



# 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 catalogue are metric (SI unit system)



# KITO CRANE APPLICATIONS

### [Overhead cranes]







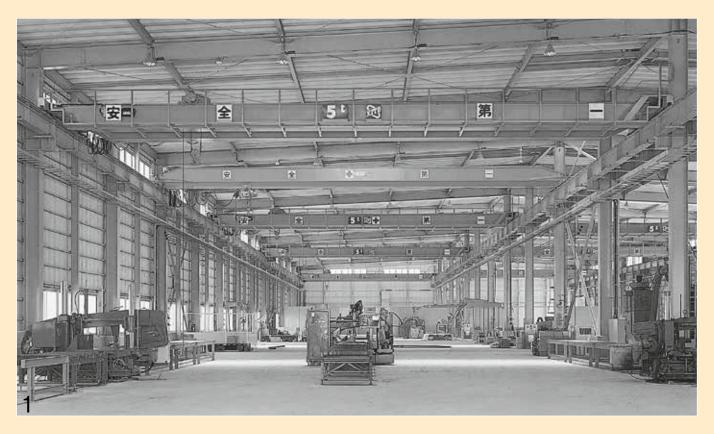


#### **Overhead cranes**

1: 30/10 t Double girder 2: 2.8 t Single girder 3: 20/2.8 t Double girder 4: 2.8 t Single girder

# KITO CRANE APPLICATIONS

### [Overhead cranes]



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



### [Low-head cranes]





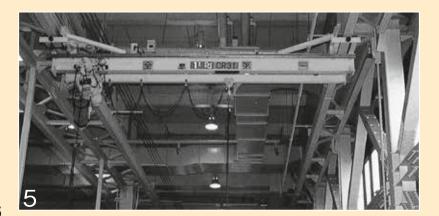


### **Low-head cranes**

3: 10 t Single girder

4: 1 t Single girder

5: 1 t Single girder



# **KITO CRANE APPLICATIONS**

### [Gantry cranes]





### **Gantry cranes**

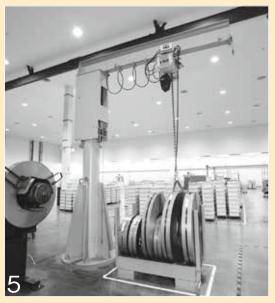
1: 20 t Gantry cranes 2: 5 t Single leg gentry crane 3: 2.8 t Gantry cranes



### [Jib cranes]











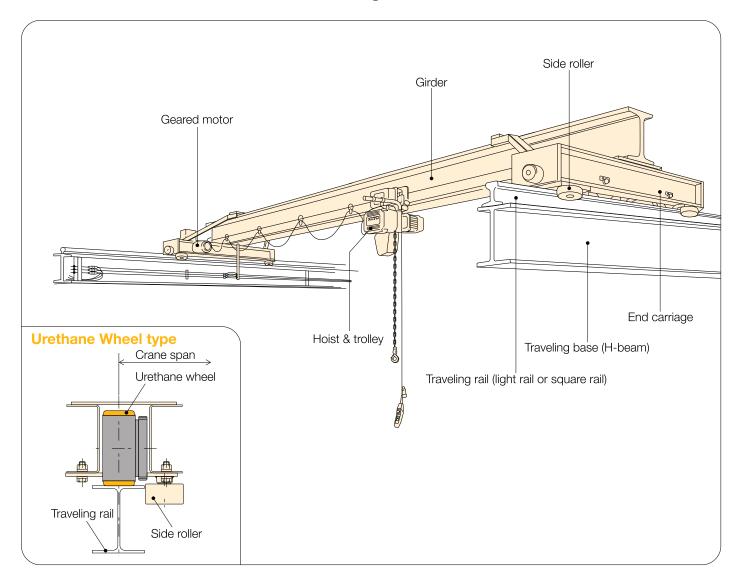




- 4: 6t Pillar mounted jib crane auto rotary
- 5: 2t Pillar mounted jib crane
- 6: 2t Pillar mounted jib cranes
- 7: 2t Wall mounted jib crane auto rotary
- 8: 13t Pillar mounted jib crane auto rotary
- 9: 2t Wall mounted jib crane auto rotary 10: 1.5t Wall mounted jib cranes - electric traveling



# **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.

A dual speed type crane is available for speed- controlled operations. 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.

#### **Dual speed crane**

This crane is capable of pendant button-controlled speed shift between low and high speed (reduction ratio of 4:1). It is suited for work requiring varied speed operation.

#### 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.

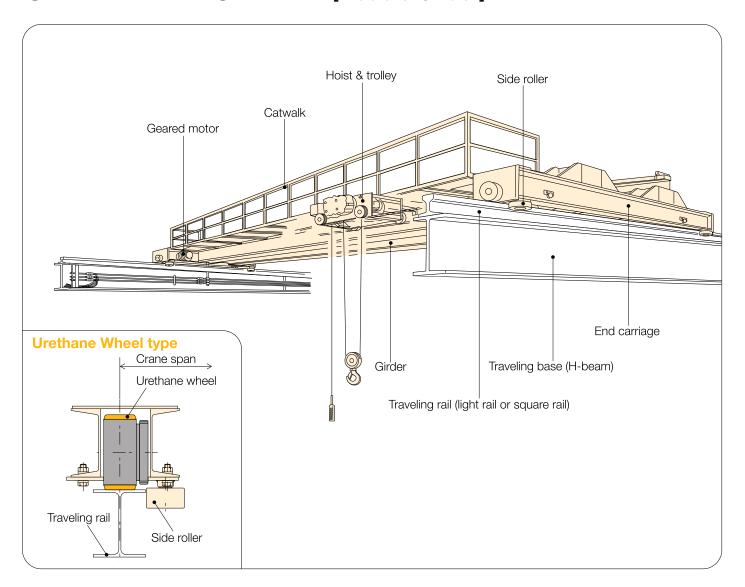
#### **Optional SOFTRUN device**

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.



# **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.

A dual speed type crane is available for speedcontrolled operations. 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.

#### **Dual speed crane**

This crane is capable of pendant button-controlled speed shift between low and high speed (reduction ratio of 4:1). It is suited for work requiring varied speed operation.

