



Explosion-Proof Type Electric Chain Hoist



Kito conventional electric chain hoists are well accepted in various industrial fields.

In explosive atmospheres of various ignitable gases and vapors, special attention must be required.

In such special atmospheres,

Kito RES Series Electric Chain Hoists are recommended.

The hoists are authorized with the type approval

by The Ministry of Health, Labor and Welfare in Japan.

KITO RES Series Electric Chain Hoists



RES Model Specifications

W.L.L. (t)	Code	Standard Lift (m)	Push Button Cord:L(m)	Lifting Motor 3 Phase			Lifting Speed(m/min)		Load chain Diameter (mm)x Chain Fall Lines	Test Load (m.ton)	Mass (Net Weight) (kg)	Mass (Weight) for Additional One Meter of Lift (kg)
				Output (kW)	ED (%)	No.of Starts (c/h)	50Hz	60Hz				
1/2	RES005S	3	3.1	1.5	25	250	8.0	10.0	ø7.1x1	0.625	100	1.2
1	RES010L			1.5	25	250	3.4	4.1	ø7.1x2	1.25	110	2.3
1	RES010S			1.5	25	250	6.9	8.3	ø7.1x1	1.25	100	1.2
1 1/2	RES015S		3.2	3.0	20	200	8.7	10.4	ø10.0x1	1.88	145	2.3
2	RES020L			1.5	25	250	3.4	4.1	ø7.1x2	2.5	110	2.3
2	RES020S		3.0	20	200	6.6	7.9	ø10.0x1	2.5	147	2.3	
2 1/2	RES025S		3.0	20	200	5.3	6.4	ø11.2x1	3.13	150	2.9	
3	RES030S		3.0	20	200	4.3	5.2	ø10.0x2	3.75	165	4.6	
5	RES050S		3.0	20	200	2.6	3.2	ø11.2x2	6.25	170	5.9	
7 1/2	—		3.0	20	200	1.8	2.1	ø11.2x3	9.4	—	—	
10	—	—	—	3.0x2	20	200	2.6	3.2	ø11.2x4	12.5	—	—
15	—			3.0x2	20	200	1.8	2.1	ø11.2x6	18.8	—	—
20	—			3.0x2	20	200	1.3	1.6	ø11.2x8	25	—	—

•W.L.L.: indicates maximum load (working load limit) which a hoist is designed to support in general service.

RES Model Dimensions (mm)

W.L.L. (t)	Code	Minimum Distance Between Top and Bottom Hooks:C	D	a	d	e	f	g	h	i
1/2	RES005S	650	770	605	265	340	358	31	235	123
1	RES010L	765	870	605	265	340	413	37	351	62
1	RES010S	590	770	605	265	340	358	31	235	123
1 1/2	RES015S	725	870	679	304	375	470	34	309	161
2	RES020L	765	870	605	265	340	413	37	351	62
2	RES020S	735	870	679	304	375	470	37	309	161
2 1/2	RES025S	750	885	679	304	375	470	40	309	161
3	RES030S	895	935	679	304	375	470	44	364	106
5	RES050S	930	1040	679	304	375	482	46	381	101
7 1/2	—	—	—	—	—	—	—	62	—	—
10	—	—	—	—	—	—	—	62	—	—
15	—	—	—	—	—	—	—	79	—	—
20	—	—	—	—	—	—	—	86	—	—

•W.L.L.: indicates maximum load (working load limit) which a hoist is designed to support in general service.

•In case of 7 1/2t and over capacities, trolley combined types are standard.

