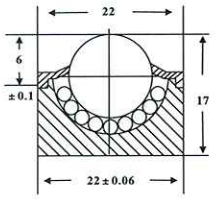
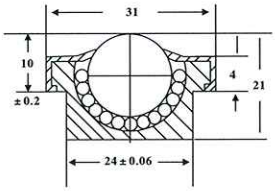
型号(TYPE)：SP12A/B/C/D

中国专利号（China Patent No):
ZL01253019.0 ZL200520013870.9



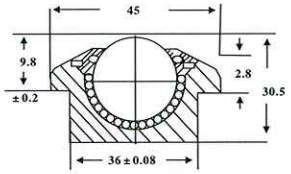
型号(TYPE)：SP15A/B/C/D

中国专利号（China Patent No):
ZL01253019.0 ZL200520013870.9



型号(TYPE)：SP22A/B/C/D

中国专利号（China Patent No):
ZL01246348.5 ZL200520013870.9

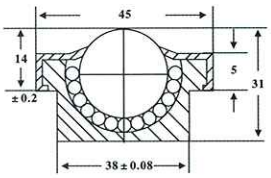


型号 Type	主球直径（m/m） Main Ball Diameter	主球直径（inch） Main Ball Diameter	动力负荷重（Kg） Dynamic Load Capacity	本品重量（Kg） Unit Weight	球和支撑底座材料 Ball & Support Cup Material	外壳材料 Housing Material
SP12	12.7	1/2"	30	0.035	钢质 Steel character	镀锌冷轧板C.R.S Zinc Plate
SP15	15.875	5/8"	60	0.06	钢质 Steel character	镀锌冷轧板C.R.S Zinc Plate
SP22	22.225	7/8"	180	0.185	钢质 Steel character	钢质 Steel character

A	主球和小球全为碳钢	All the main rolling balls and small bearing balls are made of cardon steel
B	主球和小球全为铬钢	All the main rolling balls and small bearing balls are made of chrome steel
C	主球和小球全为SUS420	All the main rolling balls and small bearing balls are made of the SUS420
D	主球为尼龙球小球为SUS420	All the main rolling balls are made of nylon and the small bearing balls are made of the SUS 420

型号(TYPE)：SP25A/B/C/D

中国专利号（China Patent No):
ZL01253019.0 ZL200520013870.9



型号(TYPE)：SP30A/B/C/D

中国专利号（China Patent No):
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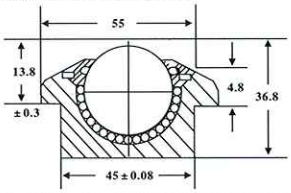
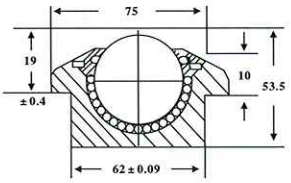


型号(TYPE)：SP45A/B/C/D

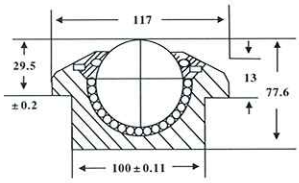
中国专利号（China Patent No):
ZL01246348.5 ZL200520013870.9



型号 Type	主球直径（m/m） Main Ball Diameter	主球直径（inch） Main Ball Diameter	动力负荷重（Kg） Dynamic Load Capacity	本品重量（Kg） Unit Weight	球和支撑底座材料 Ball & Support Cup Material	外壳材料 Housing Material
SP25	25.4	1"	200	0.19	钢质 Steel character	镀锌冷轧板C.R.S Zinc Plate
SP30	30.1625	1–3/16"	350	0.38	钢质 Steel character	钢质 Steel character
SP45	44.45	1–3/4"	600	1.1	钢质 Steel character	钢质 Steel character

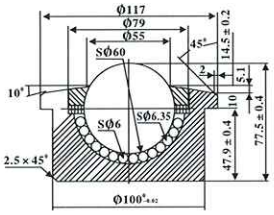
型号(TYPE)：SP60A/B/C/D

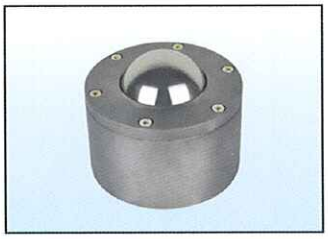
中国专利号（China Patent No):
ZL01246348.5 ZL200520013870.9



型号(TYPE)：SPM60A/B/C

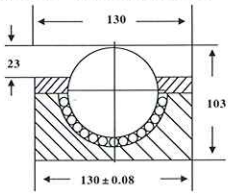
中国专利号（China Patent No):
ZL01246348.5 ZL200520013870.9

