

KEESANG ELEVATOR PARTS & ACCESSORIES



 **KeeSang**

Elevator Parts & Accessories
Manufacture & Distributor

Elevator Parts & Accessories Manufacture & Distributor

HISTORY

Since founded in 1977 as a small elevator parts and accessories manufacture, KEESANG has grown up to one of the best elevator manufactures and distributors in the world with over 20years experience.

QUALITY

Proved by Japanese top manufacturers like HITACHI, MITSUBISHI and OTIS. With our never ceasing efforts to study in pursuit of innovation, our products are competitively of the highest quality. Strict quality inspections are absolutely performed before merchandises departure from the factory.

PRODUCT RANGE

KEESANG supplies a full range of elevator parts & accessories covering basically all items relevant to installation, replacement and maintenance.

AFFORDABILITY

You can easily purchase what you most want directly from ONLINE STORE at www.keesang.co.kr at a very competitive price companies. Guidelines concerning shipping procedures are fully described at our web site for overseas customers.

CUSTOMER SATISFACTION

Our uppermost goal is to keep you satisfied with our products, services and whatever you want. KEESANG always evaluate all aspects of product and service in order to meet both current and future needs.

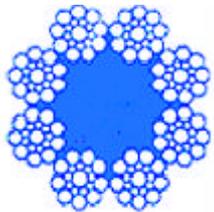
ONLINE STORE

Our web site at www.keesang.co.kr is designed as a complete online store. all items are fully described as if you were in a real mall so that you can just hang around. When buying, all you have to do is just to add an items to an online shopping cart. Information related with shipping, payment and product problems, with available by just one click.

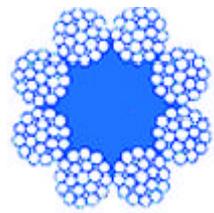
WIRE ROPE

Description

Wire Ropes are manufactured using high grade wire rod in Korean Steel Mills. Elevator Ropes have been in produced strictly quality control and accredited for ISO9002 since 1992. The wire rope is manufactured under rigid standards,KS and Japanese Standards, broadly known as tight rule in world. All sizes are available and the sizes below are in stock.



8 x S19



8 x Fi25

Classification - 8x19

Widely used in all elevator rope applications, specially for high speed and high rise heavy duty - car, counterweights, overspeed governor, control,hoist and car drum ropes

Manufactured in Iron, Traction, Extra High strength
Traction grades

Available in following constructions:

- 8 x 19 Warrington
- 8 x 19 Seale
- 8 x 25 Filler Wire

Produced in right regular and lays
Manufactured with a natural core

Technical data of 8x19

Nominal Diameter (mm)	(inch)	Diameter Tolerance (mm)	Minimum Breaking load (kg)	Mass Weight (kg/1,000m)	Remarks
8.00	5/16	8.00- 8.40	3,150	220	-B/L X 20% Load =Rope Elongation: 0.7~12%
9.00	0.35	9.00- 9.90	3,980	278	
9.50	3/8	9.53- 10.48	4,500	312	
10.00	0.39	10.00-10.70	4,910	343	-Grease Ratio Containing In Fibre Core:10~17%
12.00	0.47	12.00-12.84	7,070	494	
-	1/2	12.70-13.59	7,910	553	
13.00	0.51	13.00-13.91	8,920	579	
14.00	0.55	14.00-14.98	9,610	672	
16.00	5/ 8	16.00-17.12	12,510	878	-Modulus of Elasticity: 5,000~7,000 kg/mm2

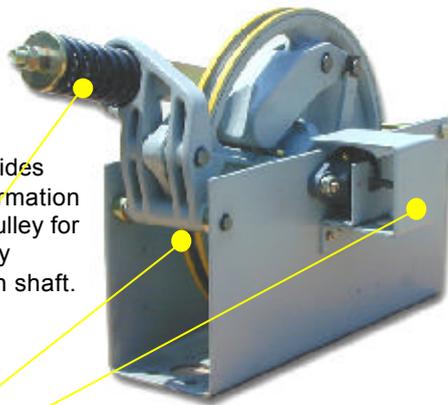
OVERSPEED GOVERNOR

If you are not 100% satisfied with existing governor
Would you give us opportunity to fit your needs!?
We can secure tremendous remedy to choose a overspeed
governor speed that saves your budget in better quality.

LIVE SHAFT encoder type Governor

Live shaft governor provides accurate positioning information of revolution governor pulley for motion control by directly mounting an encoder on shaft.

- * Pull-through
- * Tripping Speed
- * Governor Rope Size
- * Encoder Safety Cover
- * Governor Overspeed Switch



KEY FEATURES

The following features are considered as your first selection for your needs of fine function in Overspeed Governor. With aid of CNC machine, all parts can detect your requirements of controlling car in overspeed.



1. Precision Shafting

CNC machine-finished profile of shaft .
With our computerized Numeric Control machine below, the governor rope run free and clear of governor jaws, rope guards or other stationary parts.



2. Accurate Machining

Governor-sheave grooves have CNC machine-finished surface.
With our computerized Numeric Control machine below, the governor rope run free and clear of governor jaws, rope guards or other stationary parts.



3. CLASS A springs

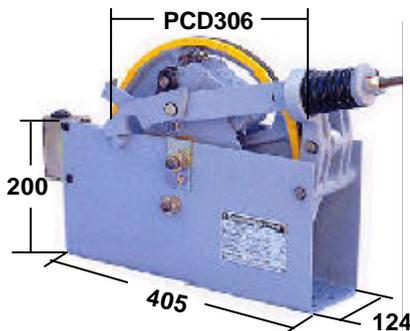
Compression and extension springs keep required tension value in desired level to operate overspeed governor at certain moments. We use them Class A quality factory manufacture.



4. Governor Switch

Based on steady assembling of experience as once Enlisted UL for long terms, it watches overspeed correctly with 100 % guaranteed accurate break to power off in overspeed.

Standard Sized type



TYPE #, 1051

Very standard centrifugally operated overspeed governor, is most frequently employed nowadays. dia. of governor pulley,
DIMENSIONS(mm):
W x D x H : 405 x 124 x 200
WEIGHT: 23kg

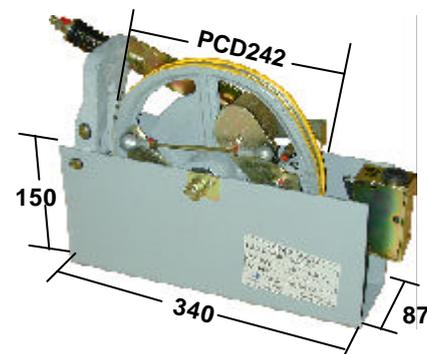
Auto Resetting type



TYPE #, 1053

Without manually resetting governor, G02 overspeed governor will rest automatically by pulling down jaws with aids of small bracket in flyweight.

Small Size type



TYPE #, 1052

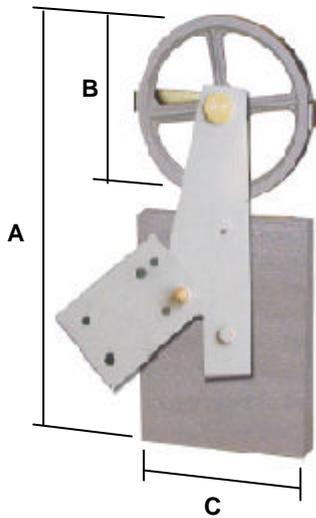
It can save space of machine room space perated governor, is most frequently employed nowadays. Its diameter of
DIMENSIONS(mm):
W x D x H : 340 x 87 x 150
WEIGHT: 17kg

Call, Click or Stop By for easy access to thousands of parts!

keesang.co.kr

TENSION PULLEY

Wheel Dia . 300mm



No. 191 Swing Type ----- 12' Dia.
No. 192 Swing Type ----- 16' Dia.
No. 193 Frame Type ----- 16' Dia.
No. 194 Frame Type ----- 12' Dia.

Shipping weight for Tension Weights
approximately 160#.
Guard Also Available.

Dimension (mm)

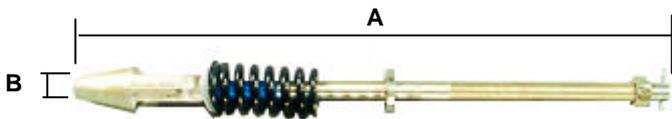
A	B	C
630	284	300

Tension Weight is designed and functioned to meet both JIS Code and AS Code specification. Each governor is tested and sealed at the factory.

