



# Giving top priority to the every industrial workplace-Kito cranes.



Cranes are widely used in the workplace to improve work efficiency,

to use limited space effectively and to help reduce costs.

To meet the diversifying demands of the industrial world,

Kito manufactures all kinds of cranes from simple manual cranes to motorized cranes with a single or double girder.

All of our products have been designed and built taking into consideration safety, operability and durability.

In addition, we have the cranes which are quiet and vibrate less and which are suitable

for a working environment where quiet operation is important.



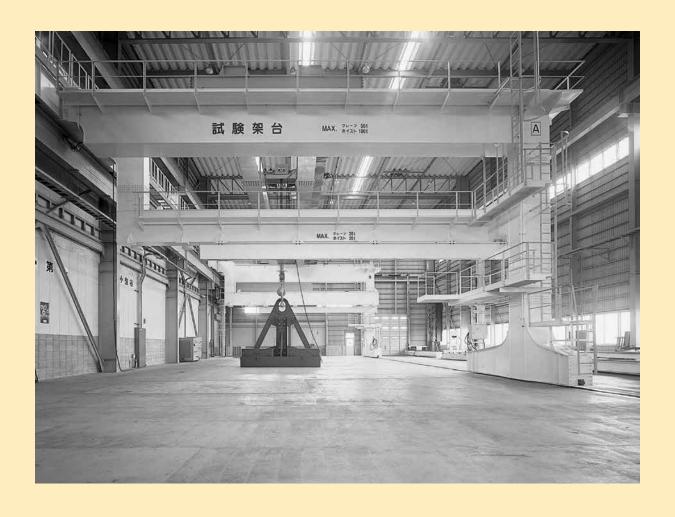
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Note: all measurements used in this catalog are metric (SI unit system)

# **Crane test equipment**

At Kito, cranes are tested for durability and reliability using special equipment.





# Test equipment capacity at Kito factory

Traveling crane	Hoist
Max. test load 50t	Max. test load
Span 30m	100t

# Kito crane applications

# [Overhead cranes]







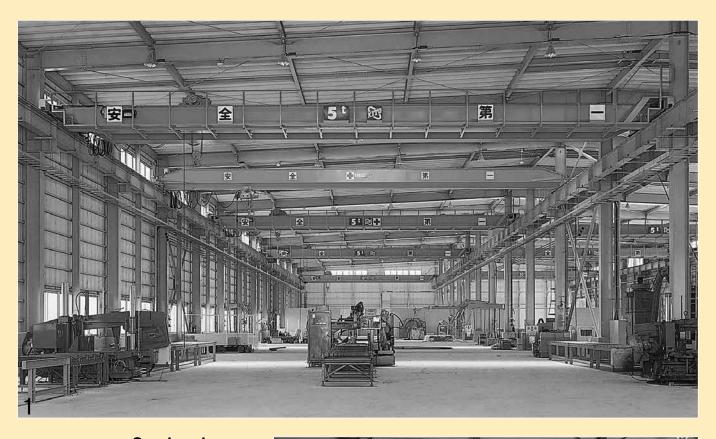


# **Overhead cranes**

30/10t Double girder
 2.8t Single girder
 20/2.8t Double girder
 2.8t Single girder

# Kito crane applications

# [Overhead cranes]



Overhead cranes
1: 5t Double girder
2: 10/5t Double girder



# [Low-head cranes]





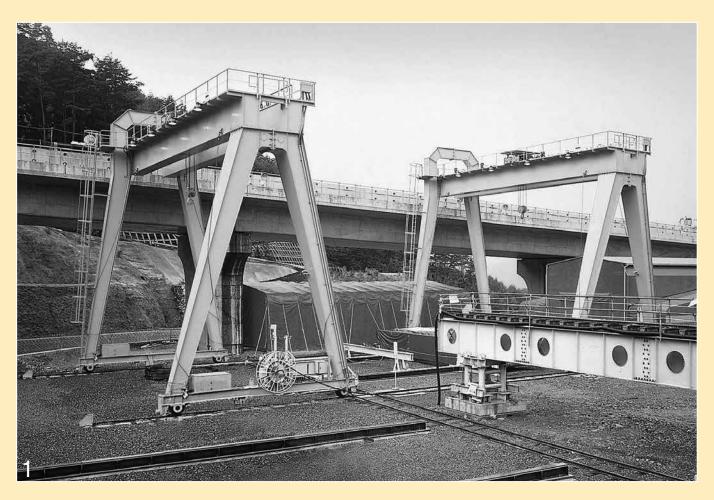


# **Low-head cranes**

- 3: 10t Single girder
- 4: 1t Single girder
- 5: 1t Single girder

# Kito crane applications

# [Gantry cranes]





# **Gantry cranes**

1: 20t Gantry cranes 2: 5t Single leg gantry crane 3: 2.8t Gantry cranes



# [Jib cranes]











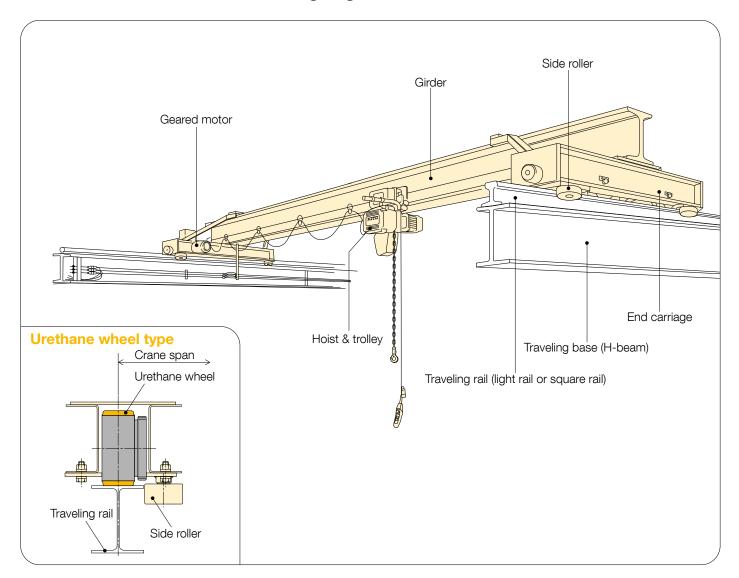




# Jib cranes

- 4: 6t Pillar mounted jib crane auto rotary
- 5: 2t Pillar mounted jib crane
- 6: 2t Pillar mounted jib cranes
- 7: 2t Wall mounted jib crane auto rotary
- 8: 13t Pillar mounted jib crane auto rotary
- 9: 2t Wall mounted jib crane auto rotary
- 10: 1.5t Wall mounted jib cranes electric traveling

# Overhead crane [single girder]



The single girder overhead crane can be installed on traveling rails on the brackets of building pillars. This type of crane has a relatively larger capacity and can utilize space below ceiling rafters, and so a wider lifting range is assured. Guiding the path using side rollers provides smooth traveling and the girders can be designed according to the rated load and span. Moreover, the shorter overall length of the end carriage and the geared-motor installation in optimum position allows for a more effective use of work space.

There is also a urethane wheel type version of this crane that effectively reduces noise and vibrations in travel. It is recommended for factories near residential areas, duplex office-homes and for operation at night. Running urethane wheels on the top flange of the h-beam reduces noise and vibration in travel. With these cranes it is not necessary to install a light rail, thus reducing installation costs and time.

## Single speed crane

This crane employs geared motors specially designed by Kito to ensure smooth starts and stops. It is suited for general work.

## Manual geared type crane

This manual geared type crane balances travel smoothly by synchronizing the driving wheels on both sides. With a relatively shorter travel distance, it is suited for low frequency work.

## **Optional softrun device**

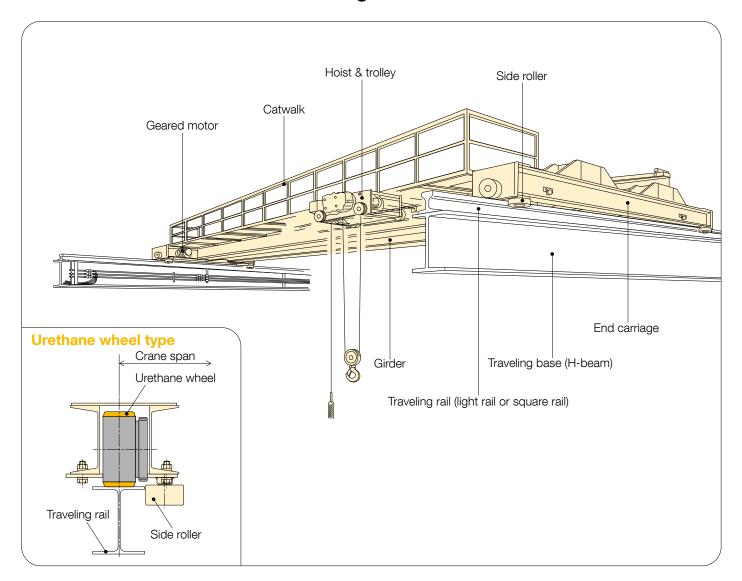
This device electrically controls motor speed which enables to accelerate smoothly in travel and minimizes load swing at start-up.

It is highly suited for handling high inertia loads or operating long span cranes.

S



# Overhead crane [double girder]



The double girder overhead crane can be installed on traveling rails on the brackets of building pillars. The double rail type trolley runs along parallel girders suitable for larger capacity cranes, and also can utilize space below ceiling rafters, and so a wider lifting range assured. Smooth traveling is obtained using a guide mechanism with side rollers, and the girder construction can be designed according to the rated load and span. Moreover, the shorter overall length of the end carriage allows for a more effective use of the work space.

There is also a urethane wheel type crane that effectively reduces noise vibration in travel. It is recommended for factories near residential areas, duplex office-homes and for operation at night. Running urethane wheels on the top flange of the H-beam reduces noise and vibration in travel. With these cranes, it is not necessary to install a light rail thus reducing on installation costs and time.

# Single speed crane

This crane employs geared motors specially designed by Kito to ensure smooth starts and stops. It is suited for general work.

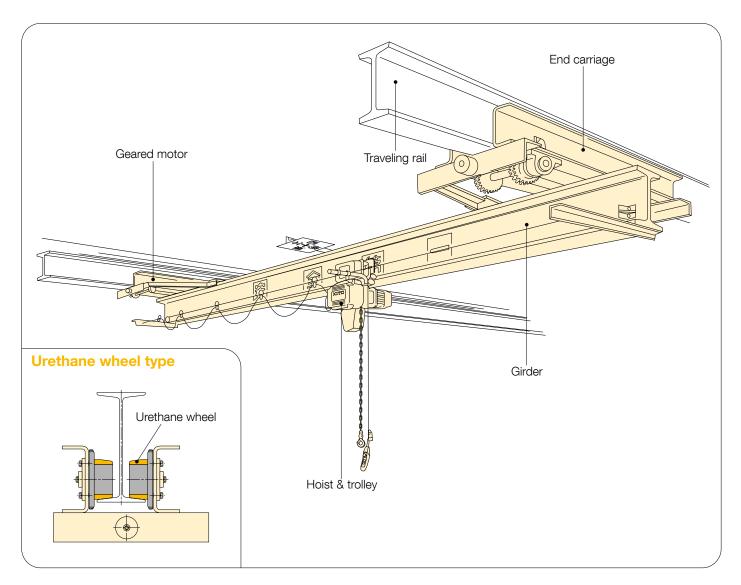
## **Optional softrun device**

This device electrically controls motor speed which enables to accelerate smoothly in travel and minimizes load swing at start-up.