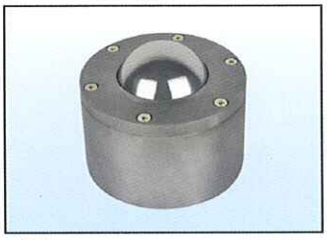




型号(TYPE)：SP76A/B/C

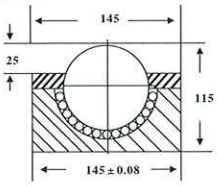
中国专利号（China Patent No):
ZL01246348.5 ZL200520013870.9





型号(TYPE)：SP90A/B/C

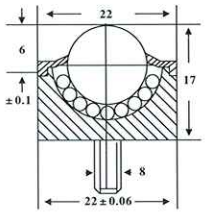
中国专利号（China Patent No):
ZL01246348.5 ZL200520013870.9



型号 Type	主球直径（m/m） Main Ball Diameter	主球直径（inch） Main Ball Diameter	动力负荷重（Kg） Dynamic Load Capacity	本品重量（Kg） Unit Weight	球和支撑底座材料 Ball & Support Cup Material	外壳材料 Housing Material
SP60	60	/	1500	3.81	钢质 Steel character	钢质 Steel character
SPM60	60	/	1500	3.82	钢质 Steel character	钢质 Steel character
SP76	76.2	3"	3000	10	钢质 Steel character	钢质 Steel character
SP90	90	/	4000	12	钢质 Steel character	钢质 Steel character

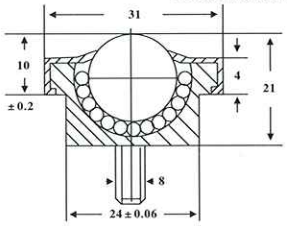
型号（TYPE）：SP12A/B/C/D(–FL)

中国专利号（China Patent No)：ZL01253019.0
ZL200520013870.9



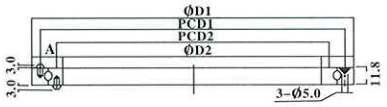
型号（TYPE）：SP15A/B/C/D(–FL)

中国专利号（China Patent No)：ZL01253019.0
ZL200520013870.9



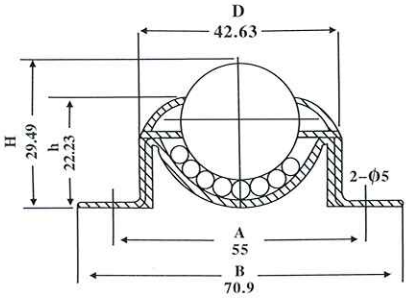
回转盘 IRH TYPE

双层圆形转盘，可360度自由转动，铝合金材质，
轻量化、强度高。
适用：电子业、电脑、家电等输送生产线使用。

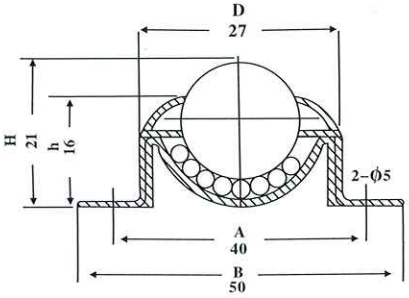


型号 Type	主球直径（m/m） Main Ball Diameter	主球直径（inch） Main Ball Diameter	动力负荷重（Kg） Dynamic Load Capacity	本品重量（Kg） Unit Weight	球和支撑底座材料 Ball & Support Cup Material	外壳材料 Housing Material
SP12–FL	12.7	1/2"	30	0.045	钢质 Steel character	镀锌冷轧板 C.R.S Zinc Plate
SP15–FL	15.875	5/8"	60	0.07	钢质 Steel character	镀锌冷轧板 C.R.S Zinc Plate

型 式 Type	Φ D1	Φ D2	PCD1	PCD 2	A	静止荷重（Kg） Static load
IRH–300	304	245	287	258	29.5	50
IRH–400	401	338	384	351	31.5	70
IRH–455	456	387	438	403	34.5	90



1" A

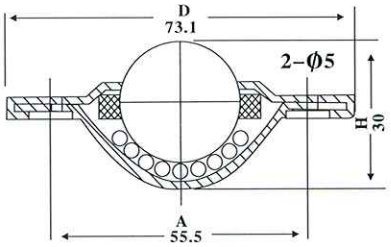


5/8" A

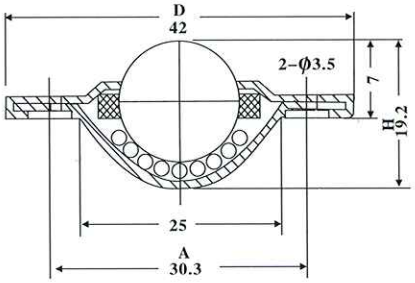
型号（TYPE）：1" A–5/8" A

中国专利号（China Patent No）：ZL01253018.2

本结构的钢壳底部凸缘上有两个安装孔，安装方便，适合于球向上的场合。
Its base has two holes for easy installation, The device can be used for the places where the ball should be facing up.



