

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.

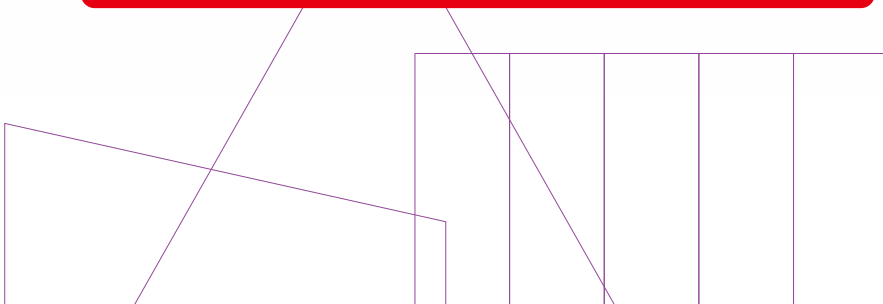
KITO electric chain hoists have sought the industry's top level of safety, durability and ease of maintenance, and to continue as highly trusted products selected around the world, the evolution of KITO electric chain hoists continues.

Dual Speed Inverter Hoists with capacities up to 500kg

Hoist Classification **M6 (ISO)**
3m (EFM)

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

ER2 with hoist inverter enables smoother starting and stopping.
The total duration of use is 3200 hours (Subjected regularly to the maximum load).
The increased duration provides better value and performance.



Compact Body

Light weight

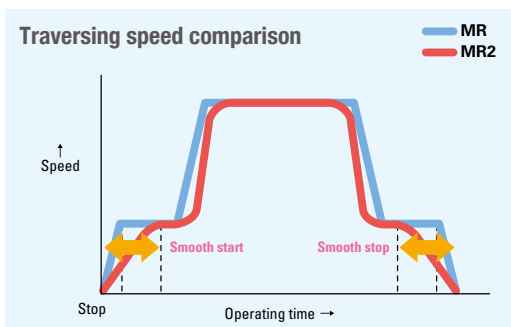
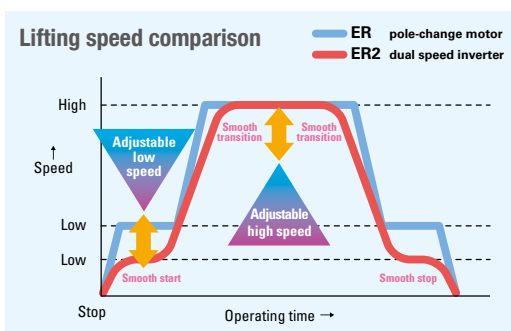
The compact aluminum die-cast body has exceptional rigidity as well as, high dust-protection and water-protection. It has a simple structure with a small number of parts. Fine-tuned profile of the load chain link benefits loss of the hoist body weight compared to the previous ER.



ER2 Outline

Rated capacity:	Single speed – 125 kg to 20 t
	Dual speed – 125 kg to 5 t
Voltage:	220-230 V 50 Hz
	380-415 V 50 Hz
Control voltage:	24 V
Duty rating:	Single speed – 60% ED (60 min.)
	Dual speed – 40/20% ED (30/10 min.)
Classification:	M4, M5, M6 (ISO); 1 Am, 2m, 3m (FEM); H4 (ASME)
Motor insulation:	Class B for 220-230-50
	Class F for 380-415-50
Enclosure:	Hoist body – IP55, Push button control - IP 65
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



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.

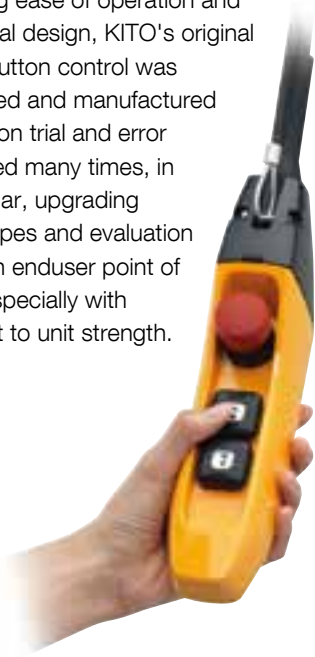
ER2/MR2 inverter unit is well-customized for lifting/traversing applications including exclusive software with optimum control and is also provided with measures against impact and heat which were verified through long run tests.

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

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

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.

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)

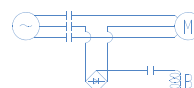


Thermal protector

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.

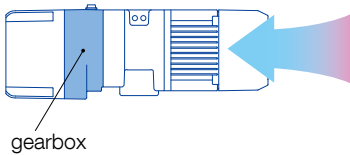


Enhanced Durability

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.

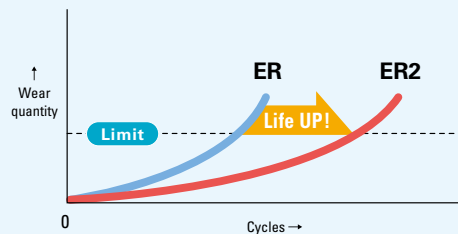


Load chain **super strength**

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

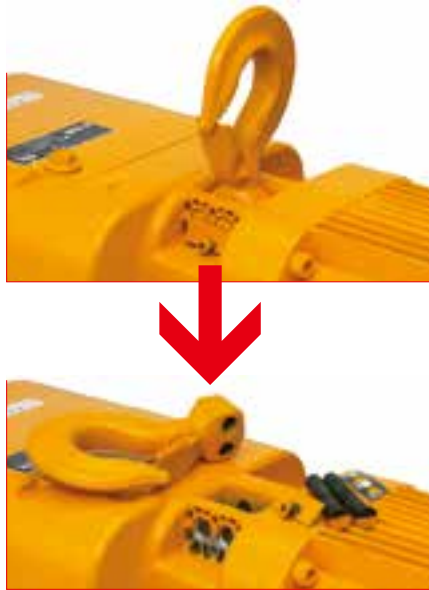


At KITO, testing is continuously being carried out regarding the load chain fatigue, wear, tensile strength, and environment. KITO takes pride in manufacturing load chains that have strength, durability and accuracy for utilization in the product. **ER2 chains are not compatible with that of the previous 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.

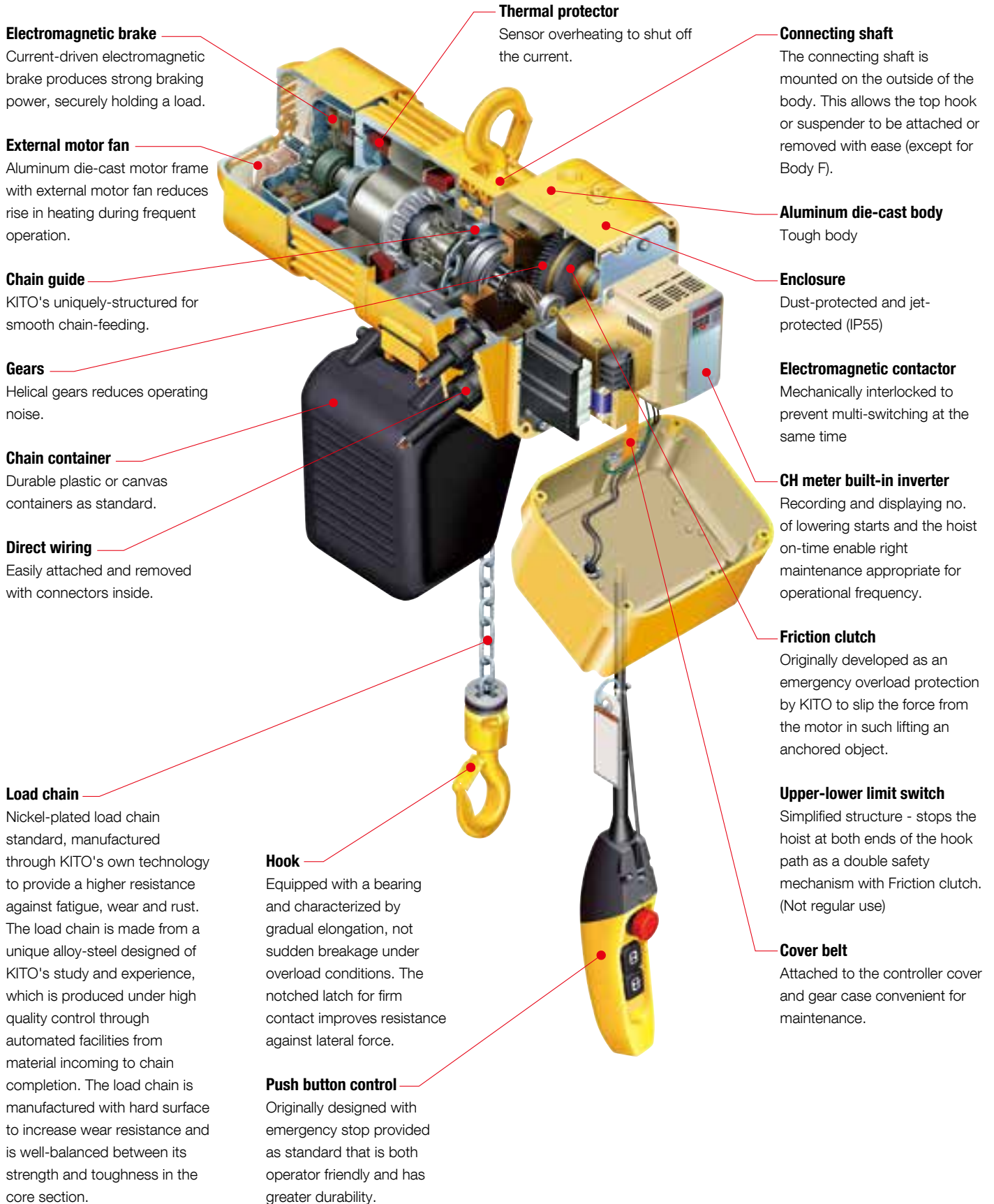
Energy saving

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



ER2 Electric Chain Hoist Lineup

Type	Lifting speed		Capacity (t)														
			125kg	250kg	500kg	1	1.6	2	2.5	3.2	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