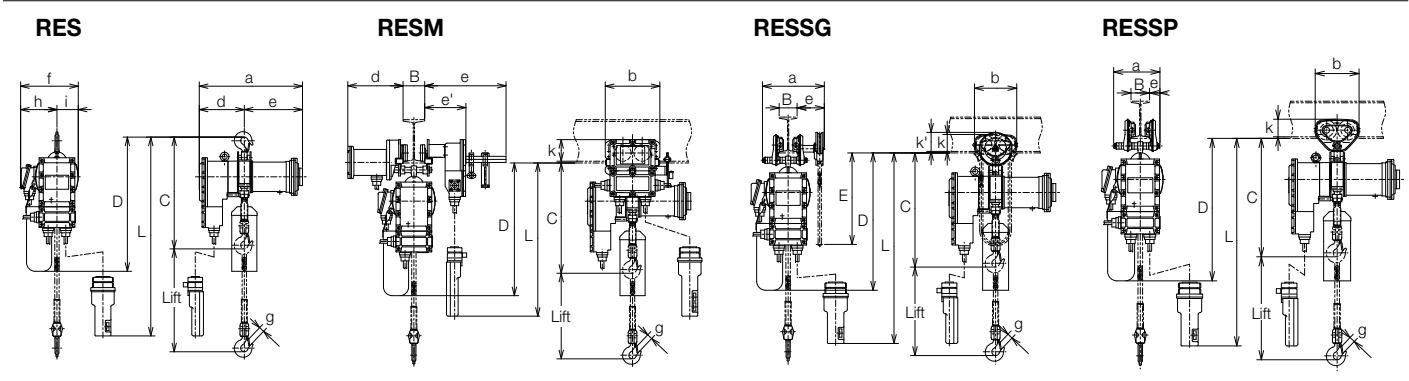
•Dimensions of D show the data for the hoist with standard length of lift.

•In case of 10t and over capacities, 2-hoist body construction is standard.

A canvas chain container is standard up to the maximum lifts shown in the right table.
 A steel chain container is also available up to the maximum lifts, but in case lifts exceed the maximum lifts, a steel chain container must be installed.

Allowable lifting height for the Canvas Chain Container

Capacity	1/2	1-L	1 1/2	—	2 1/2	5	7 1/2
	1-S	2-L	2-S	3	10	20	15
Max.lift (m)	15	7.5	18	9	12	6	8



RESM Model Specifications & Dimensions (mm)

W.L.L. (t)	Code	Standard Lift (m)	Traversing Motor 3 Phase			Traversing Speed (m/min)		Standard I-Beam Width: B (mm)	Minimum Radius for Curve (mm)	Mass (Net Weight) (kg)	Mass (Weight) for Additional One Meter of Lift (kg)	Minimum Distance from Bottom of I-Beam to Hook: C	Dimensions (mm)							
			Output (kW)	ED (%)	No. of Starts (c/h)	50Hz	60Hz						D	L	b	d	e	e'	k	
1/2	RESM005S-S	3	0.4	25	250	10	12	58 to 125	800	190	1.2	640	760	3300	315	320	515	237	125	
1	RESM010L-S		0.4	25	250				800	200	2.3	740	840	3300	315	320	515	237	125	
1	RESM010S-S		0.4	25	250				800	190	1.2	580	760	3300	315	320	515	237	125	
1 1/2	RESM015S-S		0.4	25	250			100 to 150	800	245	2.3	695	840	3300	325	324	515	240	120	
2	RESM020L-S		0.4	25	250				800	205	2.3	740	840	3300	325	324	515	240	120	
2	RESM020S-S		0.4	25	250				800	245	2.3	705	840	3300	325	324	515	240	120	
2 1/2	RESM025S-S		0.75	25	250			or	or	800	265	2.9	725	855	3300	340	326	520	242	132
3	RESM030S-S		0.75	25	250			20	24	800	275	4.6	870	910	3300	340	326	520	222	132
5	RESM050S-S		0.75	25	250			125 to 175	2000	310	5.9	925	935	3300	400	333	525	229	145	
7 1/2	RESM075S-L		0.75	25	250				2500	460	8.8	1210	1230	3400	500	337	525	242	175	
10	RESM100S-L		0.75	25	250				2500	630	12	1180	1030	3800	500	337	525	241	175	
15	RESM150S-L		0.75x2	25	250			150 to 220	∞	860	18	1370	1300	3800	1020	337	525	241	175	
20	RESM200S-L		0.75x2	25	250				∞	930	25	1400	1300	3800	1020	337	525	241	175	

- W.L.L.: indicates maximum load (working load limit) which a hoist is designed to support in general service.
- Data for lifting motor, lifting speed, load chain and test for RESM are the same data for RES.
- Dimensions of D show the data for the hoist with standard lift.