1" B



5/8" B

型号（TYPE）：1" B–5/8" B

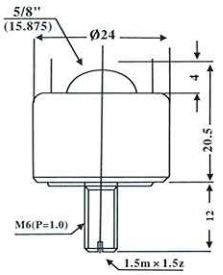
中国专利号（China Patent No）：ZL01253018.2

本结构为多用途的结构，适用于球向上安装飞碟型的凸缘上有两个安装孔，安装极为方便。
The device has the multiple applications, The device can be used for the places where ball should be facing up. Its saucer–shape base two holes for easy installation.

型号 Type	主球直径（m/m） Main Ball Diameter	主球直径（inch） Main Ball Diameter	动力负荷重（Kg） Dynamic Load Capacity	静止负荷重（Kg） Static Load Capacity	本品重量（Kg） Unit Weight	球和支撑底座材料 Ball & Support Cup Material	外壳材料 Housing Material
1" A	25.4	1"	29.5	34	0.145	镀锌冷轧板C.R.S Zinc Plate	镀锌冷轧板C.R.S Zinc Plate
5/8" A	15.875	5/8"	10	15	/	镀锌冷轧板C.R.S Zinc Plate	镀锌冷轧板C.R.S Zinc Plate
1" B	25.4	1"	45.5	57	0.148	镀锌冷轧板C.R.S Zinc Plate	镀锌冷轧板C.R.S Zinc Plate
5/8" B	15.875	5/8"	4	9	0.051	镀锌冷轧板C.R.S Zinc Plate	镀锌冷轧板C.R.S Zinc Plate

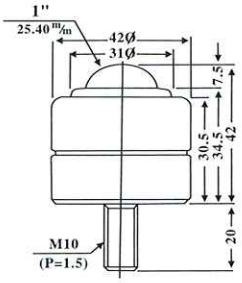
型号（TYPE）：C–5H

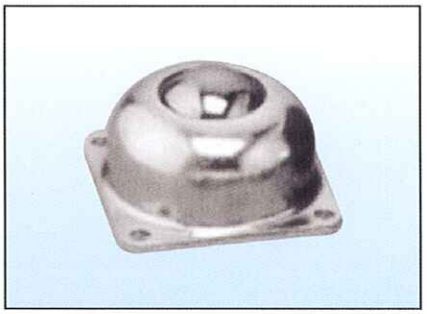
中国专利号（China Patent No）：ZL01253019.0
ZL200520013870.9



型号（TYPE）：C–8H

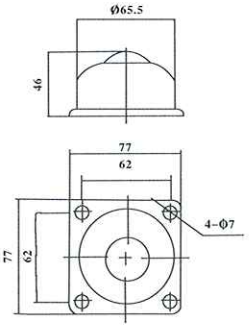
中国专利号（China Patent No）：ZL01253019.0
ZL200520013870.9



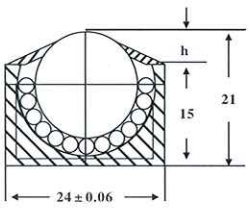


型号（TYPE）：4260 (1–1/2"钢球)

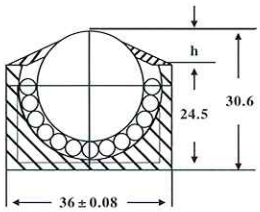
中国专利号（China Patent No）：ZL01253018.2



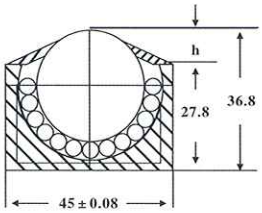
型号 Type	主球直径（m/m） Main Ball Diameter	主球直径（inch） Main Ball Diameter	动力负荷重（Kg） Dynamic Load Capacity	静止负荷重（Kg） Static Load Capacity	本品重量（Kg） Unit Weight	球和支撑底座材料 Ball & Support Cup Material	外壳材料 Housing Material
C–5H	15.875	5/8"	/	20	0.055	钢质 Steel character	钢质 steel character
C–8H	25.4	1"	/	80	0.33	钢质 Steel character	镀锌冷轧板C.R.S Zinc Plate
4260	38.1	1–1/2"	90	110	0.483	钢质 Steel character	钢质 steel character