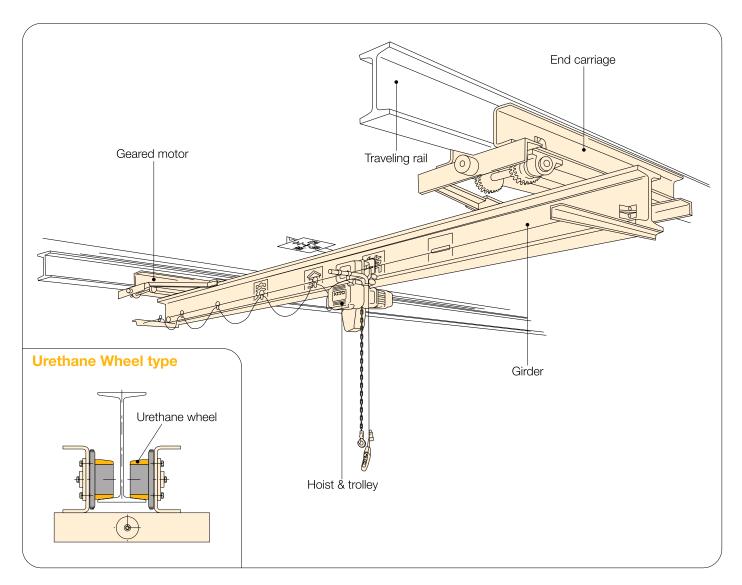
#### **Optional SOFTRUN device**

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 (Ibeam) 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.

A dual speed type crane is available for speedcontrolled operation. 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.

#### **Dual speed crane**

This crane is capable of pendant button-controlled speed shift between low and high speed (reduction ratio of 4:1). It is suited for work requiring varied speed operation.

#### 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.

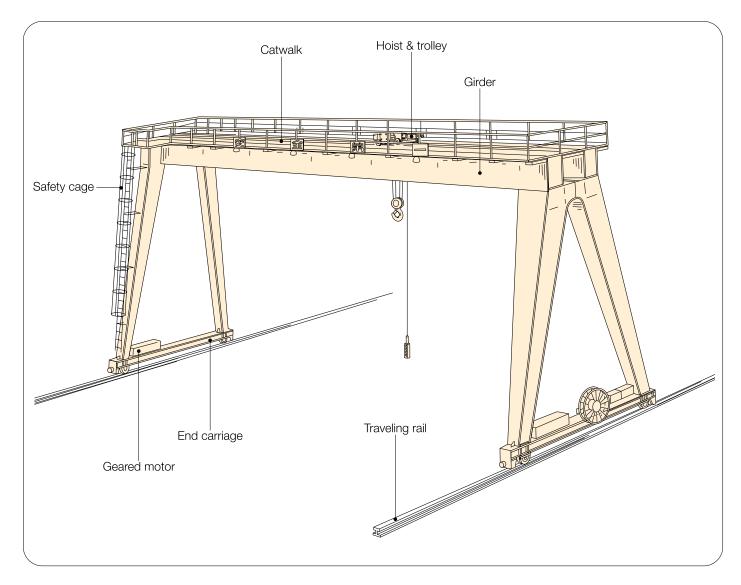
#### Manual plain type (Low-head only)

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**

W.L.L.: indicates the maximum mass (working load limit) for general use.
Traveling speeds are show on pages 18 to 23.

			W.L.L.	low on pages			Spa	n (m)				Dogo
	Туре		(t)	3	6	9	12	15	18	21	27	Page
			1			EO010-9	EO010-12		EO010-18	EO010-21		
	7	2	2			EO020-9	EO020-12		EO020-18	EO020-21		
	ק מ	100	3			EO030-9	EO030-12		EO030-18	EO030-21		18
۱۵	Overhead	ָם ^	5			EO050-9	EO050-12		EO050-18	EO050-21		
rize	C	)	7.5				EO075-12		EO075-18	EO075-21		
Motorized			10				EO100-12		EO100-18	EO100-21		
≥	7	10 10	1		EL010-6	EL010-9	EL010-12	EL010-15				
	bead-wo	100	2		EL020-6	EL020-9	EL020-12	EL020-15				22
	ځ	<b>\</b>	3		EL030-6	EL030-9	EL030-12	EL030-15				
		<u> </u>	5		EL050-6	EL050-9	EL050-12	EL050-15				
υ			1			CEO010-9	CEO010-12	CEO010-15	CEO010-18	CEO010-21		
Ŋ	ב	2	2			CEO020-9	CEO020-12	CEO020-15	CEO020-18	CEO020-21		
<u>  -</u>	9	100	3			CEO030-9	CEO030-12	CEO030-15	CEO030-18	CEO030-21		19
Vhe	Overhead	ָם ^	5			CEO050-9	CEO050-12	CEO050-15	CEO050-18	CEO050-21		] 19
e	C	)	7.5				CEO075-12		CEO075-18	CEO075-21		
har			10				CEO100-12		CEO100-18	CEO100-21		
Urethane Wheel Type	Low-	ad	1			CEL010-9						23
	<u> </u>	he	2			CEL020-9						20
			3					WEO030-15		WEO030-21	WEO030-27	
	כ	ם ב	5					WEO050-15		WEO050-21	WEO050-27	
	Overhead	100	7.5					WEO075-15		WEO075-21	WEO075-27	20
_	2	ָם 2	10					WEO100-15		WEO100-21	WEO100-27	
rde	C	)	15					WEO150-15		WEO150-21	WEO150-27	
Ö			20					WEO200-15		WEO200-21	WEO200-27	
ouble Girder	Φ		3					CWEO030-15		CWEO030-21	CWEO030-27	
Dol	Vheel		5					CWEO050-15		CWEO050-21	CWEO050-27	
	Urethane Wr	be	7.5					CWEO075-15		CWEO075-21	CWEO075-27	21
	han	Ţ	10					CWEO100-15		CWEO100-21	CWEO100-27	
	ret		15					CWEO150-15		CWEO150-21	CWEO150-27	
			20					CWEO200-15		CWEO200-21	CWEO200-27	
	<u>م</u>	~	1			GO010-9	GO010-12					
	Overhead	Geared	2			GO020-9	GO020-12					24
d)	\ Ver	Ge	3			GO030-9	GO030-12					
Ŋ	0		5			GO050-9	GO050-12					
Manual Type		Plain	0.5	PL005-3	PL005-6	PL005-9						25
anr	g	₫	1		PL010-6	PL010-9						
Σ	Low-head	-	1		GL010-6		GL010-12					
	-WO	arec	2		GL020-6		GL020-12					24
	<u> </u>	Geared	3		GL030-6		GL030-12					
			5		GL050-6		GL050-12					

