5/2m/H4	156	29	0.42
	250kg	ER2C003S					9.1	10.9				313		

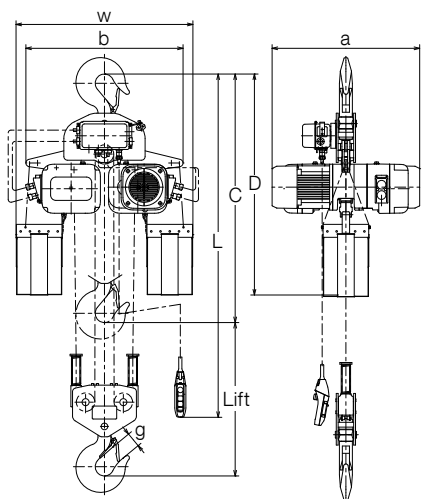
## Dimensions (mm)

Capacity (t)	Product code	Headroom C	D	a	b	d	e	f	g	h	i
125kg	ER2C001IH	1010	430	535(564)	345	276(305)	259	284	27	99	117
250kg	ER2C003IS										
125kg	ER2C001HD										
250kg	ER2C003SD										
125kg	ER2C001IH			478(564)	321(345)	219(305)		260(284)			93(117)
250kg	ER2C003S										

Note: Figures in ( ) are data for mechanical brake with friction clutch.

# ER2 Large capacity

With hook suspension



- 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.
- Steel chain containers are available as option as shown in section of "Chain containers" if your lift is more than capacity of the standard container volume.

## Specifications

Capacity (t)	Product code	Hoist body	Standard lift (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)	50Hz	60Hz	Diameter (mm)	Chain falls				
10	ER2-100S	F	3	3.5x2	60	2.9	3.5	ø11.2	x 4	M4/1Am/H4	12.5	303	11
15	ER2-150S					1.9	2.3	ø11.2	x 6		18.8	404	17
20	ER2-200S					1.4	1.7	ø11.2	x 8		25	476	22

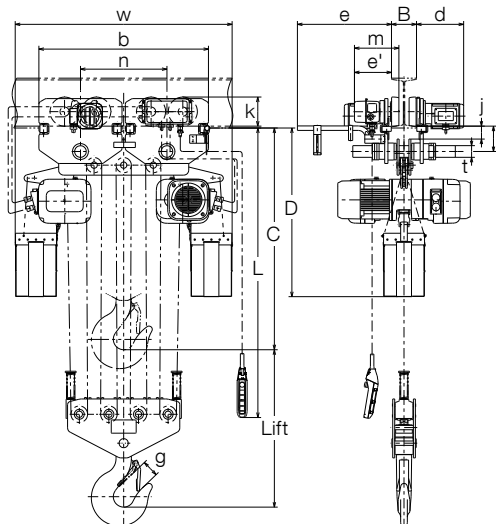
## Dimensions (mm)

Capacity (t)	Product code	Headroom C	D	a	b	w	g
10	ER2-100S	1370	1210	798 (853)	849	956	80
15	ER2-150S	1595	1520		1022	1129	86
20	ER2-200S	1710	1600		1198	1305	102

Note: Figures in ( ) are data for mechanical brake with friction clutch.

# ER2M Large capacity

With motorized trolley



- 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.
- Steel chain containers are available as option as shown in section of "Chain containers" if your lift is more than capacity of the standard container volume.

## Specifications

Capacity (t)	Product code	ER2								MR2								Test load (t)	Net weight (kg)	Additional weight per 1m lift (kg)
		Hoist body	Stand- ard lift (m)	Lifting motor		Lifting speed (m/min)		Load chain		Classifi- cation ISO/FEM /ASME	Traversing motor		Traversing speed (m/min)		Flange width B (mm)		Min. radius curve (mm)			
				Output (kW)	Rating (%ED)	50Hz	60Hz	Diameter (mm)	Chain x falls		Output (kW)	Rating (%ED)	50Hz	60Hz	Standard	Option W30 (305mm)				
7.5	ER2M075S-L	F	3	3.5	60	1.9	2.3	ø11.2 x 3	M4/1A <sub>m</sub> /H4	0.75	40	10	12	150 to 220	221 to 305	2500	9.4	283	8.4	
10	ER2M100L-L					1.4	1.7	ø11.2 x 4												
	ER2M100S-L			2.9		3.5	ø11.2 x 6													
15	ER2M150S-L			1.9		2.3	ø11.2 x 6	0.75x2		∞						18.8	571	17		
20	ER2M200S-L			1.4	1.7	ø11.2 x 8														