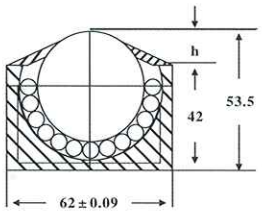
型号(TYPE): KSM15



型号(TYPE): KSM22



型号(TYPE): KSM30



型号(TYPE): KSM45

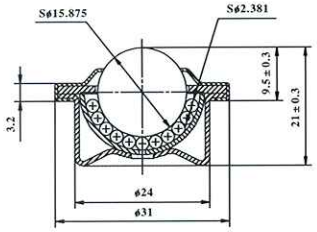
KSM 系列/series

中国专利号
China Patent No：ZL01246348.5
ZL200520013870.9

型号 Type	主球直径（m/m） Main Ball Diameter	主球直径（inch） Main Ball Diameter	动力负荷重（Kg） Dynamic Load Capacity	本品重量（Kg） Unit Weight	球和支撑底座材料 Ball & Support Cup Material	外壳材料 Housing Material
KSM15	15.875	5/8"	50	0.055	钢质 Steel character	钢质 Steel character
KSM22	22.225	7/8"	150	0.175	钢质 Steel character	钢质 Steel character
KSM30	30.1625	1–3/16"	300	0.32	钢质 Steel character	钢质 Steel character
KSM45	44.45	1–3/4"	530	0.98	钢质 Steel character	钢质 Steel character

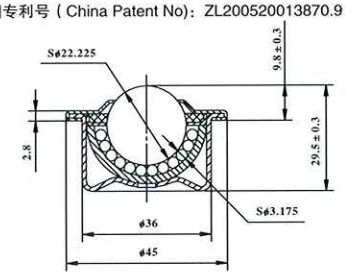
型号（TYPE）：KU30-115

中国专利号（China Patent No）：ZL200520013870.9



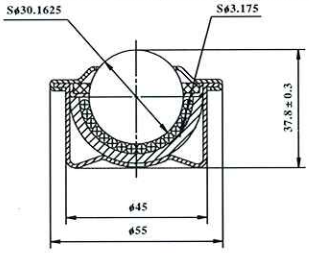
型号（TYPE）：KU30-122

中国专利号（China Patent No）：ZL200520013870.9



型号（TYPE）：KU30-130

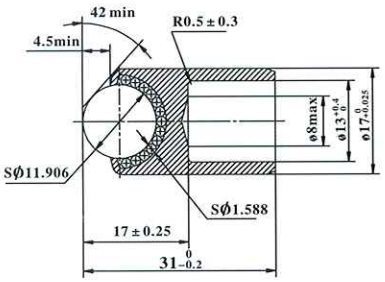
中国专利号（China Patent No）：ZL200520013870.9



型号 Type	主球直径（m/m） Main Ball Diameter	主球直径（inch） Main Ball Diameter	动力负荷重（Kg） Dynamic Load Capacity	本品重量（Kg） Unit Weight	球和支撑底座材料 Ball & Support Cup Material	外壳材料 Housing Material
KU30-115	15.875	5/8"	50	0.04	镀锌冷轧板 C.R.S Zinc Plate	镀锌冷轧板 C.R.S Zinc Plate
KU30-122	22.225	7/8"	120	0.13	镀锌冷轧板 C.R.S Zinc Plate	镀锌冷轧板 C.R.S Zinc Plate
KU30-130	30.1625	1-3/16"	200	0.266	镀锌冷轧板 C.R.S Zinc Plate	镀锌冷轧板 C.R.S Zinc Plate

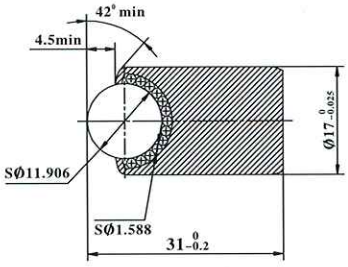
型号（TYPE）：APPEAR 1

中国专利号（China Patent No）：ZL200820087793.5

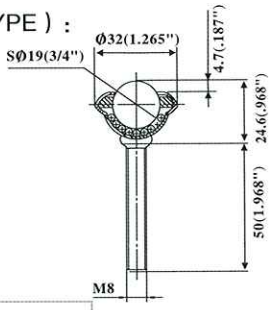


型号（TYPE）：APPEAR 2

中国专利号（China Patent No）：ZL200820087793.5



型号（TYPE）：3001



型号 Type	主球直径（m/m） Main Ball Diameter	本品重量（Kg） Unit Weight	外壳材料 Housing Material
APPEAR 1	11.906	0.03	钢质 steel character
APPEAR 2	11.906	0.046	钢质 steel character

