Kingsmagnet

2024

XIAMEN KINGS MAGNET CO., LTD. MAGNETIC SOLUTIONS SPECIALIST

Since 2014, KINGS MAGNET be founded in Xiamen, China. We specialize in provide Permanent magnets and magnetic assemble. Over the years, through the tireless efforts and hard work of all our teams, we have won the trust and support of customers at domestic and overseas. Europe and USA is our main market. We have obtained ISO9001:2015 certifications.



TABLE CONTENT

- About Company
- Meet Our Team
- Our Power
- Neodymium magnets
- Alnico magnets
- SmCo magnets
- Ferrite Magnets



TABLE CONTENT

- Magnetic Assembly 1.Pot Magnet
- 2. Hook Magnet
- 3. Push Pin Magnet
- 4. Rubber Coated Magnet
- 5. Name Badge Magnet
- 6. Magnetic Lifter
- 7. Metal Separations
- 8. Magnetic Wheel





ABOUT COMPANY

KINGS has been adhering to the business philosophy of "Customer focus,keep innovation,harmonious development" since its establish. And will continue to keep advanced technology,perfect service,scientific quality control to produce our magnets,truly satisfy our customers to applicability,economy demand and reliability.

KINGS MAGNET is a high-tech enterprise which integrate development, design, production, marketing of NdFeB magnet, Alnico magnet, Ferrite magnet, SmCo magnet and Magnetic assembly.

We are committed to research and production of high-performance, highprecision, complex magnets, in order to meet the requirements of KINGS MAGNET is a high-tech enterprise which integrate development, design, production, marketing of NdFeB magnet, Alnico magnet, Ferrite magnet, SmCo magnet and Magnetic assembly.

We are committed to research and production of high-performance, highprecision, complex magnets, in order to meet the requirements of special motors, sensors to work in complex conditions, such as high temperature stability,.We developed low weight loss, low temperature coefficient products, which had great consistency and the aging testing performance excellent. special motors, sensors to work in complex conditions, such as high temperature stability,.We developed low weight loss, low temperature coefficient products, which had great consistency and the aging testing performance excellent. which had great consistency and the aging testing performance excellent.

MEET OUR TEAM

Organizational Chart



Sales of Kings Magnet (in 2019-2023)





OUR **POWER**

CERTIFICATE:



PARTNER:



OTHER INFORMATION:

- Structure area:10000 m²
- Workers:205
- Production: 106
- Annual production: 2000T
- Production lines: 9
- Automation equipment: 98
- Semi-automatic equipment: 110



Production Facilities And Technology Centres



Product Applications





Exhibitions

















NEODYMIUM MAGNETS

NdFeB magnet is the most powerful and advanced permanent magnet today,has high remanence, high coercive force, high energy. NdFeB magnet is easily formed into various shape and sizes,and belong to one of the most widely used magnetic materials. Especially suitable for development of high-performance,compact and light products.





参数	Parameter	单位 Unit	指标 Standard
居里温度	Curie Temperature	°C	310-380
Br可逆温度系数	αBr	%/°C	-0.1~-0.12
HCJ可逆温度系数	βНСЈ	%/°C	-0.38~-0.8
最高工作温度 Maximum Operating Temperature		°C	80-250
密度	密度 Density		≥7.40-7.80
维氏硬度	维氏硬度 Vickers Hardness		550-650
拉弯强度	Bending Strength	Мра	250
抗拉强度	Tensile Strength	Мра	80
抗压强度	Compressive Strength	Мра	1000-1200
电阻率	Electrical Resistance	μΩ•cm	130-160
热传导率	Thermal Conductivity	W/(m • K)	6-8
杨氏模量	Young's Modulus	GPa	150
膨胀系数	Coefficient of Thermal Expansion	10- ⁶ /°C	// 5.5-6.5(平行于取向方向) 丄-2.5~-1.5(垂直于取向方向)

Typical Physical Properties

Available Coatings of Sintered NdFeB Magnet

1. There is different salt spray test results, if the plating technology is different. 2. Salt spay test results, which is plated by Grinding(Small size Magnets), is better than the one, which is coated by Hanging up(Big size Magnets)



Magnetic Parmeter and Conversion Table

参数及表示	参数及表示 Unit and Symbol		单位换算 Conversion Table
磁感应强度 B	Flux density B	T(Tesla)	1T=10kGs
磁极化强度 J	Polarzation J	T(Tesla)	1T=10kGs
磁场强度 H Magnetic field intensity H		KA/M	1KA/m=12.570e
磁积能(BH)m Energy density(BH)m			1KJ/m³=0.126MGOe
磁通Φ	Magnetic flux Φ	Wb(Weber)	1WB=108MX

B-H Curve

B-H curve of NdFeB magnets reflects their strong magnetic properties, including high remanence, high coercivity, and saturation characteristics, making them valuable for a wide range of applications where strong magnetic fields are required.



Magnetic Properties of Sintered NdFeB Magnet



Maximum Working Temperature corresponding to each series:

- N series: 80°C
- M series: 100°C
- H series: 120°C
- SH Series: 150°C
- UH Series: 180°C
- EH Series: 200°C
- AH Series: 220°C



Laminated Magnets & Radial Oriented Ring Magnets

Laminated magnets, comprised of stacked layers of thin magnetic materials insulated with nonmagnetic coatings, offer a solution to reduce eddy current losses, improve thermal stability, and tailor magnetic properties for specific applications. By disrupting the path of eddy currents and minimizing heat transfer between layers, laminated magnets enhance efficiency and reduce the risk of demagnetization at elevated temperatures. Their flexibility in design allows for the optimization of magnetic characteristics such as flux density and coercivity, while also offering improved vibration damping properties. Widely utilized in electric motors, generators, sensors, and magnetic resonance imaging systems, laminated magnets provide a versatile and effective solution for enhancing the performance and reliability of magnetic systems across diverse industries.





Radially oriented ring magnets are a specialized type of magnet where the magnetic field is oriented radially along the circumference of the ring, rather than axially along its height. This unique orientation offers distinct advantages in certain applications, particularly in motors, generators, and sensors where a radial magnetic field is desired. By carefully arranging the magnetic material during manufacturing, radially oriented ring magnets can achieve specific magnetic characteristics tailored to the requirements of the application. These magnets are commonly used in brushless DC motors, magnetic encoders, magnetic couplings, and various other devices where a radial magnetic field is essential for optimal performance.

Dimensions of Radial Oriented Ring Magnet











Uni-pole on OD and ID

Multi-pole radially magnetization

Skewed Magnetization

Multi-pole on OD and ID

Dimension	Size Range	Tolerance	Coaxiality	Cylindricity		
Outer diameter (OD)	20-75MM					
Inner diameter (ID)	15-68MM	+0.05mm	0.1mm	0.04mm		
Magnet wall thickness (T)	2-7MM	10.05mm	0.1mm			
Height (H)	5-50MM					
Coating	NiCuNi,Epoxy,etc.					

