

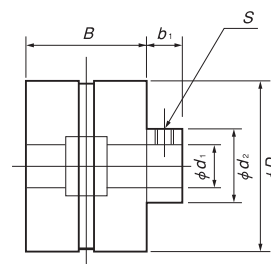
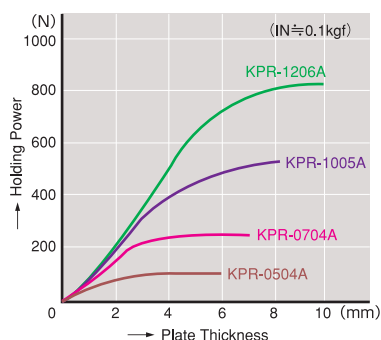
Model KPR-A SMALL PERMANENT MAGNETIC ROLLER

The magnetic rollers that are frequently used for transportation (including transportation stopping) of steel pipes and they have been standardized and kept in stock.



Precautions for use

These products are assembled by bonding. For high temperature services and rubber lining, structural restrictions must be taken into consideration. Please contact us for more information.



Model	Dimensions						Mass
	D	B	d ₁	b ₁	S	d ₂	
KPR-0504A	50 (1.96)	35 (1.37)	12 (0.47)	10 (0.39)	M5	22 (0.86)	0.45kg/0.99 lb
KPR-0704A	70 (2.75)	40 (1.57)	20 (0.78)	12 (0.47)	M6	35 (1.37)	1.0 kg/2.20 lb
KPR-1005A	100 (3.93)	50 (1.96)	30 (1.18)			45 (1.77)	2.4 kg/5.29 lb
KPR-1206A	120 (4.72)	60 (2.36)	40 (1.57)	16 (0.62)	M8	60 (2.36)	3.8 kg/8.39 lb

※A powerful model, KPR-H (12,000G), is also available.

Model KER ELECTROMAGNETIC ROLLER

[Application]

This model employs a powerful electromagnet and its optimum design helps increase the efficiency of transportation of steel pipes and steel plates.

[Features]

- The electromagnetic rollers can easily be turned on and off or adjusted in magnetic force for easy attracting and repelling of iron products.

<Specification>

- For the standard type dimensions, refer to the electromagnetic pulley KER.

Model KPR PERMANENT MAGNETIC ROLLER

[Application]

Most suitable for holding thin steel plates of 0.2 to 0.4 mm thick such as printing rollers.

<Manufacturing range>

Diameter: ϕ 100—200mm

Length: 300—1000mm

For length longer than 800 mm, the diameter needs to be ϕ 180 mm or larger.

<Specification>

750 rpm max.

Model KRA MAGNETIC RAIL

The magnetic rails are tools that are installed on the backside of belts to convey various items such as products and press scraps to assist such conveyance. These rails are used to improve the work efficiency.

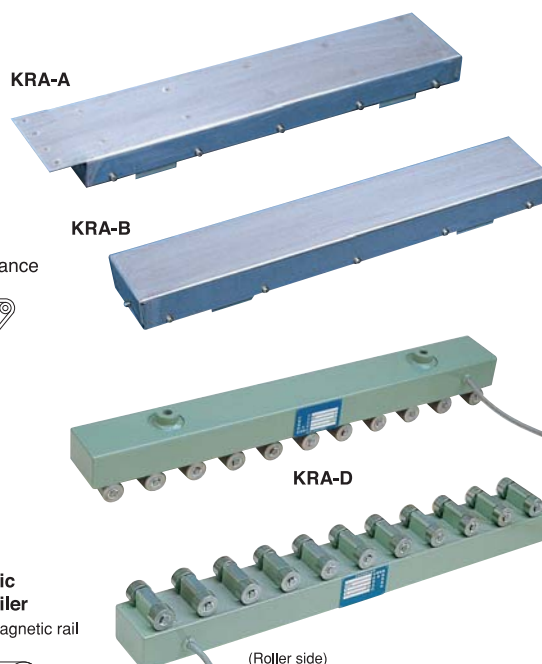
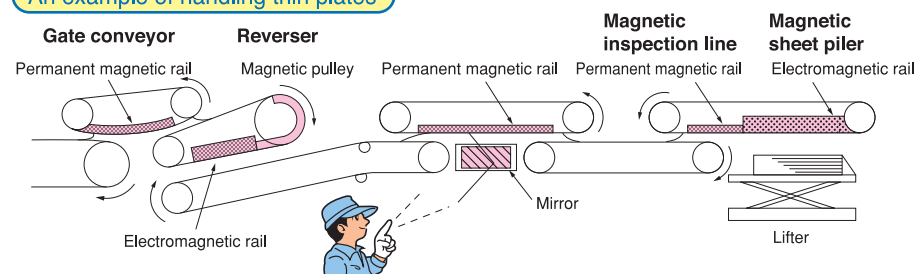
[Application]

