### Properties and Benefits

<table>
<thead>
<tr>
<th>Properties</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slats without hinges</td>
<td>Long service life</td>
</tr>
<tr>
<td>Profiled slats</td>
<td>High level of stability</td>
</tr>
<tr>
<td>Perforated slats</td>
<td>Good pre-separation of chips</td>
</tr>
<tr>
<td>Prefilter (for P-40-F)</td>
<td>Minimum chip load for subsequent processing</td>
</tr>
<tr>
<td>Bolted slats and guide elements</td>
<td>Easy to service</td>
</tr>
<tr>
<td>Customised design</td>
<td>Optimally meets requirements</td>
</tr>
</tbody>
</table>

### Application

KNOLL P slat belt conveyors are systems for transporting metal chips and small parts.

- Autonomous use at individual and linked machine tools
- Central use of machine groups and production areas
- Suitable for long chips, snarl chips and wool chips (including in conjunction with short chips)
- Suitable for wet and dry processing

### Description

**Main functions**
1. Collecting chips
2. Transporting chips to the top side of the belt to the discharge point

Additionally for wet machining
3. Collecting cooling lubricant
4. Separating chips and cooling lubricant
5. Buffering the cooling lubricant
6. Transporting the cooling lubricant for processing, to the return pump station or the machine

**Continuous slat belt**
- Two strands of roller chain screwed over consoles with steel plates
- Forcibly guided chain circulation
- Clamping with easily adjustable bearing supports

**Combination options**
For other requirements, we can combine the conveyors as required with
- Filter systems for cleaning the cooling lubricant and supplying the machine tool
- Chip breakers for generating chips that can be pumped or extracted
- Return pump stations for transporting chips and cooling lubricant to the central system
- Extraction stations for transporting chips to the central system
Scheme

Equipment

- Slat belt
- Belt drive
- Safety slip clutch
- Belt travel monitor with limit switch
- Belt stripper (mechanical) 1
- Lubricating device (for dry processing)
- Stand
- Side tank
- Lifting pump(s)
- Piping and fittings
- Funnel
- Chip bin
- Control system
- Prefilter 2
- Belt cleaning (air separator) 3

- Basic equipment
- Option

Image of chips

P-40

P-40-F

1 for P-40
2 for P-40-F
3 recommended for AI processing
Dimensions and technical data

<table>
<thead>
<tr>
<th>Type</th>
<th>Chain pitch</th>
<th>B¹</th>
<th>H1</th>
<th>H2</th>
<th>α (°)</th>
<th>L max²</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-40</td>
<td>40</td>
<td>220-260-300-340-400-450-500-600-680-750-850-1040</td>
<td>216 ²</td>
<td>167 ⁵</td>
<td>150 ¹</td>
<td>0-30-45-60</td>
</tr>
<tr>
<td>P-40-F</td>
<td>40</td>
<td>Min. 400</td>
<td>216 ²</td>
<td>167 ⁵</td>
<td>150 ¹</td>
<td>0-30-45-60</td>
</tr>
</tbody>
</table>

Safety device according to DIN EN 618
Dimensions without units given in mm
Dimensions H1 and HA as requested
Driving power 0.25 kW
¹ Discharge funnel design according to DIN EN ISO 16090-1
² Approximate value
³ Other dimensions on request
⁴ Standard
⁵ Retracted