It is highly suited for handling high inertia loads or operating long span cranes.



# Low-head cranes



The low-head crane is suspended from the traveling rail (I-beam) which is fixed to the ceiling rafters of the building. Because the traveling rail location and span can be freely chosen, the crane can be designed to suit production line processes. The detaching design for the track wheel and its axle reduces installation and maintenance time.

There is also a urethane wheel type version of the crane that effectively reduces noise and vibration in travel. It is recommended for factories near residential areas, duplex office-homes, and for operation at night.

## Single speed crane

This crane employs geared motors specially designed by Kito to ensure smooth starts and stops. It is suited for general work.

## Manual geared type

This manual geared type version of the crane balances travel smoothly by synchronizing the driving wheels on both sides. With a relatively shorter travel distance, it is suited for low frequency work.

## Manual plain type (low-head only)

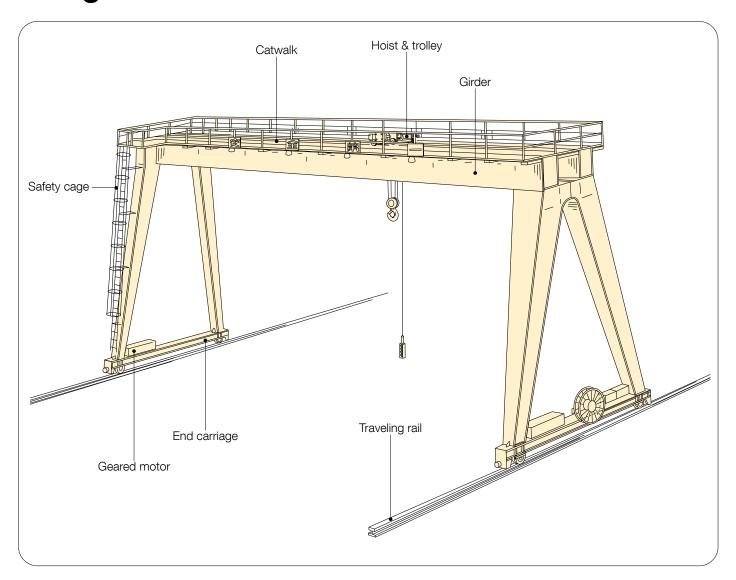
This is the simplest manual type of crane and lifting and traveling are operated by hand. It is suited for light work.

## **Optional softrun device**

This device electrically controls motor speed which enables to accelerate smoothly in travel and minimizes load swing at start-up. It is highly suited for handling high inertia loads or operating long span cranes.



# **Bridge cranes**



Kito's gantry crane series offer "gantry cranes", which run on floor mounted rail by its two legs fabricated from steel sections, and "single leg gantry cranes", which have the end of the bridge supported by an end truck running on an elevated rail.

It is possible to customize this crane for the work and the installtion site. "gantry cranes" can be used both outside and inside, and in conbination with heavy cranes.

# **End carriage capacity**

WLL: indicates the maximum mass (Working Load Limit) for general use.
Traveling speeds are shown on pages 18 to 23.

1				WLL	nown on pages			Spai	n (m)				Dogo
Page		туре		(t)	3	6	9	12	15	18	21	27	Page
Page   1				1			EO010-9	EO010-12		EO010-18	EO010-21		
10		<u> </u>	5	2			EO020-9	EO020-12		EO020-18	EO020-21		
10		hea		3			EO030-9	EO030-12		EO030-18	EO030-21		10
10	g	Ver		5			EO050-9	EO050-12		EO050-18	EO050-21		18
Part	rize	0	)	7.5				EO075-12		EO075-18	EO075-21		
Part	oto			10				EO100-12		EO100-18	EO100-21		
Part	Σ	<u></u>	5	1		EL010-6	EL010-9	EL010-12	EL010-15				
Part		hea		2		EL020-6	EL020-9	EL020-12	EL020-15				00
Part		×		3		EL030-6	EL030-9	EL030-12	EL030-15				22
Part		۲	í	5		EL050-6	EL050-9	EL050-12	EL050-15				
Same	<b>a</b>			1			CEO010-9	CEO010-12	CEO010-15	CEO010-18	CEO010-21		
Same	уре	0	5	2			CEO020-9	CEO020-12	CEO020-15	CEO020-18	CEO020-21		
Same	el t	lea Jea		3			CEO030-9	CEO030-12	CEO030-15	CEO030-18	CEO030-21		]
Same	vhe	/er		5			CEO050-9	CEO050-12	CEO050-15	CEO050-18	CEO050-21		19
Section   Sect	) e	Ó	)	7.5				CEO075-12		CEO075-18	CEO075-21		
Section   Sect	har			10				CEO100-12		CEO100-18	CEO100-21		
Same	Jret	≥ 7	g	1			CEL010-9						
Page	ر ا	ر ک	hea	2			CEL020-9						23
T.5   WEO075-15   WEO100-21   WEO100-27				3					WEO030-15		WEO030-21	WEO030-27	
Part		7	5	5					WEO050-15		WEO050-21	WEO050-27	
Part		) Jea	5	7.5					WEO075-15		WEO075-21	WEO075-27	00
Part		\er		10					WEO100-15		WEO100-21	WEO100-27	20
Part	der	Ó	)	15					WEO150-15		WEO150-21	WEO150-27	
Part	gir			20					WEO200-15		WEO200-21	WEO200-27	
Part	ple			3					CWEO030-15		CWEO030-21	CWEO030-27	
Part	noc	hee		5					CWEO050-15		CWEO050-21	CWEO050-27	
Part		≥ 0	e	7.5					CWEO075-15		CWEO075-21	CWEO075-27	0.4
Part		lane.	Z X	10					CWEO100-15		CWEO100-21	CWEO100-27	21
Part		et		15					CWEO150-15		CWEO150-21	CWEO150-27	
Parameter   Para		<u>5</u>		20					CWEO200-15		CWEO200-21	CWEO200-27	
S		70		1			GO010-9	GO010-12					
S   GO050-9   GO050-12     S   GO050-9   GO050-9   GO050-12     S   GO050-9   GO050-		)ea	red	2			GO020-9	GO020-12					1
S   GO050-9   GO050-12     S   GO050-9   GO050-9   GO050-12     S   GO050-9   GO050-		er	iea	3			GO030-9	GO030-12					24
	/be	σ́	0	5			GO050-9	GO050-12					
	al ty		<u>ا</u> .		PL005-3	PL005-6			1				65
	ınu	٥	Pla			PL010-6							25
GL020-6 GL020-12  GL030-6 GL030-12	Ma	Jear		1		GL010-6		GL010-12					
GL030-6 GL030-12		<u> </u>	red			GL020-6							1
		2	jeal	3		GL030-6		GL030-12					24
5 GL050-6 GL050-12			9										1

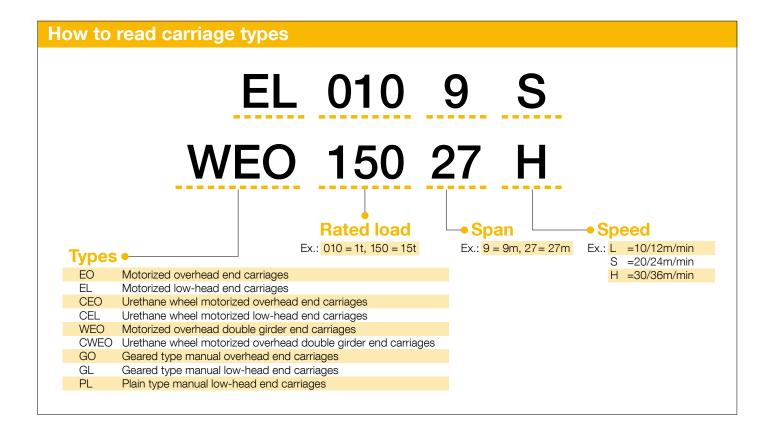
Optional softrun is recommended forWLL: Working Load Limit (t).

color models.

# Features of end carriages

- To meet customer needs, we have raised performance while offering more standardized models. The track wheel is now made of a carbon steel construction and is, thus endurable and long lasting (excluding the plain type crane which is made from heat treated hot- rolled steel plates)
- Products are primer-coated which allows customers to choose the desired top coat color (KITO Yellow (equivalent to munsell 7.2YR6.5/14.5) is painted for plain type cranes).
- Punch-mark on end carriages for easy centering and drilling for girders.

Overhead end carriages	©Track wheel maintenance is easy because of the open frame construction.  ©Travel is smooth because of a guide mechanism with side rollers.
Overhead urethane wheel type end carriages	<ul> <li>Durability has been improved with our own developed urethane wheels.</li> <li>The urethane wheels run directly over the top flange of the H-beam, thus reducing noise and vibration in travel. It is not necessary to install a light rail thus reducing installation costs and time.</li> <li>Travel is smooth because of a guide mechanism with side rollers.</li> </ul>
Low-head end carriages	<ul><li>Both the track wheel and track wheel axle are designed for easy detaching thus reducing installation and maintenance time.</li><li>Anti-drop plates are equipped on the carriage (for CSA).</li></ul>
Low-head urethane wheel type end carriages	<ul> <li>This end carriage employs durable urethane wheels developed by Kito and an idling gear in reinforced nylon resin and reduces noise and vibrations in travel.</li> <li>Both the track wheel and track wheel axle are designed for easy detaching thus reducing installation maintenance time.</li> </ul>
Manual plain type end carriage	The hand pulling operation has become smoother and easier with a pressed metal wheel (0.5t span 3m and 1t span 6m) and side rollers (1t span 9m).
Manual geared type end carriage	Pulling the hand chain makes both wheels move at the same time for balanced smooth traveling.