Recommended for such operations as vertical and inclined conveyance of full cans and empty cans, conveyance of press scraps and chips, leak inspection of aerosol cans and belt conveyance in manufacturing processes.

[Features]

- Two types, permanent magnetic rails and electromagnetic rails are available according to operations.
- Easy handling of products and goods. Since no fixtures are necessary, products and goods to convey are not damaged.

An example of handling thin plates



MAGNETIC HOLDERS

MAGNETIC TOOLS

MAGNETIC TOOLS FOR WELDING OPERATION

LIFTING MAGNET

MAGBORE

CHIP & SLUDGE TRANSPORTERS

ENVIRONMENTAL EQUIPMENT

MAGNETIZERS AND DEMAGNETIZERS

MAGNETIC EQUIPMENT FOR TRANSPORTATION

MAGNETIC SEPARATORS

HIGH GRADE MAGNETIC SEPARATORS

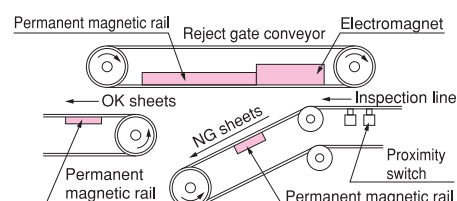
MEASURING INSTRUMENTS

MAGNETIC MATERIALS

Reject gate conveyor

Sorter

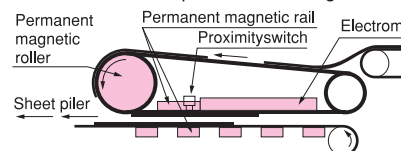
- [Application]
- Can be used in lines to accept or reject inspected sheets.
 - The flow of sheets can be branched to two directions.



Backing conveyor

Reverser

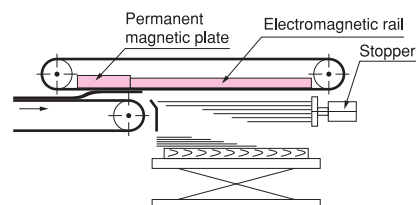
- [Application]
- Can be used in such operations as turning sheets or reversing the sheet flowing direction to inspect the backside of thin steel plates and to shorten the drying line in painting shops and for mating machines.



Sheet piler

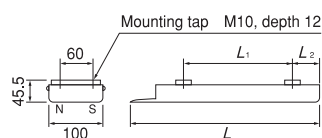
Steel sheet piler

- [Application]
- Sheets can be piled smoothly by use of a magnetic conveyor.



Permanent magnetic rail

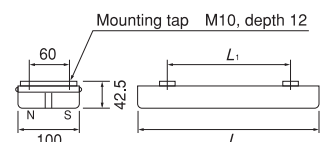
KRA-A type permanent magnetic rail



A magnetic plate is installed inside a stainless steel case. Can be easily connected to the poles of a permanent magnetic pulley. Used for elevator type magnetic conveyors.

Model	L	L ₁	L ₂	Mass
KRA-A 500	500 (19.6)	300 (11.8)	80 (3.15)	9.5kg/ 21 lb
KRA-A1000	1000 (39.3)	600 (23.6)	200 (7.87)	23.0kg/ 51 lb

KRA-B type permanent magnetic rail

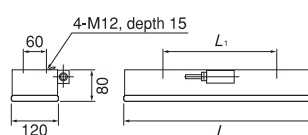


Poles of a magnet are projecting to the inside of a stainless steel case. A strong holding power via a belt. Used for magnetic conveyors that convey thin steel plates in the inverted posture.