Optional SOFTRUN is recommended for

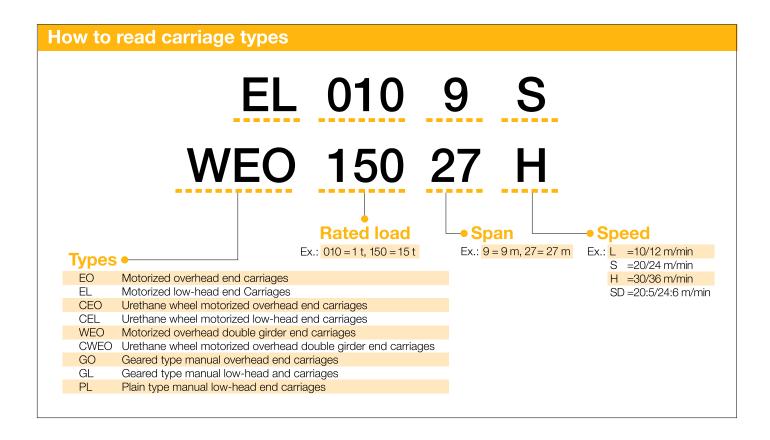
• W.L.L.: Working Load Limit (t).

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 (0.5 t span 3 m and 1 t span 6 m) and side rollers (1 t span 9 m).
Manual geared type end carriage	Pulling the hand chain makes both wheels move at the same time for balanced smooth traveling.



### **GEARED MOTOR CAPACITY**

	Tuno	W.L.L.				Spa	n (m)			
	Туре	(t)	3	6	9	12	15	18	21	27
		1	G1MO025	]-[]			G1MO025 -		G1MO025	
	70	2	G1MO025	]-[]			G1MO025 -		G1MO040T-	
	леас	3	G1MO025 G1MO040T-	]- [] - []			G1MO025			
70	Overhead	5	G1MO025 G1MO040T-	] 		G1MO040				
Motorized	0	7.5	G1MO075 G1MO150T-	] 			G1MO075 -		G1MO075	
loto		10					G1MO150T-		G1M150T-	
2	-	1	G1ML025□	]-□	G1ML025□-□	G1ML025□-□	G1ML040			
	леас	2	G1ML025□	]-[	G1ML025□-□	G1ML025□-□		Availa	able on	
	Low-head	3	G1ML025□	]-[]	G1ML025 G1ML040T-				request	
	Γ	5	G1ML040□ G1ML075T-	] 		G1ML075□-				
		1	G1MO025	]			G1MO040 = -		G1MO075	
be	70	2	G1MO040	]-□		•		G1MO075		
€   <del> </del>	head	3	G1MO075	]-□			-			
Urethane Wheel Type	Overhead	5	G1MO075 G1MO150T-	] 			G1MO150□-		G1MO150	
ne V	O	7.5	G1MO150	]-[]			G1MO150 -			
etha		10					G1MO150 = - G1MO150 = -			
ž	Low- head	1	G1ML025□	]-□			Availa	ble on		
	ey Pe	2	G1ML040 G1ML075T-	] <b>-</b> ·			your r	equest		
		3	G1MO025 G1MO040T-	] 						G1MO040 G1MO075T-
	70	5	G1MO040 G1MO075T-					G1MO075 G1MO150T-		G1MO075 G1MO150T-
	head	7.5	G1MO075	]-[]						G1MO075 G1MO150T-
	Overt	10	G1MO150T-	-				G1MO075		G1MO150
der	0	15	G1MO150	]-[]						
Gir		20	G1MO150 G1MO150	]-□×2				G1MO150 = - G1MO150 = -	□ □×2	
Double Girder	_	3	G1MO075 G1MO150T-	]-  -  -						G1MO150
D0	hee	5	G1MO150	]-[]						
	ane W Type	7.5	G1MO150	]-[]						
	Urethane Wheel Type	10	G1MO150	]-□×2				G1MO150□-	_x2	
	Urei	15	G1MO150	]-□×2				G1MO150□-	□×2	
		20	G1MO150□	]-□×2 <sub>*</sub>				G1MO150□-	□×2 <sub>*</sub>	G1MO150□-□×2

<sup>• 1.5</sup> kWx2 means 2 geared motors are used on 1 end carriage (on side): 4 driving motor type.

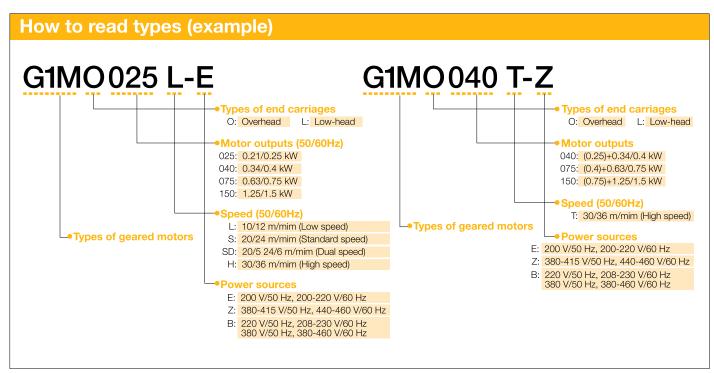
<sup>•</sup> For dual listings, models on the upper line are the low, standard and dual speeds end carriages, whereas models on the lower line are the high speed end carriages. Single listings show the low, standard, high and dual speed end carriages.

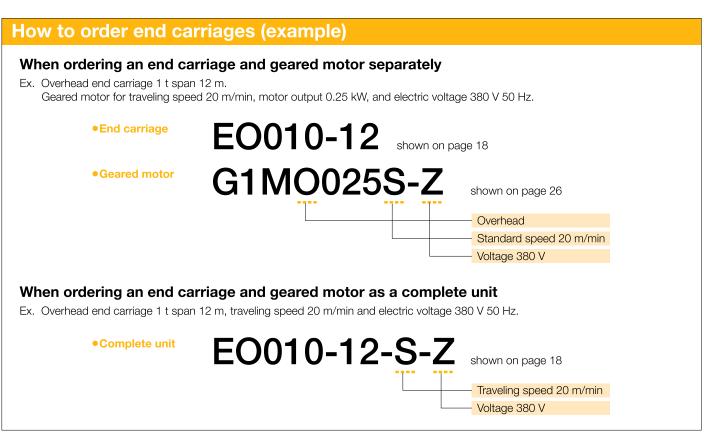
 <sup>\*</sup>Available on request ( 2.2 kWx2 for 30/36 m/min. speed).