# **Geared motor capacity**

_	T <sub>upo</sub>	WLL				Spai	n (m)			
	Гуре	(t)	3	6	9	12	15	18	21	27
		1	G1MO025□	<b> -</b>			G1MO025□-[		G1MO025	
	70	2	G1MO025	<b> -</b>			G1MO025		G1MO040T-	
	леас	3	G1MO025 G1MO040T-				G1MO025 G1MO040T-			
73	Overhead	5	G1MO025 G1MO040T-	-  -		G1MO040	]			
Motorized	O	7.5	G1MO075 G1MO150T-	<b>-</b>			G1MO075□-[		G1MO075::-:	
1oto		10					G1MO150T-	]	G1M150T-	
2	7	1	G1ML025□-	-	G1ML025□-□	G1ML025□-□	G1ML040□-□			
	леас	2	G1ML025□-		G1ML025□-□	G1ML025□-□		Availa	able on	
	Low-head	3	G1ML025□-		G1ML025 G1ML040T-			your r	equest	
		5	G1ML040 G1ML075T-			G1ML075□-l				
		1	G1MO025	<b> -</b>			G1MO040 -		G1MO075	
be	70	2	G1MO040□	<b> -</b>				G1MO075		
el ty	head	3	G1MO075	<b> -</b>						
Urethane wheel type	Overhead	5	G1MO075 G1MO150T-	-  -			G1MO150□-[		G1MO150□-□	
ıne v	O	7.5	G1MO150□	<b> -</b>			G1MO150□-[			
etha		10					G1MO150 = -[ G1MO150 = -[			
Ž	Low- head	1	G1ML025				Availa	ble on		
	Le	2	G1ML040 - G1ML075T-	- <u> </u>			your re	equest		
		3	G1MO025 G1MO040T-	-  -						G1MO040 G1MO075T-
	70	5	G1MO040□ G1MO075T-	-  -				G1MO075 G1MO150T-		G1MO075 G1MO150T-
	head	7.5	G1MO075□	-						G1MO075 G1MO150T-
	Overh	10	G1MO150T-					G1MO075		G1MO150
der	9	15	G1MO150□							
Double girder		20	G1MO150□ G1MO150□	-□×2				G1MO150□- G1MO150□-	□ □×2	
nple		3	G1MO075□ G1MO150T-	- <u> </u>						G1MO150□-□
۵	heel	5	G1MO150□							
	ane w Type	7.5	G1MO150□	<b> -</b>						
	Urethane wheel Type	10	G1MO150□	-□×2				G1MO150□-	□×2	
	Ure	15	G1MO150□	-□×2				G1MO150□-	□×2	
		20	G1MO150□	-□×2 <sub>*</sub>				G1MO150□-	□×2 <sub>*</sub>	G1MO150□-□×2

<sup>• 1.5</sup>kW×2means 2 geared motors are used on 1 end carriage (on side): 4 driving motor type.

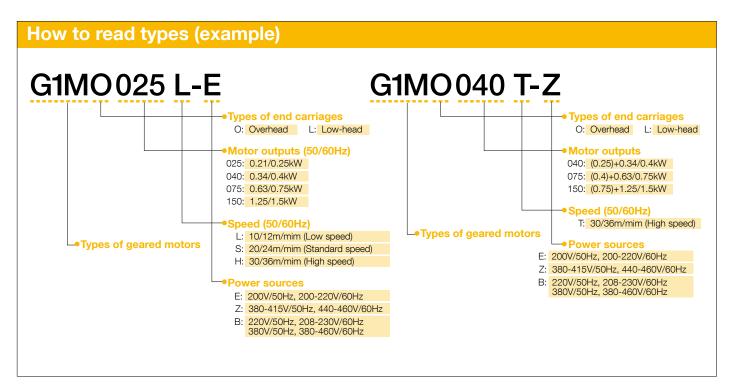
<sup>•</sup> For dual listings, models on the upper line are the low, standard and dual speeds end carriages, whereas models on the lower line are the high speed end carriages. Single listings show the low, standard, high and dual speed end carriages.

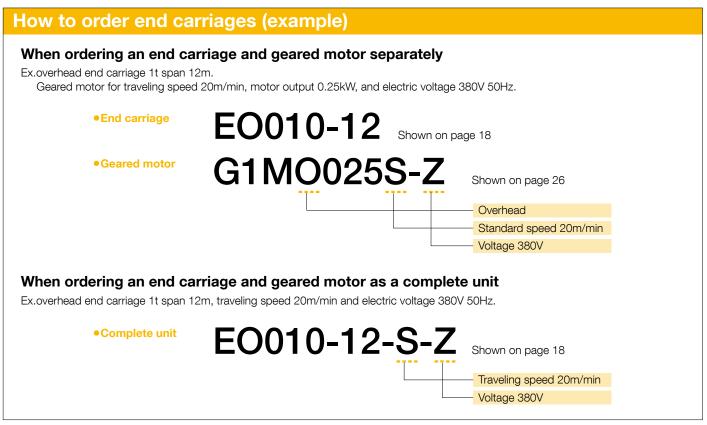
<sup>• \*</sup>Available on request (2.2kWx2 for 30/36m/min. speed).

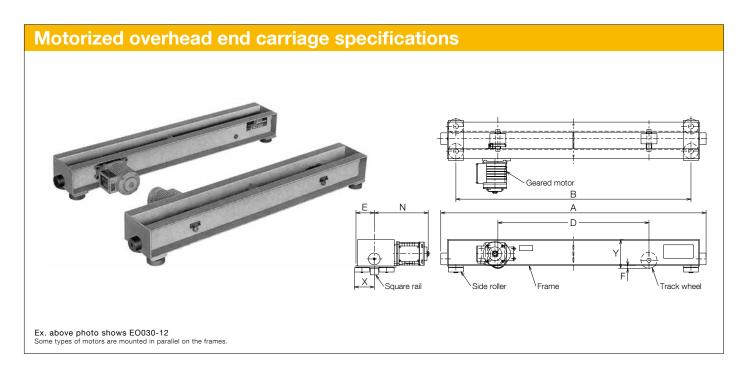
<sup>•</sup> WLL: Working Load Limit (t).

# Features of geared motors

- Kito cranes employ a geared motor with an electromagnetic brake. Brake torque is adjustable from 0 to 50% (for 0.25kW: from 30 to 80%) of the rated torque of the motor, thus the load swing can be minimized by adjusting the brake torque.
- The motor uses a helical gear, which reduces noise during operation.
- Softrun devices are available to provide smooth starts and minimize swing.
- Motors are available in three different single speed (10/12, 20/24, and 30/36m/min 50/60Hz) types and they make work more efficient.







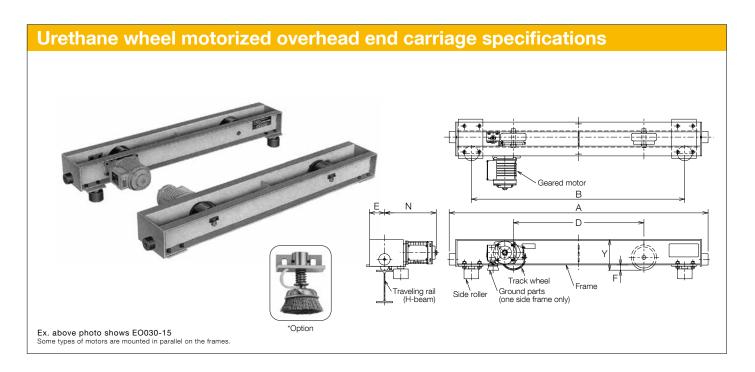
WLL	Max.	-	Traveling 50	motor outp /60 Hz (m/m	ut (kW×2) iin)	Applicable square	Max. wheel	Wheel			Di	mensio	ons (mı	m)			Mass
(t)	span (m)	Type	L	S	Н	rail (mm)	pressure (kN)	diameter (mm)	Α	В	D	*1 E	F	N*2	Х	Υ	(kg/set)
			10/12	20/24	30/36	(111111)	(KIN)		^	Б			'	IN	^	'	
	9	EO010-9					9.31	95	1580	1400	900	109	15.5	321		171	132
1	12	EO010-12			0.21/0.25	□32·□40 □38·□45			1000		000			02.	119		.02
•	18	EO010-18					17.6	125	2280	2100	1200	124		325		191	197
	21	EO010-21			0.34/0.4	□45.□50	31.4	175	2691	2505	1400	144		326	123	221	380
	9	EO020-9							1580	1400	900	114				176	146
2	12	EO020-12			0.21/0.25	□32·□40 □38·□45	17.6	125	1000	1400	300	117		325	119	170	140
	18	EO020-18	0.21/0.25	0.21/0.25					2280	2100	1200	124	20.5			221	212
	21	EO020-21					31.4	175	2691	2505	1400	144	20.0	326		221	380
	9	EO030-9					20.6	140	1580	1400	900	114				176	150
3	12	EO030-12			0.34/0.4	□45.□50	20.0	140	1360	1400	900	114		325	123	170	150
3	18	EO030-18			0.34/0.4		23.5	155	2280	2100	1200	149				221	252
	21	EO030-21					31.4	175	2691	2505	1400	144		326		221	380
	9	EO050- 9					51.4	175	1490	1300	800	124		323			197
5	12	EO050-12				□50			2296	2100	1200	138			143	224	374
	18	EO050-18	0.34/0.4	0.34/0.4	0.63/0.75		44.1	210	2230	2100	1200	100		376	140		374
	21	EO050-21							2696	2500	1400	163				264	496
	12	EO075-12					73.5	250	1645	1405	900	138				224	384
7.5	18	EO075-18					79.4	300	2345	2105	1200	163	23.5			264	586
	21	EO075-21	0.63/0.75	0.63/0.75	1.25/1.5	<u>□55</u> .□60	13.4	300	2745	2505	1400	183		445	162	324	724
	12	EO100-12	0.03/0.75	0.03/0.75	1.20/1.5		73.5	250	1645	1405	900	138		440	102	224	384
10	18	EO100-18					79.4	300	2345	2105	1200	163				264	586
	21	EO100-21					79.4	300	2745	2505	1400	183				324	724

<sup>WLL: Working Load Limit (t).

\*1: The size including the projection of the side roller plate.

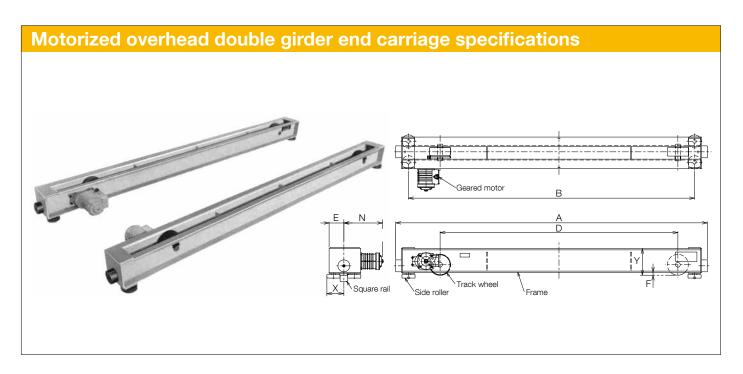
\*2: The size with the standard speed (s) geared motor.