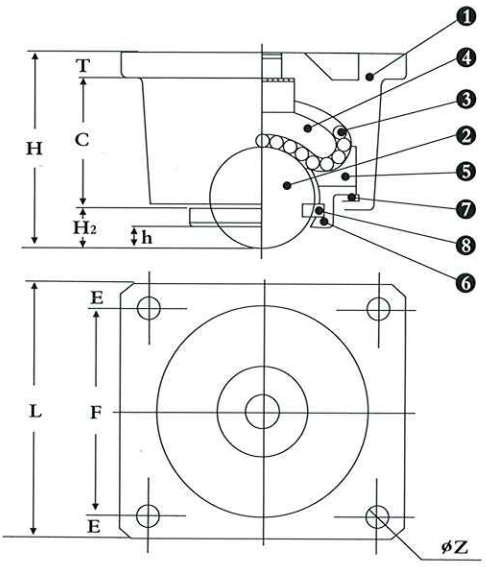
型号 Type	主球直径（m/m） Main Ball Diameter	向上使用负重 Load Capacity-up	向下使用负重 Load Capacity-Down
3001	19	25	10

本品重量（Kg） Unit Weight	球和支撑底座材料 Ball & Support Cup Material	外壳材料 Housing Material
0.06	钢质 steel character	镀锌冷轧板 C.R.S Zinc Plate

Ik 型活动型钢珠

Ik Movable Steel Ball

中国专利号（China Patent No)：ZL01253532.X



直角方向转换。可搬送重量物且球是向下型。
不但可以180度转动，也可直角（90度）的方向转换，非常好用的制品。
对重量物的搬送也很好用，例如1000公斤的东西只要用15公斤的力量。
最主要的用途是移动重量物，方向转换的台车，另外适合电脑室等比较敏感的环境做防震功用。
#装置简单。
It can not only make an 180-degree turn, but also can turn in right angle (90 degrees)and is a very good product. It is useful to carry heavy objects. For example,when carrying 1000kg objects, it only needs 15kg of thrust. It is most suitable for carrying heavy objects and wagons needing direction change. A shockproof function is available for sensitive environments, such as computer room.

#使用4个IK-51可荷重1000公斤，对方轨道硬度在HRC55左右时，始动阻力约15公斤，
材质是SS时是上述的2倍以上。
#Simple device
#4pieces of Ik-51 can be loaded with 1000kg. The initial resistant is about 15kg when the opposite rail hardness is about HRC55. The value is doubled when SS is used as material.

	名 称 Name	材 质 Material	处 理 Treatment
(1)	轴承本体 Bearing body	FC25	电镀 Electroplating
(2)	大 球 Large ball	SUJ2	
(3)	小 球 Small ball	SUJ2	
(4)	球 台 Ball table	钢质Steel character	热处理 Immersing carbon burning
(5)	球压板 Ball press board	S45C	
(6)	帽 盖 Cap	S45C	电镀 Electroplating
(7)	弹 簧 Spring	SUP3	
(8)	油 封 Oilseal	毛毡 Felt	

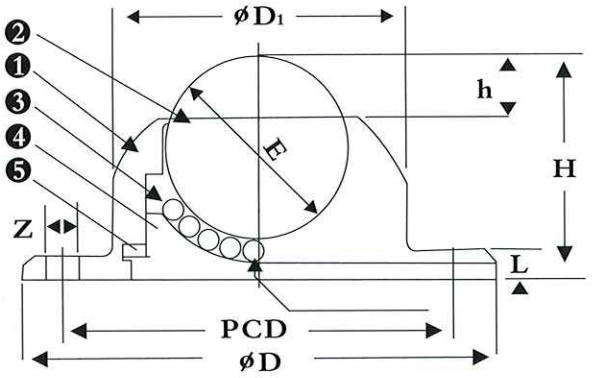
型 号 TYPE		H_2	h	C	E	F	T	H	L	4-ϕZ	自重 (kg) Self-weight	静止荷重 (kg) Static Load
IK-19	3/4"	4.0	3.5	24.0	6.0	43.0	5.0	33.0	55.0	6.0	0.37	100
IK-22	7/8"	5.0	4.5	30.0	7.5	45.0	5.0	40.0	60.0	6.0	0.50	150
IK-25	1"	6.5	6.0	35.5	7.5	55.0	8.0	50.0	70.0	7.0	0.90	200
IK-38	1-1/2"	12.0	9.50	53.0	10.0	80	10.0	75.0	100.0	9.0	2.70	350
IK-51	2"	20.0	13.0	68.0	14.0	102.0	12.0	100.0	130.0	11.0	5.50	450
IK-76	3"	30.0	16.5	100.0	20.0	160.0	20.0	150.0	200.0	18.0	19.80	700

IA–R型万向滚珠 Ball Transfer Units

中国专利号（China Patent No)：ZL01253018.2

用于航空货运、船舶、列车...等最适合，具高硬度且轻量型
IA 型万向滚珠，具耐衡转性
Suitable for air cargos, ships, trains, and so on with high hardness and low load type.