• Product Applications:

- 1. Brushless DC Motors: Efficient torque generation and precise control in compact motors, commonly used in electric vehicles and robotics.
- 2. Magnetic Encoders: Accurate angular position sensing in rotary motion applications, enabling precise feedback in industrial automation and robotics.
- 3. Magnetic Couplings: Non-contact torque transmission between rotating shafts, ideal for pumps, mixers, and medical devices.
- 4. Sensors: Detection of radial magnetic fields for proximity, speed, and position sensing in industrial automation and automotive applications.
- 5. Magnetic Bearings: Non-contact support and stabilization of rotating shafts, offering frictionless operation and maintenance-free performance in machinery and precision instruments.

Advantage:

- 1. Assembly technique:Less parts, simplify assembly process, easily realize automatic assembly.
- 2. Product precision:Out diameter higher precision, better coaxiality and verticality.
- 3. Magnetization way: Flexible to choose different ways of magnetizing, include magnetizing poles and angles.
- 4. Safty: Highly reliable, no risk of magnet peel off.

Halbach Array Magnet





 $\uparrow \leftarrow \downarrow \rightarrow \uparrow \leftarrow \downarrow \rightarrow \uparrow$



Cylinder Halbach Arrays



Linear Halbach Arrays:

A Halbach Array is a special arrangement of permanent magnets that augments the magnetic field on one side of the array while reducing the field to near zero on the other side. This was achieved by having a spatially rotating of magnetization.

High and uniform magnetic field will be produced by Halbach Array in a certain area, and its magnetic field can also exceed the Remanence of the magnetic material itself. **Application:**

• Linear Halbach Arrays:

Such as the brushless AC motor, voice coils, magnetic drug targeting to high-tech applications, such as wiggler magnets which are used in Particle accelerators and Free-electron lasers.

• Cylinder Halbach Arrays:

Such as brushless AC motors, magnetic couplings and high field cylinders.



ALNICO MAGNETS

Alnico magnets, comprising aluminum, nickel, cobalt, and iron, possess inherent resistance to corrosion and endure temperatures up to 550°C (1,022°F) without losing magnetic properties. They're renowned for their robustness and suitability for high-demand applications like motors and sensors. While coatings can enhance longevity, Alnico's natural corrosion resistance makes it ideal for harsh environments.





Product Applications

Alnico Magnet is composed primarily of Aluminum,Nickel, Cobalt,Copper and Iron. It have very good corrosion resistance and high max working temperature can reach 550deg.C.

Although other materials offer greater energy and coercivity values, the high remanence and thermal stability of Alnico makes it the most cost effective material for certain applications, like generator, microphone lifting, voltmeters and measuring instruments. It is widely applied in high stability fields as aerospace, military, automobiles and security system.

Physical Properties of Cast Alnico Magnet

Curie Temperature (°C)	760-890
Max.Operating Temperature (°C)	450-550
Resistivity (μohm.cm)	47-54
Hardness (Hv)	520-630
Density (g/cm³)	6.90-7.30
Relative Recoil Permeablility (µrec)	1.70-4.70
Saturation Field Strength (KOe,KA/m)	2.7-6.3 /215-500
Temperature Coefficient of Br (%/°C)	-0.025 ~-0.02
Temperature Coefficient of HCJ (%/°C)	+0.01~+0.03





Types of Alnico Magnet

Alnico magnets are divided into 2 types, based on their manufacturing processes.

- Cast alnico
- Sintered alnico

Characteristics:

The cast alnico process can be machined to different sizes and shapes. Compared with the casting process, sintered products are limited to small sizes, and the blanks produced have better dimensional tolerances than cast blanks, with slightly lower magnetic properties than cast products, but with better machinability.

Grade	us US		Remanence		Coercive For ce		Max. Energy Product		Density	Reversible Temp. Coefficient	Work Temp	Remark	
	standard		Br	н	.CJ	H	НСВ		l)max	a/cm3	α(Br)	тw	
		mT	Gs	KA/m	Oe	KA/m	Oe	KJ/m3	MGOe	g/cm3	%/°C	°C	
SLN8	Alnico3	520	5200	43	540	40	500	8-10	1.0-1.25	6.8	-0.02	450	
SLNG12	Alnico2	700	7000	43	540	40	500	12-14	1.5-1.75	7.0	-0.014	450	Isotropic
SLNGT18	Alnico8	600	6000	107	1350	95	1200	18-22	2.25-2.75	7.2	-0.02	550	
SLNGT28	Alnico6	1000	10000	57	710	56	700	28-30	3.5-3.8	7.2	-0.02	525	
SLNG34	Alnico5	1100	11000	51	640	50	630	34-38	3.5-4.15	7.2	-0.016	525	
SLNGT31		780	7800	106	1130	104	1300	33-36	3.9-4.5	7.2	-0.02	550	
SLNGT38	Alnico8	800	8000	126	1580	123	1550	38-42	4.75-5.3	7.2	-0.02	550	Anisotropic
SLNGT42		880	8800	122	1530	120	1500	42-48	5.3-6.0	7.25	-0.02	550	
SLNGT33J	Alpico8HC	680	6800	151	1885	140	1750	33-36	4.1-4.5	7.2	-0.02	550	
SLNGT40J	AUTICOOFIC	800	8000	156	1950	144	1800	43-47	5.4-5.9	7.2	-0.02	550	

Sintered Alnico Magnet Properties Table

Cast Alnico Magnet Properties Table

Grades	US	Rema	anence	Coei Fo	rcive rce	Maxi Ene Proc	mum ergy duct	Density	Reversible Temp. Coefficient	Reversible Temp. Coefficient	Work Temp.	Remark
	standard		Br	н	СВ	BH(I	nax)	r / a ma3	a(Br)	a(Hc)	τw	
		mT	Gs	KA/m	Oe	KJ/m³	MG0e	g/cm-	%/°C	%/°C	°C	
LN9		680	6800	30	380	9	1.13	6.9		-0.02		
LN10	ALINICOS	600	6000	40	500	10	1.2	0.5	-0.03	0.02	450	Isotropic
LNG12		720	7200	45	500	12.4	1.55	7.2	-0.03		450	Isotropic
LNG13	ALINICOZ	700	7000	48	600	12.8	1.6	1.2				
LNGT18	ALNICO8	580	5800	100	1250	18	2.2		-0.03		550	
LNG37		1200	12000	48	600	37	4.65			+0.02		
LNG40	ALNICO5	1250	12500	48	600	40	5					
LNG44		1250	12500	52	650	44	5.5		-0.02		525	
LNG52	ALNICO5DG	1300	13000	56	700	52	6.5		0.02		020	
LNG60	ALNICO5-7	1350	13500	59	740	60	7.5					
LNGT28	ALNICO6	1000	10000	57.6	720	28	3.5			+0.03		
LNGT36J	ALNICO8HC	700	7000	140	1750	36	4.5	7.3				Anisotropic
LNGT32		800	8000	100	1250	32	4					
LNGT38	ALNICO8	800	8000	110	1380	38	4.75					
LNGT40		820	8200	110	1380	40	5					
LNGT60		950	9500	110	1380	60	7.5		-0.025	+0.02	550	
LNGT72		1050	10500	112	1400	72	9					
LNGT80	ALNICO9	1080	10800	123	1540	80	10					
LNGT88		1100	11000	126	1575	88	11					
LNGT92		1150	11500	126	1575	92	11.5					