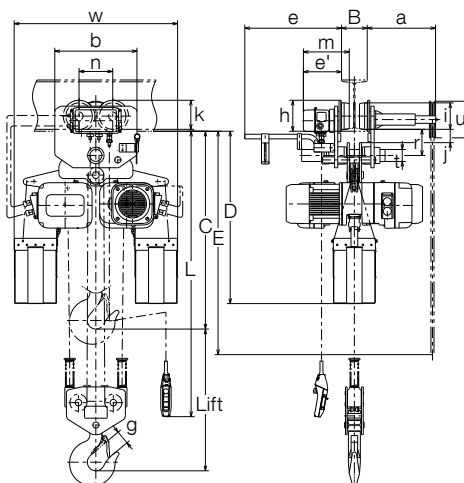
Note: Trolley wheels for tapered I-beam are provided as standard. The wheels for flat flange beam are also available so make a request in advance if necessary.  
The minimum radius curve for 7.5t and 10t may depend on flange width. For further information, contact the nearest Kito dealer.

## Dimensions (mm)

Capacity (t)	Product code	Headroom C	D	b	d	e	e'	g	j	k	m	n	r	t	w
7.5	ER2M075S-L	1165	1230	500	284	531	223	61	87	175	268	191	153	70	672
10	ER2M100L-L	1180	1210					80	77						728
	ER2M100S-L		1020					86	82						956
15	ER2M150S-L	1310	1230	1020				102	77			520			1129
20	ER2M200S-L	1345													1305

# ER2SG Large capacity

With geared trolley



- 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.
- Steel chain containers are available as option as shown in section of "Chain containers" if your lift is more than capacity of the standard container volume.

## Specifications

Capacity (t)	Product code	ER2								TSG				Test load (t)	Net weight (kg)	Additional weight per 1m lift (kg)	
		Hoist body	Stand- ard lift (m)	Lifting motor		Lifting speed (m/min)		Load chain		Classifi- cation ISO/FEM /ASME	Folded hand chain length E (m)	Flange width B (mm)					Min. radius curve (mm)
				Output (kW)	Rating (%ED)	Diameter (mm)	Chain falls	Standard	Option								
												50Hz	60Hz				
7.5	ER2SG075S	F	3	3.5	60	1.9	2.3	ø11.2 x 3	M4/1Am /H4	3.2	150 to 220	221 to 305	3000	9.4	275	9.3	
10	ER2SG100L					1.4	1.7	ø11.2 x 4									12.5
	ER2SG100S					2.9	3.5	ø11.2 x 6		3.7	150 to 220	221 to 305	∞	18.8	563	19	
15	ER2SG150S					3.5x2	1.9	2.3									ø11.2 x 6
20	ER2SG200S				1.4	1.7	ø11.2 x 8						25	621	24		

Note: Trolley wheels for tapered I-beam are provided as standard. The wheels for flat flange beam are also available so make a request in advance if necessary.

## Dimensions (mm)

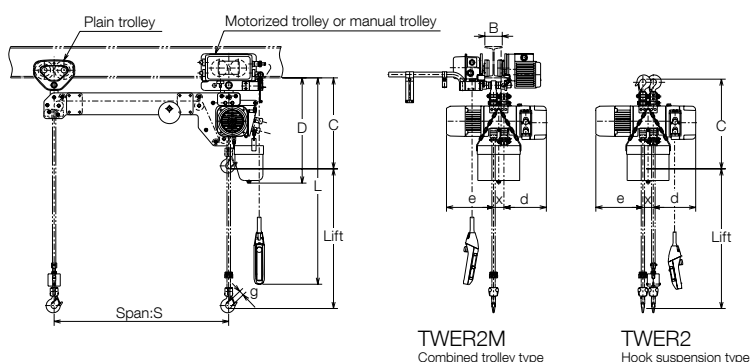
Capacity (t)	Product code	Headroom C	D	a	b	e	e'	g	h	i	j	k	m	n	r	t	u	w
7.5	ER2SG075S	1165	1230					61			87							662
10	ER2SG100L	1180	1210		480			80			77			196.5				718
	ER2SG100S		1020	411		531		80	185	155	77	171			153	70	214	956
15	ER2SG150S	1310					223	86			82		269					1129
20	ER2SG200S	1345	1230		1000			102			77			520				1305



# TWER2M Twin hook



Kito twin hook electric chain hoist, which is equipped with a single motor and two hooks, is intended to lift the hooks horizontally, equally and safely. This product is the most suitable for lifting applications requiring two lifting points for a wide load or retaining a level lifting. For special requirements such as dual speed or curve beam, consult with the nearest Kito dealer.