125kg to 20t

Plain Trolley TSP



125kg to 3t



5t

Geared Trolley TSG



125kg to 3t



5t to 20t

Lifting & Traversing Speed

Lifting Speed

(m/min)

Capacity (t)	50 Hz					
	Single Speed			Dual Speed*		
	Low	Standard	High	Low	Standard	High
125kg			14.1			1.4 to 16.6
250kg		9.1	13.4		0.9 to 10.8	1.3 to 15.7
500kg	3.8	7.3		0.4 to 4.5	0.7 to 8.5	
1	3.5	7.1		0.3 to 4.2	0.7 to 8.2	
1.6		4.5			0.4 to 5.3	
2	3.7	7.0		0.4 to 4.3	0.7 to 8.2	
2.5		5.7			0.6 to 6.6	
3.2		4.4			0.4 to 5.2	
5		2.9			0.3 to 3.3	
7.5		1.9				
10	1.4	2.9				
15		1.9				
20		1.4				

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

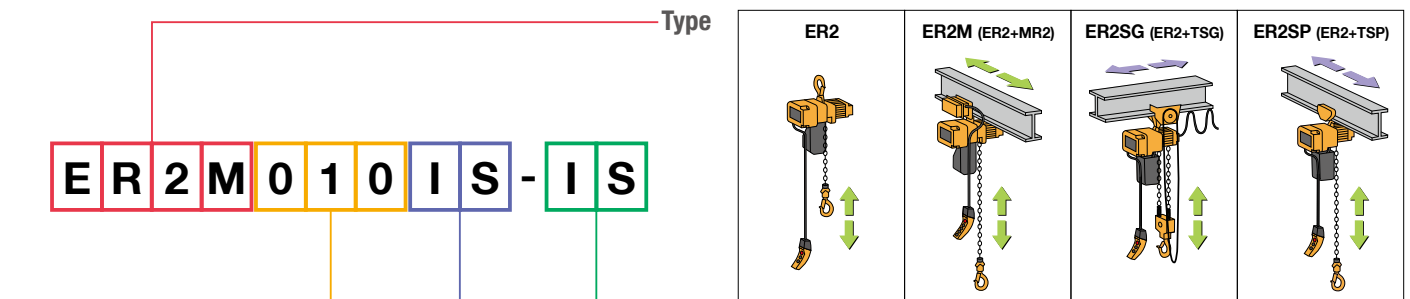
Traversing Speed

(m/min)

Capacity (t)	50 Hz		
	Single Speed		Dual Speed*
	Low	Standard	Standard
125kg to 5	10	20	2.4 to 24
7.5 to 20	10		

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

Product Code



Capacity

Code	Capacity
001	125 kg
003	250 kg
005	500 kg
010	1 t
016	1.6 t
020	2 t
025	2.5 t
032	3.2 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	dual, standard
IL	dual, low
IH	dual, high

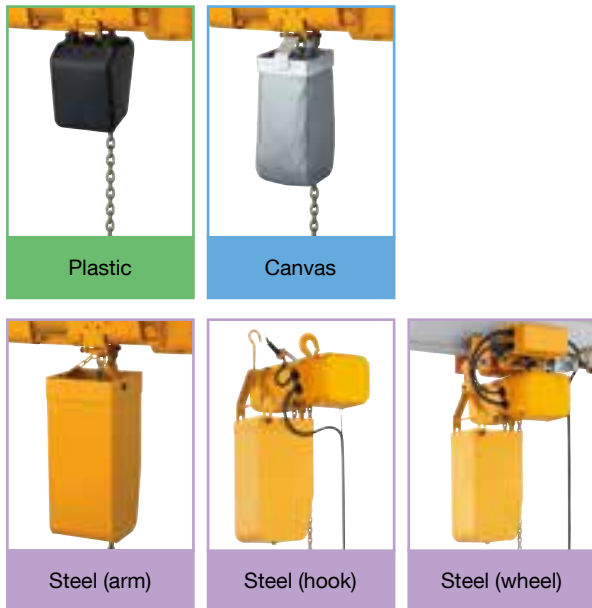
Traversing speed

Code	Traversing speed
S	single, standard
L	single, low
IS	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

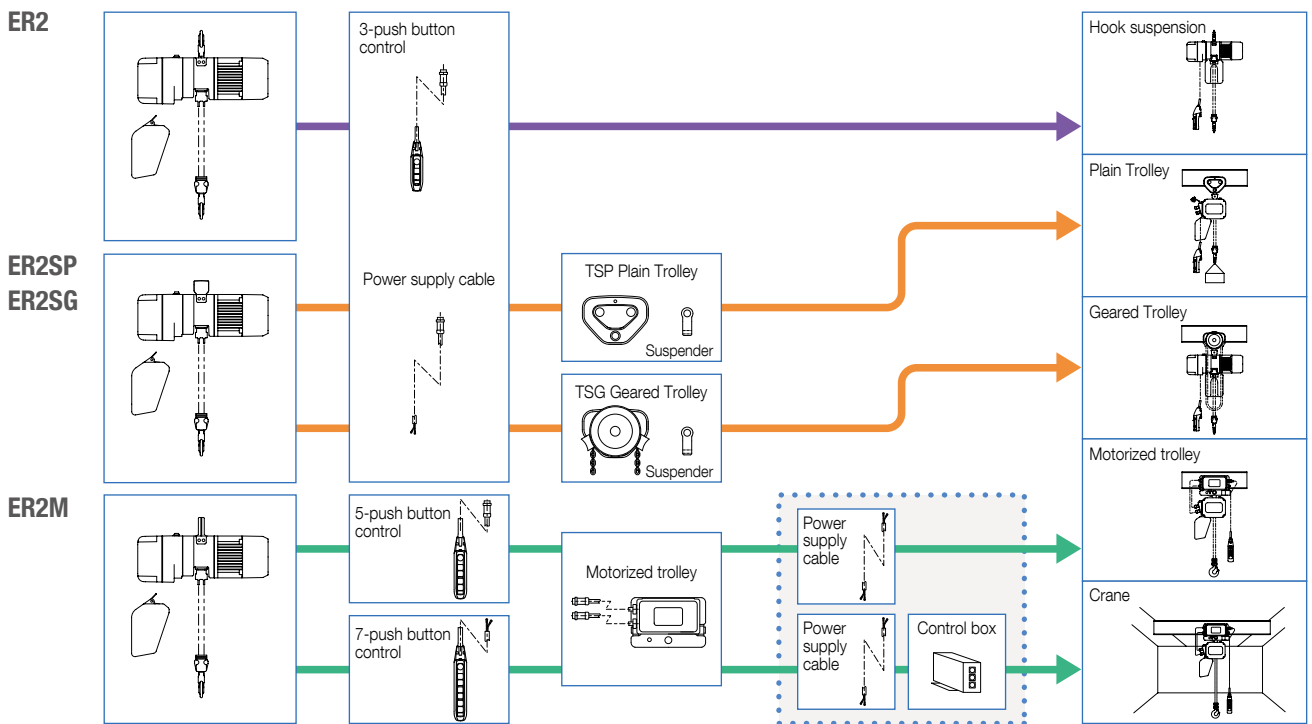
Type of containers



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								
ER2-016S/IS									
ER2-020L/IL	F								
ER2-020S/IS									
ER2-025S/IS	E								
ER2-032S/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

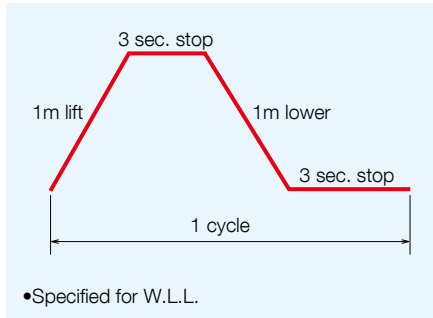


The following types of the hoist are configured differently from the above: Large capacities (7.5t or more), ER2SG/SP for crane, TWER2M and SHER2M

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.