MODEL No.	SERIES NO.	PULLEY DIA.(inch/mm)		WEIGHT(kg)
KS1061	KS1061-01	12	305	26
	KS1061-02	12	305	26
	KS1061-03	12	305	26
	KS1061-04	12	305	26
KS1062	KS1062-01	12	305	43
	KS1062-02	12	305	43
	KS1062-03	12	305	43
	KS1062-04	12	305	43
KS1063	KS1063-01	12.59	320	26
	KS1063-02	12.59	320	26
	KS1063-03	12.59	320	26
	KS1063-04	12.59	320	26
KS1064	KS1064-01	12.59	320	6
	KS1064-02	12.59	320	6
	KS1064-03	12.59	320	6
	KS1064-04	12.59	320	6

WIRE SOCKET

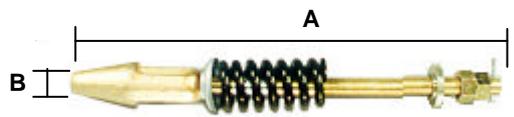
No. KWS-001



Dimension (mm)

A	B
650	14

No. KWS-002

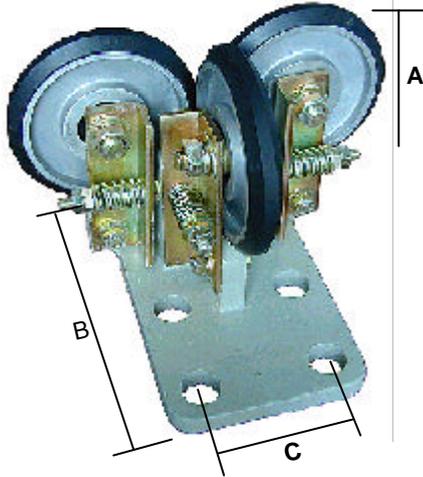


Dimension (mm)

A	B
470	14

ROLLER GUIDE SHOE

Wheel Dia . 150mm



Specification

MODEL	CAR SPEED	BEARING
1071-150	1.75MPS	#6304dd

Dimension (mm)

A	B	C
150	187	100

Wheel Dia . 200mm

Specification

MODEL	CAR SPEED	BEARING
KGA01-200A	2~4 MPS	#6207zz

Dimension (mm)

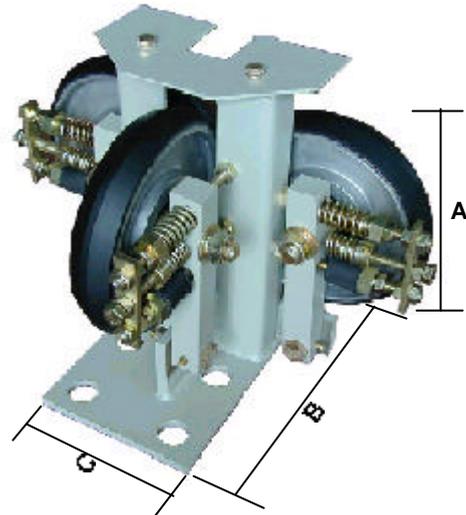
A	B	C
200	187	100

For Elevator Car

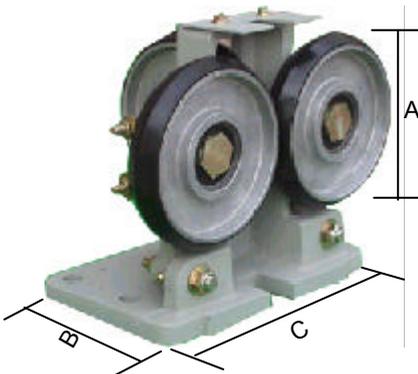
Model 1071.130, 200A, 200B and 250 give optimum performance on high speed passenger elevator or heavy duty freight elevators.

As composed of 3 spring-loaded rollers, roller wheels in neoprene standard can minimize noise and vibrations in quite operation.

Each model has different application profile of guide rails. (For detailed dimension, ask us more)



Wheel Dia . 200mm



Specification

MODEL	CAR SPEED	BEARING
1071.200B	3.5 MPS	#6207zz

Dimension (mm)

A	B	C
200	162	282

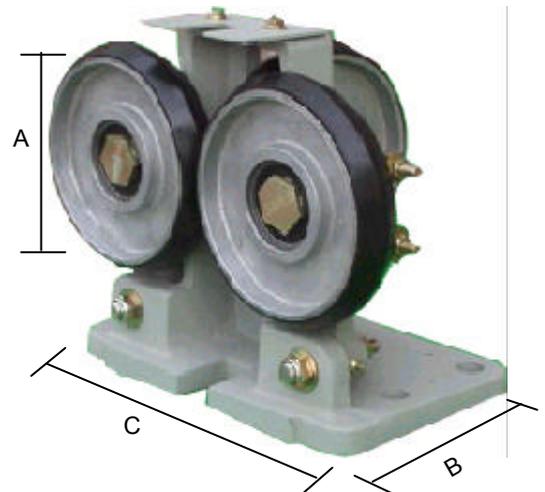
Wheel Dia . 250mm

Specification

MODEL	CAR SPEED	BEARING
1071-250	4 MPS	#6207zz

Dimension (mm)

A	B	C
250	162	282



ROLLER GUIDE SHOE

For Both

Model **1071.130** can be used both for elevator cars and counterweights at different speed ranges. It is used in speed up to 2.5 m/sec. for a elevator car and up to 8.0 m/s for a counterweight.

Specification

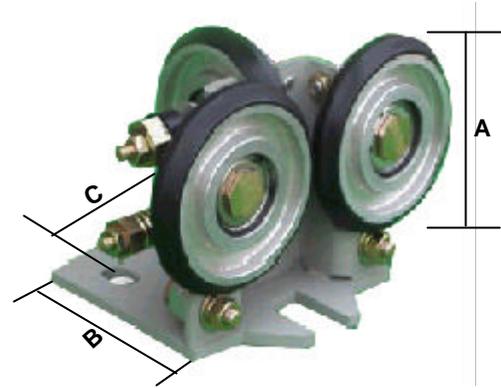
MODEL	CAR SPEED	CWT SPEED	BEARING
KGA01-130A	2.5 MPS	8MPS	#6304dd

Application Guide Rail T78, T89, T114, T127

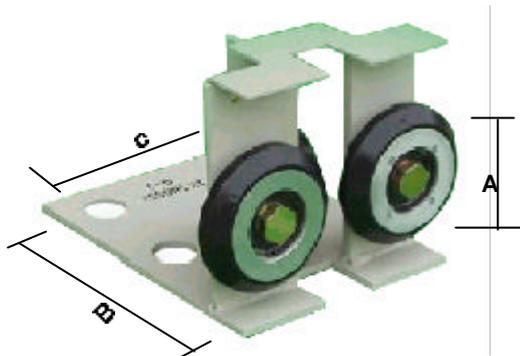
Dimension (mm)

A	B	C
130	140	120

Wheel Dia . 130mm



Wheel Dia . 90mm



Application Guide Rail T78, T89, T114, T127

Specification

MODEL	CWT SPEED	BEARING
KGA01-090A	8MPS	#6302dd

Dimension (mm)

A	B	C
90	189	100

Wheel Dia . 80mm

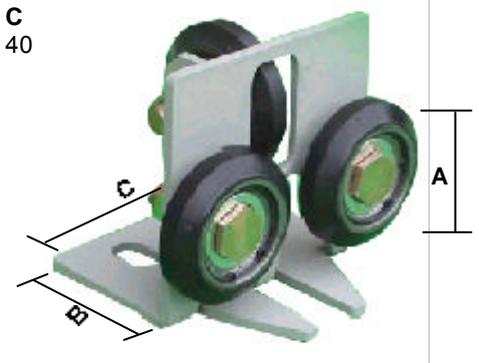
Application Guide Rail T89, T114

Specification

MODEL	CWT SPEED	BEARING
KGA01-080A	1.75MPS	#6304zz

Dimension (mm)

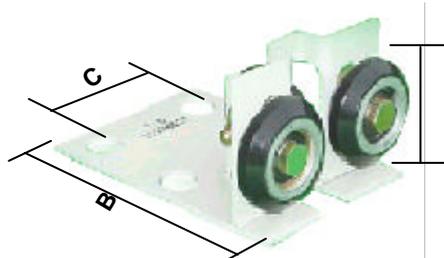
A	B	C
80	80	40



For Counterweight

Normally model **1071-78, 80 and 90** series are recommended to use only for counterweight. For medium and high speeds for counterweights, smooth ride and saving power from reduction are secured specially by using roller wheels in neoprene as standard. (For detailed dimension, ask us without hesitation).

Wheel Dia . 78mm



Application Guide Rail T78, T89

Specification

MODEL	CWT SPEED	BEARING
KGA01-078A	1.75MPS	#6304zz

Dimension (mm)

A	B	C
78	160	100

COMPENSATION CABLES

Description

Chain-type compensating cables are primarily used for high-rise elevator installation. Link chains, hanging free in the elevator hoistway are liable to converge on single link forming a point at the bottom of the loop.