## Specifications

Capacity (t)	Product code	ER2							Trolley						Test load (t)
		Hoist body	Stand- ard lift (m)	Lifting motor		Lifting speed (m/min)		Load chain		Traversing motor		Traversing speed (m/min)		Flange width B (mm)	
				Output (kW)	Rating (%ED)	50Hz	60Hz	Diameter (mm)	Chain falls	Output (kW)	Rating (%ED)	50Hz	60Hz		
125kg + 125kg	TWER2M003S	C		0.56	60	9.2	11.0	ø6.0 x 2						58 to 153	156kg x 2
250kg + 250kg	TWER2M005L					3.8	4.6								313kg x 2
	TWER2M005S			7.3		8.8									
500kg + 500kg	TWER2M010L	D	3	0.9	3.5	4.2	ø7.7 x 2	0.4	40	20 (10)	24 (12)	625kg x 2			
	TWER2M010S				7.1	8.5									
1 + 1	TWER2M020L	E		1.8	3.7	4.4	ø10.2 x 2					82 to 178	1.25 x 2		
	TWER2M020S				7.0	8.4									
1.5 + 1.5	TWER2M030S			3.5		4.4	5.3	ø10.2 x 4					100 to 178	1.88 x 2	
2.5 + 2.5	TWER2M050S	F				2.9	3.5	ø11.2 x 4	0.75					3.13 x 2	

Note: The bracketed figures in "Traversing speed" are low speed. This product is designed for straight beams. Please specify a beam width when requesting a quotation or placing an order.  
The following information will be provided upon your request: 1) precise weight depending on length of the hook span 2) availability of curve beams 3) availability of a lift exceeding the maximum (8m)

## Dimensions (mm)

Capacity (t)	Product code	Headroom C		D	S	d	e	g	x
		With trolley	Hook						
125kg + 125kg	TWER2M003S	535	525	620	Min. 510	242	271	27	60
250kg + 250kg	TWER2M005L						268		
	TWER2M005S	615	620	710	Min. 530	291	298	31	71
500kg + 500kg	TWER2M010S						307		
1 + 1	TWER2M020L	800	830	790	Min. 650	308	345	39	81
	TWER2M020S					347	363		
1.5 + 1.5	TWER2M030S	970	995	920				44	
2.5 + 2.5	TWER2M050S	1020	1025	990				47	

Note: Maximum hook span (S) is 4m. Longer span is also available so contact the nearest Kito dealer.

# SHER2M Ultra low headroom



Kito ultra low headroom electric chain hoist is uniquely designed to have a shorter headroom than that of standard ER2 configurations. This product is the most suitable for installation which requires a low ceiling of buildings or maximizes effective lift. The trolleys are available as option. For special requirements such as rated capacity over 10t, dual speed or curve beam, consult with the nearest Kito dealer.

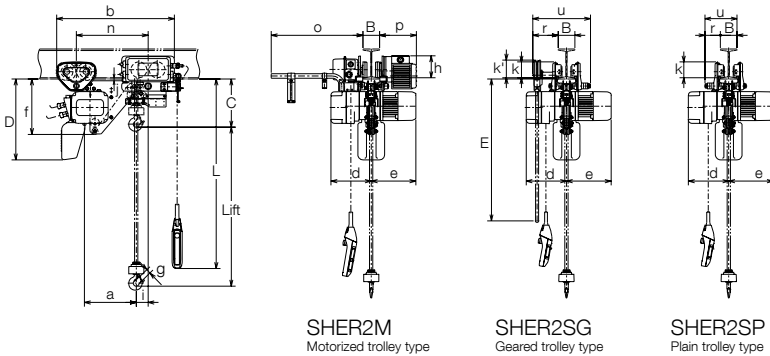
## Headroom comparison

Capacity (t)	Code	Headroom C (mm)		
		Ultra low headroom	Standard ER2M	Difference
250kg	003S	265	375	-110
500kg	005L	285	395	-110
	005S			
1	010L	345	435	-90
	010S			
1.5	015S	435	505	-70
2	020L	445	570	-125
	020S	475	585	-110
3	030S	610	765	-155
5	050S	670	840	-170