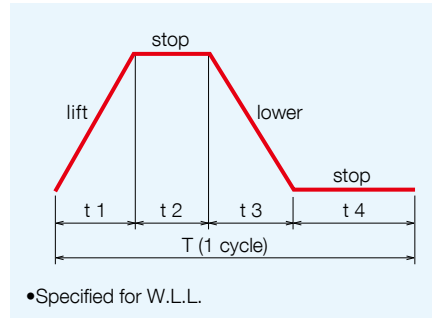


- Single Speed: 60min
- Dual Speed: 30/10min

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:

$$\%ED = \frac{\text{Motor ON time (} t_1+t_3 \text{)}}{1 \text{ cycle (} T \text{)}} \times 100$$

$$T = 1 \text{ cycle (} t_1+t_2+t_3+t_4 \text{)}$$

(Within 10 minutes)

%ED and max. number of starts per hour

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

FEM Relation between ISO-and FEM-Denominations

1 D _m	1 C _m	1 B _m	1 A _m	2 m	3 m	4 m	5 m	Class of operation time		Class of operating 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	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
Load spectrum		Cubic mean value		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 _m	1 C _m	1 B _m	1 A _m	2 m	3 m	4 m			V0.06	T0	≤0.12	200									
2 L2	0.50<K≤0.63	–	1 D _m	1 C _m	1 B _m	1 A _m	2 m	3 m	4 m	5 m			V0.12	T1	≤0.25	400									
3 L3	0.63<K≤0.80	1 D _m	1 C _m	1 B _m	1 A _m	2 m	3 m	4 m	5 m	–			V0.25	T2	≤0.5	800									
4 L4	0.80<K≤1.00	1 C _m	1 B _m	1 A _m	2 m	3 m	4 m	5 m	–	–			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 Design of Serial Lifting Equipment: Classification of Mechanisms)

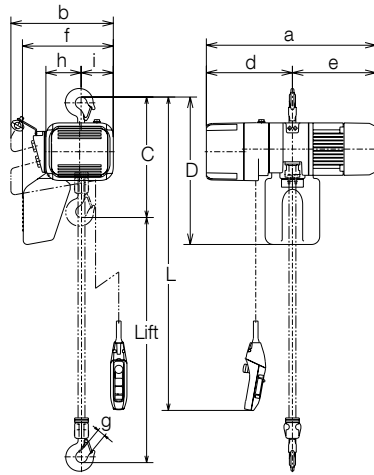
ASME HST

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)

ER2 Dual 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)	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)	High	Low	Diameter (mm)	Chain Falls				
125kg	ER2-001IH	B			0.56		Preset	16.6	2.8	4.3	x 1	156kg	27	0.42
	Adjustable						10.8	1.4						
250kg	ER2-003IS				0.9		Preset	10.8	1.8	6	x 1	313kg	36	
	Adjustable						15.7	0.9						
500kg	ER2-005IL	C			0.56		Preset	4.5	0.8	7.7	x 1	625kg	32	0.81
	Adjustable						8.5	0.4						
1	ER2-010IS	D	3	2.5	0.9	40/20	Preset	8.5	1.4	10.2	x 1	1.25	45	1.33
	Adjustable						4.2	0.7						
1.6	ER2-016IS	E			1.8		Preset	8.2	0.7	11.2	x 1	2	72	
	Adjustable						5.3	0.4						
2	ER2-020IS	F			3.5		Preset	4.3	0.7	10.2	x 2	2.5	73	2.3
	Adjustable						8.2	0.4						
2.5	ER2-025IS				3.5		Preset	8.2	1.4	11.2	x 1	3.13	100	2.8
	Adjustable						6.6	0.6						
3.2	ER2-032IS	E			3.5		Preset	6.6	1.1	10.2	x 2	4	105	4.7
	Adjustable						5.2	0.9						
5	ER2-050IS	F			2.8		Preset	3.3	0.4	11.2	x 2	6.25	128	5.6
	Adjustable						3.3	0.3						

Note: The high speed is preset to the maximum speed in KITO factory. The speeds are adjustable between High and Low.

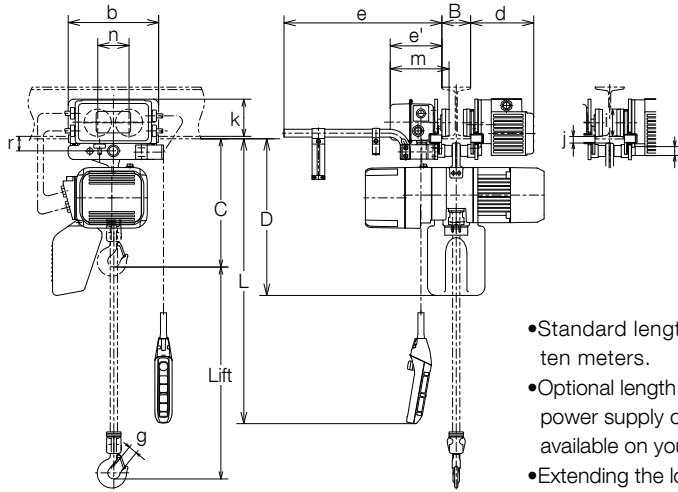
Dimensions (mm)

Capacity (t)	Product Code	Headroom C	D	a (MFC)	b	d (MFC)	e (MFC)	f	g	h	i
125kg	ER2-001IH	350	430	535(564)	345	276(305)	259	284	27	99	117
	ER2-003IS										
250kg	ER2-003IH	370	490	568(593)	348	300(325)	268	283	27	113	106
	ER2-005IS										
500kg	ER2-010IL	430	550	614(632)	376	316(332)	298(300)	335	31	129	118
	ER2-010IS										
1.6	ER2-016IS	510	630	710(737)	427	372(397)	338(340)	384.5	34	160.5	137.5
	ER2-020IS										
2	ER2-020IS	575	630	767(782)	445	401(427)	399	437.5	39	173.5	142.5
	ER2-025IS										
2.5	ER2-025IS	625	840	800(826)	427	411(426)	356	397	44	216	82
	ER2-032IS										
3.2	ER2-032IS	785	920	767(782)	445	401(427)	399	439	47	231.5	84.5
	ER2-050IS										

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

ER2M Dual 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.

Specifications

Capacity (t)	Product Code	ER2										MR2				Test Load (t)	Net Weight (kg)	Additional Weight per 1m Lift (kg)		
		Hoist Body	Standard Lift (m)	Push Button Cord L (m)	Lifting Motor		Lifting Speed (m/min)*		Load Chain		Classification ISO/FEM /ASME	Traversing Motor		Traversing Speed (m/min)					Min. Radius Curve (mm)	
					Output (kW)	Rating (%ED)	50Hz		Diameter (mm)	Chain Falls		Output (kW)	Rating (%ED)	50Hz	Flange Width B (mm)					
							High	Low							Standard					Option W30 (305mm)
125kg	ER2M001IH-S/L	B			0.56	40/20	Preset	16.6	2.8	4.3 x 1	M6/3m /H4						156kg	58	0.42	
250kg	ER2M003IS-S/L						Adjustable	10.8	1.4											6 x 1
	ER2M003IH-S/L	Adjustable	15.7	0.9	7.7 x 1	M4/1Am /H4	0.75		100 to 204	1800	6.25	198	5.6							
500kg	ER2M005IL-S/L	C												0.56	40/20	Preset	4.5	0.8	6 x 1	M6/3m /H4
	ER2M005IS-S/L				Adjustable	8.5	0.4	7.7 x 1	M5/2m /H4	0.4	40	20 (10)	82 to 204			205 to 305	1000	3.13		
1	ER2M010IL-S/L	D	3	2.5	0.9	40/20	Preset							4.2	0.7				7.7 x 1	M5/2m /H4
	ER2M010IS-S/L						Adjustable	8.2	0.3	10.2 x 1					82 to 204	205 to 305	1000	2.5		
1.6	ER2M016IS-S/L	E			1.8	40/20	Preset	5.3	0.9										10.2 x 1	
	ER2M020IL-S/L						Adjustable	4.3	0.4	11.2 x 1					82 to 204	205 to 305	1000	3.13		
2	ER2M020IS-S/L	F			3.5	40/20	Preset	8.2	0.7										11.2 x 1	
	ER2M025IS-S/L						Adjustable	6.6	0.6	10.2 x 2					100 to 204	1800	6.25	198		
2.5	ER2M032IS-S/L	E			2.8	40/20	Preset	5.2	0.9										11.2 x 2	
	ER2M050IS-S/L						Adjustable	3.3	0.3	11.2 x 2					100 to 204	1800	6.25	198		

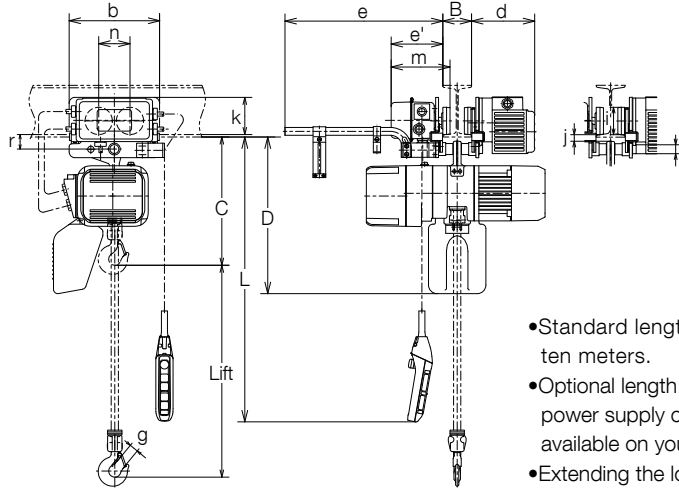
Note: The bracketed figures in Traversing Speed are low speed. In case of 415V50Hz power supply, the traversing motor rating is 30%ED. The minimum radius curve may depend on flange width. For further information, contact the nearest KITO dealer. The high speed is preset to the maximum speed in KITO factory. The speeds are adjustable between High and Low.