RESSG (RESSP) Model Specifications & Dimensions (mm)

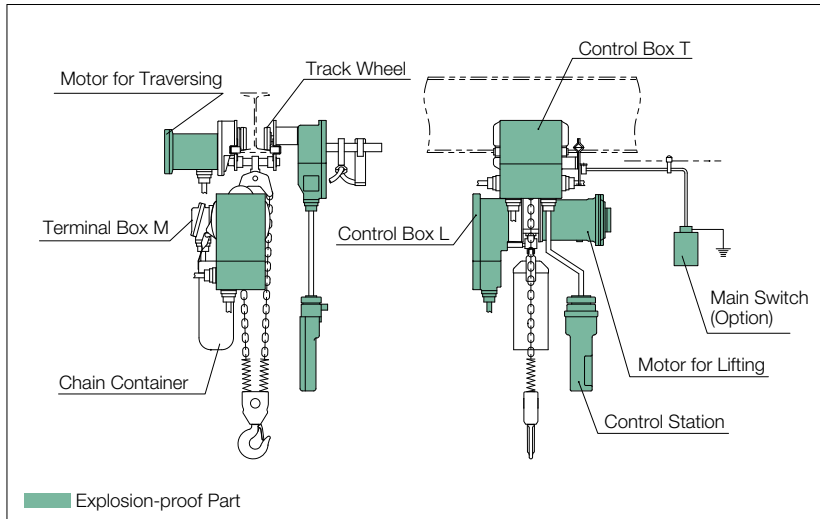
W.L.L. (t)	Code	Standard Lift (m)	Standard I-Beam Width: B (mm)	Minimum Radius for Curve (mm)	Mass (Net Weight) (kg)	Mass (Weight) for Additional One Meter of Lift (kg)	Minimum Distance from Bottom of I-Beam to Hook: C	Dimensions (mm)								
								D	E	L	a	b	e	k	k'	
1/2	RESSG(RESSP)005S	3	66 to 127	1300	115(110)	2.1(1.2)	640	760	2700	3100	345(249)	236	152(56)	95	106	
1	RESSG(RESSP)010L			1300	125(120)	3.2(2.3)	740	840	2700	3100	345(249)	236	152(56)	95	106	
1	RESSG(RESSP)010S			1300	115(110)	2.1(1.2)	580	760	2700	3100	345(249)	236	152(56)	95	106	
1 1/2	RESSG(RESSP)015S		82 to 153	1500	170(165)	3.2(2.3)	695	840	2700	3200	385(300)	280	154(69)	112	109	
2	RESSG(RESSP)020L			1500	135(130)	3.2(2.3)	740	840	2700	3200	385(300)	280	154(69)	112	109	
2	RESSG(RESSP)020S			1500	170(165)	3.2(2.3)	705	840	2700	3200	385(300)	280	154(69)	112	109	
2 1/2	RESSG(RESSP)025S		98 to 153	1700	185(180)	3.9(2.9)	725	860	2700	3200	398(320)	324	157(79)	134	114	
3	RESSG(RESSP)030S			1700	210(205)	5.5(4.6)	870	910	2700	3200	398(320)	324	157(79)	134	114	
5	RESSG(RESSP)050S			2300	235(230)	6.8(5.9)	925	935	3200	3300	401(297)	400	156(53)	144	131	
7 1/2	RESSG075S		150 to 220	3000	330	9.9	1210	1230	3200	3400	963	480	288	171	165	
10	RESSG100S			3000	555	13	1180	1030	3200	3800	963	480	288	171	165	
15	RESSG150S			∞	730	20	1370	1300	3200	3800	963	1000	288	171	165	
20	RESSG200S			∞	790	27	1400	1300	3200	3800	963	1000	288	171	165	
				∞	790	27	1400	1300	3200	3800	963	1000	288	171	165	

- W.L.L.: indicates maximum load (working load limit) which a hoist is designed to support in general service.
- Data for lifting motor, lifting speed, load chain and test for RESSG(RESSP) are the same data for RES.
- Figures in parentheses show the data for the hoist combined with a plain trolley.
- Smaller min. radius for curve than the standard is available upon request.
- Dimensions of D show the data for the hoist with standard lift.