Construction

- Metal particles are ferrous of specific size and shape like shown in technical data.
- Traditional superior quality of 3 strand manilla ropes, pure "grade A" manila rope are woven in the links of the chain. This natural fiber rope absorbs perspiration for the best grip and is extremely durable.

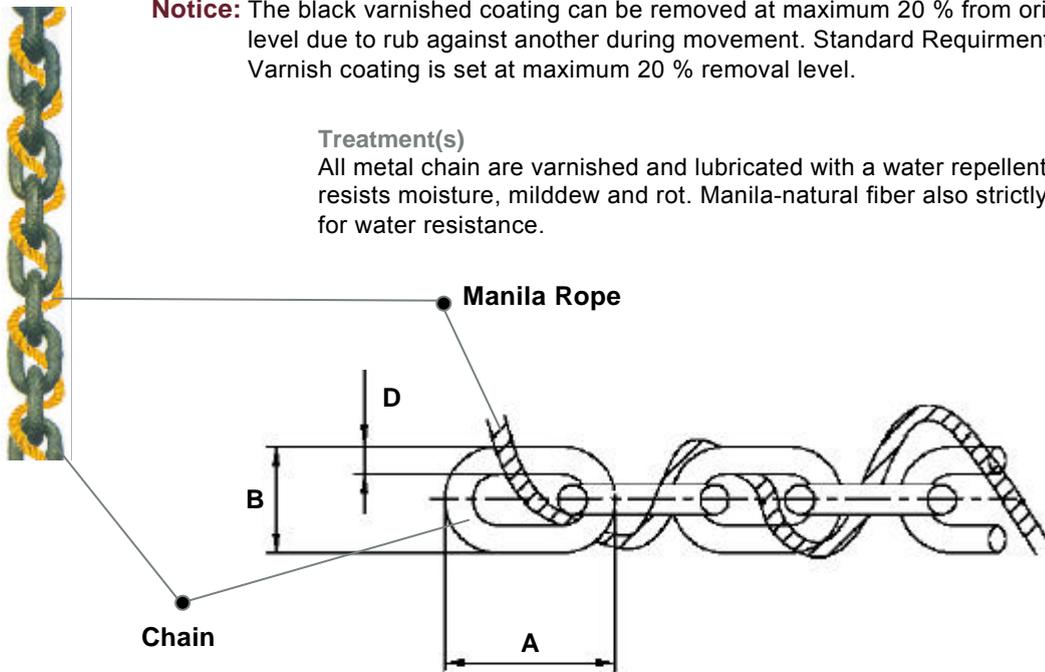
Specification

Manilla ropes are cut every 4.5 meter and woven in the links of the chain. The cut end of manilla ropes are cleaned and secured in 2 turns of steel wire. For finish termination are tapped as not exposed of rope strands.

Notice: The black varnished coating can be removed at maximum 20 % from original coating level due to rub against another during movement. Standard Requirements Varnish coating is set at maximum 20 % removal level.

Treatment(s)

All metal chain are varnished and lubricated with a water repellent treatment that resists moisture, mildew and rot. Manila-natural fiber also strictly manufactured for water resistance.



G.No	P.No	Chain Specification			Weight (Kg/m)	Manila Rope Specification			Unit Weight (Kg/m)	Tensile Strength	
		A	B	D (Dia.)		P.No	Rope Diameter	Rope Length			
G001	P001	36+-2	24+-2	5	0.49	P010	6		0.037	0.53	400
G002	P002	40+-2	26+-2	6	0.472	P010	6		0.037	0.75	600
G003	P003	42+-2	28+-2	7	1.01	P010	6	1.5	0.037	1.05	900
G004	P004	56+-2	32+-2	8	1.20	P011	8	Times	0.075	1.27	1100
G005	P005	58+-2	34+-2	9	1.65	P012	9	of	0.101	1.75	1500
G006	P006	60+-2	36+-2	10	2.02	P013	10	Chain	0.113	2.13	1700
G007	P007	60+-2	38+-2	11	2.53	P013	10	Length	0.113	2.64	2200
G008	P008	60+-2	40+-2	12	3.16	P013	10		0.113	3.27	2700
G009	P009	62+-2	42+-2	13	5.64	P014	11		0.165	3.60	3000

PLANT FACILITIES



Automatic Roller Manufacturing Machine



Oil-Pressure Press for Bearing Insertion

Having an understanding of technology development, we have introduced Urethane automatic mixing equipment operating under P.I.D Control system and made quality improvement in urethane moldings to respond needs for high quality from the industry. For precision processing and cost efficiency, Keesang has also installed and operated an automatic lathe, which can provide both automatic conveyance and manufacturing of rollers by using Robot and skip conveyor.



Automatic Urethane Molding Machine



Power Lathe of CNC

PLANT FACILITIES



We are employing the Sampling Test System in every lot as well as equipped with various kinds of instruments including testing equipment for properties, reliability and durability tests for quality assurance.

- Wheel diameter : $\varnothing 800$
- Wheel RPM : 0~200 rpm/ H
- Load cell Weight : 1,000 kg
- Motor : 7.5 k
- Examination subject :
Urethane exfoliation, Urethane crack degree

**Reliability Testing Apparatus
for Hanger roller**



- Wheel diameter : $\varnothing 250$
- Wheel RPM : 0~200 rpm/ H
- Load cell Weight : 500 kg
- Motor : 2.2 k
- Examination subject :
Urethane exfoliation, Urethane crack degree

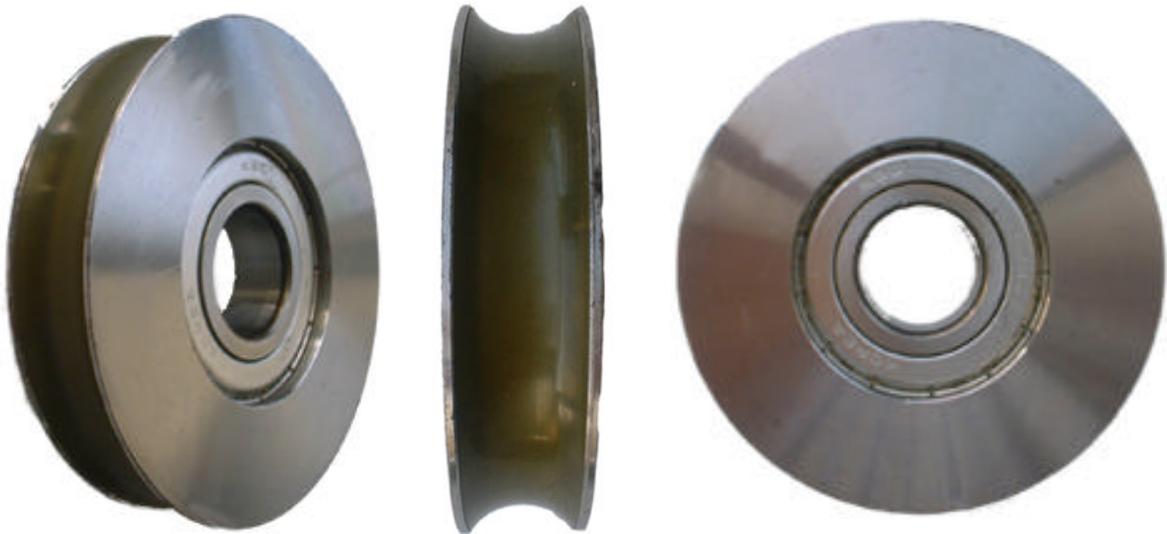
**Reliability Testing Apparatus
for Escalator Step roller,
Guide roller and
Parking system roller**