Dimensions (mm)

Capacity (t)	Product Code	Headroom C	D	b	d	e	e'	g	i	j	k	m	n	r	t
125kg	ER2M001IH-S/L	375	450												
250kg	ER2M003IS-S/L														
	ER2M003IH-S/L	435	550												
500kg	ER2M005IL-S/L														
	ER2M005IS-S/L	570	630	325	225	520	184								
1	ER2M010IL-S/L														
	ER2M010IS-S/L	620	830	340	226	521	186								
1.6	ER2M016IS-S/L														
	2	ER2M020IL-S/L	840	910	400	281	528	192							
ER2M020IS-S/L		840													
2.5	ER2M025IS-S/L		840	910	400	281	528	192							
	ER2M032IS-S/L	840													
3.2	ER2M050IS-S/L		840	910	400	281	528	192							
	ER2M050IS-S/L	840													

ER2M Dual Lifting - Dual 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.

Specifications

Capacity (t)	Product Code	ER2										MR2				Test Load (t)	Net Weight (kg)	Additional Weight per 1m Lift (kg)						
		Hoist Body	Standard Lift (m)	Push Button Cord L (m)	Lifting Motor		Lifting Speed (m/min)*		Load Chain	Classification ISO/FEM /ASME	Traversing Motor		Traversing Speed* (m/min)		Flange Width B (mm)				Min. Radius Curve (mm)					
					Output (kW)	Rating (%ED)	50Hz High	50Hz Low			Output (kW)	Rating (%ED)	50Hz High	50Hz Low	Standard					Option W30 (305mm)				
125kg	ER2M001IH-IS	B			0.56	40/20	Preset	16.6	2.8	4.3 x 1	M6/3m /H4							156kg	59	0.42				
250kg	ER2M003IS-IS						Preset	10.8	1.8												6 x 1	M5/2m /H4	0.4	27/13
	ER2M003IH-IS	Adjustable	15.7	2.6	M4/1Am /H4			Adjustable	24	2.4					625kg	65	0.81							
500kg	ER2M005IL-IS	C																0.56	40/20	Preset	4.5	0.8	7.7 x 1	M5/2m /H4
	ER2M005IS-IS				Adjustable	8.5	1.4	M4/1Am /H4			Adjustable	24	2.4								800	69		
1	ER2M010IL-IS	D	3	2.5	0.9	40/20	Preset											4.2	0.7				10.2 x 1	
	ER2M010IS-IS						Adjustable	8.2	1.4	M4/1Am /H4			Adjustable	24	2.4									
1.6	ER2M016IS-IS	E			1.8	40/20	Preset	5.3	0.9														11.2 x 1	M4/1Am /H4
	ER2M020IL-IS						Adjustable	4.3	0.7	M4/1Am /H4			Adjustable	24	2.4									
2	ER2M020IS-IS	Preset	8.2	1.4	10.2 x 1																			
2.5	ER2M025IS-IS	F								3.5	40/20	Adjustable	8.2	0.7	11.2 x 1	M4/1Am /H4								
	ER2M032IS-IS				Preset	6.6	1.1	10.2 x 2					Adjustable	24									2.4	
3.2	ER2M032IS-IS	E			2.8	40/20	Adjustable			5.2	0.9				10.2 x 2									
	ER2M050IS-IS						Preset	3.3	0.6	11.2 x 2			Adjustable	24									2.4	
5	ER2M050IS-IS	F			2.8	40/20	Adjustable	3.3	0.3						11.2 x 2									

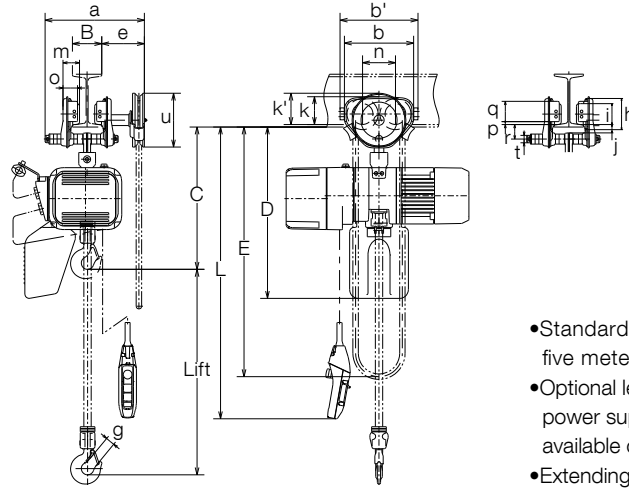
Note: The minimum radius curve may depend on flange width. For further information, contact the nearest KITO dealer.
The high speed is preset to the maximum speed in KITO factory. The speeds are adjustable between High and Low.

Dimensions (mm)

Capacity (t)	Product Code	Headroom C	D	b	d	e	e'	g	i	j	k	m	n	r	t	
125kg	ER2M001IH-IS	375	450													
250kg	ER2M003IS-IS															
	ER2M003IH-IS	395	510	315	220	515	179	27			130	205	109	51	31	
500kg	ER2M005IL-IS															
	ER2M005IS-IS	435	550					31								
1	ER2M010IL-IS															
	ER2M010IS-IS	505						34								
1.6	ER2M016IS-IS															
	2	ER2M020IL-IS	570	630	325	225	520	184	39		110	27	125	212	118	60
ER2M020IS-IS		585														
2.5	ER2M025IS-IS	620	830	340	226	521	186	44		125	29	131	215	132	68	43
3.2	ER2M032IS-IS	765	900													
5	ER2M050IS-IS	840	910	400	281	528	192	47		140	44	145	233	150	86	54

ER2SG Dual 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	ER2								TSG				Test Load (t)	Net Weight (kg)	Additional Weight per 1m Lift (kg)				
		Hoist Body	Standard Lift (m)	Push Button Cord L (m)	Lifting Motor		Lifting Speed (m/min)*		Load Chain	Classi- fication ISO/FEM /ASME	Flange Width B (mm)		Min. Radius Curve (mm)							
					Output (kW)	Rating (%ED)	50Hz				Diameter (mm) x Chain Falls	Standard					Option W30 (305mm)			
							High	Low												
125kg	ER2SG001IH	B			0.56		Preset	16.6	2.8	4.3 x 1	M6/3m /H4									
Adjustable							1.4													
250kg	ER2SG003IS						Preset	10.8	1.8											
	Adjustable							0.9												
500kg	ER2SG003IH	C			0.9		Preset	15.7	2.6											
	Adjustable							1.3												
500kg	ER2SG005IL	D	3	2.5	0.56	40/20	Preset	4.5	0.8	6 x 1		2.8	58 to 163	164 to 305	1300					
	Adjustable							0.4												
1	ER2SG005IS				0.9		Preset	8.5	1.4											
	Adjustable							0.7												
1	ER2SG010IL	E			1.8		Preset	4.2	0.7	7.7 x 1	M5/2m /H4									
	Adjustable							0.3												
1.6	ER2SG010IS	F					Preset	8.2	1.4											
	Adjustable							0.7												
2	ER2SG016IS	E					Preset	5.3	0.9	10.2 x 1										
	Adjustable							0.4												
2	ER2SG020IL	F					Preset	4.3	0.7											
	Adjustable							0.4												
2.5	ER2SG020IS	E					Preset	8.2	1.4											
	Adjustable							0.7												
2.5	ER2SG025IS	F			3.5		Preset	6.6	1.1	11.2 x 1	M4/1Am /H4									
	Adjustable							0.6												
3.2	ER2SG032IS	E					Preset	5.2	0.9	10.2 x 2										
	Adjustable							0.4												
5	ER2SG050IS	F					Preset	3.3	0.6	11.2 x 2										
	Adjustable							0.3												

Note: The high speed is preset to the maximum speed in KITO factory. The speeds are adjustable between High and Low.

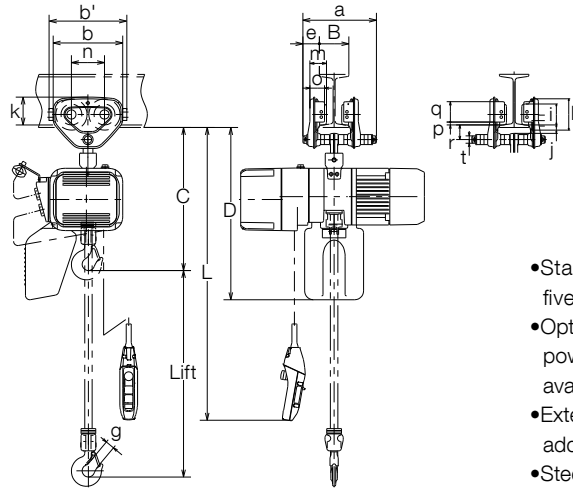
Dimensions (mm)

Capacity (t)	Product Code	Headroom C	D	a	b	b'	e	g	h	i	j	k	k'	m	n	o	p	q	r	t	u	
125kg	ER2SG001IH	415	490																			
250kg	ER2SG003IS																					
	ER2SG003IH	435	550	380 (520)	236	272	152		106	71	28	95	107	56	112	50			69	50	25	
500kg	ER2SG005IL																					
	ER2SG005IS	470	590																			
1	ER2SG010IS																					
1.6	ER2SG016IS	570						34														
2	ER2SG020IL	635	690	435 (535)	280	316	154		127	85	34	112	109	71	131	63				83	62	32
	ER2SG020IS	650																				
2.5	ER2SG025IS	680	890																			
3.2	ER2SG032IS	780	910	448 (548)	324	374	157		148	100	36	134	115	80	152	74				102	68	36
	5	ER2SG050IS																				

Note: Dimension "a" figures in () are for W30 wide beam.

