<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>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 SF are plants for collecting and separating chips and cooling lubricants. For a still better preparation of the cooling lubricant, a filtration process can also be integrated.

- Decentral use on individual and interlinked machine tools
- Central use for waste disposal from machine groups and entire production areas
- Suitable for short steel chips, needle chips (e.g. brass), cast chips, cast abrasion and grinding sludge
- Suitable for wet and dry processing

### Description

**Main functions**
1. Collection of the chip and cooling lubricant mixture
2. Separation of chips and cooling lubricant through segmentation
3. Transporting of the chips/parts to the discharge point on the container bottom
4. Buffering of cooling lubricant
5. Transport of cooling lubricant to the filters
6. Transport of the cooling lubricant to the machines

**Continuous scraper belt**
- 2 roller chain strands that are connected to scraper bars
- Unguided chain circulation (hanging belt)
- No rechipping necessary

**Combination possibilities**
For other requirements, on request we can combine the conveyor systems with
- Systems for retreating chips
- Systems for conveying the chips into containers
**Equipment**

- Scraper belt
- Belt drive (three-phase current geared motor)
- Safety slide coupling
- Belt-drive control with limit switch
- Inlet
- Level monitoring
- Discharge hopper
- Chip trolley
- Control
- Filters (e.g. reversible flow filter, hydrocyclone, superfine filter)
- Lifting pumps for charging the filters
- Temperature control device
- Safety catch pan
- Pump(s) for supply the machine tools
- Piping and fittings
- Attached or included tanks for cleaned cooling lubricant

- Standard equipment
- Option
### Scraper belt conveyor SF

**Dimensions and technical data**

Depicted is a system with lifting pump, TURBO reversible flow filter, filtered fluid tank, supply pumps and control.

<table>
<thead>
<tr>
<th>Type</th>
<th>Number of reversible flow filters TURBO</th>
<th>L</th>
<th>B</th>
<th>H</th>
<th>H1</th>
<th>B1</th>
<th>B2</th>
<th>L1</th>
<th>I (l)</th>
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</thead>
<tbody>
<tr>
<td>500 SF</td>
<td>1</td>
<td>1740</td>
<td>935</td>
<td>1290</td>
<td>1015</td>
<td>720</td>
<td>1110</td>
<td>1200</td>
<td>500/175, 500/300</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>1740</td>
<td>935</td>
<td>1290</td>
<td>1015</td>
<td>720</td>
<td>1110</td>
<td>1200</td>
<td></td>
</tr>
<tr>
<td>1000 SF</td>
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<td>2190</td>
<td>935</td>
<td>1675</td>
<td>1400</td>
<td>720</td>
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<td>1000/175, 1000/350</td>
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<td>1-2</td>
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<td>1675</td>
<td>1400</td>
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<td>1450</td>
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<tr>
<td></td>
<td>1-2</td>
<td>2190</td>
<td>935</td>
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<td>1030</td>
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<td>2250</td>
<td>2000/350, 2000/600</td>
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<tr>
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<td>2-3</td>
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<td>1245</td>
<td>1890</td>
<td>1400</td>
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<td>2250</td>
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<td>1400</td>
<td>1030</td>
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</tr>
<tr>
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<td>1890</td>
<td>1510</td>
<td>1510</td>
<td>2400</td>
<td>2250</td>
<td>3500/500, 3500/700</td>
</tr>
<tr>
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<td>2-4</td>
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<td>1890</td>
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<td>1510</td>
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</tr>
<tr>
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<td>1510</td>
<td>2320</td>
<td>3000</td>
<td>5000/700</td>
</tr>
</tbody>
</table>

Dimensions without units given in mm.