SMCO MAGNETS

Samarium cobalt magnet is mainly made of Cobalt,Samarium and other rare earth elements.Its advantage is the maximum operating temperature up to 350 ° C and its good corrosion and oxidation resistance.Samarium cobalt magnets, therefore do not need to be coated.It is widely used in motors, meters,sensors,detectors, engine, radar and other high-tech fields.



Product Applications

Samarium cobalt magnets belong to rare earth magnets, which are the earliest magnetic materials put into commercial application.

The operating temperature range of the magnets is from 250 to 350°C. They are also highly resistant to corrosion and oxidation, so samarium cobalt magnets usually work well without coatings.

It is widely used in sensors, detectors, transmitters, radar and other high-tech fields.



Physical Properties of SmCo Magnet

Samarium Cobalt (SmCo) magnets come in 2 main types:

Sm1Co5 (1-5) and Sm2Co17 (2-17). The maximum energy product for Sm1Co5 ranges from 15 to 24 MGOe, with a maximum operating temperature of 250°C. For Sm2Co17, the range is 22 to 32 MGOe, with a maximum operating temperature of 350°C. While SmCo magnets are incredibly strong, with a maximum energy product reaching 52 MGOe, they offer slightly lower values, yet exceptional stability and corrosion resistance, ideal for demanding applications.



Samarium Cobalt Magnet Performance Table

Material	Grade	E	Sr	н	СВ	HC.	J	(BH)r	nax	Work Temp.
		Т	KGS	KA/m	KOe	KA/m	KOe	KJ/m3	MGOe	°C
	YX-16s	0.79-0.84	7.9-8.4	620-660	7.8-8.3	≥1830	≥23	118-135	15-17	250
	YX-18s	0.84-0.89	8.4-8.9	660-700	8.3-8.8	≥1830	≥23	135-151	17-19	250
SmCo5	YX-20s	0.89-0.93	8.9-9.3	684-732	8.6-9.2	≥1830	≥23	150-167	19-21	250
	YX-22s	0.92-0.96	9.2-9.6	710-756	8.9-9.5	≥1830	≥23	167-183	21-23	250
	YX-24s	0.96-1.00	9.6-10.0	740-788	9.3-9.9	≥1830	≥23	183-199	23-25	250
	YXG-24H	0.95-1.02	9.5-10.2	692-764	8.7-9.6	≥1990	≥25	175-191	22-24	350
	YXG-26H	1.02-1.05	10.2-10.5	748-796	9.4-10.0	≥1990	≥25	191-207	24-26	350
	YXG-28H	1.03-1.08	10.3-10.8	756-812	9.5-10.2	≥1990	≥25	207-220	26-28	350
	YXG-30H	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≥1990	≥25	220-240	28-30	350
	YXG-32H	1.10-1.13	11.0-11.3	812-860	10.2-10.8	≥1990	≥25	230-255	29-32	350
	YXG-22	0.93-0.97	9.3-9.7	676-740	8.5-9.3	≥1433	≥18	160-183	20-23	300
	YXG-24	0.95-1.02	9.5-10.2	692-764	8.7-9.6	≥1433	≥18	175-191	22-24	300
	YXG-26	1.02-1.05	10.2-10.5	748-796	9.4-10.0	≥1433	≥18	191-207	24-26	300
	YXG-28	1.03-1.08	10.3-10.8	756-812	9.5-10.2	≥1433	≥18	207-220	26-28	300
	YXG-30	1.08-1.10	10.8-11.0	788-835	9.9-10.5	≥1433	≥18	220-240	28-30	300
Sm2Co17	YXG-32	1.10-1.13	11.0-11.3	812-860	10.2-10.8	≥1433	≥18	230-255	29-32	300
	YXG-26M	1.02-1.05	10.2-10.5	676-780	8.5-9.8	955-1433	12-18	191-207	24-26	300
	YXG-28M	1.03-1.08	10.3-10.8	676-796	8.5-10.0	955-1433	12-18	207-220	26-28	300
	YXG-30M	1.08-1.10	10.8-11.0	676-835	8.5-10.5	955-1433	12-18	220-240	28-30	300
	YXG-32M	1.10-1.13	11.0-11.3	676-852	8.5-10.7	955-1433	12-18	230-255	29-32	300
	YXG-24L	0.95-1.02	9.5-10.2	541-716	6.8-9.0	636-955	8-12	175-191	22-24	250
	YXG-26L	1.02-1.05	10.2-10.5	541-748	6.8-9.4	636-955	8-12	191-207	24-26	250
	YXG-28L	1.03-1.08	10.3-10.8	541-764	6.8-9.6	636-955	8-12	207-220	26-28	250
	YXG-30L	1.08-1.15	10.8-11.5	541-796	6.8-10.0	636-955	8-12	220-240	28-30	250
	YXG-32L	1.10-1.15	11.0-11.5	541-812	6.8-10.2	636-955	8-12	230-255	29-32	250



FERRITE MAGNETS

Ferrite magnets, also called ceramic magnets, are made from iron oxide and strontium or barium carbonate. They're known for being low-cost, durable, and resistant to demagnetization and corrosion. They're widely used in applications like speakers, motors, and magnetic separators.



Product Applications

Ferrite Magnet is made of SrO or BaO and Fe2O3 by ceramic processing technology. They are widely used in loudspeakers, motors, electronic car motors, home fitness equipment and others industry area.

The products appear in rings, disks, blocks, segments, etc.