ER2SP Dual 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	ER2										TSP		Test Load (t)	Net Weight (kg)	Additional Weight per 1m Lift (kg)	
		Hoist Body	Standard Lift (m)	Push Button Cord L (m)	Lifting Motor		Lifting Speed (m/min)*		Load Chain	Classification ISO/FEM /ASME	Flange Width B (mm)		Min. Radius Curve (mm)				
					Output (kW)	Rating (%ED)	50Hz				Diameter x Chain Falls (mm)	Standard					Option W30 (305mm)
							High	Low									
125kg	ER2SP001IH	B			0.56	40/20	Preset	16.6	2.8	4.3 x 1	M6/3m /H4	50 to 163	1100	156kg	32	0.42	
	Adjustable						1.4	1.8									
250kg	ER2SP003IS				0.9		Preset	10.8	0.9					313kg	41		
	Adjustable						2.6	1.3									
500kg	ER2SP003IH	C			0.56		Preset	15.7	0.8	6 x 1		164 to 305		625kg	37	0.81	
	Adjustable						4.5	0.4									
1	ER2SP005IL	D	3	2.5	0.9	40/20	Preset	8.5	1.4	7.7 x 1	M5/2m /H4	58 to 163	1300	1.25	53	1.33	
	Adjustable						0.7	0.3									
1.6	ER2SP010IL	D			1.8		Preset	4.2	0.7					2	85		
	Adjustable						8.2	1.4									
2	ER2SP010IS	E					Preset	5.3	0.9	10.2 x 1		82 to 204	1500	2.5	86	2.3	
	Adjustable						4.3	0.4									
2.5	ER2SP020IL	E					Preset	8.2	1.4			205 to 305		103			
	Adjustable						0.7	0.7									
3.2	ER2SP025IS	F			3.5		Preset	6.6	1.1	11.2 x 1	M4/1Am /H4		1700	3.13	124	2.8	
	Adjustable						0.6	0.4									
5	ER2SP032IS	E					Preset	5.2	0.9	10.2 x 2				4	128	4.7	
	Adjustable						0.4	0.3									
5	ER2SP050IS	F					Preset	3.3	0.6	11.2 x 2		100 to 204	2300	6.25	178	5.6	
	Adjustable						0.3	0.3									

Note: The high speed is preset to the maximum speed in KITO factory. The speeds are adjustable between High and Low.

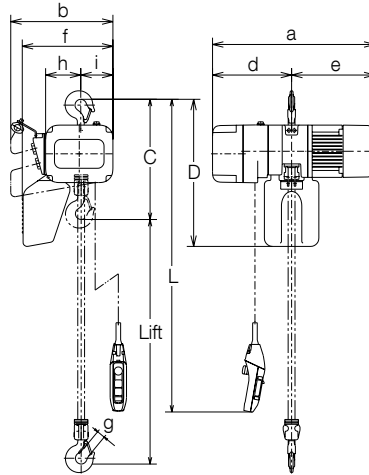
Dimensions (mm)

Capacity (t)	Product Code	Headroom C	D	a	b	b'	e	g	h	i	j	k	m	n	o	p	q	r	t
125kg	ER2SP001IH	395	470	264 (404)	182	212	46	27	82	60	21	76	47.5	84	42		54	38	22
250kg	ER2SP003IS																		
500kg	ER2SP003IH	415	530																
	ER2SP005IL																		
1	ER2SP005IS	470	590	284 (424)	236	272	56	31	106	71	28	95	56	112	50	10	69	50	25
	ER2SP010IL																		
1.6	ER2SP010IS	570						34											
	ER2SP020IL																		
2	ER2SP020IS	635	690	350 (450)	280	316	69	39	127	85	34	112	71	131	63		83	62	32
	ER2SP025IS																		
2.5	ER2SP032IS	680	890	370 (470)	324	374	79	44	148	100	36	134	80	152	74		102	68	36
	ER2SP050IS																		
3.2	ER2SP050IS	780	910	312 (412)	400	450	53	47	169	118	46	144	81	178	70		104	88	54
	ER2SP050IS																		

Note: Dimension "a" figures in () are for W30 wide beam.

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)	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)	50Hz	Diameter (mm) x Chain Falls						
125kg	ER2-001H	B			0.56		14.1	4.3 x 1			156kg	27	0.42	
250kg	ER2-003S						9.1							
		ER2-003H	13.4	6 x 1	M5/2m/H4	625kg	33	0.81						
500kg	ER2-005L	0.56	3.8											
	ER2-005S	0.9	7.3	7.7 x 1		37	0.81							
1	ER2-010L	D	3					2.5	0.9	60	3.5	1.25	47	1.33
	ER2-010S			7.1										
1.6	ER2-016S	E			1.8		4.5	10.2 x 1			2	72	2.3	
2	ER2-020L						3.7							
	ER2-020S	7.0	11.2 x 1	M4/1Am/H4		37	2.8							
2.5	ER2-025S	5.7												
3.2	ER2-032S	E			3.5		4.4	10.2 x 2		4	107	4.7		
5	ER2-050S	F		2.8			2.9	11.2 x 2		6.25	132	5.6		

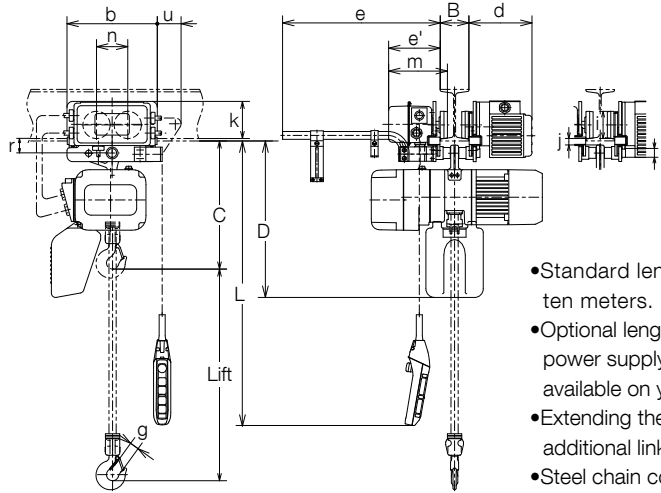
Dimensions (mm)

Capacity (t)	Product Code	Headroom C	D	a (MFC)	b (MFC)	d (MFC)	e (MFC)	f (MFC)	g	h	i (MFC)
125kg	ER2-001H	350	430	478(564)	321(345)	219(305)	259	260(284)	27	99	93(117)
250kg	ER2-003S			510(593)							
		ER2-003H	510(593)	348	242(325)	271(273)	283	27	113	106	
500kg	ER2-005L	510(593)									
	ER2-005S	510(593)	376	291(332)	298(300)	335	31	129	118		
1	ER2-010L	430								550	307
	ER2-010S	550	630	646(738)	427	308(397)	338(341)	384.5	34	160.5	137.5
1.6	ER2-016S	510									
2	ER2-020L	575	630	703(782)	427	347(426)	356	39	173.5	142.5	
	ER2-020S	590									
2.5	ER2-025S	625	840	736(826)	445	337(427)	399	437.5	44	216	82
3.2	ER2-032S	785	920	703(782)	427	347(426)	356	397	47	231.5	84.5
5	ER2-050S	850									

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	ER2										MR2			Test Load (t)	Net Weight (kg)	Additional Weight per 1m Lift (kg)		
		Hoist Body	Standard Lift (m)	Push Button Cord L (m)	Lifting Motor		Lifting Speed (m/min)	Load Chain		Classification ISO/FEM /ASME	Traversing Motor		Traversing Speed (m/min)					Flange Width B (mm)	Min. Radius Curve (mm)
					Output (kW)	Rating (%ED)		Diameter (mm)	Chain X Falls		Output (kW)	Rating (%ED)	50Hz	Option W30 (305mm)					
125kg	ER2M001H-S/L	B			0.56	14.1	4.3 x 1										156kg	58	0.42
250kg	ER2M003S-S/L				0.9	9.1													
500kg	ER2M003H-S/L	C			0.56	3.8	6 x 1		M5/2m /H4				58 to 163	164 to 305	800	625kg	64	0.81	
	ER2M005S-S/L				0.9	7.3													68
1	ER2M010L-S/L	D	3	2.5	60	3.5	7.1	7.7 x 1			0.4	40	20 (10)			1.25	77	1.33	
	ER2M010S-S/L					7.1	7.7 x 1	84											
1.6	ER2M016S-S/L	E			1.8	4.5										2	110		
2	ER2M020L-S/L				3.7	10.2 x 1											2.5		111
	ER2M020S-S/L	7.0	10.2 x 1			1000	129												
2.5	ER2M025S-S/L	F			3.5		5.7	11.2 x 1	M4/1Am /H4								3.13	152	2.8
3.2	ER2M032S-S/L	E				4.4	10.2 x 2			1800								4	
5	ER2M050S-S/L	F		2.8		2.9	11.2 x 2										6.25	202	5.6