When planning a girder or cart, contact your nearest Kito distributor.</sup> 



WLL	Max.	Tura		motor outp /60 Hz (m/m		Applicable traveling	Max. wheel	Recommended wheel	Wheel diameter			Dime	nsions	(mm)			Mass
(t)	span (m)	Туре	L	S	Н	rail (mm)	pressure (kN)	pressure (kN)	(mm)	Α	В	D	E*4	F	<b>N</b> *5	Υ	(kg/set)
			10/12	20/24	30/36	(11111)	(KIV)	,		, <b>,</b>				'	.,	•	
	9	CEO010-9	0.21/0.25	0.21/0.25	0.21/0.25	100.125.150	7.8	7.4	155	1586	1307	800	110		317	188	156
	12	CEO010-12								1696	1445	900		32			202
1	15	CEO010-15	0.34/0.4	0.34/0.4	0.34/0.4		14.7	13.9	175	2356	2105	1200		-	383	233	265
	18	CEO010-18															
	21	CEO010-21	0.63/0.75	0.63/0.75	0.63/0.75		33.3	25.0	220	2792	2499	1400	155	39	460	239	502
	9	CEO020-9	0.34/0.4	0.34/0.4	0.34/0.4		14.7	13.9	175	1696	1445	900	131	32	383	188	202
	12	CEO020-12	0.0 1/ 0. 1	0.0 1/ 0.1	0.0 1/ 0.1			10.0	110	1000	1110						
2	15	CEO020-15								2082	1761	1000					384
	18	CEO020-18								2422	2101	1200					398
	21	CEO020-21								2792	2499	1400					502
	9	CEO030-9			0.63/0.75												
	12	CEO030-12	0.63/0.75	0.63/0.75	0.00/0.70		33.3	25.0	220	2082	1761	1000	155		460		384
3	15	CEO030-15	0.00/0./0	0.00/0./0		150-175-200		20.0	220				100		100	239	
	18	CEO030-18								2422	2101	1200				200	398
	21	CEO030-21								2792	2499	1400					502
	9	CEO050-9								1852	1531	900		39			355
	12	CEO050-12								1002	1001	000					
5	15	CEO050-15					41.2	31.0	260	2402	2106	1200	153		559		543
	18	CEO050-18															
	21	CEO050-21			1.25/1.5					2821	2506	1400	184			279	665
	12	CEO075-12								2081	1766	900	177			239	525
7.5	18	CEO075-18	1.25/1.5	1.25/1.5			61.7	46.2	340	2421	2106	1200	184		553	279	627
	21	CEO075-21								2821	2506	1400				5	665
	12	CEO100-12								2081	1766	900	177			239	525
10	18	CEO100-18			1.25/1.5x2	200-250	81.3	60.0	440	2849	2509	1400	234	46	592	346	1027
	21	CEO100-21			20/ 1.0%												(1220)

<sup>\*</sup>WLL: Working Load Limit (t). •Weight in parentheses is for high speed (H). \*1: Contact your nearest Kito distributor for sizes other than listed above. \*2: Wheel pressure under the WLL beneath the end carriage with standard girder and maximum span to verify endurance of the structure. \*3: In case of regular use of more than 80% of WLL or frequent operation at a particular position, select an end carriage to make the wheel pressure the same as or less than the recommended wheel pressure. \*4: The size including the projection of the side roller plate. \*5: The size with the standard speed (s) geared motor. •When planning a girder or cart, contact your nearest Kito distributor. •Please ensure that you carry out proper earthing work using an earth wire. If you are using an earth brush (optional), please remove any paint or rust from the rails to ensure proper earthing.



WLL	Max.	_		motor outp /60 Hz (m/m		Applicable square	Max. wheel	Wheel			Di	mensio	ons (mr	m)			Mass
(t)	span (m)	Туре	L	S	Н	rail	pressure	diameter (mm)	Α	В	D	*1 E	F	N*2	Х	Υ	(kg/set)
	,		10/12	20/24	30/36	(mm)	(kN)	, ,	А	В	D	Е	Г	IN	^	Y	
	15	WEO030-15	0.21/0.25	0.21/0.25	0.34/0.4		31.4	175	2615	2400	1995	124		325			382
3	21	WEO030-21				□50			2845	2630	2195				143		449
	27	WEO030-27	0.34/0.4	0.34/0.4	0.63/0.75	30	44.1	210	3395	3180	2140	128		375	143	224	504
	15	WEO050-15							2845	2630	2195						449
5	21	WEO050-21							3095	2855	2390	134		444			554
	27	WEO050-27					73.5		3425	3185	2590		23.5				736
	15	WEO075-15			1.25/1.5		73.5	250	3098	0055	0005					274	686
7.5		WEO075-21	0.63/0.75	0.63/0.75	1.20/1.0	□55.□60			3098	2855	2395	138		445	162		080
	27	WEO075-27					79.4		3478	3235	2740	130		443		324	799
	15	WEO100-15					73.5		3098	2855	2395					274	686
10	21	WEO100-21					82.3	300	3288	3045	2540					324	828
	27	WEO100-27					100	350	3698	0.400	0040			529		328	1136
	15	WEO150-15					100	330	3090	3430	2840			529		320	1136
15	21	WEO150-21			1.25/1.5x2												
	27	WEO150-27	1.25/1.5	1.25/1.5	1.20/1.002	□55⋅□60⋅□65	131	400	4028	3760	3150	150	27.5	530	189		1448 (1588)
	15	WEO200-15														408	,
20	21	WEO200-21					162	450	4528	4060	2500			531			1945
	27	WEO200-27					102	400	4028	4260	3500			531			(2083)

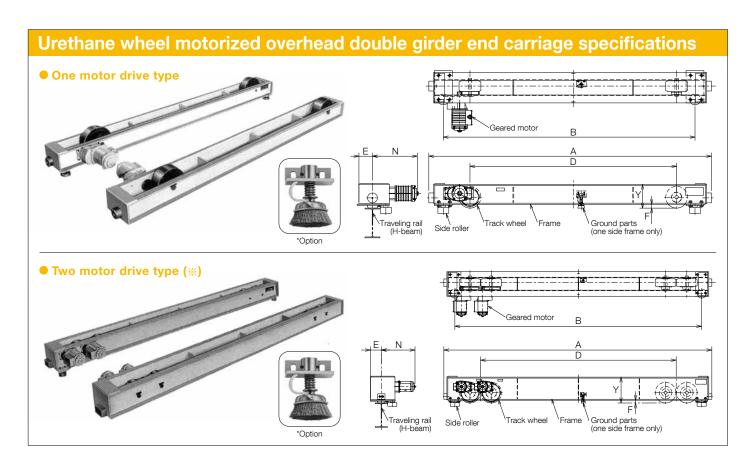
<sup>•</sup>WLL: Working Load Limit (t).

<sup>•</sup>Weights in parentheses are for high speed (H).

<sup>\*1:</sup> The size including the projection of the side roller plate.

<sup>\*2:</sup> The size with the standard speed (s) geared motor.

<sup>•</sup>When planning a girder or cart, contact your nearest Kito distributor.



WLL	Max.	Tura		g motor outp 0/60 Hz (m/n		Applicable square	Max.	Recommended wheel	Wheel diameter			Dimen	isions (	mm)			Mass
(t)	span (m)	Туре	L	S	Η	rail	pressure	pressure	(mm)	Α	В	D	*4 E	F	*5 <b>N</b>	Υ	(kg/set)
	` ,		10/12	20/24	30/36	(mm)	(kN)	(kN)	,	А	Ь	D		Г	IN	T	
	15	CWEO030-15	0.63/0.75	0.63/0.75			33.3	25.0	220	2851	2539	2085	155		459	239	524
3	21	CWEO030-21					41.2	31.0	260	3111	2796	2295	153		560	239	653
	27	CWEO030-27	1.25/1.5	1.25/1.5	1.25/1.5	150-175-200	43.1	32.3	300	3211	2896	2140	163		564	289	881
	15	CWEO050-15	1.20/1.0	1.23/1.3			41.2	31.0	260	3111	2796	2295	153	39	560	239	653
5	21	CWEO050-21					61.7	46.2	340	3091	2776	2230	177	39	553		930
	27	CWEO050-27	1.25/1.5x2	1.25/1.5x2	1.25/1.5x2	175-200	41.2	31.0	260x2	3771	3456	2700	149		559	289	1160
	15	CWEO075-15	1.25/1.5	1.25/1.5	1.25/1.5	150-175-200	61.7	46.2	340	3091	2776	2230	177		553	289	930
7.5	21	CWEO075-21					41.2	31.0	260x2	3771	3456	2700	149		559		1160
	27	CWEO075-27				475.000	43.1	32.3	300x2	4059	3701	2900	159	46	564	346	1438
	15	CWEO100-15				175-200	41.2	31.0	260x2	3771	3456	2700	149	39	559	289	1160
10	21	CWEO100-21	4.05/4.5.0	4.05/4.5:0	1.25/1.5x2		43.1	32.3	300x2	4059	3701	2900	159		564	346	1438
	27	CWEO100-27	1.25/1.5x2	1.25/1.5x2						4412	4063	3220				426	1672
	15	CWEO150-15				200-250	61.7	46.2	340x2	3992	3643	2790	180		554	346	1378
15	21	CWEO150-21								4412	4063	3220					1672
15	27	CWEO150-27			_					5172	4823	3800			593		2575
	27	CWEO150-27H	_	_	2.2x2					5292	4943	3840		46	709		2696
	15	CWEO200-15	1.25/1.5x2	1.25/1.5x2	_					4742	4393	3380		46	593		2214
	15	CWEO200-15H	_	_	2.2x2	050 000	04.0	60.0	440x2	4872	4523	3420	040		709	426	2332
00	21	CWEO200-21	1.25/1.5x2	1.25/1.5x2	1	250.300	81.3	60.0	440X2	5172	4823	3800	212		593		2575
20	21	CWEO200-21H	_	_	2.2x2					5292	4943	3840			709		2696
	27	CWEO200-27	1.25/1.5x2	1.25/1.5x2	-					5422	5073	4070			593		2944
	27	CWEO200-27H	_	_	2.2x2					5552	5203	4110			709		3067

<sup>•</sup>WLL: Working Load Limit (t).

<sup>\*1:</sup> Contact your nearest Kito distributor for sizes other than listed above.

<sup>\*2:</sup> Wheel pressure under the WLL beneath the end carriage with standard girder and maximum span to verify the endurance of the structure.

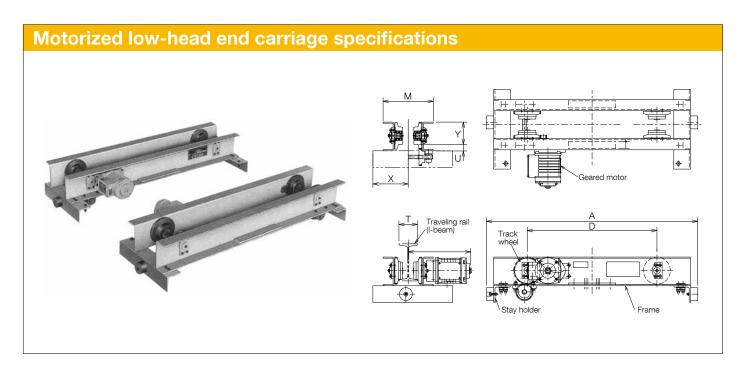
<sup>\*3:</sup> In case of regular use of more than 80% of WLL or frequent operation at a particular position, select an end carriage to make the wheel pressure the same as or less than the recommended wheel pressure.