B-H Curves of Ferrite Magnets

Ferrite Magnet Performance Table - Industry standard

Grade	Remanence		Coerd	civity	IntrinsicC	Coercivity	Max Energy Product	
	Br(mT)	Br(Gs)	HCB(KA/m)	HCB(Oe)	HCJ(KA/m)	HCJ(Oe)	(BH)max (KJ/m3)	(BH)max (MGOe)
Y10T	≥200	≥2000	≥125	≥1600	≥210	≥2600	≥6.5	≥0.8
Y20	≥360	≥3600	≥135	≥1700	≥140	≥1760	≥20.0	≥2.5
Y25	≥380	≥3800	≥144	≥1800	≥150	≥1880	≥24.0	≥3.0
Y30	≥390	≥3900	≥184	≥2300	≥188	≥2350	≥27.6	≥3.4
ҮЗОВН	≥390	≥3900	≥240	≥3000	≥256	≥3200	≥27.6	≥3.4
Y35	≥410	≥4100	≥208	≥2600	≥212	≥2660	≥30.4	≥3.8

Matarial	Br		н	СВ	H	CJ	(BH)max	
Material	mT	KG	KA/m	KOe	KA/e	KOe	kJ/m3	MGOe
C1	230	2.3	148	1.86	258	3.5	8.36	1.05
C5	380	3.8	191	2.4	199	2.5	27	3.4
C7	340	3.4	258	3.23	318	4.00	21.9	2.75
C8(=C8A)	385	3.85	235	2.95	242	3.05	27.8	3.5
C8B	420	4.2	232	2.913	236	2.96	32.8	4.12
C9	380	3.8	280	3.516	320	4.01	26.4	3.32
C10	400	4	288	3.617	280	3.51	30.4	3.82
C11	430	4.3	200	2.512	204	2.56	34.4	4.32

Ferrite Magnet Performance Table - US standard

POT MAGNETS

Pot magnets are strong magnets encased in steel cups, offering concentrated magnetic force on one face. They're used for holding, gripping, and mounting in industrial and commercial applications.





Effect of Stainless Steel Shells on Magnets

Stainless steel shells can affect magnets by shielding their magnetic field. This reduces the strength of the magnetic force outside the shell but concentrates it on the exposed face, making them useful for applications requiring directional force. Additionally, stainless steel shells provide protection against corrosion and mechanical damage, extending the magnet's lifespan.

Schematic diagrams of shelled and unshelled magnetic fields





NdFeB Pot Magnet



Countersunk Hole Pot Magnet - Type KM-SNA & LNA







Model	D(mm)	d(mm)	d1(mm)	H(mm)	Weight(g)	Breakaway(kg)
KM-SNA12	12	3.5	6.5	4.5	4	2.5
KM-SNA16	16	3.5	6.5	5	7	6
KM-SNA20	20	4.5	8.6	7	14	11
KM-SNA25	25	5.5	10.6	8	25	20
KM-SNA32	32	5.5	10.6	8	42	32
KM-SNA36	36	6.5	11.3	8	54	43
KM-SNA42	42	6.5	11.3	8.6	78	65
KM-LNA48	48	8.5	15.5	11	138	75
KM-LNA55	55	8.5	14.5	12	205	95
KM-LNA60	60	8.5	14.5	15	305	160
KM-LNA70	70	10.5	16.5	17	485	210
KM-LNA75	75	10.5	16.5	18	560	250
KM-LNA80	80	10.5	16.5	18	668	280
KM-LNA90	90	10.5	16.5	18	850	380
KM-LNA120	120	12.5	22.5	18	1520	480

Straight Hole Pot Magnet - Type KM-SNB & LNB







Model	D(mm)	d(mm)	d1(mm)	H(mm)	Weight(g)	Breakaway(kg)
KM-SNB12	12	3.5	6.5	4.5	4	2
KM-SNB16	16	3.5	6.5	5	7	5
KM-SNB20	20	4.5	8	7	13	10
KM-SNB25	25	5.5	9	8	19	18
KM-SNB32	32	5.5	9	8	38	30
KM-SNB36	36	6.5	11	8	48	40
KM-SNB42	42	6.5	11	8.6	70	60
KM-LNB48	48	8.5	15	11	115	70
KM-LNB60	60	8.5	15	15	240	150
KM-LNB75	75	10.5	18	18	515	220

External Threaded Pot Magnet - Type KM-SNC & LNC









Model	D(mm)	H(mm)	h(mm)	М	Weight(g)	Breakaway(kg)
KM-SNC10	10	14	5	М3	4	2
KM-SNC12	12	14	5	М3	5	4
KM-SNC16	16	13.2	5	M4	8	8
KM-SNC20	20	16	7	M4	17	12
KM-SNC25	25	17	8	M5	30	23
KM-SNC32	32	18.5	8	M6	50	34
KM-SNC36	36	18	8	M6	62	50
KM-SNC42	42	18	8.6	M6	89	72
KM-LNC48	48	24	11	M8	152	81
KM-LNC60	60	28	15	M8	325	160
KM-LNC75	75	35	18	M10	620	250

Screwed Bush Pot Magnet - Type KM-SND & LND







Model	D(mm)	d(mm)	H(mm)	h(mm)	М	Weight(g)	Breakaway(kg)
KM-SND10	10	6	12.5	5	М3	4	2
KM-SND12	12	6	12.5	5	М3	5	4
KM-SND16	16	6.5	12.6	5	M4	9	8
KM-SND20	20	6.5	14	7	M4	17	12
KM-SND25	25	7.5	17	8	M5	31	23
KM-SND32	32	10	18	8	M6	52	34
KM-SND36	36	10	18	8	M6	60	50
KM-SND42	42	10	18	8.6	M6	95	72
KM-LND48	48	12	24	11	M8	160	81
KM-LND60	60	12	28	15	M8	340	160
KM-LND75	75	17	35	18	M10	635	250

Internal Threaded Pot Magnet - Type KM-SNH & LNH







Model	D(mm)	H(mm)	М	Weight(g)	Breakaway(kg)
KM-SNH16	16	5	М3	7	4
KM-SNH20	20	7	M4	14	8
KM-SNH25	25	7.7	M5	25	17
KM-SNH32	32	7.7	M5	44	27
KM-SNH36	36	7.5	M6	55	36
KM-SNH42	42	8.6	M6	86	50
KM-SNH48	48	10.6	M8	132	70
KM-LNH60	60	12	M8	229	140
KM-LNH75	75	15	M10	464	220

Rectangular Double Hole Pot Magnet - Type KM-SNI







Model	L (mm)	l (mm)	W (mm)	H (mm)	d (mm)	d1 (mm)	Weight (g)	Pull (KG)
KM-SNI40	40	30	13.5	5	3.3	6.5	19	17
KM-SNI50	50	40	13.5	5	3.3	6.5	24	27
KM-SNI60	60	50	13.5	5	3.3	6.5	30	30
KM-SNI80	80	70	13.5	5	3.3	6.5	38	33
KM-SNI100	100	90	13.5	5	3.3	6.5	48	36
KM-SNI120	120	110	13.5	5	3.3	6.5	58	40