- Examination subject :
Urethane exfoliation, Urethane crack degree

**Urethane Property of
Material Testing Machine**

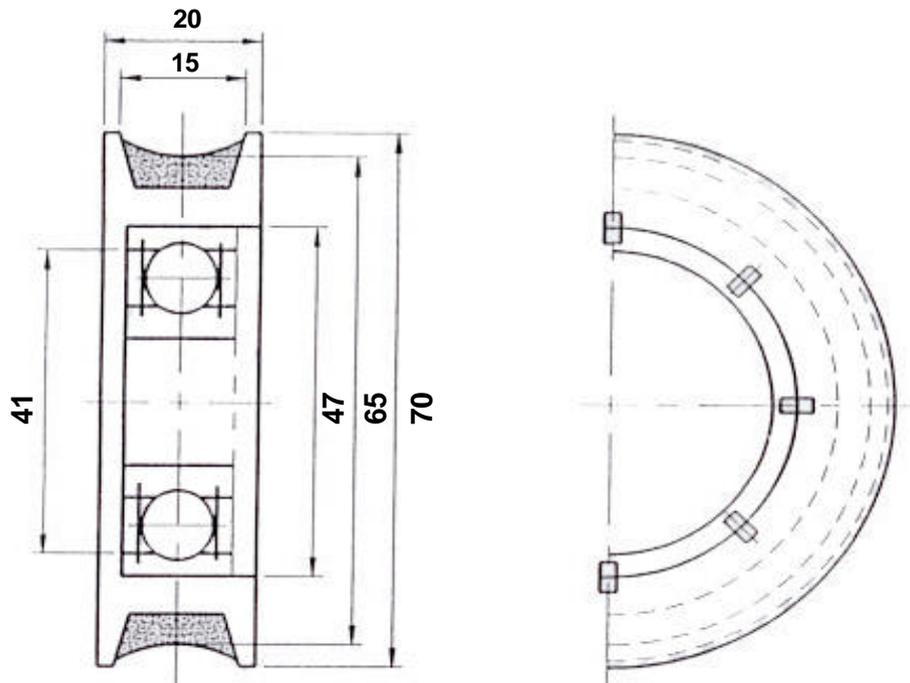
HANGER ROLLER : KSDR-09



No. KSDR-09

Boss Material : S40 round stick
Urethane Tire : P.T.M.G
Safety Load : 440 lb (200Kg)

Bearing
6203ZZ



Dimension : KSDR-09

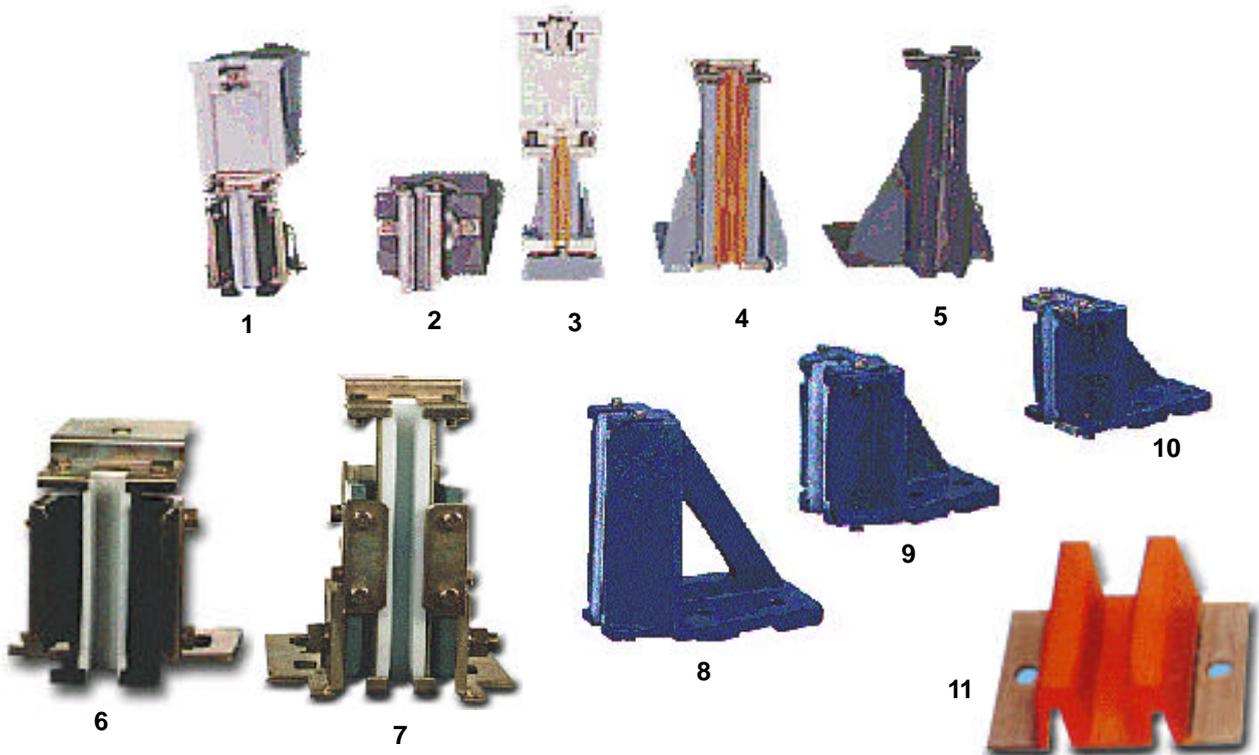
SLIDING GUIDE SHOE

KS-1072 Series

KeeSang Sliding Guide shoe, **KS-1072** offers types of guide shoe, Rigid type guide shoe, **KS1072-01** and Swivel type Guide shoe, **KS7012-02**.

The Rigid guide shoes are assemblies will mount on a car sling built to meet both the JIS Code and AS Code.

For specification information, **W, T, M** and **H** are explained as in **WESTINGHOUSE, TOSHIBA, MITSUBISHI** and **HITACHI**.



MODEL No.	MARK	TYPE	SPECIFICATION	APPLICATION
KS1072-01A	1, 6	RIGID Type	8K, WESTING HOUSE MODEL	Main Rail
KS1072-01B	1, 6	RIGID Type	13K, WESTING HOUSE MODEL	Main Rail
KS1072-01C	7	RIGID Type	18K, WESTING HOUSE MODEL	Main Rail
KS1072-01D	7	RIGID Type	24K, WESTING HOUSE MODEL	Main Rail
KS1072-01E	10	RIGID Type	8K	Counter Rail
KS1072-01F	9	RIGID Type	13K	Counter Rail
KS1072-01G	8	RIGID Type	18K, 24K	Counter Rail
KS1072-01H	11	RIGID Type	5K	For DumbWaiter
KS1072-02A	2	SWIVEL Type	8K, 13K, MITSUBISHI MODEL	Main or Counter Rail
KS1072-02B	3	SWIVEL Type	8K, 13K, TOSHIBA MODEL	Main or Counter Rail
KS1072-02C	4	SWIVEL Type	18K, 24K TOSHIBA MODEL	Main or Counter Rail
KS1072-02D	5	SWIVEL Type	18K, 24K	Main or Counter Rail

SAFETY DEVICE

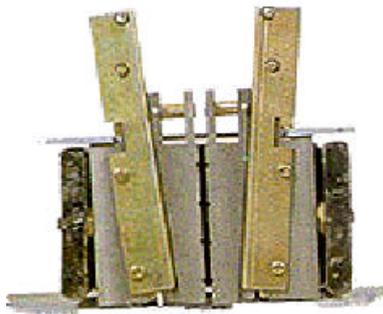
KS-130 Series



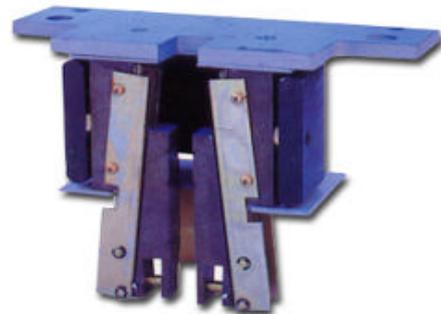
- Designed in compliance with all requirements of JIS code.
- Stopping force automatically exerted equally both sides of guide rail and readily adjustable through compression spring on each safety block.
- Full swivel of rail grips provides full and uniform contact on all rail faces when safety is actuated.
- Simple mounting under plank channels spaced for stile members of any size.

MODEL NO. MODEL TYPE

KS1301 Instantaneous
KS1302 Progressive



Safety device for 18K and 24K



Safety device for 8K and 13K

MODEL NO.	FUNCTION TYPE	MAX. LOAD	SPEED RANGE
KS1301-01	INSTANTANEOUS- 8K	2500	LOWER THAN 60 m/min
KS1301-02	INSTANTANEOUS- 13K	3500	LOWER THAN 60 m/min
KS1301-03	INSTANTANEOUS- 18K	4500	LOWER THAN 60 m/min
KS1301-04	INSTANTANEOUS- 24K	6000	LOWER THAN 60 m/min
KS1301-05	INSTANTANEOUS- 36K	OVER 6000	LOWER THAN 60 m/min
KS1302-01	PROGRESSIVE- 8K	1400	OVER THAN 60 m/min
KS1302-02	PROGRESSIVE- 13K	1800	OVER THAN 60 m/min
KS1302-03	PROGRESSIVE- 18K	2500	OVER THAN 60 m/min
KS1302-04	PROGRESSIVE- 24K	3500	OVER THAN 60 m/min