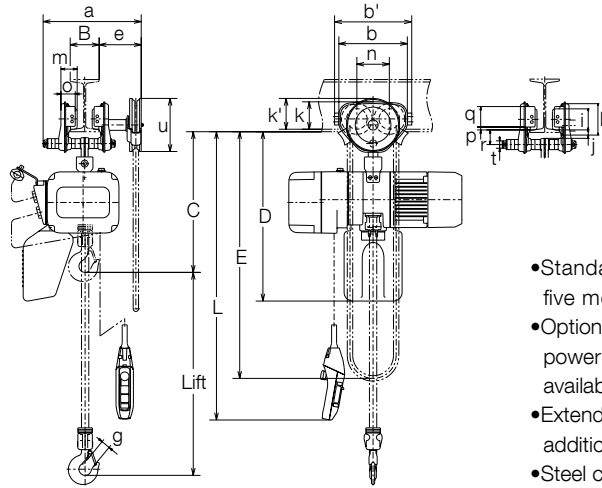
Note: The bracketed figures in Traversing Speed are low speed. In case of 415V50Hz power supply, the traversing motor rating is 30%ED. The minimum radius curve may depend on flange width. For further information, contact the nearest KITO dealer.

Dimensions (mm)

Capacity (t)	Product Code	Headroom C	D	b	d	e	e'	g	i	j	k	m	n	r	t
125kg	ER2M001H-S/L	375	450												
250kg	ER2M003S-S/L														
	ER2M003H-S/L	395	510	315	220	515	179	27	95	22	130	205	109	51	31
500kg	ER2M005S-S/L														
1	ER2M010L-S/L	435	550					31							
	ER2M010S-S/L														
1.6	ER2M016S-S/L	505	630	325	225	520	184	34	110	27	125	212	118	60	36
	ER2M020S-S/L														
2.5	ER2M025S-S/L	620	830	340	226	521	186		125	29	131	215	132	68	43
3.2	ER2M032S-S/L	765	900												
5	ER2M050S-S/L	840	910	400	281	528	192	47	140	44	145	233	150	86	54

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	ER2							TSG					Test Load (t)	Net Weight (kg)	Additional Weight per 1m Lift (kg)													
		Hoist Body	Standard Lift (m)	Push Button Cord L (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)					Standard	Option W30 (305mm)																	
125kg	ER2SG001H	B			0.56	14.1	4.3 x 1																	156kg	40	1.4			
250kg	ER2SG003S				0.9	9.1																		313kg			50		
250kg	ER2SG003H	C			0.56	3.8	6 x 1	M5/2m /H4		58 to 163	164 to 305	1300																	
500kg	ER2SG005L				0.9	7.3																						625kg	46
500kg	ER2SG005S	D	3	2.5	60	3.5	7.7 x 1		2.8																				
1	ER2SG010L					7.1																							1.25
1	ER2SG010S	E				1.8																							
1.6	ER2SG016S					7.0																							
1.6	ER2SG020L	E				3.7	10.2 x 1																						
2	ER2SG020S					7.0																							
2	ER2SG020S	F				7.0																							
2.5	ER2SG025S					3.5																							
2.5	ER2SG025S	E				5.7	11.2 x 1																						
3.2	ER2SG032S					4.4																							
3.2	ER2SG032S	F		2.8		4.4	10.2 x 2																						
5	ER2SG050S					2.9																							

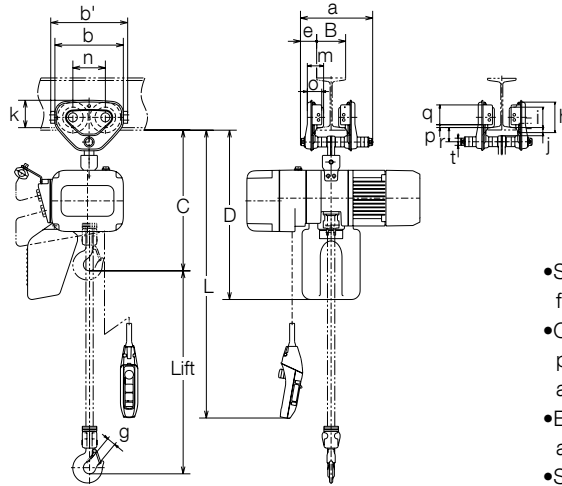
Dimensions (mm)

Capacity (t)	Product Code	Headroom C	D	a	b	b'	e	g	h	i	j	k	k'	m	n	o	p	q	r	t	u								
125kg	ER2SG001H	415	490																										
250kg	ER2SG003S																												
250kg	ER2SG003H	435	550	380 (520)	236	272	152		106	71	28	95	107	56	112	50		69	50	25									
500kg	ER2SG005L																												
500kg	ER2SG005S	470	590															10											
1	ER2SG010L																												
1	ER2SG010S	570																											
1.6	ER2SG016S																												
1.6	ER2SG020L	635	690	435 (535)	280	316	154		127	85	34	112	109	71	131	63		83	62	32									
1.6	ER2SG020S	650																											
2	ER2SG025S	680	890	448 (548)	324	374	157		148	100	36	134	115	80	152	74		102	68	36									
2	ER2SG025S	780																											
3.2	ER2SG032S																												44
3.2	ER2SG032S	840																											
5	ER2SG050S																												

Note: Dimension "a" figures in () are for W30 wide beam.

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	ER2								TSP			Test Load (t)	Net Weight (kg)	Additional Weight per 1m Lift (kg)
		Hoist Body	Standard Lift (m)	Push Button Cord L (m)	Lifting Motor		Lifting Speed (m/min)	Load Chain	Classification ISO/FEM/ASME	Flange Width B (mm)		Min. Radius Curve (mm)			
					Output (kW)	Rating (%ED)				Standard	Option W30 (305mm)				
125kg	ER2SP001H	B			0.56	14.1	4.3 x 1		50 to 163		1100	156kg	32	0.42	
250kg	ER2SP003S				0.9	9.1									
250kg	ER2SP003H	C			0.56	13.4	6 x 1	M5/2m/H4	164 to 305		1100	313kg	42		
500kg	ER2SP005L				0.9	7.3									
500kg	ER2SP005S	D	3	2.5	0.9	3.5	7.7 x 1		58 to 163		1300	1.25	55	0.81	
1	ER2SP010S				7.1	62									
1.6	ER2SP016S	E			1.8	4.5	10.2 x 1		82 to 204	205 to 305	1500	2	85	2.3	
2	ER2SP020L				3.7	86									
2	ER2SP020S	F			7.0	7.0	11.2 x 1	M4/1Am/H4			1700	2.5	105		
2.5	ER2SP025S				5.7	128									
3.2	ER2SP032S	E			3.5	4.4	10.2 x 2				3.13	4	130	4.7	
5	ER2SP050S	F		2.8		2.9	11.2 x 2		100 to 204	205 to 305	2300	6.25	182	5.6	

Dimensions (mm)

Capacity (t)	Product Code	Headroom C	D	a	b	b'	e	g	h	i	j	k	m	n	o	p	q	r	t
125kg	ER2SP001H	395	470																
250kg	ER2SP003S					264 (404)	182	212	46	27	82	60	21	76	47.5	84	42		54
250kg	ER2SP003H	415	530																
500kg	ER2SP005L																		
500kg	ER2SP005S	470	590																
1	ER2SP010L					284 (424)	236	272	56	31	106	71	28	95	56	112	50	10	69
1	ER2SP010S	570																	
1.6	ER2SP016S									34									
2	ER2SP020L	635	690	350 (450)	280	316	69		127	85	34	112	71	131	63		83	62	32
2	ER2SP020S	650						39											
2.5	ER2SP025S	680	890						148	100	36	134	80	152	74		102	68	36
3.2	ER2SP032S	780		370 (470)	324	374	79		44										
3.2	ER2SP032S	840	910																
5	ER2SP050S					312 (412)	400	450	53	47	169	118	46	144	81	178	70		104

Note: Dimension "a" figures in () are for W30 wide beam.