Rectangular Single Hole Pot Magnet - Type KM-SNI







Model	L(mm)	l(mm)	W(mm)	H(mm)	d(mm)	d1(mm)	Weight (g)	Pull (kg)
KM-SNI10	10	5	13.5	5	3.3	6.5	5	4
KM-SNI15	15	7.5	13.5	5	3.3	6.5	7	7
KM-SNI20	20	10	13.5	5	3.3	6.5	10	8
KM-SNI30	30	15	13.5	5	3.3	6.5	15	16



Support customised colours and packaging Support OEM



Ferrite Pot Magnet

Countersunk Hole Pot Magnet - KMPOTA04





MODEL		POT		PULL FORCE (KG)	
MODEL	А	В	С		
KMPOTA04-16	16	4.5	3.3	1.4	
КМРОТА04-20	20	6	4.2	2.7	
KMPOTA04-25	25	7	5.5	3	
КМРОТАО4-32	32	7	5.5	7.2	
KMPOTA04-40	40	8	5.5	13	
KMPOTA04-50	50	12	6	18	
KMPOTA04-80	80	18	8.5	CUSTOM	
КМРОТА04-90	90	12.2	10	49	

Through Hole Pot Magnet -KMPOTF06







MODEL		РОТ		PULL FORCE
MODEL	А	В	С	(KG)
KMPOTF06-24	24	4.9	3.2	3
KMPOTF06-24	24	1.9	6.75	3
KMPOTF06-32	32	6	6	6
KMPOTF06-36	36	7	4.8	7
KMPOTF06-46	46	7.1	4.76	10
KMPOTF06-50	50	10	8.5	18
KMPOTF06-60.3	60.3	8.9	6.4	19
KMPOTF06-63	63	14	6.5	29
KMPOTF06-67	67	9.5	7	29
KMPOTF06-71	71	15.3	10.5	35
KMPOTF06-80	80	18	6.5	47.5
KMPOTF06-80	80	10.5	7.2	29
KMPOTF06-88	88	18	8.5	55
KMPOTF06-95	95	12.7	12.7	62
KMPOTF06- 100	100	22	10.5	68
KMPOTF06- 124	124	12.7	12.4	70

Internal thread Pot Magnet - KMPOTF09





MODEL		POT		PULL FORCE (KG)	
MODEL	А	В	С		
KMPOTF09-25	25	7	M4	3.6	
KMPOTF09-32	32	7	M4	7.5	
KMPOTF09-40	40	8	M4	9	
KMPOTF09-50	50	10	M6	17	
KMPOTF09-63	63	14	M8	29	
KMPOTF09-63	63	14	M8	35	
KMPOTF09-80	80	20	M10	55	

MAGNETIC HOOKS

A magnetic hook is a handy tool with a hook attached to a strong magnet, used for hanging items like keys or tools on metal surfaces for easy access and organization.





Regular Magnetic Hook - SNE & LNE







Model	D(mm)	d(mm)	h(mm)	h1(mm)	H(mm)	М	Weight (g)	Breakaway (kg)
KM-SNE10	10	6	5	12.5	33	М3	6	2
KM-SNE12	12	6	5	12.5	33	М3	7	4
KM-SNE16	16	6.5	5	12.6	35	M4	12	8
KM-SNE20	20	6.5	7	14	36	M4	21	12
KM-SNE25	25	7.5	8	17	45	M5	37	23
KM-SNE32	32	10	8	18	48	M6	61	34
KM-SNE36	36	10	8	18	48	M6	69	50
KM-SNE42	42	10	8.6	18	48	M6	101	72
KM-LNE48	48	12	11	24	61	M8	182	81
KM-LNE60	60	12	15	28	64.5	M8	362	160
KM-LNE75	75	17	18	35	81	M10	681	270

Eyebolt Magnetic Hook - SNF & LNF







Model	D(mm)	d(mm)	h(mm)	h1(mm)	H(mm)	М	Weight (g)	Breakaway (kg)
KM-SNF10	10	6	5	12.5	33	М3	7	2
KM-SNF12	12	6	5	12.5	33	М3	8	4
KM-SNF16	16	6.5	5	12.6	34.6	M4	12	8

Eyebolt Magnetic Hook - SNF & LNF







Model	D(mm)	d(mm)	h(mm)	h1(mm)	H(mm)	М	Weight (g)	Breakaway (kg)
KM-SNF20	20	6.5	7	14	36	M4	21	12
KM-SNF25	25	7.5	8	17	44.5	M5	38	23
KM-SNF32	32	10	8	18	47.5	M6	63	34
KM-SNF36	36	10	8	18	47.5	M6	71	50
KM-SNF42	42	10	8.6	18	47.5	M6	106	72
KM-LNF48	48	12	11	24	60.5	M8	187	81
KM-LNF60	60	12	15	28	64.5	M8	367	160
KM-LNF75	75	17	18	35	91	M10	697	270

Swivel Magnetic Hook - SNG







Model	D (mm)	d (mm)	d1 (mm)	h (mm)	H (mm)	L (mm)	W (mm)	l (mm)	Weight (g)	Vertical Breakaway (kg)
KM-SNG25	25	20	13.5	8	15.5	53.5	23	24	38	17
KM-SNG32	32	20	13.5	8	15.5	53.5	23	24	52	30
KM-SNG36	36	20	13.5	8	15.5	53.5	23	24	65	40
KM-SNG42	42	20	13.5	8.6	16.1	53.5	23	24	92	60

MAGNETIC PUSH PIN

A magnetic push pin is a small tool with a magnet that lets you attach lightweight items to magnetic surfaces like whiteboards or refrigerators. It's great for organizing and displaying notes or artwork.





NdFeB Plastic Magnetic Pins - Wine Glass Shape





Model	D(mm)	H(mm)	Weight (g)	Hold A4 on white board
KM-D12*20	12	20	3.5	18 pieces
KM-D19*25	19	25	7	24 pieces
KM-D29*38	29	38	22	30 pieces

NdFeB Plastic Magnetic Pins - Round Shape





Model	D(mm)	H(mm)	Weight (g)	Hold A4 on white board
KM-D12.7*6.35	2.7*6.35 12.7 6.35		4	11 pieces

NdFeB Acrylic Magnetic Pins - Wine Glass Shape







Model	D (mm)	d (mm)	d1 (mm)	H (mm)	h (mm)	Weight (g)	Hold A4 on white board
KM-D11*17	11	9	4.2	17	3.5	1.4	11 pieces
KM-D15*20	15	11	5	20	3.5	2.8	15 pieces
KM-D21*25	21	13.5	5.5	25	4.5	6.7	20 pieces
KM-D27*33	27	18	8.5	33	5.5	16	27 pieces