## Load factor & number of starts for replacement

Load chain periodical replacement is recommended for breakage prevention

Load factor	100%	75%	50%	25%
Number of starts	20,000	60,000	200,000	400,000



SHER2M  
Motorized trolley type

SHER2SG  
Geared trolley type

SHER2SP  
Plain trolley type

## Specifications

Capacity (t)	Product code	ER2							Trolley						Test load (t)	Net weight (kg)			
		Hoist body	Stand- ard lift (m)	Lifting motor		Lifting speed (m/min)		Load chain		Traversing motor		Traversing speed (m/min)		Flange width B (mm)		Motorized trolley	Geared trolley	Plain trolley	
				Output (kW)	Rating (%ED)	50Hz	60Hz	Diameter (mm)	Chain falls	Output (kW)	Rating (%ED)	50Hz	60Hz						
250kg	SHER2M003S	B	3	0.56	60	9.1	11.0	ø4.3 x 1	0.4	40	20 (10)	24 (12)	75 to 125	625kg	78	61	56		
500kg	SHER2M005L	C				0.9	3.8	4.6							ø6.0 x 1	84	67	62	
	SHER2M005S						7.3	8.8								90	73	68	
1	SHER2M010L	D		0.9		3.5	4.2	ø7.7 x 1					1.25	104	87	82			
	SHER2M010S					7.1	8.5							124	107	102			
1.5	SHER2M015S	E		1.8		60	4.5	5.8					ø10.2 x 1	1.88	158	139	134		
2	SHER2M020L						F	5.7							6.8	ø11.2 x 1	2.5	162	143
	SHER2M020S	212																193	188
3	SHER2M030S	E		3.5		3.5	4.2	ø10.2 x 2					3.75	241	222	217			
5	SHER2M050S	F					2.9	3.5	ø11.2 x 2	0.75			150 to 175	6.25	322	307	300		

Note: The bracketed figures in "Traversing speed" are low speed. This product is designed for straight beams. Please specify a beam width when requesting a quotation or placing an order. The following information will be provided upon your request: 1) availability of curve beams 2) availability of a flange width exceeding the maximum.

## Dimensions (mm)

Capacity (t)	Product code	Headroom C	D	E	a	b	d	e	f	g	h	i	j	k	k'	n	o	p	r	u
250kg	SHER2M003S	265	430		260	656(616)	219	259	325			68				380				
500kg	SHER2M005L	285	520		310	706(666)	242	271	370	27	130	70	18	95	107	430	515	220	152(56)	345(249)
	SHER2M005S							268												
1	SHER2M010L	345	540	3700	339	734(694)	291	298	405	31		77				458				
	SHER2M010S							307												
1.5	SHER2M015S	435	640		389	826(803)	308	338	487	34	125	79	29	112	109	523	520	225	154(69)	385(300)
2	SHER2M020L	445																		
	SHER2M020S	475																		
3	SHER2M030S	610	840		438	892(884)	347	356	487	44	131	45	24	134	115	560	521	226	157(79)	398(320)
5	SHER2M050S	670	850	4200	475	1057(1057)	337	399	542	47	145	66	31	144	131	657	528	281	156(53)	401(297)

Note: The bracketed figures in "b" are for geared or plain trolley. The bracketed figures in "r" and "u" are for plain trolley. The value 'D' is for a 4m lift. It will vary with different lifts.

# Options

## Mechanical brake with friction clutch

Kito's own device combining functions of friction clutch and mechanical brake for the capacities of 5t or less, which requires additional components. (Request at placing an order of the hoists)

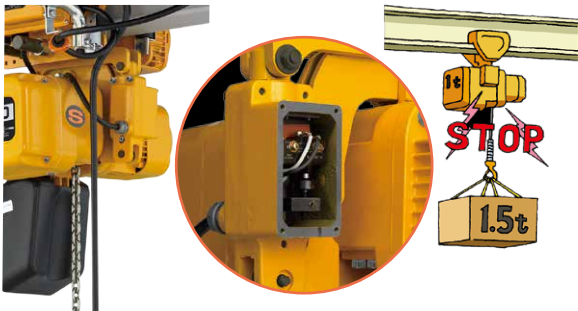


## Overload limiter

For additional security, overload limiter (OLL) is recommended as an option which is preset by 115% of rated capacity. OLL protects the hoist mechanism from damage under overload conditions. (a load can be lowered even after OLL sets off.)