#可用于不特定的搬送物，本体为铝做的，球及托盘是由不锈钢作成，另外还有设计水孔可增强防锈功能。
#It can be used for carrying unspecific objects. The body is made of aluminum, the ball and tray are made of stainless steel. Water holes are designed to enhance its antirust function.



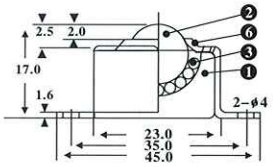
	名 称 Name
(1)	本 体 Body
(2)	不锈钢球 Stainless steel ball
(3)	不锈钢球 Stainless steel ball
(4)	托 盘 Tray
(5)	止间环 Check ring

注：铸铁、普通钢等材质。

型 号 TYPE		ϕD1	h	ϕD	E	H	L	PCD	4–ϕZ	自重 (kg) Self-weight	静止荷重(kg) Static Load
IA–19R	3/4"	40.0	6.5	67.0	19.05	26.0	5.0	55.0	5.5	0.15	180
IA–25R	1"	45.0	8.5	72.0	25.4	32.0	5.0	58.0	6.5	0.24	260
IA–38R	1–1/2"	60.0	13.0	95.0	38.1	47.0	6.0	80.0	6.5	0.52	400

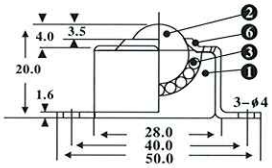
型号（TYPE）：IS-10

中国专利号（China Patent No）：ZL01253018.2



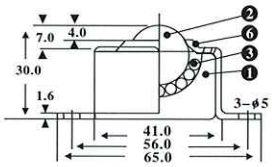
型号（TYPE）：IS-13

中国专利号（China Patent No）：ZL01253018.2



型号（TYPE）：IS-19

中国专利号（China Patent No）：ZL01253018.2



型号 Type	主球直径（m/m） Main Ball Diameter	静止负荷重（Kg） Static Load Capacity	球和支撑底座材料 Ball & Support Cup Material	外壳材料 Housing Material
IS-10	3/8"	70	钢质 Steel character	镀锌冷轧板 C.R.S Zinc Plate
IS-13	1/2"	80	钢质 Steel character	镀锌冷轧板 C.R.S Zinc Plate
IS-19	3/4"	180	钢质 Steel character	镀锌冷轧板 C.R.S Zinc Plate

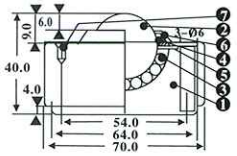
	（1）	（2）	（3）	（4）	（5）	（6）	（7）
名 称 Product name	万向滚球 Ball transfer units	钢 球 Steel balls	钢 球 Steel balls	封 盖 Cover plate	底 座 Bases		
材 料 Material	钢质 Steel character	SUJ_2	SUJ_2		钢 质 Steel character	SS	SS
处 理 Processed by	渗炭烧入 Carbon Infiltration					电 镀 Electrical plating	电 镀 Electrical plating
主球和小球全为 Chrome steel ball (All the main rolling balls and the small bearing balls are made of the chrome steel)							

型号(TYPE): IS-25

中国专利号

China Patent No：ZL01246348.5

ZL200520013870.9

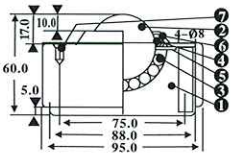


型号(TYPE): IS-38

中国专利号

China Patent No：ZL01246348.5

ZL200520013870.9

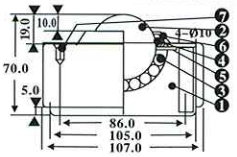


型号（TYPE）：IS-51

中国专利号

China Patent No：ZL01246348.5

ZL200520013870.9

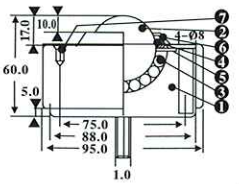


型号(TYPE): IS-25N & IS-38N

中国专利号

China Patent No：ZL01246348.5

ZL200520013870.9



型号 Type	主球直径（m/m） Main Ball Diameter	静止负荷重（Kg） Static Load Capacity	球和支撑底座材料 Ball & Support Cup Material	外壳材料 Housing Material
IS-25	1"	260	钢质 Steel character	镀锌冷轧板 C.R.S Zinc Plate
IS-38	1-1/2"	400	钢质 Steel character	镀锌冷轧板 C.R.S Zinc Plate
IS-51	2"	500	钢质 Steel character	镀锌冷轧板 C.R.S Zinc Plate