NdFeB Stainless Steel Magnetic Pins - Chalice Shape





Model	D(mm)	d (mm)	H(mm)	h (mm)	Weight (g)	Hold A4 on white board
KM-D12*16	12	9	16	4	9.6	12 pieces
KM-D16*20	16	11	20	5	16	16 pieces
KM-D20*25	20	13	25	7	30	19 pieces
KM-D25*30	25	18	30	7	53	23 pieces

NdFeB Stainless Steel Magnetic Pins - Tall Cup Shape





Model	D(mm)	d (mm)	H(mm)	h (mm)	Weight (g)	Side Breakaway (kg)
KM-D32*42	32	24	42	9	103	8
KM-D36*46	36	26	46	10	140	10
KM-D42*52	42	35	52	10	233	15

NdFeB Stainless Steel Magnetic Pins - Mushroom Shape





Model	D(mm)	d (mm)	H(mm)	h (mm)	Weight (g)	Hold A4 on white board
KM-D16	16	13.2	7.2	3.2	9	11 pieces
KM-D22	22	18	9	3	21	13 pieces
KM-D25	25	21	9	3	27	15 pieces
KM-D30	30	27	9	3	43	17 pieces

NdFeB Plastic Office Magnets - Round Shape







Model	D(mm)	H(mm)	Weight (g)	Hold A4 on white board
KM-Dia30*H8	(M-Dia30*H8 30		8	25 pieces

NdFeB Plastic Office Magnets-Mushroom Shape







Model	D(mm)	D(mm) H(mm)		H(mm) Weight (Hold A4 on white board
KM-Dia18*H8	18	8	3.5	22 pieces		

Ferrite Plastic Office Magnets - Mushroom Shape





Model	D(mm) H(mm)		Weight (g)	Hold A4 on white board
KM-Dia32*H12	32	12	4	11 pieces

NdFeB Plastic Office Magnets-Mushroom Shape





Model	D(mm)	H(mm)	Weight (g)	Hold A4 on white board
KM-D20	20	7.5	3	10 pieces
KM-D30	30	9.5	9	15 pieces

RUBBER COATED MAGNET

A rubber-coated magnet is a magnet encased in a layer of rubber or plastic. This coating provides protection against scratching or damaging delicate surfaces, and it also enhances the magnet's grip. Rubber-coated magnets are commonly used for mounting items on metal surfaces without causing damage, such as hanging signs or decorations on refrigerators or metal doors. They're also useful for industrial applications where a strong magnet needs to be handled with care to prevent damage or injury.





NdFeB Rubber Coated Magnets- Internal Threads







Model	D(mm)	М	H(mm)	Weight(g)	Pull Force(kg)
KM-01A-22	22	M3-M6	7	10	3.5
KM-01A-31	31	M3-M6	6	18	7.5
KM-01A-36	36	M3-M6	7	22	7.5
KM-01A-43	43	M3-M6	6	30	8
KM-01A-66	66	M4-M10	8.5	97	22
KM-01A-88	88	M4-M10	8.5	175	40

NdFeB Rubber Coated Magnet - Screwed Bush





Model	D(mm)	М	H(mm)	L(mm)	Weight(g)	Pull Force(kg)
KM-01B-22	22	M3-M6	6	11.5	11	3.5
KM-01B-31	31	M3-M6	6	11.5	22	7.5
KM-01B-36	36	M3-M6	7	11.5	24	7.5
KM-01B-43	43	M3-M6	6	10.5	32	8
KM-01B-66	66	M4-M10	8.5	13.5	101	20
KM-01B-88	88	M4-M10	8.5	13.5	178	40

NdFeB Rubber Coated Magnet - External Thread







Model	D(mm)	М	H(mm)	L(mm)	Weight(g)	Pull Force(kg)
KM-01C-22	22	M3-M6	6	13	12	3.5
KM-01C-31	31	M3-M6	6	21	22	7.5
KM-01C-36	36	M3-M6	7	22	25	7.5
KM-01C-43	43	M3-M6	6	21	34	10
KM-01C-66	66	M4-M10	8.5	23	100	20
KM-01C-88	88	M4-M10	8.5	23	185	40

NdFeB Rubber Coated Magnet - Cylinder Bore





Model	D(mm)	H(mm)	h(mm)	d1(mm)	d2(mm)	Weight(g)	Pull Force(kg)
KM-01E-30	30	6	3	6	10	15	2.5
KM-01E-43	43	6	2	5.5	12.8	28	8.5
KM-01E-66	66	8.5	3	5.5	20	95	20
KM-01E-88	88	8.5	3	6.5	22	172	10

NdFeB Rectangular Rubber Coated Magnets



Model	L(mm)	W(mm)	H(mm)	М	Weight (g)	Pull Force(kg)
KM-01G43-1	43	31	6	M4*1	27	8.5
KM-01G43-2	43	31	6	M4*2	28	8.5

Rubber Coated Magnet With Handle







Model	D(mm)	H(mm)	h(mm)	Weight(g)	Pull Force(kg)
KM-01H-43	43	68	6	42	8.5
KM-01H-66	66	98	8	118	22
KM-01H-88	88	98	8	205	45







NAME BADGE MAGNET

A name badge magnet is a small magnetic attachment used to secure a name badge or identification card to clothing without the need for pins or clips. It typically consists of two parts: a magnet with a adhesive backing that attaches to the back of the badge, and a metal plate with a magnet that is placed behind the clothing. The magnets hold the badge in place securely while also preventing damage to clothing fabrics. Name badge magnets are commonly used in professional settings, conferences, and events for easy and convenient display of identification.





Name Badge Magnet









Type: KMTS-07 Size: 45*13*5mm N.W.: 12g Carton Size: 27.5*26.5*15.5cm MOQ: 1000sets

Type: KMTS-05 Size: 45*13*6mm N.W.: 12g Carton Size: 27.5*26.5*15.5cm MOQ: 1500sets

Type: KMTS-03 Size: 45*13*6mm N.W.: 12g Carton Size: 27.5*26.5*15.5cm MOQ: 1500sets

Type: KMTS-10 Size: 45*13*6mm N.W.: 12g Carton Size: 27.5*26.5*15.5cm MOQ: 1500sets



Name Badge Magnet







Type: KMTS-06 Size: 33*13*6mm N.W.: 8g Carton Size: 27.5*26.5*15.5cm MOQ: 1500sets

Type: KMTS-01 Size: 64*14mm*6mm N.W.: 18g Carton Size: 27.5*26.5*15.5cm MOQ: 1500sets

Type: KMTS-02 Size: D17*6mm N.W.: 1.9g Carton Size: 27.5*26.5*15.5cm MOQ: 7000sets

Type: KMTS-04 Size: 64*14mm*6mm N.W.: 18g Carton Size: 27.5*26.5*15.5cm MOQ: 1200sets

MAGNETIC LIFTER

Permanent magnetic lifters are devices that use permanent magnets to lift and handle heavy ferrous materials without the need for a continuous power supply. They are widely used in various industrial applications due to their simplicity, reliability, and safety features.