\*4: The size including the projection of the side roller plate. \*5: The size with the standard speed (s) geared motor.

•When planning a girder or cart, contact your nearest Kito distributor.

•Please ensure that you carry out proper earthing work using an earth wire.

If you are using an earth brush (optional), please remove any paint or rust from the rails to ensure proper earthing.



WLL	Max.	Tues		ig motor ou 60/60 Hz (m	tput (kWx2) /min)	Applicable traveling	Max. wheel	Wheel			Dime	nsion	s (mm)			Mass
(t)	span (m)	Туре	L	S	Н	rail	pressure	diameter (mm)	Α	D	М	U	N *1	Х	Y*2	(kg/set)
	, ,		10/12	20/24	30/36	(mm)	(kN)	,	А	D	IVI	0	IN	Α	Y	
	6	EL010- 6							1140	700						132
1	9	EL010- 9	0.21/0.25	0.21/0.25	0.34/0.4(B) 0.21/0.25(E,Z)	75.100.125.150	4.51	95	1500	1060	T+171	34	288+T/2	241-T/2	121	150
	12	EL010-12							1840	1400						164
	15	EL030-15	0.34/0.4	0.34/0.4	0.63/0.75(B,Z) 0.34/0.4(E)	125.150	15.7	140	2200	1760	T+231	40	336+T/2		174	340
	6	EL020- 6							1140	700					138	152
2	9	EL020- 9	0.21/0.25	0.21/0.25	0.34/0.4(B) 0.21/0.25(E,Z)	100-125-150	9.31	110	1500	1060	T+191	36	288+T/2		138	172
_	12	EL020-12							1840	1400					165	202
	15	EL030-15	0.34/0.4	0.34/0.4	0.63/0.75(B,Z) 0.34/0.4(E)	125.150	15.7	140	2200	1760	T+231	40	336+T/2		174	340
	6	EL030- 6			0.34/0.4(B) 0.21/0.25(E,Z)		9.31	110	1140	700	T+191	36		281-T/2	165	160
3	9	EL030- 9	0.21/0.25	0.21/0.25	0.34/0.4	100-125-150	10.5	125	1840	1400	T+241	38	288+T/2		162	234
	12	EL030-12					10.5	120	1040	1400	17241	30			102	204
	15	EL030-15			0.63/0.75(B,Z) 0.34/0.4(E)				2200	1760	T+231					340
	6	EL050- 6	0.34/0.4	0.34/0.4	0.63/0.75		15.7	140	1500	1060	T+211	40	336+T/2		174	270
5	9	EL050- 9			0.63/0.75	125.150			1500	1060	1+211					270
J	12	EL050-12	0.63/0.75	0.63/0.75	0.63/0.75(E)		17.6	155	2200	1760	T+279	39	200 · T/0	290-T/2	201	432
	15	EL050-15	0.03/0.75	0.03/0.75	0.65/0.75(E)		17.0	100	2200	1760	1+279	39	399+1/2	290-1/2	201	432

<sup>•</sup>WLL: Working Load Limit (t).

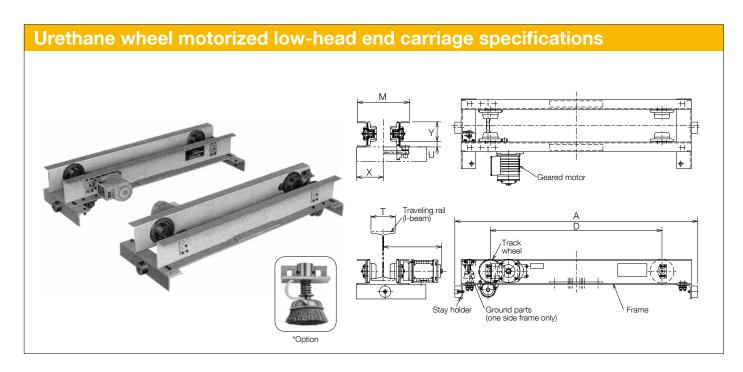
- •When planning a girder or cart, contact your nearest Kito distributor.
- •E: 200V/50Hz, 200-220V/60Hz
- •Z: 380-415V/50Hz, 440-460V/60Hz
- •B: 220V/50Hz, 208-230V/60Hz 380V/50Hz, 380-460V/60Hz

<sup>\*1:</sup> The size with the standard speed (s) geared motor.

<sup>\*2:</sup> The height from the track surface of the traveling rail to the top of the end carriage.

<sup>•</sup>To reinforce a connecting part of the rails with a plate on the rail web, make sure that the plate has a clearance for the end carriage. (Do not install the plate for 75 mm width rails or on the rail track.)

 $<sup>\</sup>bullet$ Use I-beam for the traveling rail. Traveling rail I-100x75x5 is not available.



WLL	Max.	Tuno		g motor outp 0/60 Hz (m/n		Applicable traveling	Max. wheel	Recommended wheel	Wheel diameter			Dimen	sions	s (mm)			Mass
(t)	span (m)	Туре	L	S	Н	rail	pressure	pressure	(mm)	_	D	М		N *3	_	*4	(kg/set)
	(m)		10/12	20/24	30/36	(mm)	(kN)	(kN)	,	A	U	IVI	U	IN	^	Ť	
1	9	CEL010-9	0.21/0.25	0.21/0.25	0.34/0.4(B) 0.21/0.25(E,Z)	125.150	3.8	3.6	95	1500	l		34	T/2+288	241-T/2	121	143
2	9	CEL020-9	0.34/0.4	0.34/0.4	0.63/0.75	120,120	6.7	6.3	125	1500	1060		35	T/2+336	281-T/2	165	231

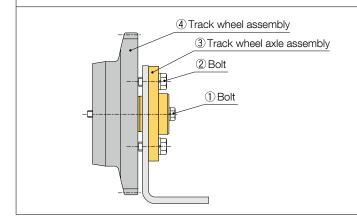
- •WLL: Working Load Limit (t).
- \*1: Wheel pressure under the WLL beneath the end carriage with standard girder and maximum span to verify the endurance of the structure.
- \*2: In case of regular use of more than 80% of WLL or frequent operation at a particular position, select an end carriage to make the wheel pressure the same as or less than the recommended wheel pressure.
- \*3: The size including the projection of the side roller plate.
- \*4: The size with the standard speed (s) geared motor.
- •To reinforce a connecting part of the rails with a plate on the rail web, make sure that the plate has a clearance for the end carriage. (Do not install the plate for 75 mm width rails or on the rail track.)

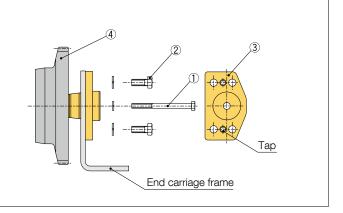
# •Use I-beam for the traveling rail.

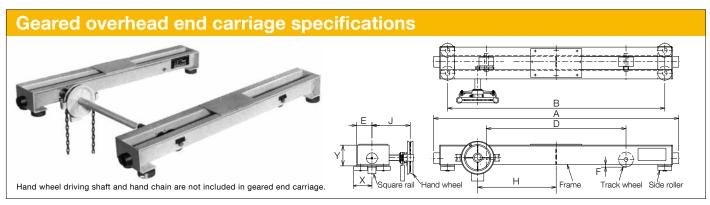
- •When planning a girder or cart, contact your nearest Kito distributor.
- •Please ensure that you carry out proper earthing work using an earth wire.
- If you are using an earth brush (optional), please remove any paint or rust from the rails to ensure proper earthing.
- •E: 200V/50Hz, 200-220V/60Hz
- •Z: 380-415V/50Hz, 440-460V/60Hz
- •B: 220V/50Hz, 208-230V/60Hz 380V/50Hz, 380-460V/60Hz

# Track wheel and track wheel axle construction

With respect to a low-head end carriage, both the track wheel and track wheel axle are designed for easy detaching, thus reducing installation and maintenance time.

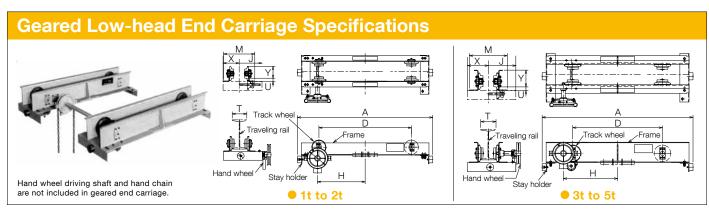






WLL	Max.	Time	Applicable square	Max. wheel	Wheel diameter				Dim	ensions (ı	mm)				Mass
(t)	span (m)	Туре	rail (mm)	pressure (kN)	(mm)	Α	В	D	E *1	F	Н	J	Х	Y *2	(kg/set)
4	9	GO010- 9		9.31	95				100		507	247		147	99
I	12	GO010-12	□32.□38		95				100		307	241	119	147	99
0	9	GO020- 9	□40.□45	17.0	125	1580			120	15.5	509		119	172	100
2	12	GO020-12		17.6	125	1360	1400	900	120	15.5	509	050		172	130
_	9	GO030-9	45. 50	20.6	140		1400	900	135		521	252	123	202	156
3	12	GO030-12	∐45·∐50	20.6	140				133		321		123	202	100
E	9	GO050-9	<b>□</b> 50	44.1	210	1590			119	18.5	561	257	143	205	224
5	12	GO050-12	□50	44.1	210	1590			119	10.0	1001	237	143	205	224

- •WLL: Working Load Limit (t).
  \*1: The size including the projection of the side roller plate.
- \*2: The height from the track surface of the traveling rail to the top of the end carriage.
- •When planning a girder or cart, contact your nearest Kito distributor.



WLL	Max.	Type	Applicable traveling	Max. wheel	Wheel diameter				Dimensio	ons (mm)				Mass
(t)	span (m)	туре	rail (mm)	pressure (kN)	(mm)	Α	D	Н	J	М	U	J	Y *1	(kg/set)
4	6	GL010- 6	75-100-125-150	4.5	95	1390	950	490		T+171	34	241-T/2	121	106
1	12	GL010-12	75-100-125-150	4.5	95	1840	1400	715	T/2+228	T+211	34		121	139
	6	GL020- 6				1480	1030	530	1/2+220	T+191			138	142
2	12	GL020-12	100-125-150	9.31	110	1840	1400	715		T+201	36	281-T/2	145	166
	6	GL030- 6	100-125-150			1480	880	531.3	T/2+221	T+221		201-1/2	165	162
3	12	GL030-12		10.78	125	1840	1400	599.2	T/2+222	T+231	38		177	202
	6	GL050- 6	105.150	15.7	140	1480	850	539	T/2+225	T+211	40		174	226
5	12	GL050-12	125.150	17.6	155	1840	1400	579	T/2+234	T+249	39	315-T/2	188	292

- •WLL: Working Load Limit (t).
- \*1: The height from the track surface of the traveling rail to the top of the end carriage.
- •To reinforce a connecting part of the rails with a plate on the rail web, make sure that the plate has a clearance for the end carriage. (Do not install the plate for 75mm width rails or on the rail track.)
- •Use I-beam for the traveling rail. Traveling rail I-100x75x5 is not available.
- •When planning a girder or cart, contact your nearest Kito distributor.