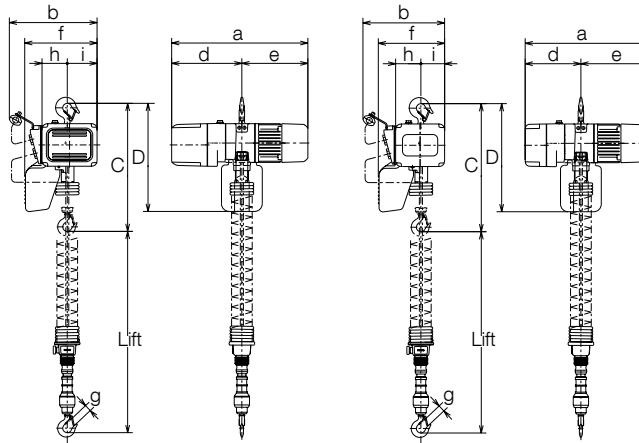
CDER2 Cylindrical Control Dual/Single Speed

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 Diameter (mm) x Chain Falls	Classification ISO/FEM/ASME	Test Load (kg)	Net Weight (kg)	Additional Weight per 1m Lift (kg)
				Output (kW)	Rating (%ED)	50Hz						
						High	Low					
Dual	125kg ER2C001IH	B	1.8	0.56	40/20	Preset	2.8	4.3 x 1	M6/3m/H4	156	28	0.42
						Adjustable	1.4					
	250kg ER2C003IS					Preset	1.8					
						Adjustable	0.9					

Note: The high speed is preset to the maximum speed in KITO factory. The speeds are adjustable between High and Low.

Capacity (t)	Product Code	Hoist Body	Standard Lift (m)	Lifting Motor		Lifting Speed (m/min)	Load Chain Diameter (mm) x Chain Falls	Classification ISO/FEM/ASME	Test Load (kg)	Net Weight (kg)	Additional Weight per 1m Lift (kg)
				Output (kW)	Rating (%ED)	50Hz					
Single	125kg ER2C001H	B	1.8	0.56	60	14.1	4.3 x 1	M5/2m/H4	156	29	0.42
	250kg ER2C003S					9.1			313		

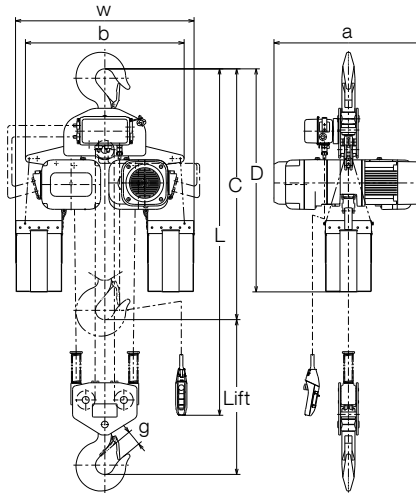
Dimensions (mm)

Capacity (t)	Product Code	Headroom C	D	a (MFC)	b (MFC)	d (MFC)	e	f (MFC)	g	h	i (MFC)
125kg	ER2C001IH	1010	430	535(564)	345	276(305)	259	284	27	99	117
250kg	ER2C003IS							260(284)			
125kg	ER2C001H			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

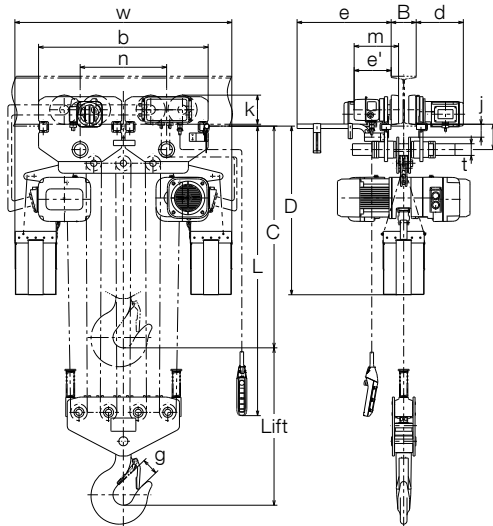
Capacity (t)	Product Code	Hoist Body	Standard Lift (m)	Push Button Cord L (m)	Lifting Motor		Lifting Speed (m/min)	Load Chain		Classification ISO/FEM/ASME	Test Load (t)	Net Weight (kg)	Additional Weight per 1m Lift (kg)
					Output (kW)	Rating (%ED)		Diameter (mm)	Chain Falls				
10	ER2-100S			3.4			50Hz	11.2	x 4		12.5	303	11
15	ER2-150S	F	3	3.7	3.5x2	60		11.2	x 6	M4/1Am/H4	18.8	404	17
20	ER2-200S							11.2	x 8		25	476	22

Dimensions (mm)

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

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	Standard Lift (m)	Push Button Cord L (m)	Lifting Motor		Lifting Speed (m/min)	Load Chain Diameter Chain (mm) x Falls	Classification ISO/FEM /ASME	Traversing Motor		Flange Width B (mm)					Min. Radius Curve (mm)
					Output (kW)	Rating (%ED)				Output (kW)	Rating (%ED)	Standard	Option W30 (305mm)				
7.5	ER2M075S-L				3.5	60	1.9	11.2 x 3						9.4	283	8.4	
10	ER2M100L-L	F	3	3.3	60	1.4	11.2 x 4	M4/1Am /H4	0.75	40	10	150 to 220	221 to 305	2500	12.5	378	
	2.9					399											
15	ER2M150S-L				3.5x2		1.9	11.2 x 6						18.8	571	17	
20	ER2M200S-L						1.4	11.2 x 8						∞	25	628	22

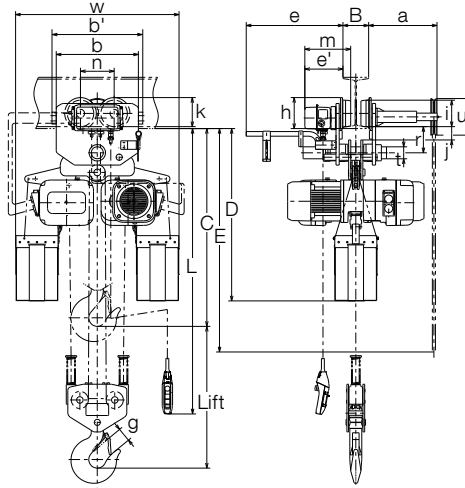
Note: In case of 415V/50Hz power supply, the traversing motor rating is 30%ED. Trolley wheels for tapered I-beam are provided as standard.
The wheels for flat flange beam are also available so make a request in advance if necessary. The minimum radius curve for 7.5t and 10t may depend on flange width.
For further information, contact the nearest KITO dealer.

Dimensions (mm)

Capacity (t)	Product Code	Headroom C	D	b	e	e'	g	j	k	m	n	r	t	w
7.5	ER2M075S-L	1165	1230				61	87						672
10	ER2M100L-L	1180	1210	500	531	223	80	77	175	268	191	153	70	728
	ER2M100S-L		1020											956
15	ER2M150S-L	1310					86	82				520		1129
20	ER2M200S-L	1345	1230	1020			102	77			520			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	Standard Lift (m)	Push Button Cord L (m)	Lifting Motor		Lifting Speed (m/min)	Load Chain Diameter (mm) x Chain Falls	Classification ISO/FEM /ASME	Flange Width B (mm)	Min. Radius Curve (mm)					
					Output (kW)	Rating (%ED)						Standard				Option W30 (305mm)
7.5	ER2SG075S	F	3	3.3	3.5	60	1.9	11.2 x 3	M4/1Am/H4	3.2	150 to 220	221 to 305	3000	9.4	275	9.3
10	ER2SG100L				3.5	1.4	11.2 x 4	12.5						370	12	
	ER2SG100S				60	2.9	11.2 x 4							395		
15	ER2SG150S				3.5x2		1.9	11.2 x 6		3.7			∞	18.8	563	19
20	ER2SG200S					1.4	11.2 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.

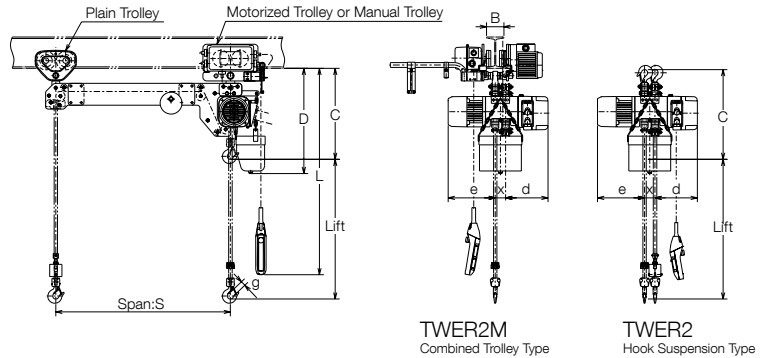
Dimensions (mm)

Capacity (t)	Product Code	Headroom C	D	a	b	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	372	480	542			80			77			196.5				718
	ER2SG100S		1020				531		80	185	155	77	171			153	70	214	956
15	ER2SG150S	1310	1230	1012	1000	1062		223	86			82		269	520				1129
20	ER2SG200S	1345	1230	1012	1000	1062			102			77							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	Standard Lift (m)	Push Button Cord L (m)	Lifting Motor		Lifting Speed (m/min) 50Hz	Load Chain Diameter x Chain Falls	Traversing Motor		Traversing Speed (m/min) 50Hz		Flange Width B (mm)
					Output (kW)	Rating (%ED)			Output (kW)	Rating (%ED)			
125kg + 125kg	TWER2M003S(IL)	C			0.56	60	9.2(10.8~1.8)	6 x 2	0.4	40	20or10 (24~4)	58 to 163	156kg x 2
250kg + 250kg	TWER2M005L(IL)												
500kg + 500kg	TWER2M010L(IL)	D	3	2.5	0.9	60	3.5(4.2~0.7)	7.7 x 2	0.4	40	20or10 (24~4)	82 to 204	625kg x 2
	TWER2M010S(IL)												
1 + 1	TWER2M020L(IL)	E			1.8	(40/20)	3.7(4.3~0.7)	10.2 x 2					1.25 x 2
	TWER2M020S(IL)												
1.6 + 1.6	TWER2M032S(IL)				3.5		4.4(5.2~0.9)	10.2 x 4					2 x 2
2.5 + 2.5	TWER2M050S(IL)	F		2.8			2.9(3.3~0.6)	11.2 x 4	0.75			100 to 204	3.13 x 2

Note: The bracketed figures in Speed and Rating are data for dual speed type. In case of 415V50Hz power supply, the traversing motor rating of single speed type is 30%ED.