Manual Permanent Magnetic Lifter





Application:

Widely used in machining and mould processing industry.



Features:

- 1. Using high-performance permanent magnetic materials, with strong magnetic force, unique circuit design, remanence almost zero.
- 2. High safety factor, maximal magnetic force is 3.5 times of rated lifting capacity.
- 3. Handle switches with safety button, easy for Single-hand operation more safety and convenience.
- 4. "V" style design at the bottom of lifter, can lift round steel and steel plate.
- 5. Without electricity, magnetic force permanent, more safety in using, and can be operated in the field.

Madal	Rated Lifting Capacity (KG)			Shape Size (mm)				Woight (kg)
wodet	Steel Plate	Round Steel	L	В	н	R	Force (kg)	weight (kg)
KMLS1-0.1	100	45	94	72	78	145	350	3.2
KMLS1-0.2	200	90	146	72	81	145	750	5.4
KMLS1-0.4	400	180	168	94	106	178	1250	11
KMLS1-0.6	600	270	218	116	116	225	2100	20
KMLS1-1	1000	450	272	145	145	295	3500	40
KMLS1-1.5	1500	675	342	145	145	295	5000	48
KMLS1-2	2000	900	388	160	170	365	6000	74
KMLS1-3	3000	1350	460	185	185	425	9000	105
KMLS1-5	5000	/	568	250	255	900	15000	248
KMLS1-10	10000	/	586	567	308	750	30000	750

MAGNETIC SEPARATOR

A magnetic separator is a device used to remove unwanted ferrous materials from a product stream. It typically consists of a magnetic system, such as a drum, plate, or grid, that attracts and captures ferrous particles as the product flows through or over it. Magnetic separators are widely used in industries such as mining, recycling, food processing, and manufacturing to ensure product purity, protect machinery, and improve operational efficiency.





Magnetic Bar/Tube



Applications:

- 1.Food Processing: Removing metal contaminants from grains, powders, and liquids in food production lines.
- 2. Pharmaceutical: Ensuring product purity by removing metal particles from powders, tablets, and liquids.



- 3.Recycling: Separating ferrous metals from recyclable materials such as plastics,glass, and paper.
- 4.Mining: Extracting magnetic minerals from ore streams during processing.
- 5.Chemical Industry: Removing metal impurities from chemical products and raw materials.

Features:

- High Magnetic Strength: Effective capture of ferrous contaminants even in highvolume product streams.
- Customizable Designs: Available in various configurations, including single or multiple tubes, different lengths, and diameters to suit specific applications.
- Easy Installation: Can be installed inline or mounted in existing processing equipment with minimal disruption to production.
- Low Maintenance: Simple cleaning procedures ensure continuous operation with minimal downtime.
- Durability: Constructed from high-quality materials to withstand harsh industrial environments and maintain magnetic strength over time.



Stainless Steel Housing Options

N0.	Material Density (g/cm ³)		Applicable Industry	Temperature Resistance (°C)
1	SS304	7.9	Food, Chemical, Pharmaceutical	800
2	SS316	8.0	Marine, Chemical, Pharmaceutical	850

Magnetic Tube Customization Parameter Table



Dia	0.25T	0.5T	0.7T	0.9T	1T	1.1T	1.2T
Φ10	√EH	√H	-	-	-	-	-
Ф16	√EH	√EH	√EH	√H	√H	-	-
Ф19	√EH	√EH	√EH	√H	√H	-	-
Φ20	√EH	√EH	√EH	√SH	√H	√H	-
Φ22	√EH	√EH	√EH	√EH	√EH	√H	-
Ф23	√EH	√EH	√EH	√EH	√EH	√H	-
Φ25	√EH	√EH	√EH	√EH	√EH	√EH	√H
Ф28	√EH	√EH	√EH	√EH	√EH	√EH	√H
Ф32	√EH	√EH	√EH	√EH	√EH	√EH	√H
Ф38	√EH	√EH	√EH	√EH	√UH	√H	√H
Φ50	√EH	√EH	√EH	√UH	√H	√H	√H
Φ76	√EH	√EH	√EH	√H	√H	√H	√H
Φ100	√EH	√EH	√H	√H	-	-	√H

Remarks:

- "√"means it can be manufactured on the condition of the diameters listed in the table
- "_"means can not be manufactured.
- The magnetic bars which their diameter are less than 38mm often use Smco Magnet in EH temperature interval. But if their diameter are more than 38mm will not consider using Smco Magnet.
- The related Max working temperature from different series:

H series	120°C
SH series	150°C
UH series	180°C
EH series	350°C



Magnetic Grate



Applications:

- 1. Food Processing: Removing metal contaminants from grains, powders, and other food products to ensure consumer safety and product quality.
- 2. Pharmaceutical Industry: Ensuring product purity by eliminating metal contaminants from pharmaceutical powders and liquids during production processes.
- 3. Plastics Recycling: Separating ferrous metals from plastic pellets or granules to prevent damage to processing equipment and ensure product quality.
- 4. Chemical Industry: Removing metal impurities from chemical powders or liquids to maintain product integrity and quality.
- 5. Mining and Minerals: Extracting ferrous metals from minerals or ores to improve efficiency in downstream processing.



Iron removal in fruit processing



Iron removal in food processing



Iron removal in tobacco processing

Features:

- 1. High Magnetic Strength: Powerful magnets ensure effective separation of ferrous contaminants from the product stream.
- 2. Easy Cleaning: Many magnetic grates feature a quick-release mechanism or a sliding drawer design for easy removal and cleaning of captured contaminants.
- 3. Durable Construction: Constructed from stainless steel or other corrosion-resistant materials to withstand harsh operating conditions.
- 4. Customization Options: Available in various sizes, configurations, and magnetic strengths to suit specific application requirements.
- 5. Versatility: Can be installed in gravity-fed or pneumatic conveying systems, as well as in hoppers, chutes, or pipelines for seamless integration into existing processing lines.

