### Properties

<table>
<thead>
<tr>
<th>Properties</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety slide coupling</td>
<td>Effective overload protection</td>
</tr>
<tr>
<td>Extraction of the cooling lubricant from the trough</td>
<td>High delivery rate possible</td>
</tr>
<tr>
<td>Edge filter in the trough in front of the suction line</td>
<td>Good chip pre-separation</td>
</tr>
<tr>
<td>Simple layout</td>
<td>Easy to service</td>
</tr>
<tr>
<td>Customer-specific design</td>
<td>Best-possible addressing of requirements</td>
</tr>
</tbody>
</table>

### Application

KNOLL scraper belt conveyors K are plants for transporting metal 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 chips (e.g. steel, brass, aluminum, copper, cast)
- Suitable for wet and dry processing

### Description

**Main functions**

1. Collection of the chips/parts
2. Transporting of the chips/parts to the discharge point on the container bottom

Additionally for wet processing

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 scraper belt**

- 2 roller chain strands that are connected to scraper bars
- Positively-driven chain circulation
- Tensioning through easy adjustment of the bearing retainers

**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

- Scraper belt
- Belt drive (three-phase current geared motor)
- Safety slide coupling
- Belt-drive control with limit switch
- Belt scraper
- Lubricator (for dry processing)
- Support
- Wing tank
- Fill level monitoring
- Lifting pump(s)
- Piping and fittings
- Hopper
- Chip trolley
- Control
- Needle slot screen/slot filter in various mesh sizes
- False floor
- Chip grating
- Wear model

- Standard equipment
- Option
Dimensions and technical data

<table>
<thead>
<tr>
<th>Type</th>
<th>Chain pitch</th>
<th>B¹</th>
<th>H</th>
<th>L1</th>
<th>L max.² (m)</th>
<th>α (°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>K-1</td>
<td>40</td>
<td>180-220-260-300-340-400-450-500-600-750-850</td>
<td>&gt;140</td>
<td>-</td>
<td>9</td>
<td>0·30-45·60·75</td>
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<tr>
<td>K-3</td>
<td>63</td>
<td>300-370-400-450-500-600-750-1000</td>
<td>235</td>
<td>190</td>
<td>15</td>
<td>0·30-45·60·75</td>
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<tr>
<td>K-3-S</td>
<td>63</td>
<td>370-450-500-600</td>
<td>350</td>
<td>265</td>
<td>25</td>
<td>0·30-45·60·75</td>
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<tr>
<td>K-4</td>
<td>100</td>
<td>450-600-750-1000</td>
<td>410</td>
<td>335</td>
<td>60</td>
<td>0·30-45·60·75</td>
</tr>
</tbody>
</table>

Dimensions without units given in mm.
1 Intermediate widths and wider types on request
2 Standard value
3 HS = Height of protected area according to safety regulation EN 618
4 LA = Feed length
5 HA = Discharge height above ground

Right reserved to modify technical details.