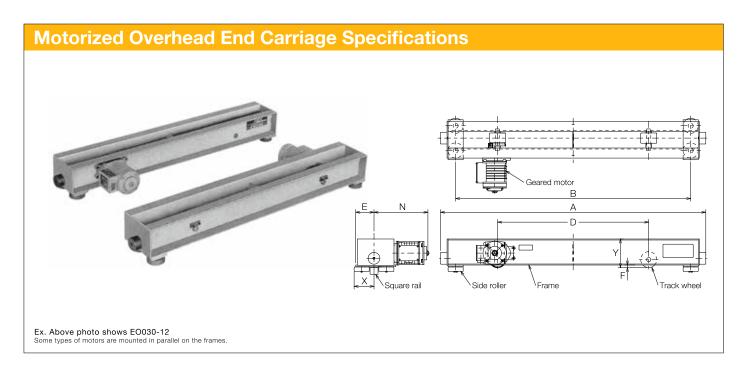
<sup>•</sup> W.L.L.: Working Load Limit (t).

#### Features of geared motors

- KITO cranes employ a geared motor with an electromagnetic brake. Brake torque is adjustable from 0 to 50% (for 0.25 kW: 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 30/36 m/min 50/60 Hz) types and one dual speed (20/5 24/6 m/min 50/60 Hz) type (reduction ratio of 4:1) and they make work more efficient.







W.L.L.	Max.	Tura	Trave	eling mot 50/60 I	or outpu Hz (m/mi		Applicable square	Max. wheel	Wheel diameter			Di	mensio	ons (mr	m)			Mass
(t)	span (m)	Туре	L	S	Н	SD	rail (mm)	pressure (kN)	(mm)	Α	В	D	*1 E	F	N*2	Х	Υ	(kg/set)
			10/12	20/24	30/36	20:5/24:6	(11111)	(1414)		, ,	_	_		·		,,	·	
	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	0.01	00	1000	1100	000	100	10.0	021	119		102
	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	1360	1400	900	114		325	119	170	140
	18	EO020-18	0.21/0.25	0.21/0.25		0.21:0.053/ 0.25:0.063				2280	2100	1200	124	20.5			221	212
	21	EO020-21						31.4	175	2691	2505	1400	144	20.5	326		221	380
	9	EO030- 9						20.6	140	1500	1400	000	111				176	150
3	12	☆EO030-12			0.34/0.4		□45.□50	20.6	140	1580	1400	900	114		325	123	176	150
3	18	EO030-18						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						31.4	175	1490	1300	800	124		323			197
5	12	EO050-12					□50			2296	2100	1200	138			143	224	374
3	18	EO050-18	0.34/0.4	0.34/0.4	0.63/0.75	0.34:0.084/ 0.4:0.1		44.1	210	2290	2100	1200	130		376	143		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	200	2345	2105	1200	163	23.5			264	586
	21	EO075-21	0.63/0.75	0.63/0.75	1.25/1.5	0.63:0.16/	□55·□60	7 9.4	300	2745	2505	1400	183		445	162	324	724
	12	☆EO100-12	0.00/0.75	0.00/0.70	1.23/1.3	0.75:0.19		73.5	250	1645	1405	900	138		445	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

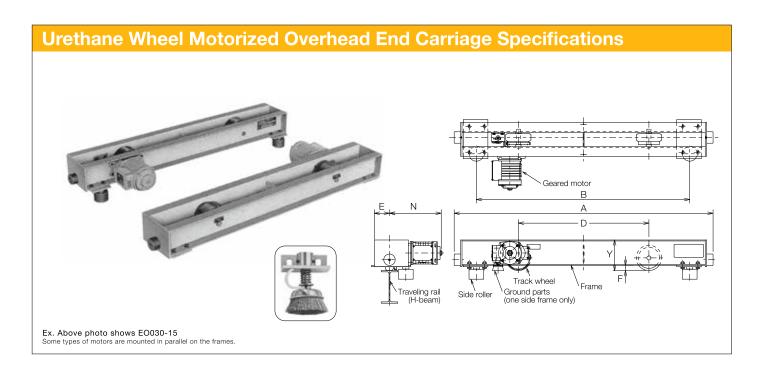
<sup>•</sup>W.L.L.: Working Load Limit (t).

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

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

☆: Geared motors installed in diagonal positions as shown in the above photo.

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



W.L.L.	Max.	T	Trave		or outpu Hz (m/mi		Applicable traveling	Max. wheel	Recommended wheel	Wheel			Dime	nsions	(mm)			Mass
(t)	span (m)	Туре	L	S	Н	SD	rail (mm)	pressure (kN)	pressure (kN)	diameter (mm)	Α	В	D	E*4	F	<b>N</b> *5	Υ	(kg/set)
			10/12	20/24		20:5/24:6	()	. ,				_					•	
	9	☆CEO010-9	0.21/0.25	0.21/0.25	0.21/0.25	0.21:0.053/ 0.25:0.063	100-125-150	7.8	7.4	155	1586		800	110		317	188	156
	12	☆CEO010-12				0.04.0.004/					1696	1445	900		32			202
1	15	CEO010-15	0.34/0.4	0.34/0.4	0.34/0.4	0.34:0.084/ 0.4:0.1		14.7	13.9	175	2356	2105	1200			383	233	265
	18	CEO010-18				0.63:0.16/												
	21	CEO010-21	0.63/0.75	0.63/0.75	0.63/0.75	0.75:0.19		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	0.34:0.084/		14.7	13.9	175	1696	1445	900	131	32	383	188	202
	12	☆CEO020-12				0.4.0.1												
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		0.63:0.16/ 0.75:0.19		33.3	25.0	220	2082	1761	1000	155		460		384
3	15	CEO030-15				0.75.0.19	150-175-200										239	
	18	CEO030-18									2422	2101	1200					398
	21	CEO030-21									2792	2499	1400					502
	9	CEO050-9									1852	1531	900		39			355
	12	☆CEO050-12									, , , ,							
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					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/ 1.002		200 200	01.0	00.0	110			. 100			302	3.0	(1220)

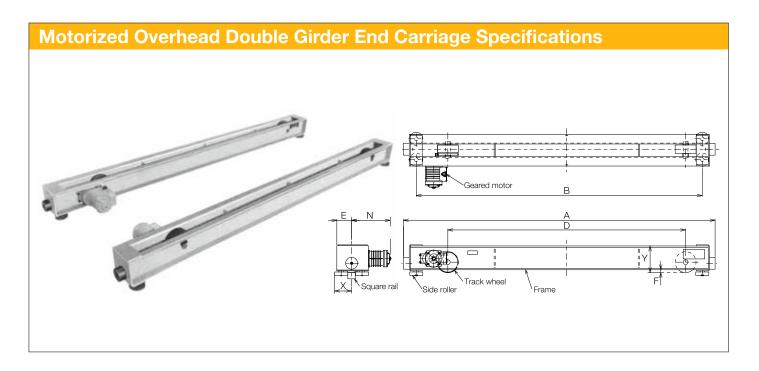
<sup>•</sup>W.L.L.: Working Load Limit (t). •Weight in parentheses is for high speed (H). \*1: Contact your nearest Kito distributor for sizes other than listed above.