# Plain low-head end carriage specifications ● No side rollers for 0.5t (max. span 6m) and 1t (max. span 6m) Traveling rail Track wheel

WLL	Max.	an Type   traveling   wheel   dis						Mass					
(t)	span (m)	туре	rail (mm)	pressure (kN)	diameter (mm)	Α	В	D	М	U	Х	Υ *	(kg/set)
0.5	3	PL005-3	75·100	1.76	71	470		350	T+157	25		89	27
0.5	6	PL010-6	75 100 105	0.5	0.5	000	_	700	T 101	0.1	206-T/2	100	4.5
1	6	PL010-6	75·100·125	3.5	85	830		700	T+161	31		106	45

- •WLL: Working Load Limit (t).
- \*The hieght from the track surface of the traveling rail to the top of the end carriage.

  To reinforce a connecting part of the rails with a plate on the rail web, make sure that the plate has a clearance for the end carriage.

  (Do not install the plate for 75mm width rails or on the rail track.)
- •Use I-beam for the traveling rail except the size, 100x75x5.
  •When planning a girder or cart, contact your nearest Kito distributor.

# Plain low-head end carriage specifications Side rollers for 0.5 t and 1 t (max. span 6 m) Connecting plate В Frame Track wheel

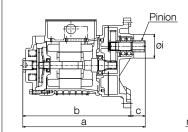
WLL	Max.	Time	Applicable traveling	Max. wheel	Wheel			Din	nensions (n	nm)			Mass
(t)	span (m)	Type	rail (mm)	pressure (kN)	diameter (mm)	А	В	D	М	J	Х	Υ *	(kg/set)
0.5	9	PL010-9	75 100 105	2.00	OF.	1150	1050	GEO.	T+174	06	212-T/2	OF.	71
1	9	PL010-9	75-100-125	3.92	95	1150	1050	650	1+1/4	26	212-1/2	95	/ 1

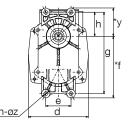
- •WLL: Working Load Limit (t).
  \*: The hieght from the track surface of the traveling rail to the top of the end carriage.
  •To reinforce a connecting part of the rails with a plate on the rail web, make sure that the plate has a clearance for the end carriage. (Do not install the plate for 75mm width rails or on the rail track.)
- •Use I-beam for the traveling rail except the size, 100x75x5.
- •When planning a girder or cart, contact your nearest Kito distributor.

# **Geared motor specifications**

## Dimensions







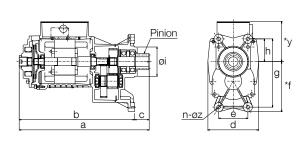
\*Flange thickness of the geared motor at the fixing holes (n-øz) are 18mm.

\*f and y show distances from pinion center to both ends.

	Motor	output		Dower	source						Dime	nsior	ns (m	m)						.,
Туре	(k\	N) .	Pole	rower	Source	á	<b>a</b>	٦	C		d		£	.,		ک	øi	•	~-	Mass (kg/set)
	50 Hz	60 Hz		Overhead	Low-head	Overhead	Low-head	b	Overhead	Low-head	u	е	'	У	g	h	ØI	n	ØZ	(1.9,001)
G1M□025L-□				B,E,Z	B,E,Z									67						
G1M□025S-□	0.21	0.25		□,⊏,∠	D,E,Z	290	281	256		25	142	60	146	82.2	100	57	56 <sub>-0.046</sub>			11
G1M□025H-□				Е	E,Z					25	142	00	140	67	193	57	30-0.046			
G1M□040T-□			4			300	291	266	34					75.2				4	9	15.5
G1M□040L-□	0.04	0.4	4	B,E,Z	B,E,Z									78				4	9	15
G1M□040S-□	0.34	0.4				335	330	301		00	150	70	101	92.6	04.5	00	740			14
G1M□040H-□				Е	Е					29	156	70	161	70	215	66	74-0.046			15
G1M□075T-□	0.63	0.75		B,E,Z	B,E,Z	346	341	312						78						17

●Brake: DC disk brake. ●Brake torque: from 0 to 50% (for 0.25kW:30 to 80%) of motor rated torque. ●Dust and water protection: IP55 (specified by I.E.C.)



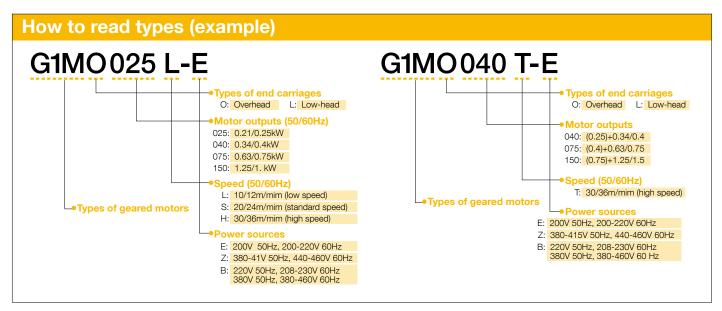


\*Flange thickness of the geared motor at the fixing holes (n-øz) are 17mm.

\*f and y show distances from pinion center to both ends.

	Motor	output		Power	source			Dimensions (mm)												
Туре	(k\	<b>N</b> )	Pole		300100		a	h	(		٦		ı	.,	~	h	øi	_	~-	Mass (kg/set)
	50 Hz	60 Hz		Overhead	Low-head	Overhead	Low-head	b	Overhead	Low-head	u	е	'	У	g	h	ØI	n	ØZ	(g, 001)
G1M□075L-□				B,E,Z	Е															
G1M□075S-□	0.63	0.75	4	□,⊑,∠	B,E,Z	400	393	355	45	38	156	90	154	122.6	210	70	90-0.054		11	26
G1M□075H-□				E,Z	Е				45	30		90	154		210	10	90-0.054	1	' '	
G1M0150T-				B,E,Z		433	426	388										4		36
G1M0150L-	1.05	4.5	4	Е							100			100.0						
G1M0150S-	1.25	1.5	4	B,E,Z	] -	484	_	419	65	_	190	110	177	132.6	242	80	115 <sup>0</sup> <sub>-0.054</sub>		13	45
G1M0150H-				E,Z																

●Brake: DC disk brake. ●Brake torque: from 0 to 50% of motor rated torque. ●Dust and water protection: IP55 (Specified by I.E.C.)



# ■ Specifications of geared motor pinions

			ţ		*M	lotor			Piı	nion		
Type		output W)		veling (m/min)		lutions	*Revo	olutions	•	Tooth surfa	ce strength	(kg)
туре	(	,	ороса	(,,	(r. <sub> </sub>	o.m)	(r. <sub>l</sub>	o.m)	Ove	rhead	Low	-head
	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
G1M□025L-□			10	12			155	181	158	134	105	90
G1M□025S-□	0.21	0.25	20	24	1410	1650	314	367	78	66	52	44
G1M□025H-□			30	96			463	541	53	45	35	30
G1M□040T-□	0.34	0.4	30	36	1430	1700	469	557	83	70	59	47
G1M□040L-□			10	12			132	156	247	208	165	139
G1M□040S-□	0.34	0.4	20	24	1430	1700	255	302	128	107	85	72
G1M□040H-□			30	00			382	453	86	72	57	48
G1M□075T-□	0.63	0.75	30	36	1415	1670	378	445	162	137	108	92
G1M□075L-□			10	12			77	91	527	446	323	255
G1M□075S-□	0.63	0.75	20	24	1415	1670	146	173	278	235	158	134
G1M□075H-□			00	00			224	253	182	160	104	92
G1M□150T-□	1.25	1.5	30	36	1440	1700	218	256	372	317	_	_
G1MO150L-□			10	12			65	77	1022	862		
G1MO150S-□	1.25	1.5	20	24	1440	1700	127	149	522	446	_	_
G1MO150H-□			30	36			192	227	345	292		

<sup>\*</sup>Figures in the table are approximate values.

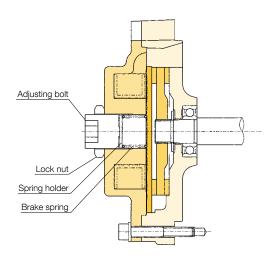
# **■** Details of pinions

	Motor output			Pinion	ı (mm)	
Туре	(kW) 50/60Hz	Pole	Module	Number of teeth	Addendum modification coefficient	Outside diameter
G1MO025□-□	0.21/0.25	4		8	0.452	27.1 -0.1
G1MO025□-□	0.21/0.25	4		12	0.294	36.5 -0.2
GTIVIOU25LI-LI	0.21:0.053/0.25:0.063	2/8	2.5	12	0.294	30.5 <sub>-0.2</sub>
G1MO040T-□	0.34/0.4	4		8	0.452	27.1 -0.1
G1ML040T-	0.34/0.4	4		12	0.294	36.5 -0.2
G1MO040□-□	0.34/0.4	4		8	0.460	32.8 -0.2
G1ML040□-□	0.54/0.4	4		12	0.294	43.8 -0.2
GTIVILU40	0.34:0.084/0.4:0.1	2/8	3	12	0.294	45.0 -0.2
G1MO075T-□	0.63/0.75	4		8	0.460	32.8 -0.2
G1ML075T-□	0.63/0.75	4		12	0.294	43.8 -0.2
G1MO075□-□	0.63/0.75	4	4.5	8	0.550	50 -0.2
G1ML075□-□	0.03/0.75	4	2	21	-0.04	68.8 -0.2
GTIVILO75	0.63:0.16/0.75:0.19	2/8	3	21	-0.04	UO.O <sub>-0.2</sub>
G1MO150T-□	1.25/1.5	4	4.5	8	0.550	50 -0.2