SHEAVE, KS-140

GENERAL DESCRIPTION

Main Sheave (Traction sheave), Deflective sheave

Material : FC 30

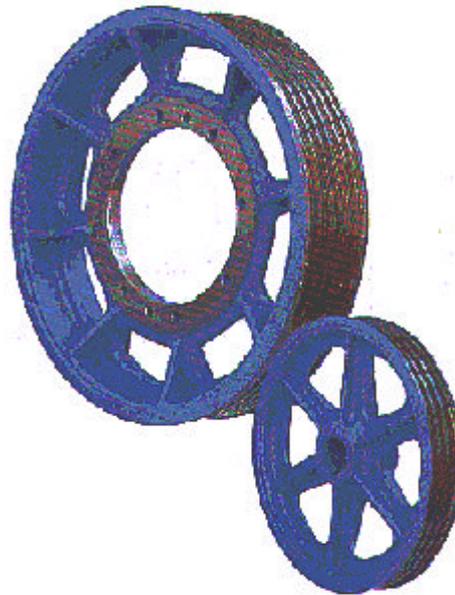
Minimum hardness : 210 Brinell

MODEL NO.	TYPE	NAME
KS1401	M-TYPE	Deflective Sheave
KS1402	D-TYPE	Main Sheave

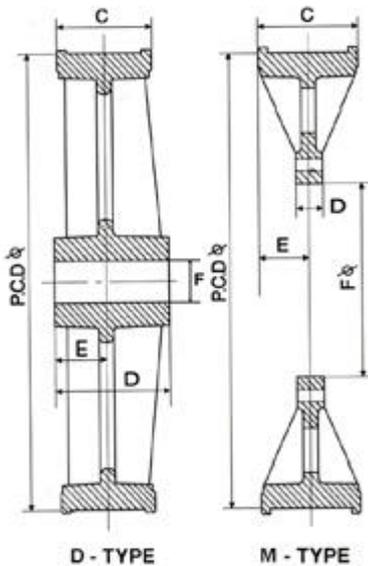
COMPONENT PARTS (standard)

1. Sheave
2. Shaft
3. Bearing
4. Support Blocks (2 bolts and 4 bolts)
5. Mounting Hardware

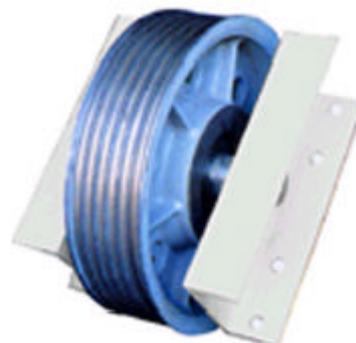
**Main Sheave
(M - TYPE)**



SPECIFICATION TABLE



**Deflector Sheave
(D - TYPE)**

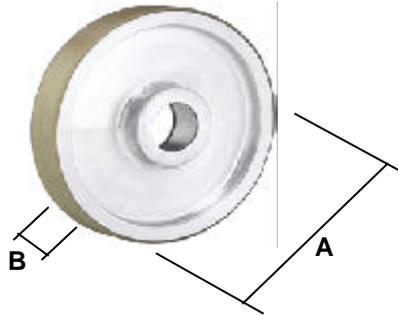


**Drawing 1-1
Main Sheave (M - TYPE)
Deflector Sheave (D - TYPE)**

ELEVATOR ROLLER

Guide type

No. KSDR-01



Boss Material : Aluminium round stick
Urethane Tire : P.T.M.G
Safety Load : 440 lb (200Kg)

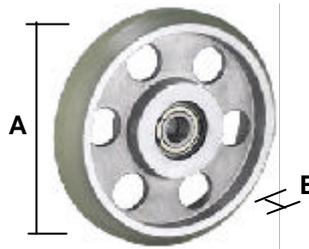
Dimension (mm)

A	B	Bearing
200	40	6204DD

Boss Material : Aluminium Die-casting
Urethane Tire : P.T.M.G
Safety Load : 440 lb (200Kg)

Dimension (mm)

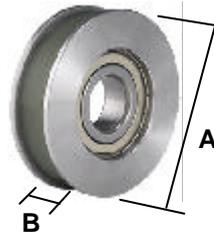
A	B	Bearing
160	30	6203ZZ 6204ZZ



No. KSDR-03

Hanger type

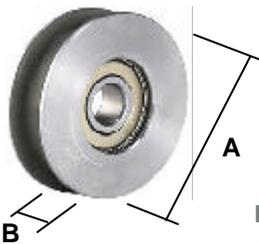
Boss Material : S40 round stick
Urethane Tire : P.T.M.G
Safety Load : 440 lb (200Kg)



No. KSDR-07

Dimension (mm)

A	B	Bearing
70	20	6204ZZ

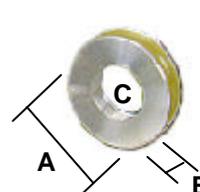


No. KSDR-09

Boss Material : S40 round stick
Urethane Tire : P.T.M.G
Safety Load : 440 lb (200Kg)

Dimension (mm)

A	B	Bearing
65	13	6203ZZ



No. KSDR-20

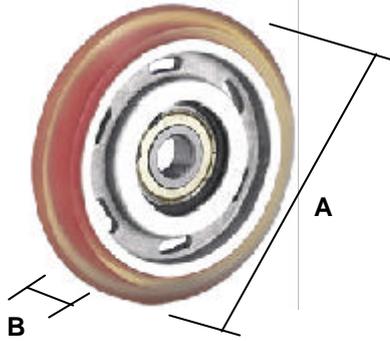
Dimension (mm)

A	B	C
56	14	32

ELEVATOR ROLLER

Guide type

No. KSDR-03

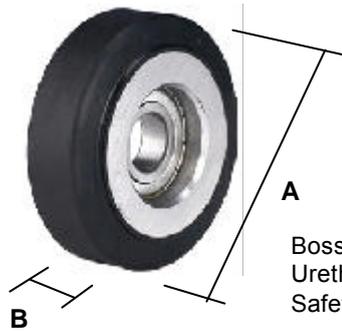


Dimension (mm)

A	B	Bearing
125	22	6203ZZ

Boss Material : Aluminium Die-casting
Urethane Tire : P.T.M.G
Safety Load : 440 lb (200Kg)

No. KSDR-08

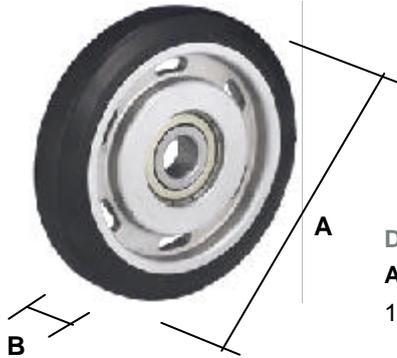


Dimension (mm)

A	B	Bearing
76	27	6203ZZ

Boss Material : S40 Round stick
Urethane Tire : Neoprene Rubber
Safety Load : 440 lb (200Kg)

No. KSDR-04

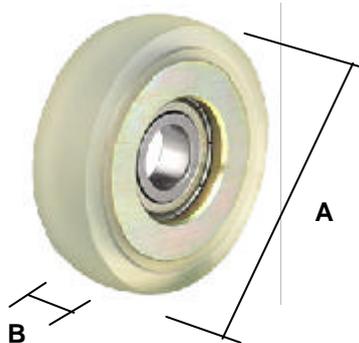


Dimension (mm)

A	B	Bearing
124.5	22	6203ZZ

Boss Material : Aluminium Die-casting
Urethane Tire : P.T.M.G
Safety Load : 440 lb (200Kg)

No. KSDR-06

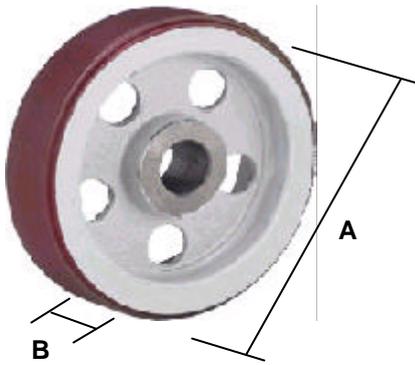


Dimension (mm)

A	B	Bearing
76	21.4	6203ZZ 6203DD

Boss Material : S40 Round stick
Urethane Tire : P.T.M.G
Safety Load : 440 lb (200Kg)

ESCALATOR ROLLER

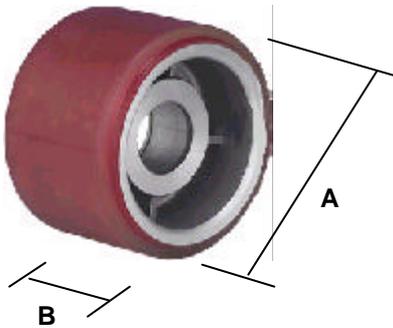


No. KSDR-10S

Dimension (mm)

