## Properties and Benefits

<table>
<thead>
<tr>
<th>Properties</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simple layout</td>
<td>Easy to service</td>
</tr>
<tr>
<td>Magnetic operating principle</td>
<td>Very good separation of even the smallest particles</td>
</tr>
<tr>
<td>Customer-specific design</td>
<td>Best-possible addressing of requirements</td>
</tr>
<tr>
<td>Chip transport outside of the sealed conveyor trough</td>
<td>Low wear, great durability</td>
</tr>
</tbody>
</table>

## Application

KNOLL magnetic band conveyors M are plants for transporting ferromagnetic chips and small parts.
- Decentral use on individual and interlinked machine tools
- Central use for waste disposal from machine groups and entire production areas
- Suitable for short steel or cast chips (e.g. from hobbing) and punching
- Suitable for wet and dry processing
- Not suitable for anti-magnetic steel, NE metals, and long chips/chip balls 150 mm length

## Description

**Main functions**
1. Collection of the chips/parts
2. Transporting of the chips/parts to the discharge point on the conveyor plate
3. Collecting of the cooling lubricant
4. Separating of chips and cooling lubricant
5. Buffering of cooling lubricant
6. Transporting of the cooling lubricant for processing, return pumping station or machine

**Continuous magnetic band**
- 2 roller chain strands that are connected to carrying bars and permanent magnets
- Positively-driven chain circulation
- Automatic tensioning

**Combination possibilities**
For other requirements, on request we can combine the conveyor with
- Filter systems for cleaning the cooling lubricant and supplying the machine tool
- Chip reducers for generating pumpable or absorbent chips
- Return pumping stations for transporting chips and cooling lubricant to the central plant
- Extraction stations for transport of chips to the central plant
Equipment

- Magnetic band with automatic tensioning device ●
- Belt drive (three-phase geared motor with overload protection) ●
- Belt-drive control with limit switch ○
- Support ○
- Wing tank ○
- Fill level monitoring ○
- Lifting pump(s) ○
- Piping and fittings ○
- Chip trolley ○
- Control ○
- Drip tray ○

● Standard equipment
○ Option
Dimensions and technical data

<table>
<thead>
<tr>
<th>Type</th>
<th>Chain pitch</th>
<th>B1&lt;sup&gt;1&lt;/sup&gt;</th>
<th>B2</th>
<th>H</th>
<th>L max.&lt;sup&gt;2&lt;/sup&gt; (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-L</td>
<td>15,9</td>
<td>100-155-200-255-310-365-420</td>
<td>B1 + 80</td>
<td>85</td>
<td>4</td>
</tr>
<tr>
<td>M</td>
<td>38,1</td>
<td>125-170-200-275-350-425-500-575</td>
<td>B1 + 70</td>
<td>145</td>
<td>5</td>
</tr>
<tr>
<td>M-S</td>
<td>38,1</td>
<td>200-275-350-425-500-575-650</td>
<td>B1 + 70</td>
<td>195</td>
<td>9</td>
</tr>
</tbody>
</table>

Dimensions without units given in mm.

1 Intermediate widths and wider types on request
2 Standard value
3 HA = Discharge height above ground
Dimensions HA and L on request
Other dimensions on request
Lead angle $\alpha$ 0° to 90° in 5 steps
Depending on model, driving power of up to 0.75 kW

Right reserved to modify technical details.