Model	L	L ₁	No. of Taps	Mass
KRA-1050B	500 (19.6)	300 (11.8)	4	13kg/ 29 lb
KRA-10100B	1000 (39.3)	270 (10.6)	8	27kg/ 60 lb

Electromagnetic rail

KRA-C type electromagnetic rail

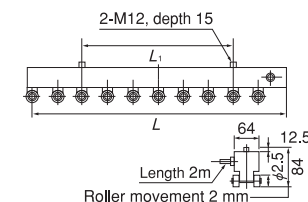


Used for magnetic conveyors that receive steel plates that have been conveyed in the inverted posture by a piler.

Rating: 180 VDC, continuous

Model	Current	L	L ₁	Mass
KRA-C 500	0.52A	500 (19.6)	300 (11.8)	25kg/ 55 lb
KRA-C1000	1.01A	1000 (39.3)	270 (10.6) X3	50kg/ 110 lb

KRA-D type electromagnetic rail with rollers



An electromagnetic rail having rollers. Used to prevent drooping of steel plates after shearing machines.

■ Rectifier RH-MW type
Input 200 VAC, single-phase output 0—180 VDC, 5 A/10 A

Model	L	L ₁	No. of Taps	Mass
KRA-D50	550 (21.6)	350 (13.7)	180 VDC, 90W	10kg/ 22 lb
KRA-D75	800 (31.5)	500 (19.6)	180 VDC, 148W	15kg/ 33 lb

*Sizes not listed above are also available upon request.

Model **PME** MAGNETIC CONVEYOR MAGCON*

An example of fabrication of Magcon

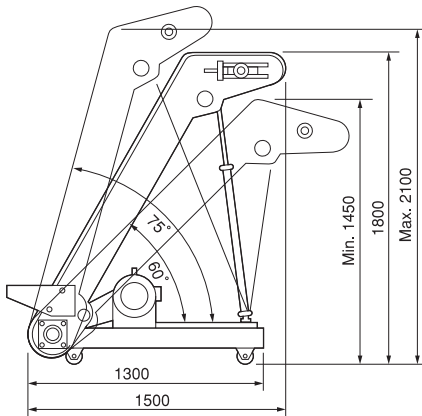
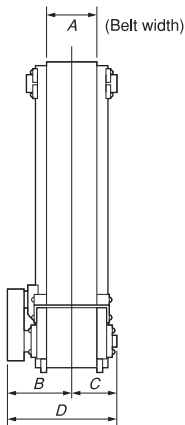


[Application]

The Magcon is a magnetic conveyor having permanent magnets arranged under the belt and is mainly used to convey iron parts and press scraps upward or downward.

[Features]

- High performance permanent magnets and optimum design.
Practically no reduction in magnetic force during its life. (Magnetic force reduction less than 2% over 10-year period)
- Simplified mechanism for trouble-free operations.
- The portable type and inclining type are employed simultaneously to meet a wide variety of operations.
- Requiring less space, Magcon can be utilized effectively in areas of limited room.
- Can be used to connect other up-down conveyor lines when used as an intermediate conveyor link.
- The time to transfer products between processes can be shortened.



- Belt speed: 20m/min
 - Belt: Oil-resistant conveyor belt
 - Power source: 3-phase, 220 VAC (for motors)
 - Magnet: Sintered magnet having long lasting holding power
- Notes: ※ A feeder hopper will be installed upon request.
※ The head pulley can be a magnetic pulley upon request.
(It picks up magnetic substances on the floor.)

※ Various types of Magcon for various operations including vertical conveyance are designed and fabricated according to your needs.

[mm (in)]

Model	Dimensions				Motor
	A	B	C	D	
PME-20	200 (7.87)	280 (11.0)	210 (8.26)	480 (18.9)	0.75kW
PME-30	300 (11.8)	330 (12.9)	280 (11.0)	580 (22.8)	
PME-45	450 (17.7)	405 (15.9)	335 (13.1)	740 (29.1)	
PME-60	600 (23.6)	480 (18.9)	410 (16.1)	840 (33.1)	1.5 kW