**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.

**Precaution 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.

![Graph showing holding power and plate thickness](image)

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KPR-0504A</td>
<td>50 (1.96)</td>
<td>12 (0.47)</td>
</tr>
<tr>
<td>KPR-0704A</td>
<td>70 (2.76)</td>
<td>20 (0.78)</td>
</tr>
<tr>
<td>KPR-1005A</td>
<td>100 (3.93)</td>
<td>30 (1.18)</td>
</tr>
<tr>
<td>KPR-1205A</td>
<td>120 (4.72)</td>
<td>40 (1.57)</td>
</tr>
</tbody>
</table>

**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: φ100—200mm
- Length: 300—1000mm

For length longer than 800 mm, the diameter needs to be φ180 mm or larger.

**[Specification]**

- 750 rpm max.

**Remarks**

In case balance adjustments are required, please contact Kanetec.

Please refer to Facsimile communication Form.
**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

- **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.

- **Reverser**
  - Permanent magnetic rail
  - Magnetic pulley
  - Permanent magnetic rail
  - Magnetic inspection line
  - Magnetic sheet piler
  - Electromagnetic rail

- **Electromagnetic 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.

### KRA-A type permanent magnetic rail

**KRA-C type electromagnetic rail**

**KRA-D type electromagnetic rail with rollers**

**KRA-A**

**KRA-B**

**KRA-C**

**KRA-D**

**KRA-D type electromagnetic rail with rollers**

**Model**

<table>
<thead>
<tr>
<th>Model</th>
<th>Current</th>
<th>L</th>
<th>Lt</th>
<th>No. of Tap</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KRA-C 500</td>
<td>0.50A</td>
<td>500</td>
<td>80</td>
<td>9.5kg/21 lb</td>
<td></td>
</tr>
<tr>
<td>KRA-C1000</td>
<td>1.01A</td>
<td>1000</td>
<td>200</td>
<td>34.7kg/71 lb</td>
<td></td>
</tr>
</tbody>
</table>

**Model**

<table>
<thead>
<tr>
<th>Model</th>
<th>Current</th>
<th>L</th>
<th>Lt</th>
<th>No. of Tap</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>KRA-D50</td>
<td>550</td>
<td>350</td>
<td>180 VDC</td>
<td>10kg/22 lb</td>
<td></td>
</tr>
<tr>
<td>KRA-D575</td>
<td>800</td>
<td>500</td>
<td>180 VDC</td>
<td>15kg/33 lb</td>
<td></td>
</tr>
</tbody>
</table>

**Sizes not listed above are also available upon request.**
**Model PME**

**MAGNETIC CONVEYOR MAGCON**

An example of fabrication of Magcon

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[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.

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Motor</th>
</tr>
</thead>
<tbody>
<tr>
<td>PME-20</td>
<td>200</td>
<td>280</td>
<td>210</td>
<td>480</td>
<td>0.75kW</td>
</tr>
<tr>
<td>PME-30</td>
<td>300</td>
<td>330</td>
<td>280</td>
<td>580</td>
<td>2.2kW</td>
</tr>
<tr>
<td>PME-45</td>
<td>450</td>
<td>405</td>
<td>335</td>
<td>740</td>
<td>2.2kW</td>
</tr>
<tr>
<td>PME-60</td>
<td>600</td>
<td>480</td>
<td>410</td>
<td>840</td>
<td>1.5kW</td>
</tr>
</tbody>
</table>

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**Example of special products of magnetic equipment for transportation**

**COIL OPENER**

Coil opener, for operator efficiency and safety. This equipment bites into the top edge of the coil automatically, used in various factories, steel mills, steel suppliers, etc.

Applicable for strip coil,
- Material: ordinary steel plate, silicon steel, colored steel plate, plated steel, surface coated steel, etc.
- Width: 10-2,000mm
- Thickness of plate: 0.2-3.0mm
- Revolution speed: normally 30m/min.

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**MCO-P**

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**SHEET FEEDER**

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**AFR**

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[Application]
Equipment for feeding silicon steel into baking furnace such as in electric appliance manufacturing; thin steel plate to load to remove from press machines, or for transporting and handling cut plate.

[Features]
- Designed with strong permanent magnets, for continuously strong attraction power. Electric power not required.
- Combined rotating movement of the roller and reciprocating movement of the cylinders makes a simple efficient design.
- One plate is fed out with each up and down cycle of the cylinder. Efficient for use in relatively small production runs.
- Light weight efficient size makes installation and handling easy.