Square Magnetic Grate - Single Layer





		Dimension (mm)	No. of Doro
Model No.	А	В	Н	NO. OF Bars
XMKM10/10	100	100	40	2
XMKM15/15	150	150	40	3
XMKM20/20	200	200	40	4
XMKM25/25	250	250	40	5
XMKM30/30	300	300	40	6
XMKM35/35	350	350	40	7
XMKM40/40	400	400	40	8
XMKM45/45	450	450	40	9
XMKM50/50	500	500	40	10
XMKM20/10	200	100	40	2
ХМКМ30/10	300	100	40	2
XMKM30/20	300	200	40	4
XMKM40/10	400	100	40	2
XMKM40/20	400	200	40	4
XMKM40/30	400	300	40	6
XMKM50/10	500	100	40	2
XMKM50/20	500	200	40	4
XMKM50/30	500	300	40	6
XMKM50/40	500	400	40	8

Square Magnetic Grate - Single Layer





Model No.	Dia(mm)	H(mm)	No. of Bars	Weight(kg)
XMKM-D100	100	40	2	0.9
XMKM-D150	150	40	3	1.5
XMKM-D200	200	40	4	2.5
XMKM-D250	250	40	5	3.7
XMKM-D300	300	40	6	5.5
XMKM-D350	350	40	7	7.5
XMKM-D400	400	40	8	10
XMKM-D450	450	40	9	12.3
XMKM-D500	500	40	10	15.5

Please contact us to customize other shapes



Square Magnetic Grate - Single Layer





Model No.	Dia(mm)	H(mm)	No. of Bars	Weight(kg)
XMKM-D100	100	40	2	0.9
XMKM-D150	150	40	3	1.5
XMKM-D200	200	40	4	2.5
XMKM-D250	250	40	5	3.7
XMKM-D300	300	40	6	5.5
XMKM-D350	350	40	7	7.5
XMKM-D400	400	40	8	10
XMKM-D450	450	40	9	12.3
XMKM-D500	500	40	10	15.5

Please contact us to customize other shapes



Suspended Plate Magnet



Suspended plate Magnets are designed for effective tramp metals extraction from the high volume material by Installation above Conveyors Using big size ferrite and properly designed configuration ensure the tramp iron can be taken from thick layer material flow by heavy duty plate. For fine metal powders in thin layer material flow, light duty plate made of rare earth magnet is available also. Supplied with deep mounting tapped holes in the back of pate or four eye bolts, these plate magnets can be rigidly mounted with threaded bolts or suspended by eye bolts using cable or chain systems.



Customized sizes based on your conveyor belts





Other types of magnetic plates



Exposed Pole (EP) Plate Magnets are designed for removing tramp metals from the low volume materials flow. They will be installed below the materials flow in the process line.Widely use to capture ferrous contaminants from relative lower flowing material.



Spouts Plate magnets are designed to remove ferrous tramp metal from high volume material flow or rapid material flow. Properly designing can prevent wash-off of ferrous tramps and fines.





Flat Face Plate Magnets have ideal metal separation performance when assembled over the flow chute or belt applications with low-density product flows. Downstream processing facilities will be under continuous magnetic protection because plate magnets can lift ferrous tramps out of the product flow stream.



Magnetic Pulley



Applications:

- 1. Recycling: Separating ferrous metals from recyclable materials such as plastics, glass, and paper in recycling plants.
- 2. Mining: Removing ferrous contaminants from mined materials, such as coal, minerals, and aggregates, before further processing.
- 3. Bulk Handling: Preventing damage to downstream equipment by removing tramp iron from conveyed materials in bulk handling operations.
- 4. Wood Processing: Ensuring product purity by removing ferrous contaminants from wood chips, sawdust, and other wood processing materials.
- 5. Waste Management: Separating ferrous metals from waste streams in waste management facilities to facilitate recycling and reduce landfill waste.

Features:

- 1. Magnetic Strength: High-strength magnets provide efficient separation of ferrous contaminants, ensuring effective removal from product streams.
- 2. Durable Construction: Robust design and materials ensure durability and long-term performance even in harsh industrial environments.
- 3. Easy Installation: Magnetic pulleys can be easily installed into existing conveyor systems, minimizing downtime and installation costs.
- 4. Low Maintenance: Minimal moving parts and simple operation contribute to low maintenance requirements, reducing operational costs.
- 5. Customization Options: Magnetic pulleys can be customized to meet specific application requirements, including size, magnetic strength, and mounting configurations.



Half Magnetic Drum



Application:

Half Magnetic Drum is mainly used to remove or sort ferrous fines,tramp iron and other ferro magnetic materials from bulk dry material flow such as iron ore,grain,sand, gravel,plastics,wood,waste,cullet,rubber, etc.

Features:

- 1. Continuous self-cleaning design is suitable for automated production line.
- 2. Surface material is 304 or 316L stainless steel,good corrosion resistance and no pollution.
- 3. No electric power required for magnetic field generation.
- 4. Magnetic strength can be chosen by customer.
- 5. Dimension be accepted by customerized.

MAGNETIC WHEEL

A magnetic wheel, also known as a magnetic conveyor wheel or magnetic drive wheel, is a component used in conveyor systems for moving ferrous materials along a conveyor belt or track. It consists of a wheel or roller embedded with magnets that generate a magnetic field. As the wheel rotates, the magnetic field attracts and propels ferrous materials along the conveyor path. Magnetic wheels are commonly used in industries such as recycling, mining, and material handling, where efficient movement of ferrous materials is required. They offer advantages such as automatic and continuous material movement, reduced manual handling, and minimal maintenance requirements.





Magnetic Wheel

Description

Magnetic wall and ceiling climbing robots have been proposed in many industrial applications where robots must move over ferromagnetic material surfaces. The magnetic circuit design with magnetic attractive force calculation of permanent magnetic wheel plays an important role which significantly affects the system reliability, payload ability and power consumption of the robot. This wall climbing robot with four permanent magnetic wheels is proposed to climb along the vertical wall and overhead ceiling of steel cargo containers as part of an illegal contraband inspection system. The permanent magnetic wheels are designed to apply to the wall and ceiling climbing robot.

Application

- 1. ship hull inspection
- 2. majority of non-destructive testing such as on oil and gas pipelines, large metal



NO.	D (mm)	d (mm)	W (mm)	b (mm)	h (mm)	Force(N)	Temp. (°C)	Weight (kgs)
KMW25	25	8	16	3	8.6	55	100	0.054
KMW32	32	10	18	4	11.1	80	100	0. 10
KMW40	40	12	20	4	13. 1	120	100	0.20
KMW50	50	16	25	5	17.3	200	100	0.35
KMW63	63	20	32	6	21.7	330	100	0.70
KMW80	80	25	40	8	26.7	630	100	1.45
KMW100	100	30	50	8	31.7	900	100	2.80
KMW125	125	40	62	12	42.1	1520	100	5.35
KMW160	160	50	80	14	52.6	2940	100	11.40



Semicircular Magnetic Wheel



NO.	H (mm)	h (mm)	L (mm)	l (mm)	Force(KG)	Temp.(°C)
KMW-17	87	55	170	134	150	120
KMW-22	88.3	55	220	184	200	120

Support customization by drawing



LET'S WORK

+86-592-5663916 www.kingsmagnet.com sales@kingsmagnet.com No.350, Changle Road, Huli District, Xiamen, Fujian, China