<sup>\*2:</sup> Wheel pressure under the W.L.L. 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 W.L.L. 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.

\$\display:\$ Geared motors installed in diagonal positions as shown in the above photo. •When planning a girder or cart, contact your nearest Kito distributor.



W.L.L.	Max.	_	Trav	eling mo 50/60	otor outpu Hz (m/m	ut (kWx2) in)	Applicable square	Max. wheel	Wheel			Di	mensio	ons (mi	n)			Mass
(t)	span (m)	Туре	L	S	Н	SD	rail	pressure (kN)	diameter (mm)	Α	В	D	Ě <sup>1</sup>	F	<b>N</b> *2	Х	Υ	(kg/set)
			10/12	20/24	30/36	20:5/24:6	()	(1.1.4)			_						·	
	15	WEO030-15	0.21/0.25	0.21/0.25	0.34/0.4	0.21:0.053/ 0.25:0.063		31.4	175	2615	2400	1995	124		325			382
3	21	WEO030-21								2845	2630	2195				143		449
	27	WEO030-27	0.34/0.4	0.34/0.4	0.63/0.75	0.34:0.084/ 0.4:0.1	□50	44.1	210	3395	3180	2140	128		375	143	224	504
	15	WEO050-21								2845	2630	2195						449
5	21	WEO050-21								3095	2855	2390	134		444			554
	27	WEO050-27						70.5		3425	3185	2590		23.5				736
	15	WEO075-15			1,25/1,5			73.5	250	0000	0055	0005					274	000
7.5	21	WEO075-21	0.63/0.75	0.63/0.75	1.25/1.5	0.63:0.16/ 0.75:0.19	□55-□60			3098	2855	2395	138		445	162		686
	27	WEO075-27						79.4		3478	3235	2740	138		445		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	3430	2840			529		328	1136
	15	WEO100-15						100	330	3090	3430	2040			529		320	1130
15	21	WEO150-21			1.25/1.5x2													
	27	WEO150-27	1.25/1.5	1.25/1.5	1.20/1.082	_	□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	4260	3500			531			1945
	27	WEO200-27						102	450	4028	4200	3300			551			(2083)

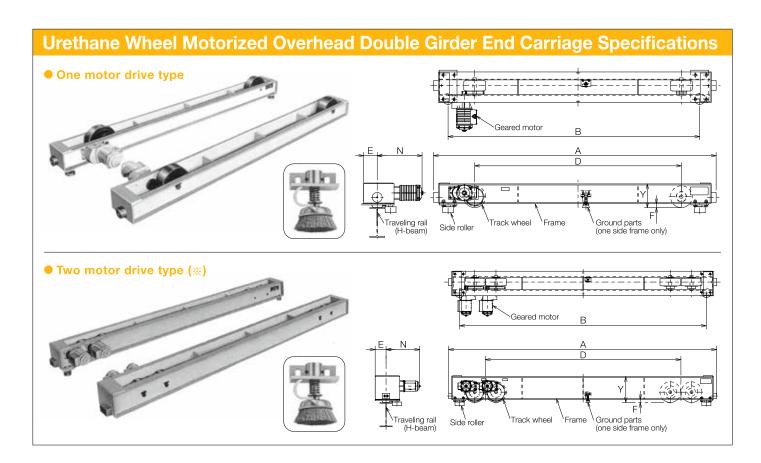
<sup>•</sup>W.L.L.: Working Load Limit (t).

<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.



W.L.L.	Max.	Timo	Trave	eling mot 50/60 H	or outpu Iz (m/mi		Applicable square	Max. wheel	Recommended wheel	Wheel diameter			Dimen	ısions (	mm)			Mass
(t)	span (m)	Туре	L	S	Н	SD	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	20:5/24:6	(111111)	(KIN)	(KIV)		^	В			'	IN	'	
	15	CWEO030-15	0.63/0.75	0.63/0.75		0.63:0.16/ 0.75:0.19		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	200	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	1.23/1.3	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	209	930
7.5	21	CWEO075-21						41.2	31.0	260x2	3771	3456	2700	149		559		1160
	27	CWEO075-27					175-200	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			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
4.5	21	CWEO150-21									4412	4063	3220					1672
15	27	CWEO150-27			-						5172	4823	3800			593		2575
	27	CWEO150-27H	-	_	2.2x2						5292	4943	3840		40	709		2696
	15	CWEO200-15	1.25/1.5x2	1.25/1.5x2	ı						4742	4393	3380		46	593		2214
	15	CWEO200-15H	_	_	2.2x2		050.000	0.1.0	00.0		4872	4523	3420	0.10		709	426	2332
00	21	CWEO200-21	1.25/1.5x2	1.25/1.5x2	_		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>W.L.L.: Working Load Limit (t).

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

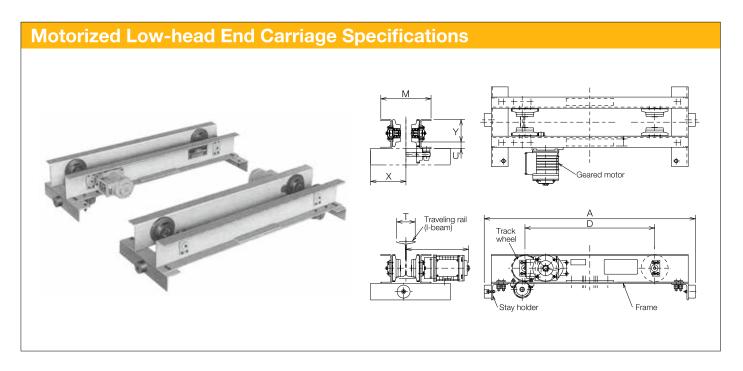
<sup>\*2:</sup> Wheel pressure under the W.L.L. beneath the end carriage with standard girder and maximum span to verify the endurance of the structure.

<sup>\*3:</sup> In case of regular use of more than 80% of W.L.L. 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.

<sup>\*4:</sup> The size including the projection of the side roller plate.