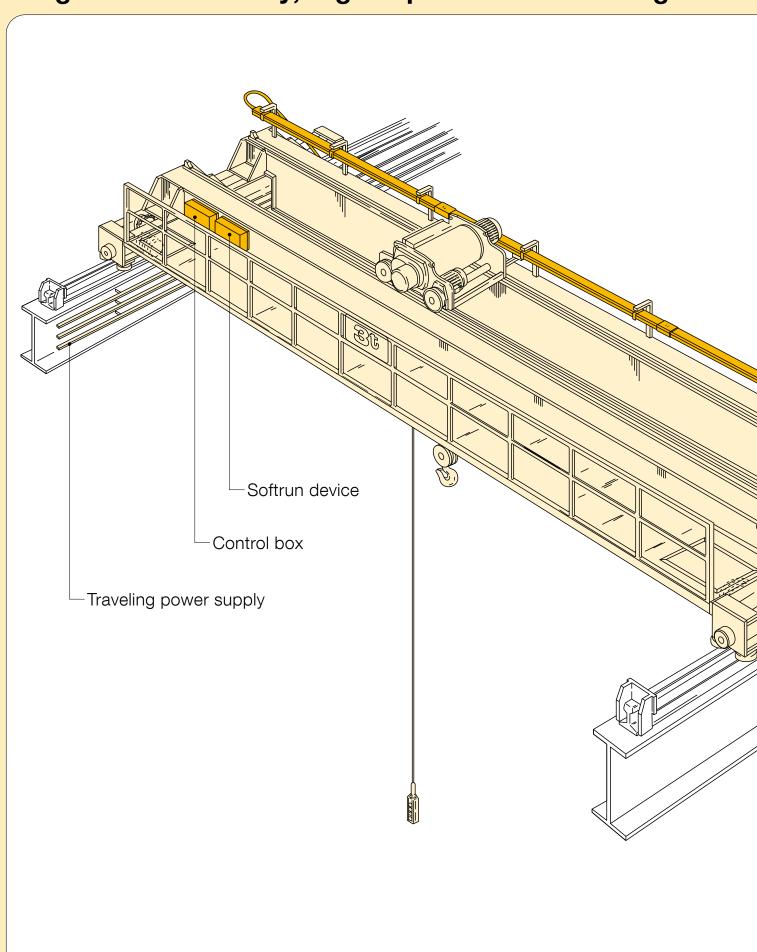
<sup>•</sup>Heat treatment: case hardened HRC: 57 to 63.

# **■** Brake torque adjustment

Torque can be adjusted within a range of 30 to 80% for a 0.25 kW motor and 0 to 50% for motors exceeding 0.4 kW of the rated torque by loosening the lock nut and setting the height of the adjusting bolt. Be sure to tighten the nut and fix the bolt after adjustment. Adjustment is the set-less type.



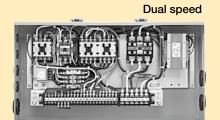
# Kito cranes can be fitted with peripheral equipment for greater durability, higher performance and greater



# operational efficiency.

# Traveling power supply

# **Control boxes**





# Single speed



# **Emergency stop device**



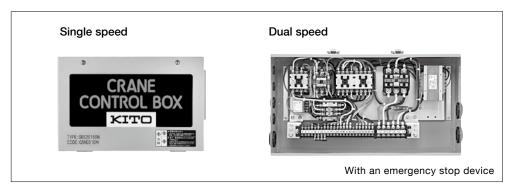
# **Softrun device (option)**

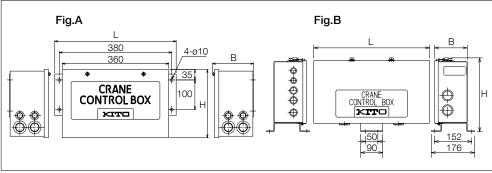


# **Control boxes**

# For electric chain hoist (ER2M)

This control box includes a built-in electromagnetic contactor and a transformer with control voltage of 24V. Other control voltages are available as an option. All models are equipped with an emergency stop device as standard.





	Туре	Geared motor output	Power supply	Pendant control	Rated	current	Outline	I	5	Mass		
	туре	Rated voltage	Fower suppry	voltage	Control box	Traveling	Outilile	Н	В	L	(kg/set)	
	SBE015SNH	~0.75kWx2	200V 50Hz		50A	11A					71/0	
	SBE015SNS	~U./5KVVX2	200~220V 60Hz		304	HA					7kg	
	SBE030SNH	~1.5kWx2	200V 50Hz		75A	18A	Fig.A					
Single	SBE030SNS	~1.5KVVXZ	200~220V 60Hz	AC24V	/5A	18A		230	140	410		
speed	SBE015SNX	~0.75kWx2	380V~415V 50Hz	AC24V			rig.A	230	140	410	8kg	
	SBE015SNS	~U./5KVVX2	440V 60Hz		50A	13A					org	
	SBE030SNX	~1.5kWx2 —	380V~415V 50Hz		30A	ISA						
	SBE030SNS		440V 60Hz									
Dual	SBE015SDNH	0.75141440	200V 50Hz	AC24V	404	11A	Eia D	200	133	470	111/0	
speed	SBE015SDNS	~0.75kWx2	200~220V 60Hz	AO24V	40A		Fig.B	300	133	470	11kg	

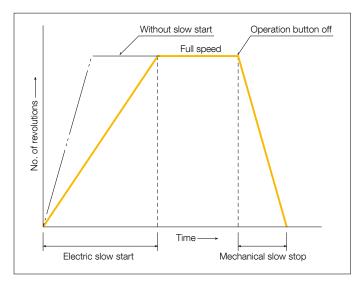
- •Models other than above control box is available as special specification. Please ask your Kito local partners.
  •Environment: ambient temperature: -20 to 40°C (no freezing) Installation site: Indoor, free of dust and corrosive gases.
- •Protection class: IP20
- •Color: single munsell 5Y7/1, dual munsell 6YR6/14

# Softrun device (option)

This device electrically controls motor speed which enables the crane to accelerate smoothly in travel and minimizes load swing at start-up.

It is highly suited for handling high inertia loads or operating long span cranes.

- Easily installed between the control box and geared motor.
   Wiring connections are simple.
- Applicable for all models of motorized end carriages.



# Power supply cables and accessories

# Power supply cable

No. of cond. x Cross-sectional area	3Cx2□	4Cx2□	4Cx3.5□	6Cx2□	8Cx2□	4Cx5.5□	4Cx8□	4Cx14□	4Cx22□	4Cx30□
Cable diameter	ø11	ø12.3	ø14.2	ø14.5	ø16.8	ø17.5	ø19.5	ø24	ø30	ø36
Part No.	CTC3Cx2	CTC4Cx2	CTC4C x 3.5	CTC6Cx2	CTC8C x 2	CTC4C x 5.5	CTC4Cx8	CTC4C x 14	CTC4C x 22	CTC4C x 30
Type		V	inyl powe		Rubber p	ower sup (2CT)	ply cable			

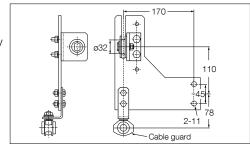
# Junction cable for electric chain hoist (ER2M) and rope hoist

Junction cable connecting the crane contral box to the electric chain hoist. It is used for the power supply and operation circuits.

No. of cond. x Cross-sectional area	7C composite cable (4C x 3.5□ + 3C x 0.75□)	9C composite cable (4C x 3.5□ + 5C x 0.75□)					
Cable diameter	ø17.9	ø18.0					
Part No.	CTC4C + 3C	CTC4C + 5C					
Туре	Vinyl power sup	oply cable (VCT)					

# Wire guide L

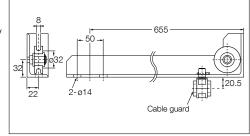
This guide is used to power the supply cable system (for low-head end carriage).



	Cal	ole size	
Type	Outer diameter	Wiresx cross- sectional area	Cable guard
WGL16	ø14.2	4C x 3.5□	CG16
WGL19	ø17.0 to ø19.0	4C x 5.5□ 4C x 8□	CG19

# Wire guide O

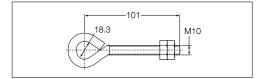
This guide is used to power the supply cable system (for both overhead and low-head types).



	Cal	ole size	
Туре	Outer diameter	Wiresx cross- sectional area	Cable guard
WGO16	ø14.2	4C x 3.5□	CG16
WGO19	ø17.0 to ø19.5	4C x 5.5□ 4C x 8□	CG19

# Wire bolt assembly

This bolt is used to fix messenger wires.



Туре	With ø4 to
WB	ø6 wire clip

# Allowable length (m) of power supply cable (200V)

<b>I</b> Α		Cros	ss-sec	tional	area (n	nm²)	
IA	2□	3.5□	5.5□	8□	14□	22□	38□
10	25	45	71	103			
15	17	30	47	69	121		
20	12	22	35	51	90		
25		18	28	41	72	114	
30			23	34	60	95	
35			20	29	51	81	111
40				25	45	71	97
45				23	40	63	86
50					36	57	77
60					30	47	64
70						40	55
80						35	48
90							43
100							38

## How to identify allowable power supply cable

●Internal wiring specification JEAC8001-1995 120-1 voltage drop

The voltage drop in low voltage lines is, as a rule, to be kept within 2% of the standard voltage of the trunk line and the branch circuit.

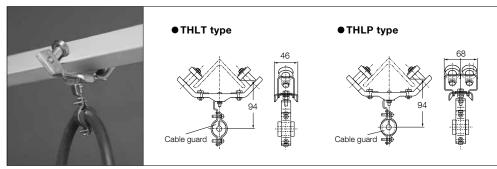
 $\begin{array}{c} \text{Allowable} \\ \text{length (m)} = \begin{array}{c} \frac{\text{Cross-sectional area}}{1000} \text{ x} & \frac{\text{rated voltagex0.02}}{\text{I A}} \end{array}$ 

I A: Electric chain hoist or rope hoist Rated current + Rated current of travel motor x 2

# **Cable hangers**

# **Angled hanger**

This hanger uses an angle steel to hang power supply cables. The THLP type is used to hang pushbutton cord.

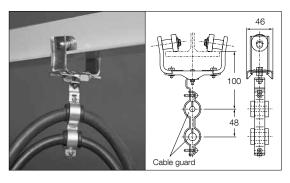


Туре	Angle steel width	Cable size		
THLT26S-75	L-50x50x6	ø10 to ø26		
THLP26S-75		01010020		

# T-type hanger for wire rope hoists

This hanger is used to hang power supply cables and is suited for all sizes of cable and rails.

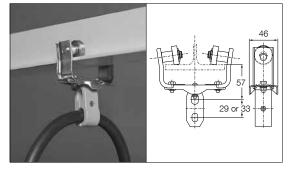
•Suited for hanging dynamic and operation cables for rope hoists.



Туре	Rail width	Cable Upper	e size Lower	
THI19W-100	76 to 152			
THI19W-175	127 to 178	ø10 to ø22		
THI26W-100	76 to 152	ø22.1 ø10		
THI26W-175	127 to 178	to ø26	to ø22	

# T-type hanger for electric chain hoist (ER2M)

This hanger is used to hang power supply cables. It is applicable for all sizes of cable and rail widths, and is suited for compound cables.

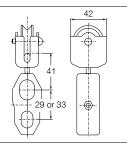


Туре	Rail width	Cable size			
TTH14S-100V	76 to 152	ø11 to ø13 or			
TTH14S-175V	127 to 178	ø13 to ø15			
TTH19S-100V	76 to 152	ø15 to ø17 or			
TTH19S-175V	127 to 178	ø18 to ø20			
TTH21S-100V	76 to 152	ø15 to ø17 or			
TTH21S-175V	127 to 178	ø20 to ø22			

# Cable hanger

This hanger is used to hang power supply cables with messenger wires.