IS 型万向滚珠

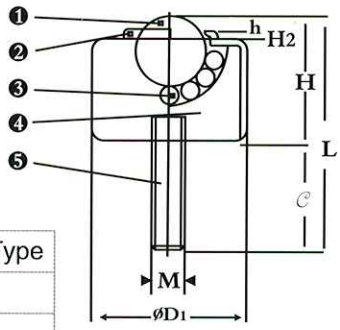
IS Type Ball Transfer Units

中国专利号（China Patent No)：ZL01253019.0

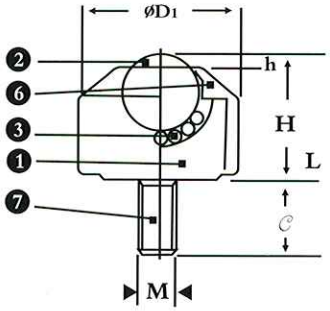
容易使用付螺丝型 Easy use with screws

IS 型的优点是可设置强硬的螺丝。
The advantage of IS is that it can be attached with hard and strong screws and can be used as a buffer between iron wires.

IS–S型



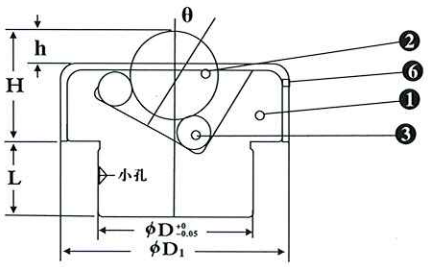
IS–N型



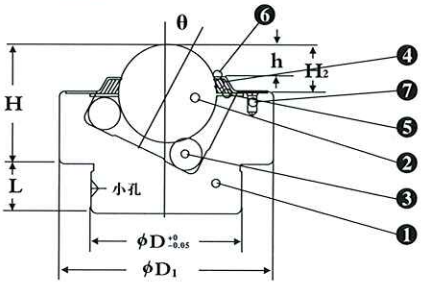
型号 Model No .		IS–N型 IS–N Type
	名 称 Name	材 质 Material
(1)	本 体 Body	钢质，热处理
(2)	钢 球 Steel ball	SUJ_2
(3)	钢 球 Steel ball	SUJ_2
(4)	油 封 0il seal	
(5)	垫 片 Washer	SS41
(6)	杯 座 Cupseat	SS41
(7)	螺 丝 Screw	SS

型 号 TYPE		H_2	h	ϕD_1	*e*	L	H	M	自重 (kg) Self-weight	静止荷重 (kg) Static Load
IS–05N	3/16"	–	1.0	8.0	2.5	8.5	6.0	M2	0.003	10
				13.0	15.0	24.0	9.0	M6	0.01	20
IS–06N	1/4"	–	1.0	13.0	6.0	16.5	10.5	M3	0.011	18
			2.0	17.0	15.0	26.0	11.0	M6	0.02	35
IS–08N	5/16"	–	1.0	15.0	8.0	20.5	12.5	M4	0.021	25
			2.0	18.0	18.0	32.0	14.0	M8	0.03	50
IS–10N	3/8"	2.5	2.0	23.0	20.0	40.0	20.0	M8	0.06	70
IS–13N	1/2"	4.8	3.5	23.0	23.0	48.0	25.0	M8	0.10	80
IS–16N	5/8"	–	4	24.0	12.0	32.5	20.5	M6	0.05	120

S-05~S-13



S-22~S-76



S 型行程轴承万向滚珠（单向）

S Stroke Bearing Universal Ball

中国专利号（China Patent No)：ZL01253533.8

把握正确方向，能长行程运动 Easily controlled direction for long stroke movement

适合于无需360度自由回转时，或有不定的方向控制时使用，另外磨擦系数少但能取得长行程的运动的特点。

It is suitable for the situation in which orientation control is sometimes needed in free rotation but without the need of 360-degree rotation. It features in long stroke movement with low friction factor.

主要用于回转桌及重物移动的润滑面、送料装置用，以活塞运动为原理的行程及搬运台均可利用。

It is mainly used for rotation tables and feeding devices with lubricated smooth surface and for carrying tables moving based on the principle of piston movement.