A	B
140	36

Boss Material : GC25 Cast-Iron Ware
Urethane Tire : P.T.M.G
Walking Rail Type

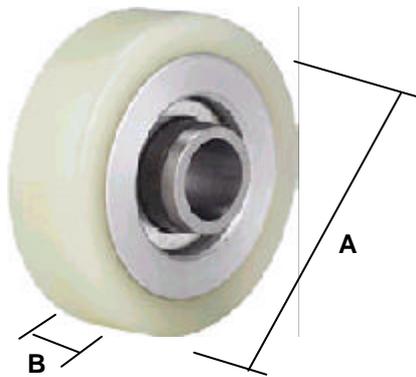


No. KSDR-11S

Dimension (mm)

A	B	Bearing
90	60	6202ZZ

Boss Material : Aluminium Die-casting
Urethane Tire : P.T.M.G

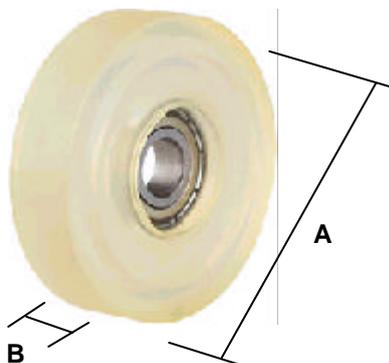


No. KSDR-12S

Dimension (mm)

A	B	Bearing
80	23	6204 BUSH

Boss Material : Aluminium Die-casting
Urethane Tire : P.T.M.G



No. KSDR-13S

Dimension (mm)

A	B	Bearing
80	23	6202ZZ

Urethane Tire : TPU
Step Roller

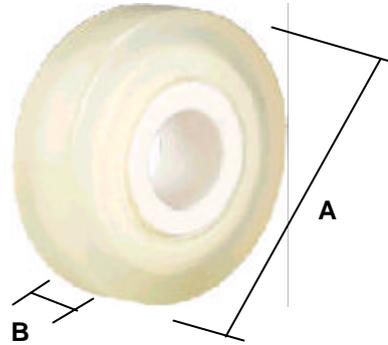
ESCALATOR ROLLER

No. KSDR-14S

Dimension (mm)

A	B
80	23

Boss Material : Acetal
Idle Roller

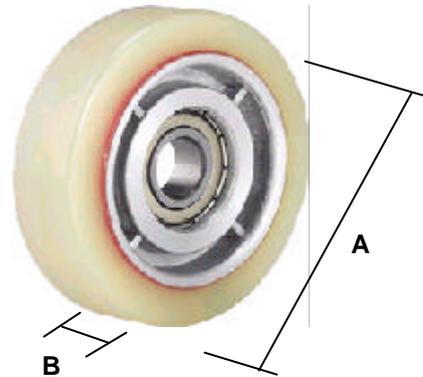


No. KSDR-15S

Dimension (mm)

A	B	Bearing
80	23	6202ZZ

Boss Material : Aluminium Die-casting
Urethane Tire : P.T.M.G

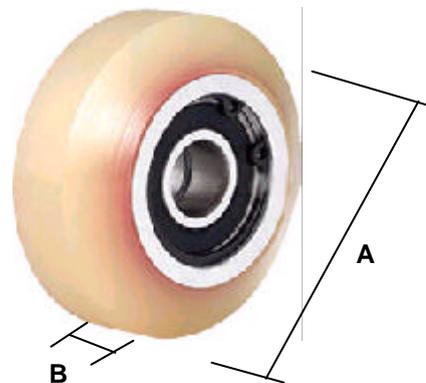


No. KSDR-16S

Dimension (mm)

A	B	Bearing
76	24	6202DD

Boss Material : Aluminium Die-casting
Urethane Tire : P.T.M.G

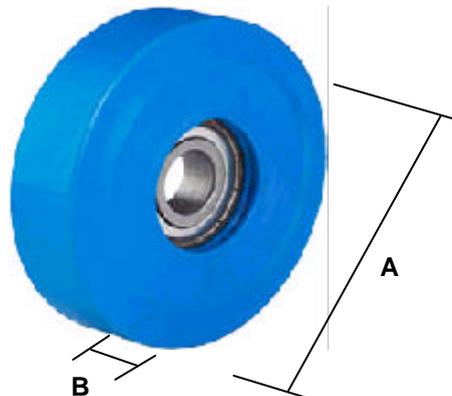


No. KSDR-17S

Dimension (mm)

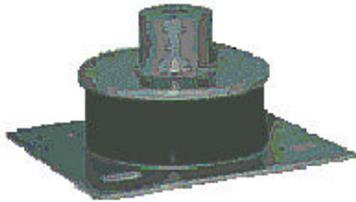
A	B	Bearing
80	23	6202ZZ

Step Roller
Urethane Tire : TPU



ISOLATION RUBBER

KS-160 Series



No. KS-1601



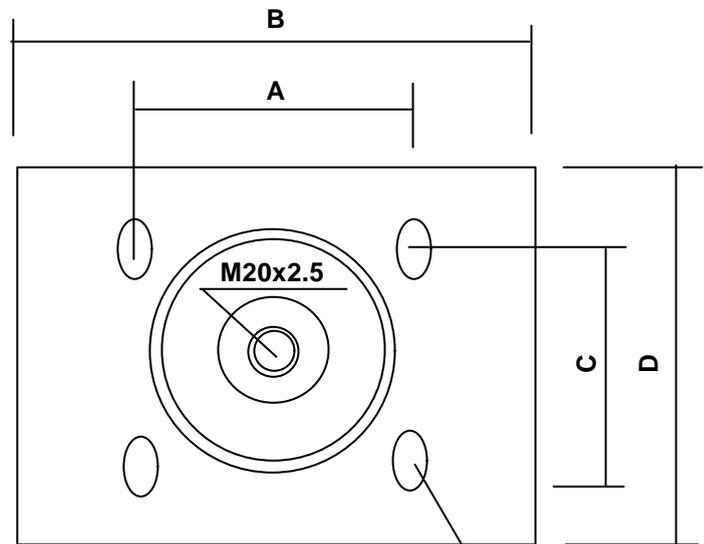
No. KS-1602

KS-160, the isolation rubber, is typically used to eliminate objectionable structure borne noise from the operation of elevators. It prevents the transmission of vibration from the machinery parts, through the cables to the passenger car by its installation on the elevator brackets where it is fastened to the building structure. The surface of the rubber is painted with special care paint and the steel part is treated with anti-rust paint.

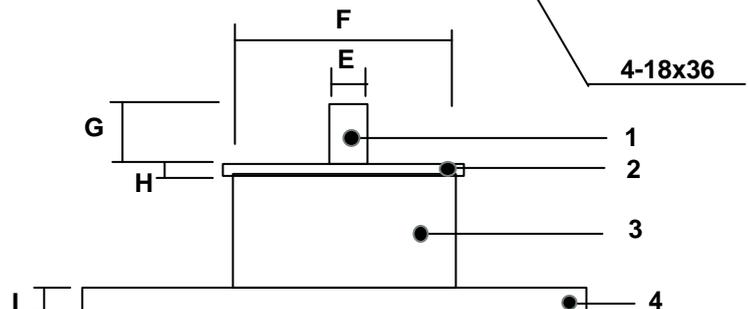
MODEL NO.	MARK	MODEL NAME
KS1601	1	LARGE BUFFER
KS1602	2	SMALL BUFFER

- **MAXIMUM LOAD** : 1000 Kg
- **RECOMMENDED LOAD** : More than 1000 Kg, Less than 1500 Kg
- **SPRING LOAD** : 2150 Kg

	KS1601	KS1602
A	167	142
B	220	200
C	116	116
D	180	180
E	48	48
F	140	140
G	55	55
H	5	5
I	6	6



NO.	PART	MATERIAL
1	Fitting Plate	SS41
2	Fitting Plate	SS41
3	Rubber	SS41
4	Nut	SS41



ALL DOOR PANEL



Keesang co. has doors in configurations to replace those from virtually any manufacturer, whether they are center opening, single-speed side opening.

Our doors are available in plastic laminate, metal or baked enamel finish. Custom decorated metal surfaces are available in many ranges of materials, such as **STAINLESS STEEL, BRASS, COPPER, ALUMINUM, NICKEL, GOLD, LACQUER.**

Panel features are Single or multi-panel of simple designs or highly complex graphics with intricate details. Transoms, cab walls, returns, ceilings are up to your choices.