Standard setting: 115%±8%\* of rated capacity

Adjustable setting: from 90%-135% of rated capacity



## Load bell

Kito load bell has accuracy of alerting you when your hoist is overloaded. This bell helps increase the safety and efficiency of your operations with economical cost.



### Extra headroom & weight with Kito load bell

Rated capacity (t)	Load chain diameter x chain fall (mm)	Extra headroom (mm)	Weight (kg)
500kg	6.0x1	170	3
1	7.7x1	185	4
1.5	10.2x1	230	5
2	10.2x1	110	5
2.5	11.2x1	120	8
3	10.2x2	115	10

Setting: 100-110 % of rated capacity

Power supply: DC 9V (9V dry battery)

Service life of battery: 700H in intermittent use (4hr per day)

Alerting buzzer volume: Min. 85dB

Enclosure: IP55

## Drop stops

Provides additional security of the motorized trolley for the operator and the equipment.

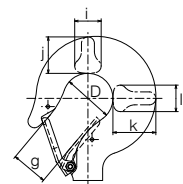
## Rubber bumpers

Provides protection of the motorized trolley from collisions.

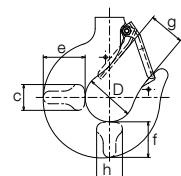
# Hook dimensions

Product code	Top hook (mm)						Bottom hook (mm)					
	D	g	i	j	k	l	D	g	h	f	e	c
ER2-001H/IH												
ER2-003S/IS												
ER2-003H/IH	35.5	27.0	17.5	23.5	28.0	17.5	35.5	27.0	17.5	23.5	28.0	17.5
ER2-005L/IL												
ER2-005S/IS												
ER2-010L/IL	42.5	31.0	22.5	31.0	36.5	22.5	42.5	31.0	22.5	31.0	36.5	22.5
ER2-010S/IS							47.5	34.0	26.5	36.5	43.5	26.5
ER2-015S/IS												
ER2-020L/IL	53.0	39.0	31.5	43.5	51.5	31.5						
ER2-020S/IS							53.0	39.0	31.5	43.5	51.5	31.5
ER2-025S/IS												
ER2-030S/IS	60.0	44.0	32.5	44.0	52.0	32.5	60.0	44.0	34.5	47.5	56.0	34.5
ER2-050S/IS	63.0	47.0	42.5	56.0	67.0	42.5	63.0	47.0	42.5	56.0	67.0	42.5