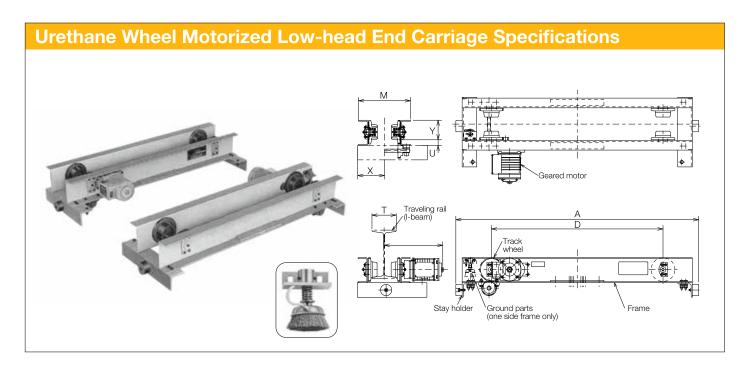
<sup>\*5:</sup> The size with the standard speed (s) geared motor.

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



W.L.L.	Max.	T	Tra		notor output ( 0 Hz (m/min)		Applicable traveling	Max. wheel	Wheel			Dime	nsion	s (mm)			Mass
(t)	span (m)	Type	L	S	Н	SD	rail (mm)	pressure (kN)	diameter (mm)	Α	D	М	U	N *1	x	Y*2	(kg/set)
			10/12	20/24	30/36	20:5/24:6	(11111)	(1014)		, ,	_				, ,	·	
	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)	0.21:0.053/ 0.25:0.063	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)	0.34:0.084/ 0.4:0.1	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)	0.21:0.053/ 0.25:0.063	100-125-150	9.31	110	1500	1060	T+191	36	288+T/2		130	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)	0.34:0.084/ 0.4:0.1	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	0.21:0.053/ 0.25:0.063	100-125-150	10.5	125	1840	1400	T+241	38	288+T/2		162	234
	12	EL030-12			0.34/0.4			10.5	120	1040	1400	1+241	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	0.34:0.084/ 0.4:0.1		15.7	140	1500	1060	T+211	40	336+T/2		174	270
5	9	EL050- 9			0.03/0.73		125.150			1000	1000	1+411					210
	12	EL050-12	0.60/0.75	0.60/0.75	0.63/0.75/5	0.63:0.16/		17.6	155	2200	1760	T+279	39	200 T/2	290-T/2	201	432
	15	EL050-15	0.03/0.75	0.63/0.75	0.63/0.75(E)	0.75:0.19(E,Z)		17.0	100	2200	1700	1+219	39	099+1/2	290-1/2	201	402

- •W.L.L.: Working Load Limit (t).
- \*1: The size with the standard speed (s) geared motor.
- \*2: 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 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.
- •E: 200V/50Hz, 200-220V/60Hz
- •Z: 380-415V/50Hz, 440-460V/60Hz
- •B: 220V/50Hz, 208-230V/60Hz 380V/50Hz, 380-460V/60Hz



W.L.L	Max.	Timo	Tra		otor output ( 0 Hz (m/min)		Applicable traveling	Max. wheel	Recommended wheel	vvneei			Dimer	sions	s (mm)			Mass
(t)	span (m)	Туре	L	S	Н	SD	rail	pressure	pressure	diameter (mm)	۸	7	М	U	N*3	V	*4	(kg/set)
		10/12	20/24	30/36	20:5/24:6	(mm)	(kN)	(kN)	,	Α	ם	IVI	U	IN	^	ř		
1	9	CEL010-9	0.21/0.25	0.21/0.25	0.34/0.4(B) 0.21/0.25(E,Z)	0.21:0.053/ 0.25:0.063	105.150	3.8	3.6	95	1500		T+171	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	0.34:0.084/ 0.4:0.1	125.150	6.7	6.3	125	1500	1060	T+211	35	T/2+336	281-T/2	165	231

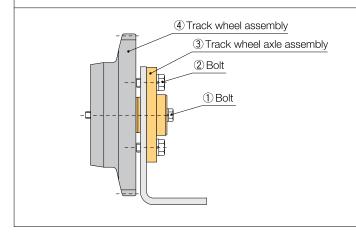
- •W.L.L.: Working Load Limit (t).
- \*1: Wheel pressure under the W.L.L. beneath the end carriage with standard girder and maximum span to verify the endurance of the structure.
- \*2: In case of regular use of more than 80% of W.L.L. or frequent operation at a particular position, select an end carriage 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.)

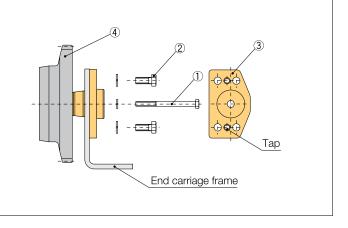
#### •Use I-beam for the traveling rail.

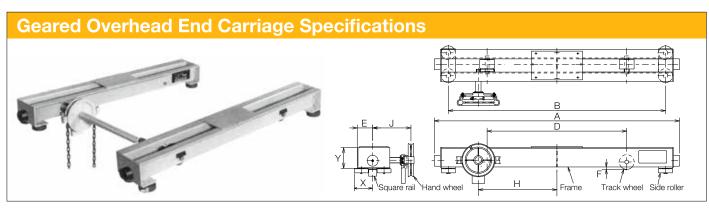
- •When planning a girder or cart, contact your nearest Kito distributor.
- •E: 200V/50Hz, 200-220V/60Hz
- •Z: 380-415V/50Hz, 440-460V/60Hz
- •B: 220V/50Hz, 208-230V/60Hz 380V/50Hz, 380-460V/60Hz