BEN CLUTCH

KS-1036



As equipped in Door Arm, its specification is compatible with the 800 mm and 900 mm, size of Door Opening. G.A.L. type, and Cast iron body with completion

DOOR MOTOR

KS-1031 Series



DC Magnetic Motor & Drive for elevator door-operator

- Compact design
- High Over - Torque Endurance
- Powerful Low - Speed Torque
- High Power Rate
- High Efficiency
- 100/220 Free voltage Drive
- Two output contact (NC, NO)
- Soft Starting
- Perfect Design for Noise

	KS1031-01	KS1031-02	KS1031-03	KS1031-04
RATED POWER	0.125	0.125	0.070	0.070
RATED TORQUE	10.68	10.68	11.37	11.37
RATED ELE.VOL.	DC130	DC260	DC130	DC260
RATED ELE. CUR.	1025	0.60	0.72	0.35
RPM.	1140	1140	600	600
MAX. RPM.	2000	2000	2000	2000
V/KRPM.	106.0	210.0	56.0	112.0
TORQUE CON.	10.328	20.462	5.457	10.913
INSULATION DR.	B CLASS	B CLASS	B CLASS	B CLASS
INSULATION R.	OVER 100	OVER 100	OVER 100	OVER 100
DRIVING RATING.	CONTINUOUS	CONTINUOUS	CONTINUOUS	CONTINUOUS

SPIRAL SPRING

As part of Door Operator, it is well proved its quality from Australia, Japan. The important quality properties like fatigue specification and torque requirement are highly controlled for the customer satisfaction and also other dimensional specifications regarding to number of turns of spring and the angle for assembly of the final product should be met the requirement of the customer.



DOORS AND DOOR OPERATORS

Now you see the door-operating system for single-speed center opening door. This picture in Fig.1 is a photograph of a door operator and car doors which are about to leave a factory of manufactures. Actually there are several types of door operators, car door and hatch door is in the Korea, we choose this type because of First, This model has two distinct advantages. First, this type of header is designed as unique model, independent of the existing types in respects of patent and has been proved its function by many years of trouble free service, especially the single-speed center-opening door.



Figure 1. Door Operator and Car Door

S20 DOOR OPERATOR SPECIFICATIONS

The S20CO model of door operator consists of a D.C. motor with sprocket, chain, belts and cheaves. It is capable of opening the car and hoistway doors simultaneously at required speed. The power supply requirement could be provided at customized specification.



Figure 2. Car Operator

DOORS AND DOOR OPERATORS

S20CO, SINGLE SPEED CENTER OPENING HATCH DOOR

Door-operating system would act directly on both door panels or on one panel only. To realize this function mechanical linkage, pulley crank arm(s) and the connecting link(s) must be carried out in conformity with the motive power derived from a small flange-mounted D.C. motor.

In short words the door operation is achieved by a mechanical linkage which converts the rotational movement of the motor into a sinusoidal or door movement. As well as in the Korea, this function of the door operator, has been used mostly since the GAL manufacture invented.

The crank arm determines the total door travel. The further the arm is away from the drive pulley, the longer the door travels. The connecting link determines the door position.

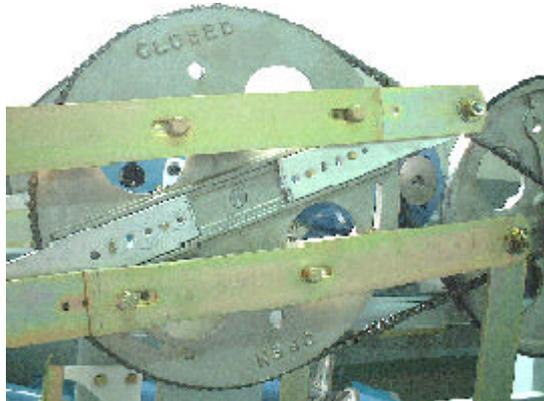


Figure 3, Drive Pulley and Crank Arm

S20CO, SINGLE SPEED CENTER OPENING HATCH DOOR

In Pic. 3, car door hanger plate, linkage, skate and door track are seen, the skate attached to car hanger plate is clear to see what is it like. The skate is to engage the door roller. The pulley crank arm(s) and the connecting links(s) as each having its own independent role. The crank arm determines the total door travel, the longer the door travels. The further the arm is away from the drive pulley, the longer the door travels. The connecting link determines the door position.

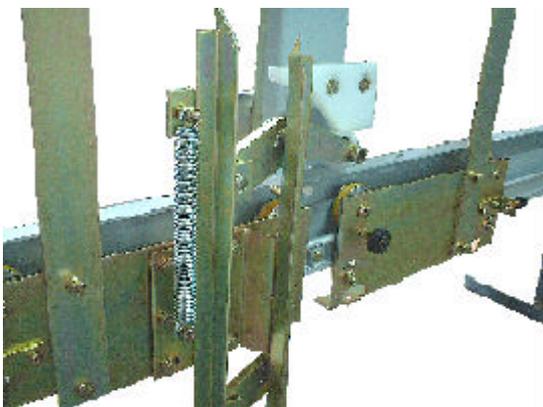


Figure 4, Skate and Car door hanger plate

Skate, lock rollers Manufacturers should state opening and closing times, as well as noise levels, and these should be checked after installation. The kinetic energy of the doors when in motion should also be checked,

DOORS AND DOOR OPERATORS

SINGLE SPEED CENTER OPENING HATCH DOOR

In the Pic. 5, a complete header assembly of center-opening door is shown, including door hanger plates, track, interlock switch, relating cable, hitch bracket all fittings, weights and linkage assembly.

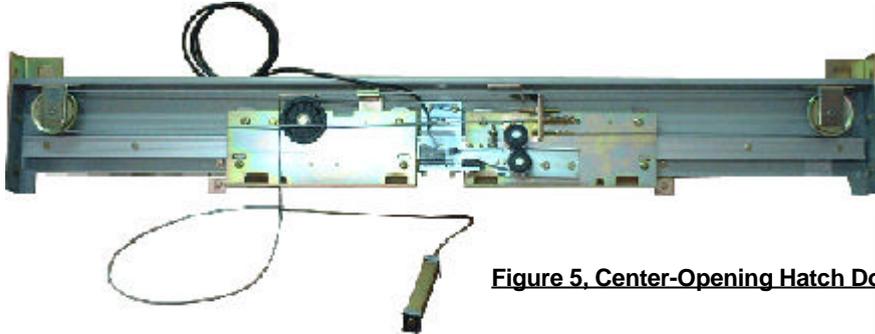


Figure 5, Center-Opening Hatch Door Assembly

This picture shows the different versions of hatch door from other side. The contact parts and cover are fastened to hanger track and its lead cables are bolted to connect with power supply. The end tips of hanger plate, slightly seen down describe how it could be installed the door panels. To be more specific there is hanger rollers and upthrust rollers behind hanger plate. In such a way it is possible to lock the hanger plate into the track. One important thing, the track is made of aluminum. If any customers requirements of tract, it is easily replaced with others such as steel tract to match with local codes.



Figure 6, Side View from Down of Hatch Door

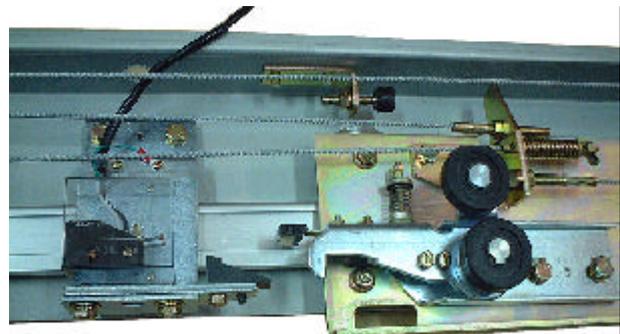


Figure 6, Side View from Down of Hatch Door

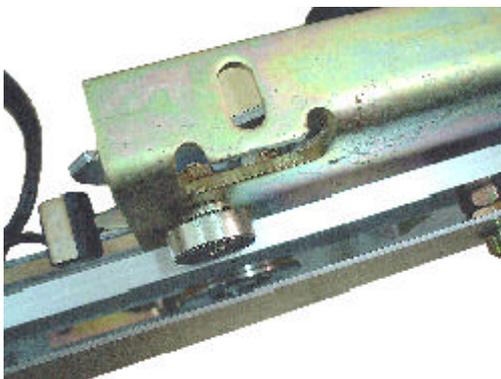


Figure 7, Upside down View of Hatch Door

Once moving back the pick-up roller from keeper bolted on the plate of a contact box, it is more definitely what feature they look. And to the right on the top, the fittings are fastened to the hanger plate