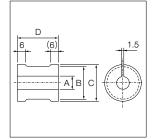




Type	Messenger wire	Cable size		
CH14S		ø11 to ø13 or ø13 to ø15		
CH17S	ø4 to ø6	ø17 to ø19 or ø18 to ø20		
CH19S	04 10 00	ø15 to ø17 or ø18 to ø20		
CH21S		ø15 to ø17 or ø20 to ø22		

# Cable guard

This guard is used to protect cables strung from T-type and angled hangers.



Туре	Cable size	øΑ	øΒ	øС	D
CG13	ø10 to ø13	10	25		
CG16	ø13.1 to ø16	13		00	
CG19	ø16.1 to ø19	16	26	28	32
CG22	ø19.1 to ø22	19			
CG26	ø22.1 to ø26	22	34	37	

# Crane girder allowable span

# Single rail (JIS)

Girder	Dimensions						wable span	able span (m)				
section	AxBxt1xt2	(kg/m)	500 kg	1.0 t	1.5 t	2.0 t	2.5 t	3.0 t	5.0 t	7.5 t	10 t	
	I-200 x 100 x 7 x 10	26	6.0	4.6								
		20	6.0	4.6								
	I-250 x 125 x 7.5 x 12.5	38.3	8.6	6.7	5.5	4.5	4.0					
			8.3	6.1								
	I-250 x 125 x 10 x 19	55.5	11.2	8.2	6.9	6.0	5.4	4.9				
	1 200 x 120 x 10 x 10	00.0	11.2	8.2	6.9	6.0	5.4	4.9				
	I-300 x 150 x 8 x 13	48.3	10.2	9.0	6.8	6.1	5.6	4.9				
		.0.0	10.0	7.6								
В	I-300 x 150 x 10 x 18.5	65.5	11.6 (11.2)	10.2	8.5	7.7	6.8	6.2	3.8			
		00.0	11.6 (11.2)	10.2	8.5	7.4	6.7	6.4	4.3			
<u>t₁</u>	I-300 x 150 x 11.5 x 22	76.8	11.6 (11.2)	11.2	9.4	8.2	7.5	6.9	5.4			
A			11.6 (11.2)	11.2	9.4	8.2	7.5	6.9	5.0			
t2	I-350 x 150 x 9 x 15	58.5	11.2	9.4	7.8	6.9	6.4	6.0	3.6			
I-beam			11.0	9.0	7.7							
	I-350 x 150 x 12 x 24	87.2	11.6 (11.2)	11.6 (11.2)	11.3 (11.2)	9.9	9.0	8.3	6.6	4.5		
			, ,	11.6 (11.2)	, ,	9.9	9.0	8.3	6.1	4.2	3.1	
	I-400 x 150 x 10 x 18	72	11.6 (11.2)	11.0	9.3	8.3	7.6	7.2	5.6			
			11.6 (11.2)	10.6	8.7	8.1	7.5	7.1	5.1			
	I-400 x 150 x 12.5 x 25	95.8	11.6 (11.2)	11.6 (11.2)			10.3	9.2	6.8	5.2	3.9	
				11.6 (11.2)	, ,	11.2	9.4	8.7	6.6	4.8	3.6	
	I-450 x 175 x 11 x 20	91.7	11.6 (11.2)	11.6 (11.2)	, ,	10.5	9.6	8.8	6.8	5.6		
				11.6 (11.2)		10.7	9.9	9.3	6.8			
	I-450 x 175 x 13 x 26	115	11.6 (11.2)	11.6 (11.2)	11.6 (11.2)			11.1	8.5	6.8	5.4	
	1 400 % 17 0 % 10 % 20	110				11.6 (11.2)	11.4 (11.2)	10.5	8.1	6.5	4.8	

: For Kito electric hoist.

: For Kito wire rope hoist.

<sup>•</sup>The above data is calculated according to the crane standard in japan: deflection=within 1/1000 x span. Allowable bending stress=within 1390kg/cm²

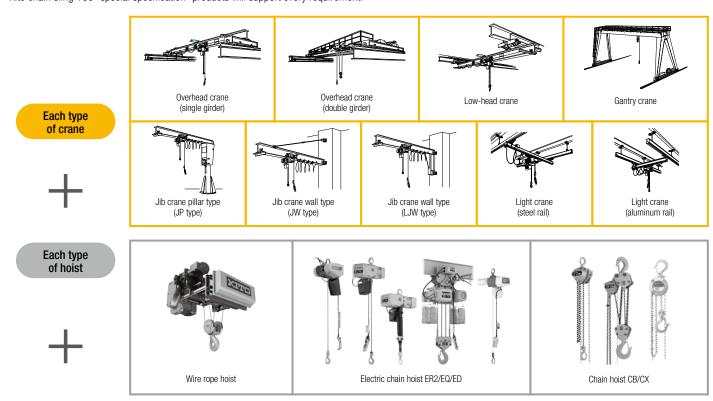
<sup>•</sup>A stop drawing for the girder available on request.

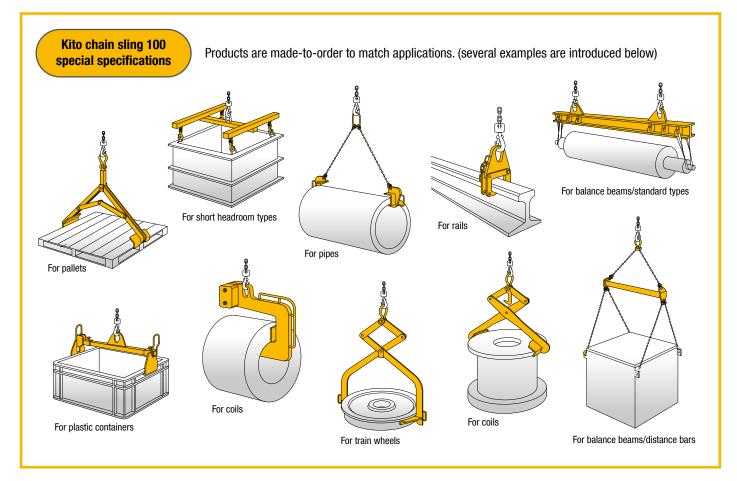
 $<sup>\</sup>bullet\mbox{The figures}$  in parentheses are data for low-head cranes.

Kito offers a variety of systems that are created by combining Kito chain sling 100 products with Kito's motorized and manual hoists and cranes. Special specifications are realized as made-to-order products.

# Reference examples of special specification systems

In the situation where you wish to transport unique work pieces with high efficiency using dedicated slings, Kito chain sling 100 "special specification" products will support every requirement.











#### Head office & factory

2000 Tsuijiarai Showa-Cho, Nakakoma-Gun, Yamanashi 409-3853, Japan TEL: +81-55-275-7521 FAX: +81-55-275-6162

## Tokyo head office

SHINJUKU NS Bldg. 9F, 2-4-1 Nishi-Shinjuku, Shinjuku-ku, Tokyo 163-0809, Japan TEL: +81-3-5908-0180 FAX: +81-3-5908-0189 kito.co.jp/en Kito global website: kitocrosby.com

## International Sales Subsidiaries

## U.S.A.

### Harrington

401 West End Avenue, Manheim, PA 17545, U.S.A. TEL: +1-717-665-2000 FAX: +1-717-665-2861 harringtonhoists.com

#### Peerless

1416 East Sanborn St. Winona, MN 55987, U.S.A. TEL: +1-800-873-1916 FAX: +1-800-356-1149 peerlesschain.com

## CANADA

### Kito Canada

309-3815 1st Ave., Burnaby, BC V5C 3V6, Canada TEL: +1-604-291-9955 FAX: +1-604-294-8855 kito.ca

## **BRAZIL**

## Kito Brazil

Unidades 37-38 do CLE - CENTRO LOGISTICO EMBU Rua José Semião Rodrigues Agostinho, 1370, Bairro Água Espraiada – Embu das Artes, SP, Brasil TEL: +55-11-3253-1000 FAX: +55-11-3253-1008 kito.com.br/

# **GERMANY**

## Kito Europe

Heerdter Lohweg 93, D-40549 Düsseldorf, Germany TEL: +49-211-528009-00 FAX: +49-211-528009-59 kito.net

## ITAI IA

## Kito Chain Italia

Via Giuseppe Verdi 11, 33018, Tarvisio (Ud), Italia TEL: +39-428-4171 FAX: +39-428-417301 kitochainitalia.com

## **FINLAND**

## Kito Erikkila

Masalantie 225, 02430, Masala, Finland TEL: +358-9-2219-0530 FAX: +358-9-297-5021 erikkila.com

## **NETHERLANDS**

# Kito Van Leusden

Parelhoenweg 2 NL - 4791 PA Klundert Harbour number M457 A The Netherlands TEL: +31-168-385-225 FAX: +31-168-385-230 vanleusden.com

# **AUSTRALIA**

## Kito PWB

441 Grimshaw Street, Bundoora, VIC 3083, Australia TEL: +61-1300-792-262 FAX: +61-3-9467-7290 kitopwb.com.au/

## **CHINA**

## Jiangyin Kito

18 Cheng Jiang East Road, Jiang Yin, Jiang Su 214429, China TEL: +86-510-86199700 FAX: +86-510-86196633 kaicheng.com

## Kito Shanghai

Room 11J, Zao-Fong Universe Building, No1800 ZhongShan West Road Shanghai 200235, China TEL: +86-21-54488935 FAX: +86-21-54488937 kito.com.cn

# **TAIWAN**

#### Kito Taiwan

12F-1, 128c sec. 3, Ming-Shen East Road, Taipei, Taiwan 10596 TEL: +886-2-2719-7616 FAX: +886-2-2719-6900 tw.kito.com

## **KOREA**

#### Kito Korea

3Dong 903, 15, Pangyo-Ro 228Beon-gil, Bundang-gu, Seongnam-si, Gyeoonggi-do, Korea 13487 TEL: +82-31-600-7450 FAX: +82-31-600-7469 kito.kr

## **THAILAND**

#### Siam Kito

205 M.2, T.Klongtumru, A.Muangchonburi, Chonburi 20000, Thailand TEL: +66-3819-5711 FAX: +66-3846-8195 siamkito.co.th

## INDIA

## Kito India

#118/2, 80 Feet Road, Jakkur Post, Yelahanka Hobli, Bengaluru - 560064, Karnataka, India TEL: +91-80-2950-3090 kito.co.in

## **INDONESIA**

## Kito Indonesia

JL. Kenari Raya Block G2-10A, Delta Silicon 5, Lippo Cikarang, Bekasi, Indonesia TEL: +62-21-2961-2150 FAX: +62-21-2961-2151 id kito com/id

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