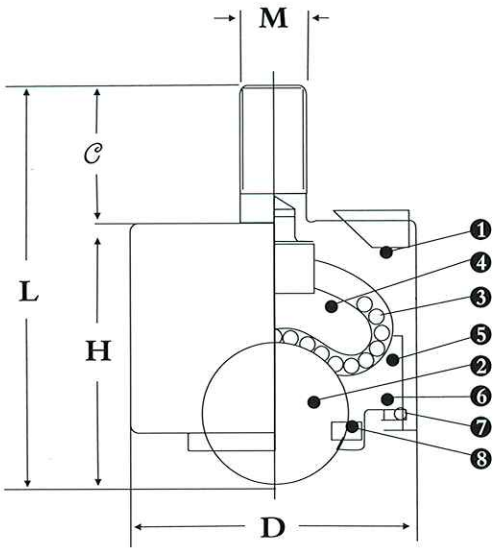
	名 称 Name	材 质 Material	处 理 Treatment
(1)	轴承本体 Bearing body	钢质Steel character	热处理 Immersing carbon burning
(2)	大 球 Large ball	SUJ_2	
(3)	小 球 Small ball	SUJ_2	
(4)	油 封 Oil seal	毛毡Felt	
(5)	座 Seat	SS	
(6)	帽 盖 Cap	SS	电镀 Electroplating
(7)		SS	电镀 Electroplating

型 号 TYPE		θ	H	H_2	h	L	φD	φD_1	X 偏心 Xdias	自重 (kg) Self-weight	静止荷重 (kg) Static Load
S-05	3/16"	25.0	5.38	1.5	1.0	5.0	8.0	12.2	2.5	0.005	30
S-06	1/4"	25.0	7.17	2.5	1.8	6.0	12.0	16.2	2.6	0.010	40
S-08	5/16"	25.0	8.97	2.0	2.0	8.0	13.0	19.2	2.6	0.020	50
S-10	3/8"	25.0	12.0	3.0	3.0	9.0	17.0	26.0	3.4	0.05	70
S-13	1/2"	25.0	15.0	4.0	4.0	11.0	20.0	38.0	5.0	0.110	90
S-22	7/8"	25.0	25.0	9.0	6.5	17.0	35.0	52.0	6.0	0.370	230
S-25	1"	25.0	31.0	11.0	8.5	18.0	37.0	60.3	6.0	0.570	270
S-38	1-1/2"	28.0	47.45	14.0	10.3	25.0	59.0	85.0	8.0	1.700	370
S-51	2"	28.0	61.0	23.0	16.0	25.0	76.0	110.0	8.0	3.600	550

IK –N 型附螺丝万向滚珠（向下型）

IK -N Universal Ball with Attached Screws (Downwards)

中国专利号（China Patent No)：ZL01253532.X



装置简单的螺丝杆体型 Simplified screws rod body

为增加强度，轴承本体使用S45C

4个IK–38可荷重700kg，对方轨道硬度在HRC55左右时其始动阻力约10KG材质为SS时为是上述的2倍以上。

#Bearing body used S45C for strengthening

#4pieces of IK–35 can be loaded with 700kg. The initial resistant is about 10kg when the opposite rail hardness is about HRC55.
The value is doubled when SS is used as material.

因为球的硬度为HRC62，请注意对方的硬度，依硬度的上下值均可影响始动阻力值上下值。

Because the hardness of the ball is HRC62. Pay attention to the hardness of the opposite object. The up/down may influence up/down values of the initial resistance

	名 称 Name	材 质 Material	处 理 Treatment
(1)	轴承本体 Bearing body	S45C	电镀 Electroplating
(2)	大 球 Large ball	SUJ2	
(3)	小 球 Small ball	SUJ2	
(4)	球 台 Ball table	钢质Steel character	热处理 Immersing carbon burning
(5)	球压板 Ball press board	S45C	
(6)	帽 盖 Cap	S45C	电镀 Electroplating
(7)	弹 簧 Spring	SUP3	
(8)	油 封 Oilseal	毛毡 Felt	

IS–B型 标准型

型 号 TYPE		ϕD	H	e	M	L	自重 (kg) Self-weight	静止荷重 (kg) Static Load
IK–19N	3/4"	42.0	33.0	25.0	P=1.75M12	58.0	0.29	100
IK–22N	7/8"	47.0	37.0	25.0	P=1.75M12	62.0	0.38	150
IK–25N	1"	55.0	46.0	35.0	P=2.0 M16	81.0	0.70	200
IK–38N	1–1/2"	80.0	70.0	45.0	P=2.5 M22	115.0	2.00	350
IK–51N	2"	100.0	95.0	50.0	P=3.0 M24	145.0	4.40	450