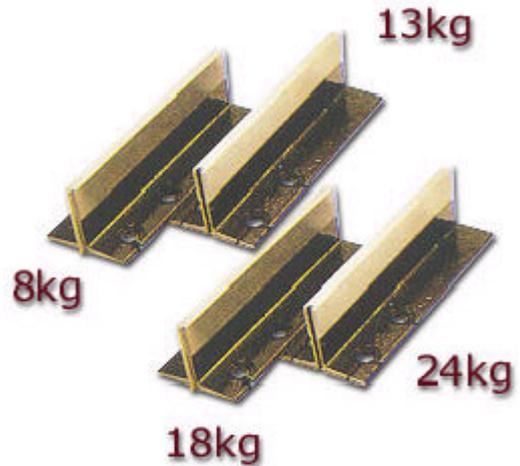
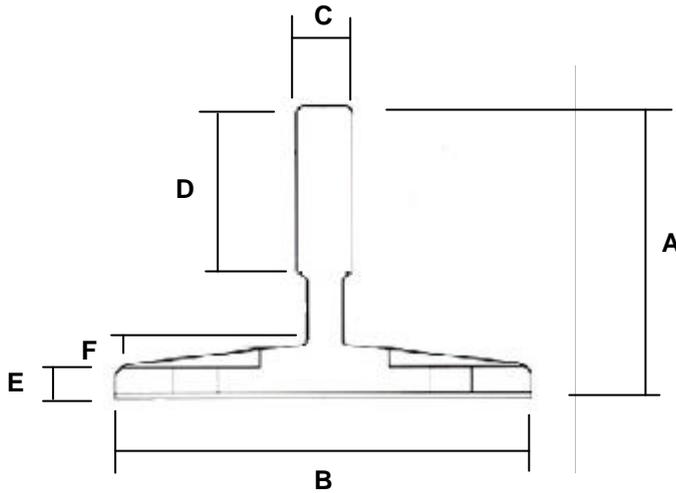
If upside down the hatch door hanger case to show the upthrust roller on the track, it looks like above. Between the surface of bottom and rear side of hatch door case, you find the hanger roller as above

GUIDE RAIL

When ordering, please check the size of guide rail and specification, because its dimensions decide all other parts, such as Safety device (safety gear), guide shoe, rail clip and other parts related to the Guide rail.

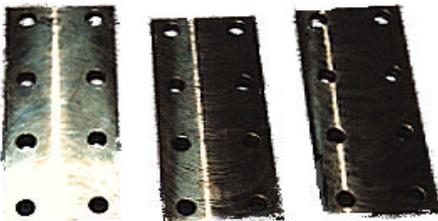
For your quick reference, we'd like you to review the dimension of Guide rail as following.

(The product specifications are classified by naming as **5K, 8K, 13K, 18 K and 24 K**, which K says kilogram in the weights of the part of 1 meter guide rail at 5 m total length.)

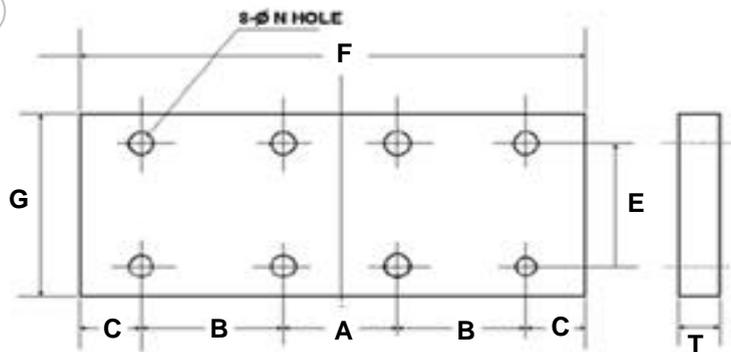


GUIDE RAIL	A	B	C	D	E	F
8K	55	78	10	26	6	8.5
13K(T89)	63	89	16	32	7.5	11.5
18K	88	114	16	38	8	11
24K(T127)	89	127	16	50	12.5	16

KS-108 Series



JOINT PLATE

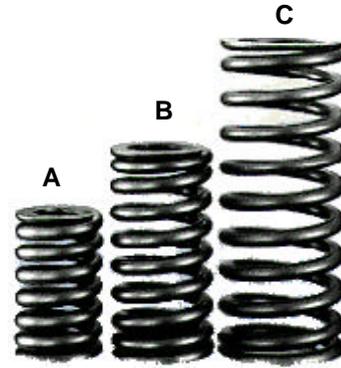
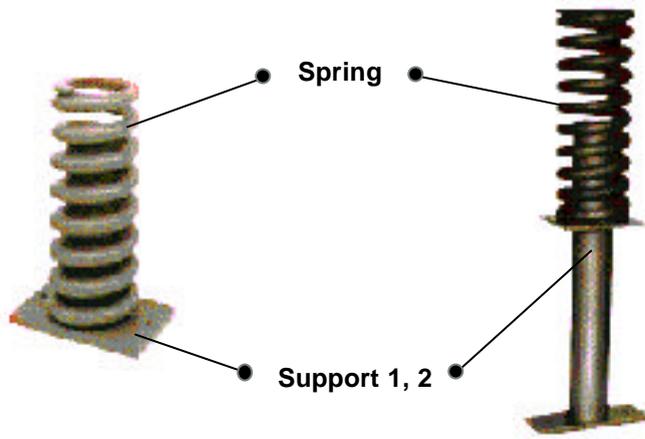


Joint plates are available in sizes of 8K, 13K, 18K and 24K, providing a straightness tolerance of Korean Elevator Standard. And all designs and manufacture of Plate can be supplied to meet the Customers requirements. Surface of plate is manufactured with special care and accurate measurements.

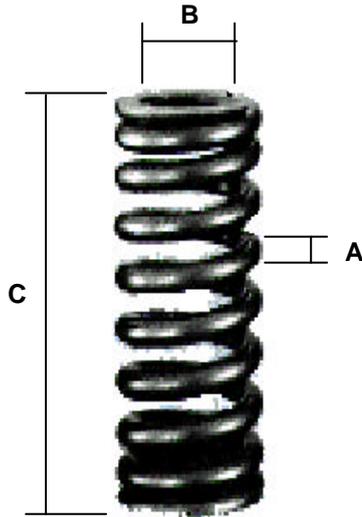
MODEL NO.	SPEC.	A	B	C	D	E	F	G	N	T
KS1081	8KG	76	76	26	12.5	50	280	75	13	12
KS1082	13KG	76	76	26	17	56	280	90	13	16
KS1083	18KG	76	76	26	22	71	280	115	17	19
KS1084	24KG	76	76	26	25	80	280	130	17	19

KS-1012 Series

SPRING BUFFER



A : Dumbwaiter
B : Passenger Elevator
C : Freight Elevator



Hot wound coil spring is coiled through hot working procedures and its material varies from **10mm(0.3937inches)** to **90mm(3.5433inches)** in diameter.
The cut end usually forms a round type.
But when it comes to usage for automobile manufacturing, the cut end shows a variation in diameter, or forms a square and some other various types of shape.
Among many types of coil springs, a cylinder type prevails and other types like a pig tail end type, a barrel type, circular type and so forth, are optionally applied to specific categories.

MODEL No.	A (Wire dia.)		B (Outside dia.)		No. of Turns	C (Free height)	
	mm	inch	mm	inch		mm	inch
KS1012-01	15	0.59	100	3.94	7	160	6.30
KS1012-02A	20	0.79	122	4.80	8.5	275	10.80
KS1012-02B	20	0.79	130	5.11	10.0	340	13.30
KS1012-02C	22	0.87	127	4.50	9.0	320	12.60
KS1012-03D	22	0.87	135	5.31	8.5	350	13.80
KS1012-03E	22	0.87	137	5.40	8.0	281	11.06
KS1012-03A	24	0.94	140	5.51	8.5	370	14.57
KS1012-03B	25	0.98	135	5.31	9.75	347	13.65
KS1012-03C	26	1.02	144	5.67	10.0	404	15.90
KS1012-03D	26	1.02	145	5.71	8.5	380	14.96
KS1012-03E	28	1.10	147	5.79	8.5	400	15.75
KS1012-03F	32	1.26	160	6.30	8	440	17.32
KS1012-03G	36	1.42	183	7.20	8.5	405	15.94

OIL BUFFER

KS-1011 Series



No. KS-1011A

Series KS-1011, Oil buffers answer your needs for easy to install, reliable and rugged car and counter weight oil buffers.

These buffers are readily mountable wherever reliable oil buffers are needed. Series KS-1011 Oil buffers are designed and built to confirm to strict engineering standards and JIS (Japanese Industrial Standard) safety code.

The following are included as standard item :
Body, Sheave, Weight, Overspeed Limit Switch.
If requested or require of automatic resetting,
wheel cover it is available to provide at
optional charges.



No. KS-1011B

Model No.	Min Load (Kg)	Max Load (Kg)	Stroke (mm)	Rated Speed (m/min)	Oil volume ()
KS1011-01	900	2500	165	60 ~ 90	1.8
KS1011-02	900	2500	225	90 ~ 105	2
KS1011-03	900	2500	325	120	3
KS1011-04	1000	5000	225	90 ~ 105	4
KS1011-05	1000	5000	325	120	6
KS1011-06	1000	5000	500	150	9
KS1011-07	1000	5000	760	180	13
KS1011-08	1000	5000	845	210	14.5
KS1011-09	1300	5500	740	180	20
KS1011-10	1500	5500	860	210	24
KS1011-11	1800	6500	1150	240	31