#### 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.

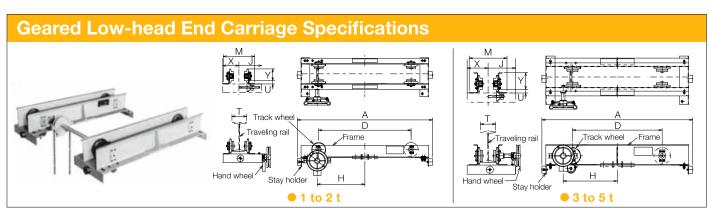






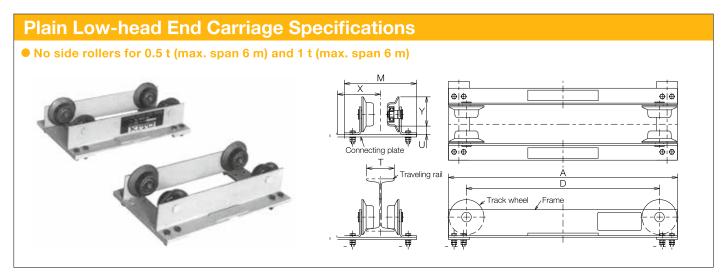
W.L.L.	Max.	Tuno	Applicable square	Max. wheel	Wheel diameter				Dim	ensions (	mm)				Mass
(t)	span (m)	Type	rail (mm)	pressure (kN)	(mm)	Α	В	D	E *1	F	Н	J	Х	Y *2	(kg/set)
4	9	GO010-9		9.31	95				100		507	247		147	99
	12	GO010-12	□32.□38	9.51	95				100		307	241	119	147	99
	9	GO020- 9	□40.□45	17.6	125	1580			120	15.5	509		119	172	130
2	12	GO020-12		17.0	125	1360	1400	900	120	10.0	509	252		172	130
	9	GO030-9	<u>45</u> . <u></u> 50	20.6	140		1400	900	135		521	202	123	202	156
3	12	GO030-12	<u> </u>	20.6	140				133		521		123	202	156
_	9	GO050-9		44.1	010	1590			110	18.5	FO1	057	140	005	004
5	12	GO050-12	<u></u> 50	44.1	210	1590			119	10.0	561	257	143	205	224

- •W.L.L.: 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.



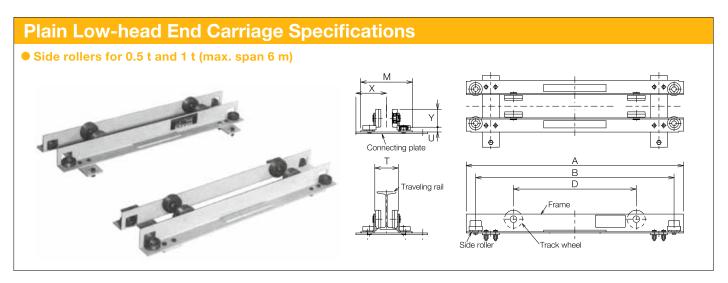
W.L.L.	Max.	Type	Applicable traveling	Max. wheel	Wheel diameter				Dimensio	ons (mm)				Mass
(t)	span (m)	туре	rail (mm)	pressure (kN)	(mm)	Α	D	Н	J	М	U	J	Y *1	(kg/set)
4	6	GL010- 6	75-100-125-150	4.5	95	1390	950	490		T+171	34	241-T/2	121	106
'	12	GL010-12	75.100.125.150	4.5	95	1840	1400	715	T/2+228	T+211	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
3	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
5	6	GL050- 6	125.150	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

- •W.L.L.: 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 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.



W.L.L.	Max.	Type   traveling   wheel		Wheel	Dimensions (mm)							Mass	
(t)	span (m)	туре	rail (mm)	pressure (kN)	diameter (mm)	Α	В	D	М	J	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	45
1	6	PL010-6	75-100-125	3.5	85	830		700	T+161	31		106	45

- •W.L.L.: 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 75 mm width rails or on the rail track.)
- •Use I-beam for the traveling rail except the size, 10 0 x 75 x 5.
  •When planning a girder or cart, contact your nearest Kito distributor.



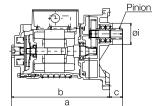
W.L.L.	Max.		Applicable traveling		Wheel		Dimensions (mm)						
(t)	span (m)	туре	rail (mm)	pressure (kN)	diameter (mm)	Α	В	D	М	J	Х	Υ *	(kg/set)
0.5	9	PL010-9	75 100 105	0.00	O.F.	1150	1050	OF O	T. 174	00	010 T/0	O.F.	71
1	9	PL010-9	75-100-125	3.92	95	1150	1050	650	T+174	26	212-T/2	95	/ 1

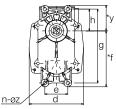
- •W.L.L.: Working Load Limit (t).
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  \*: The hieght from the track surface of the traveling rail to the top of the end carriage.
  •To reinforce a connecting part of the rails with a plate on the rail web, make sure that the plate has a clearance for the end carriage. (Do not install the plate for 75 mm width rails or on the rail track.)
  •Use I-beam for the traveling rail except the size, 10 0 x 75 x 5.
  •When planning a girder or cart, contact your nearest Kito distributor.

### **GEARED MOTOR SPECIFICATIONS**

#### Dimensions







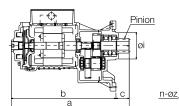
\*Flange thickness of the Geared motor at the fixing holes (n-øz) are 18 mm.

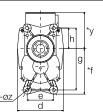
\*f and y show distances from pinion center to both ends.

	Motor	output		Power	source						Dime	nsior	ns (m	m)						
Туре	(k)	<b>N</b> )	Pole	rowei	Source	í	a	b	(		р		£			h	øi	_	~=	Mass (kg/set)
	50 Hz	60 Hz		Overhead	Low-head	Overhead	Low-head	b	Overhead	Low-head		е	ı	У	g	n	ØI	n	ØΖ	(rtg/oot/
G1M□025L-□				D E 7	DEZ									67						
G1M□025S-□	0.21	0.25	4	B,E,Z	B,E,Z	290	281	256						82.2						11
G1M□025H-□				Е	E,Z					25	140	60	1.46	67	193	57	56-0.046			
G1M□025SD-□	0.21:0.053	0.05.0.000	0/0			324	315	290		25	142	60	146	70.6	193	07	30-0.046			17.5
G 1101 0255D	0.21:0.053	0.25:0.063	2/8			339	315	305						72						19
G1M□040T-□				B,E,Z	B,E,Z	300	291	266	34					75.2				4	9	15.5
G1M□040L-□	0.04	0.4	,											78						15
G1M□040S-□	0.34	0.4	4			005	000	001						92.6						14
G1M□040H-□				Е	Е	335	330	301		29	156	70	161		215	66	74-0.046			15
G1M□040SD-□	0.34:0.084	0.4:0.1	2/8	DEZ	DEZ									78						16.5
G1M□075T-□	0.63	0.75	4	B,E,Z	B,E,Z	346	341	312												17

●Brake: DC Disk Brake. ●Brake Torque: From 0 to 50% (for 0.25 kW:30 to 80%) of motor rated Torque. ●Dust and water protection: IP55 (Specified by I.E.C.)