This is the INFORMATION that you are looking for.

You can find the Details of Classification of Construction, Explosion Grade and Ignitability.

Construction (Type d: Flameproof enclosures)



The section in the left figure shows the explosion-protected construction. Accordingly, electric parts have sufficient strength to withstand the internal pressure indicated in JIS C 0903; other detailed specifications such as gaps, depths of gaps and locking constructions are also made to meet the below standards.

Relative Standards

JIS C 0903

Electrical Apparatus for Explosive Atmospheres in General Industry.

JIS C 0905

Supplementary Requirements for Construction of Electrical Apparatus for Explosive Atmospheres in General Industry.

Range of Ignitable Gases and Vapors

Explosion Grade :d		Ignitability	G1	G2	G3	G4	G5
			Over 450°C	300°C to 450°C	200°C to 300°C	135°C to 200°C	100°C to 135°C
1	Dimension of gap with the depth of 25mm through which the internal flame is able to escape.	over 0.6mm	Acetone Ammonia Benzene Carbon-monoxide Ethane Acetic-acid Ethyl-acetate Methane Toluene Propane Methanol	Ethanol Isoamyl-acetate I-butanol Butan Acetic-anhydride	Gasoline Hexane	Acetaldehyde Ethyl-ether	
2		0.6mm to 0.4mm	Coal gas	Ethylene Ethylene-oxide			
3		Up to 0.4mm	Water gas Hydrogen	Acetylene			Carbon-disulfide

KITO Explosion-Proof Type Electric Chain Hoists are classified in group.

Common Specifications

Power source	200V(50/60Hz), 220V(60Hz), 380V(50Hz), 400V(50Hz), 415V(50Hz), 440V(60Hz), 3 phase. Other voltages are available upon request.
Operation voltage	48V
Operation method	Pendant type push button cord (floor operation) (2-push-button-system for both hook suspension type and manual operated type trolley. 4-push-button-system for motorized trolley type.)
Power supply method	Cable power supply system
Push button cord and power supply cable	Rubber insulated flexible cable (3RNCT)
Insulation of motor	E class
Braking system for lifting and lowering	Pull-rotor motor brake
Braking system for traversing	Motor brake construction
Working temperature range	-20°C (-4°F) to +40°C (+104°F)

All specifications herein are subject to change without notice.

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Modelos KITO para Aplicações Específicas

A Série de Modelos KITO para aplicações específicas foi projetada para necessidades diversas de movimentação de cargas e condições ambientais. A KITO também oferece vários modelos para fabricação sob especificações para as aplicações particulares do usuário.

Para elevar objetos largos ou dois objetos horizontalmente/simultaneamente sem desvio de nível.

TWER2M Gancho duplo Capacidade: 125kg + 125kg até 2.5t + 2.5t



A talha elétrica de gancho duplo KITO, equipada com um motor e dois ganchos, serve para elevá-los em nível, de modo igual e seguro.

Este produto é o mais indicado para aplicações de elevação que exigem dois pontos devido a largura do objeto ou para manter o objeto na posição horizontal ao ser elevado.

Para exigências especiais tais como dupla velocidade ou vigas com raio de curvatura, consulte o representante da KITO mais próximo.



Construção singular para aumentar a altura de elevação efetiva

SHER2M Baixa Altura Construtiva Capacidade: 250kg à 5t



A talha elétrica de corrente de baixa altura construtiva KITO foi projetada para ter uma altura menor do que a das configurações usuais da Série ER2. Este produto é o mais adequado para instalações de teto baixo ou para maximizar a altura de elevação.

Troles são opcionais e disponíveis sob pedido. Para exigências especiais, tais como capacidades acima de 10t, dupla velocidade ou vigas com raio de curvatura, consulte o representante da KITO mais próximo.