This product is designed for straight beams. Specify a beam width at the time of quotation or 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(IL)	535	525	620	Min. 510	242(300)	271	27	60
250kg + 250kg	TWER2M005L(IL)						TWER2M005S(IL)		
500kg + 500kg	TWER2M010L(IL)	615	620	710	Min. 530	291(316)	298	31	71
	TWER2M010S(IL)						307		
1 + 1	TWER2M020L(IL)	800	830	790	Min. 650	308(372)	345	39	81
	TWER2M020S(IL)						356		
1.6 + 1.6	TWER2M032S(IL)	970	995	920			356	44	
2.5 + 2.5	TWER2M050S(IL)	1020	1025	990			399	47	85

Note: Maximum hook span (s) is 4m. Longer span is also available so contact the nearest KITO dealer. The bracketed figures in Size "d" are data for dual speed type.

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.

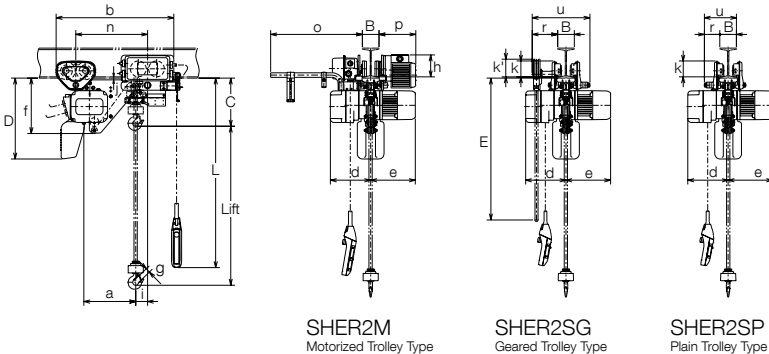
Headroom Comparison

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			
1.6	016S	435	505	-70
	020L	445	570	-135
2	020S	475	585	-110
	032S	610	765	-155
5	050S	670	900	-230

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



Specifications

Capacity (t)	Product Code	Hoist Body	Standard Lift (m)	Push Button Cord L (m)	ER2				Trolley				Test Load (t)	Net Weight (kg)			
					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)		Diameter (mm)	Chain Falls	Output (kW)	Rating (%ED)						
250kg	SHER2M003S(IS)	B			0.56		9.1(10.8~1.8)	4.3 x 1					313kg	78(80)	61(63)	56(58)	
500kg	SHER2M005L(IL)	C			0.9	60	3.8(4.5~0.8)	6 x 1				75 to 163	625kg	84(85)	67(68)	62(63)	
	7.3(8.5~1.4)						90(90)							73(73)	68(68)		
1	SHER2M010L(IL)	D	3	2.5	60	60	3.5(4.2~0.7)	7.7 x 1	0.4	40	20or10	100 to 163	1.25	104(105)	87(88)	82(83)	
	7.1(8.2~1.4)						124(125)							107(108)	102(103)		
1.6	SHER2M016S(IS)	E			1.8	(40/20)	4.5(5.3~0.9)	10.2 x 1				2	161(164)	142(145)	137(140)		
2	SHER2M020L(IL)	F					3.7(4.3~0.7)	11.2 x 1				125 to 204	2.5	162(165)	143(146)	138(141)	
	5.7(6.6~1.1)						212(215)							193(196)	188(191)		
3.2	SHER2M032S(IS)	E		2.8	3.5		3.5(4.1~0.7)	10.2 x 2				4	241(245)	222(226)	217(223)		
5	SHER2M050S(IS)	F					2.9(3.3~0.6)	11.2 x 2	0.75			150 to 204	6.25	322(325)	307(310)	300(303)	

Note: The bracketed figures in Speeds, Ratings, and Net Weights are data for dual speed type. In case of 415V50Hz power supply, the traversing motor rating of single speed type is 30%ED. This product is designed for straight beams. Specify a beam width at the time of quotation or 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(IS)	265	430		260	656(616)	219(276)	259	325			68				380				
500kg	SHER2M005L(IL)	285	520		310	706(666)	242(300)	271	370	27	130	70	18	95	107	430	515	220	152(56)	345(249)
	SHER2M005S(IS)																			
1	SHER2M010L(IL)	345	540	3700	339	734(694)	291(316)	298	405	31		77				458				
	SHER2M010S(IS)																			
1.6	SHER2M016S(IS)	435	640		389	826(803)	308(372)	338	487	34						523				
2	SHER2M020L(IL)	445	830		423	846(823)	337(401)	399	527	39	125	79	29	112	109	543	520	225	154(69)	385(300)
	SHER2M020S(IS)																			
3.2	SHER2M032S(IS)	610	840		438	892(884)	347(411)	356	487	44	131	45	24	134	115	560	521	226	157(79)	398(320)
5	SHER2M050S(IS)	670	850	4200	475	1057(1057)	337(401)	399	542	47	145	66	31	144	131	657	528	281	156(53)	401(297)

Note: The bracketed figures in Size "b" are for geared or plain trolley. The bracketed figures in Size "d" are for dual speed type. The bracketed figures in Size "r" or "u" are for plain trolley. Size "D" is for a lift of 4m. This information which varies depending on the lift is provided upon your request.

Options

Mechanical Brake with Friction Clutch

KITO's own device combining functions of friction clutch and mechanical brake for the capacities of 10 t L 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% of rated capacity

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



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.

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	171	3
1	7.7x1	189	4
1.6	10.2x1	227	5
2		124	
2.5	11.2x1	121	8
3.2	10.2x2	113	10

Setting: 100-110 % of rated capacity

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

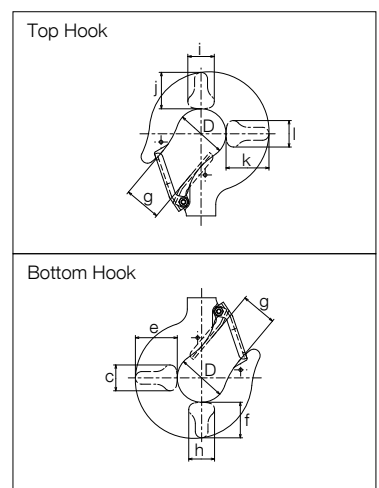
Service life of battery: 700H in intermittent use (4hr per day)

Alerting buzzer volume: Min. 85dB

Enclosure: IP55

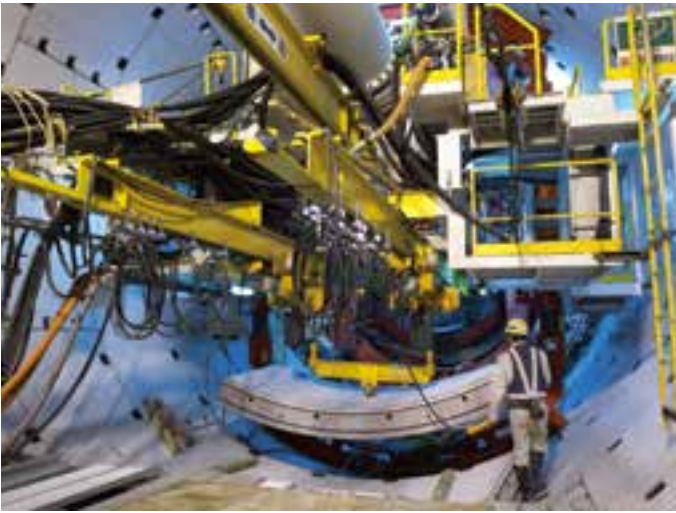
Hook Dimensions

Product Code	Top Hook (mm)						Bottom Hook (mm)					
	D	g	i	j	k	l	D	g	h	f	e	c
ER2-001H/IH	35.5	27.0	17.5	23.5	28.0	17.5	35.5	27.0	17.5	23.5	28.0	17.5
ER2-003S/IS												
ER2-003H/IH												
ER2-005L/IL												
ER2-005S/IS	42.5	31.0	22.5	31.0	36.5	22.5	42.5	31.0	22.5	31.0	36.5	22.5
ER2-010L/IL												
ER2-010S/IS												
ER2-016S/IS												
ER2-020L/IL	53.0	39.0	31.5	43.5	51.5	31.5	47.5	34.0	26.5	36.5	43.5	26.5
ER2-020S/IS							53.0	39.0	31.5	43.5	51.5	31.5
ER2-025S/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
ER2-032S/IS			34.5	47.5	56.0	34.5						
ER2-050S/IS			42.5	56.0	67.0	42.5						



Applications





KITO



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