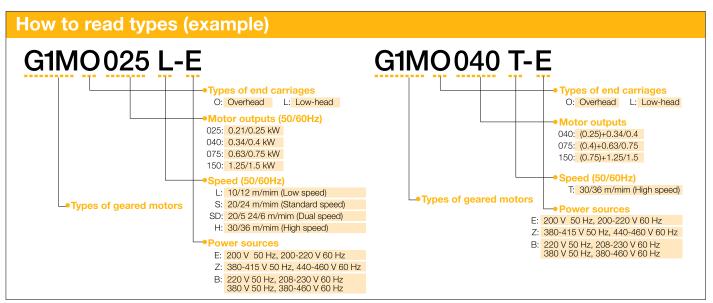


\*Flange thickness of the Geared motor at the fixing holes (n-øz) are 17 mm.

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

	Motor	output		Power	source					Dime	ensio	ns (m	nm)							
Туре	(k)	W) .	Pole		554155	í	a	b	(		d	е	£	.,	, a	h	øi		øz	Mass (kg/set)
	50 Hz	60 Hz		Overhead	Low-head	Overhead	Low-head	D	Overhead	Low-head	u	υ	'	У	g		01	n	02	(1.9/001)
G1M□075L-□				DEZ	Е															
G1M□075S-□	0.63	0.75	4	B,E,Z	B,E,Z	100		355												26
G1M□075H-□				E,Z	Е	400	393	333	45	38	156	00	154	122.6	210	70	90-0.054		11	
G1M□075SD-□	0 60.0 16	0.75.0.10	0/0		E,Z				45	38		90	154		210	/0	90-0.054		' '	27
GTIVI_U/35U	0.63:0.16	0.75:0.19	2/8	B,E,Z	_ ⊏,∠	415		370										4		30
G1MO150T-						433	426	388												36
G1M0150L-	1.05	1.5		Е										100.6						
G1M0150S-	1.25	1.5	4	B,E,Z	_	484	_	419	65	_	190	110	177	132.6	242	80	115 <sup>0</sup> -0.054		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

	Matau		*T		*N	lotor			Pi	nion		
Туре		output W)		veling (m/min)		lutions		olutions	•	Tooth surfa	ce strength	(kg)
Турс	(				(r. <sub> </sub>	p.m) 	(r. <sub> </sub>	p.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	36			463	541	53	45	35	30
G1M□040T-□	0.34	0.4	30	30	1430	1700	469	557	83	70	59	47
G1M□025SD-□	0.053	0.063	5	6	730	870	80	91	77	67	51	45
G1M-0233D-	0.21	0.25	20	24	2960	3530	325	387	75	63	50	42
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	36			382	453	86	72	57	48
G1M□075T-□	0.63	0.75	30	30	1415	1670	378	445	162	137	108	92
G1M□040SD-□	0.084	0.1	5	6	730	860	68	79	121	103	81	68
G1MD0403D-D	0.34	0.4	20	24	2890	3420	266	314	123	103	82	69
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-□			30	36			224	253	182	160	104	92
G1M□150T-□	1.25	1.5	30	30	1440	1700	218	256	372	317	_	_
G1M□075SD-□	0.16	0.19	5	6	720	860	39	47	263	219	161	125
GTIVI_0/55D-	0.63	0.75	20	24	2890	3440	157	187	259	217	159	124
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.

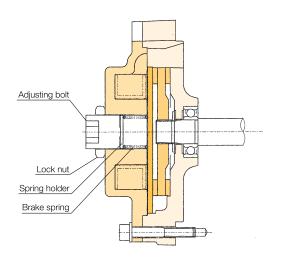
#### **■** Details of Pinions

	Motor output			Pinior	n (mm)	
Туре	(kW) 50/60Hz	Pole	Module	Number of teeth	X	Outside diameter
G1MO025	0,21/0,25	4		8	0.452	27.1 -0.1
G1MO025□-□	0.21/0.25	2/8	2.5	12	0.294	36.5 -0.2
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□-□	0.34:0.084/0.4:0.1	2/8	3	12	0.294	43.8 -0.2
G1MO075T-	0.00/0.75	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□-□	0.63:0.16/0.75:0.19	2/8	3	21	-0.04	68.8 -0.2
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.



<sup>•</sup>X: Addendum modification coefficient.

### **CRANE CONTROL PANEL**

# For electric chain hoist (ER2M) & wire rope hoist (RY)

A control panel consisting of an inverter is essential for smooth operation of a setup of crane and electric chain hoist. Smoother ergonomics can be attained if the electric chain hoist or wire rope hoist is equipped with inverter too. The load swaying is brought to zero and many unnecessary accidents can be avoided if the hoist is given a smooth start and a smooth stop.





Туре	Hoist	Capacity (Tons)	Geared Motor Output	Power Supply	Control Voltage
Α	ER2M	≤ 5 Ton	0.25kW x 2 0.4kW x 2		
В	ER2M	>5 Ton and ≤ 10 Ton	0.75kW x 2	415VAC /	24VAC
С	RY	≤ 5 Ton	0.25kW x 2 0.4kW x 2	50 Hz	24VDC
D	RY	>5 Ton and ≤ 10 Ton	0.75kW x 2		

Selection table for Crane Control Panel

Typ	ne .	Cap (t)			Spar	n (m)							
.,,,	,,,	Cap (t)	3	5	6	9	12	15					
		1											
		2		Туре	A (ER2M)	) or Type	C(RY)						
	Overhead	3	End carriage: E0 010~050										
	Overneau	5											
Standard		7.5		Type B (ER2M) or Type D(RY)									
Standard		10		End	carriage	: EO 075,	100						
		1		Toma	A (EDOM)	T	C(DV)						
	Low-head	2		Iype End carr		) or Type 010 ~ 030							
	Low-lieau	3			J		,						
		5					Type B (ER2M) EL						

This control box includes various equipment like MCCB, Main Line Cut Contactor, Transformer, Brake Contactor, Inverter, Inverter, Inverter Brake Resistor and Terminals

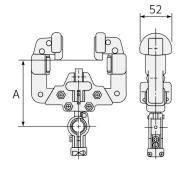
### **T-TYPE CABLE TROLLEY**

Guide rollers on either sides and in the bottom makes cable trolleys smoother for operating compared to regular cable trolleys.





Model	(mm)	(mm)	Cables	A (mm)
CK101	75 or 100	ø10	1	117
CK102	75 01 100	ø20	2	116

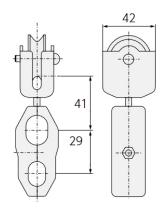


### WIRE TYPE CABLE TROLLEY

Simple cable trolley with messenger wire.



Туре	Messenger Wire	Cable Size
CH14S	ø4 to ø6	ø11 to ø13 or ø13 to ø15







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