Top hook



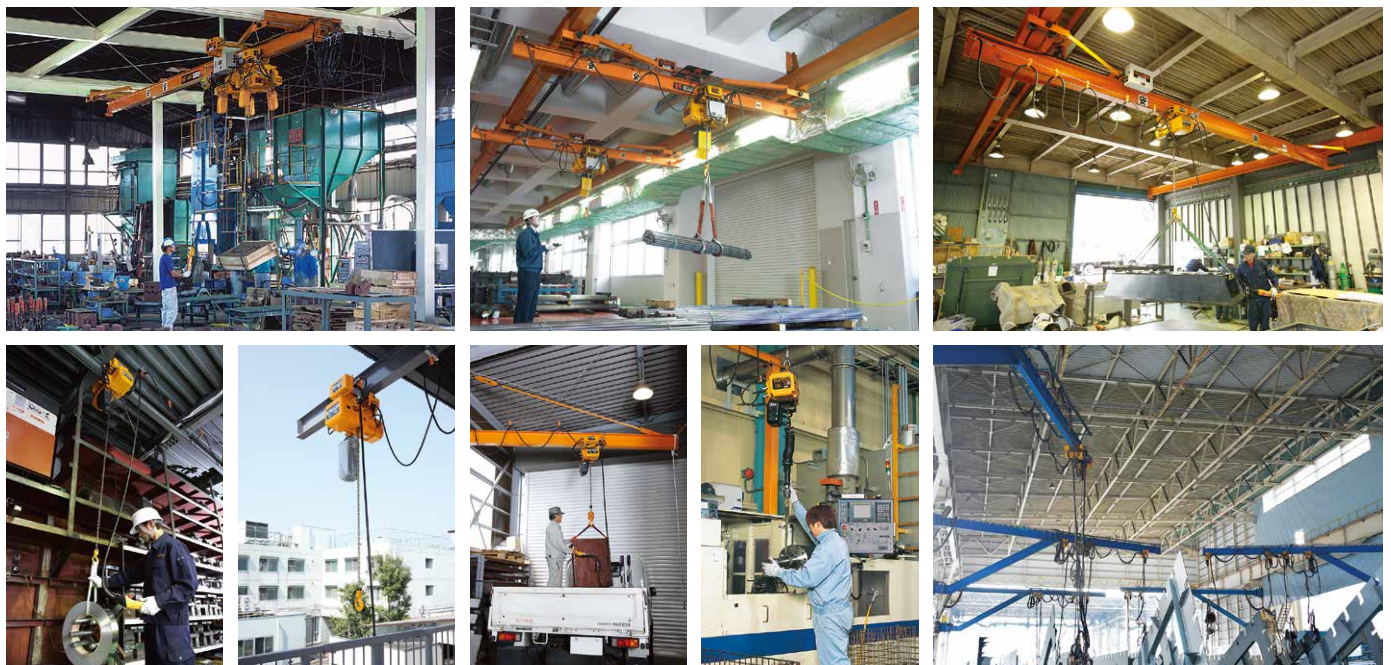
Bottom hook



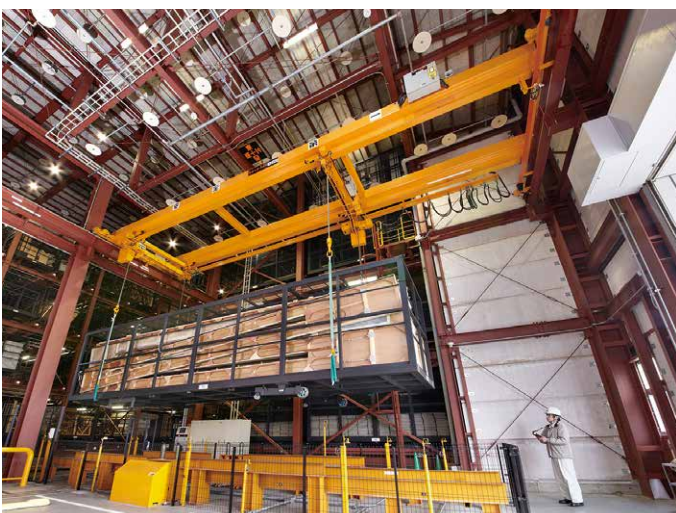
## Net weight list (with mechanical brake with friction clutch) standard 3m lift

Capacity & lifting speed code		Additional chain weight per 1m (kg)		With standard 3m lift (kg)			
		ER2,MR2,TSP	TSG	ER2	ER2M	ER2SG	ER2SP
125kg	001H	0.42	1.4	28	59	41	33
	001IH			29	61		34
	001HD			32	67		-
250kg	003S	0.42	1.4	28	59	41	33
	003IS			29	61		34
	003SD			32	67		-
	003H	0.81	1.7	38	69	51	43
	003IH				71		
500kg	005L	0.81	1.7	37	67	49	42
	005IL				69	-	-
	005LD			43	77		
	005S			38	69	51	43
	005IS				71		
	005SD			44	78	-	-
1t	010L	1.33	2.3	50	80	62	58
	010IL			49	81	61	57
	010LD			58	92	-	-
	010S			54	84	66	62
	010IS			53	85	65	61
	010SD			58	92	-	-
1.5t	015S	2.3	3.2	77	115	95	91
	015IS			78	118	96	92
	015SD			80	122	-	-
2t	020L	2.3	3.2	79	116	96	92
	020IL				119		
	020LD			82	123	-	-
	020S			90	128	108	104
	020IS			92	132	110	106
	020SD			96	138	-	-
2.5t	025S	2.8	3.7	103	151	131	127
	025IS			106	157	134	130
	025SD			107	159	-	-
3t	030S	4.7	5.6	107	155	133	129
	030IS			109	160	136	132
	030SD			112	163	-	-
5t	050S	5.6	6.5	130	200	186	180
	050IS			134	206	190	184
	050SD			133	207	-	-

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