Conveyor systems
Reliability and experience based on tradition

Hinged belt conveyors
Proven for a wide range of disposal tasks

Scraper conveyors
For disposal of small materials

Modular conveyors
Hinged belt conveyors with modular construction

Belt conveyors
The all-rounders – also for parts with sharp edges
Conveyor systems
Reliability and experience based on tradition

Our scraper belt, hinged belt and belt conveyors embody more than 30 years of experience. Systematic further development of our products and adaptation of their functions for use with the latest generation of machines guarantees you the utmost level of reliability.

Every production machine requires a disposal system

In the metalworking industry, tonnes of metal chips are created every day at cutting machine tools. We offer the right chip removal system and the suitable conveyor for your specific application.

- For disposal of chips at machine tools
- For transporting metal scrap and chips away from saws
- For disposal at stamping presses and laser cutting systems
- For disposal of edge scrap at trimming shears in coil cutting systems
- For transporting away casting waste in foundry lines

From standard to customized – we have a solution

- Everything from a single source – planning, design and manufacturing
- Standard conveyors available within a short time
- For an individual solution we will work together with you to design a suitable conveyor
- The optimal solution for whatever material is to be conveyed: hinged belt conveyor, scraper conveyor or belt conveyor
- Can be supplied with coolant processing if required
- Quality and long service life are our strong points
- Spare parts supplies are of course ensured for years to come
- Great price-performance ratio

Hinged belt conveyor developed for the Trumpf TUBEMATIC laser cutting machine. Special hinged belt plates prevent jamming of the material to be conveyed.
Designs and areas of application

Conveyors are an aspect of mechanical engineering, and are used especially on cutting machine tools. For many applications it is possible to use our standard models. The material to be conveyed, volume to be conveyed, and space limitations often already determine the type of conveyor.

In most cases, the variable dimensions such as the belt width, feed length, discharge height and incline are sufficient to take the requirements of the specific application into account.

We also plan and manufacture special conveyors for very specific requirements, even complete chip disposal systems with machine cleaning, crushing, workshop cleaning and hopper storage.

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In most cases, the variable dimensions such as the belt width, feed length, discharge height and incline are sufficient to take the requirements of the specific application into account.
Hinged belt conveyors
Proven for a wide range of disposal tasks

Transportation of the material takes place on the upper trough of a revolving hinged belt. Drivers ensure transport of the material up the inclined section.

For wet machining the cooling lubrications are collected in the conveyor housing and can be fed back into the machine circuit via an optionally available coolant container or a pump station.

Our hinged belt conveyors can be used either as stand-alone conveyors at machine tools, or as linked conveyor systems. Depending on the design, the material to be conveyed is brought to the required height at a defined incline and then discharged.

This way we can solve your disposal tasks in over 80 % of all cases:

- Wet or dry chips
- Workpieces and waste
- Hot forgings
- Stampings and punching scrap
- And much more

Structure
- Stable metal plate construction
- Standardized housing cross-section with variable width
- Robust worm gear motor with torque switching
- Customized discharge height
- Customized incline standards = 30°, 45° and 60°
- Floor mounting or as a push-in version into the machine base

Accessory examples
- Motor monitoring systems with current-monitoring relay
- Other overload safety devices (on request)
- Coolant container with pump station
- Direct electrical connection to your machine controller
- Other special solutions are available. Please do get in touch with us, we will be happy to advise you.
Typical designs

Straight design

- Can be used in a horizontal or inclined position.
  - Max. incline 45°

Straight/rising design

- Max. incline 45°

Straight/rising/straight design

- Max. incline 60°
Hinged belt conveyors
Proven for a wide range of disposal tasks

Types and main areas of application

SRF 040.00 – the elegant “small one”, and particularly compact
Pitch of the hinged belt t = 40 mm
With its small pitch (40 mm) and extremely compact design, this conveyor is suitable for even the smallest machine tools.

SRF 063.00 – the “classic”, and our best seller
Pitch of the hinged belt t = 63 mm
The conveyor type for most mechanical engineering applications.

SRF 100.00 – the “big one” and especially robust
Pitch of the hinged belt t = 100 mm
With a pitch of 100 mm, this conveyor is particularly useful when large quantities of chips are present.

SRF 150.00 – the “strongest” one we build
Pitch of the hinged belt t = 150 mm
Special solutions with 150 mm pitch for transporting away of large outputs or large parts.
Hinged belt designs

Various hinged belt designs are available for different operating conditions:

- **Hinged belt (standard)**
  - for dry materials and chips with a low proportion of coolant

- **Hinged belt with perforations**
  - for pre-separation of coolant for materials with a high proportion of coolant

- **Hinged belt conveyor with corrugations**
  - for transporting “sticky” parts

Standard dimensions

<table>
<thead>
<tr>
<th>Type</th>
<th>Pitch</th>
<th>Box height $H_K$</th>
<th>Hinged belt width $B_{SC}$</th>
<th>Box width $B_K$</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRF 040.00</td>
<td>40</td>
<td>140</td>
<td>150, 200, 250, 300, 450, 600</td>
<td>$B_{SC} + 75$ mm</td>
</tr>
<tr>
<td>SRF 063.00</td>
<td>63</td>
<td>216</td>
<td>150, 300, 450, 600, 750, 900</td>
<td>$B_{SC} + 120$ mm</td>
</tr>
<tr>
<td>SRF 100.00</td>
<td>100</td>
<td>360</td>
<td>150, 300, 450, 600, 750, 900</td>
<td>$B_{SC} + 150$ mm</td>
</tr>
<tr>
<td>SRF 150.00</td>
<td>150</td>
<td>540</td>
<td>300, 450, 600, 750, 900</td>
<td>$B_{SC} + 190$ mm</td>
</tr>
</tbody>
</table>

Special widths on request.
**Hinged belt conveyors**

Proven for a wide range of disposal tasks

**Dimensions of conveyor housing**

Variable dimensions:
- $B_{sch} =$ Hinged belt width
- $B_{k} =$ Box width
- $B_{AG} =$ Feed width
- $H_{il} =$ Panel height
- $AA_{VV} =$ Distance between axles, vertical
- $L_{AG} =$ Feed length
- $L_{AW} =$ Discharge length
- $L_{G} =$ Total length of the conveyor
- $\alpha =$ Incline

Design-dependent dimensions:
- $H_{K} =$ Box height
- $H_{KE} =$ Retracted box height
- $L_{A} =$ Length of the tail (discharge, incl. tensioning distance)
- $L_{U} =$ Length of the tail (feed)
The tensioning station is located at the discharge.

<table>
<thead>
<tr>
<th>Type</th>
<th>$H_B$</th>
<th>$H_K$</th>
<th>$H_{KE}$</th>
<th>$L_{AW \text{ min}}$</th>
<th>$L_{A}$</th>
<th>$L_{U}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRF 040.00</td>
<td>40</td>
<td>60</td>
<td>-</td>
<td>140</td>
<td>500</td>
<td>180</td>
</tr>
<tr>
<td>SRF 063.00</td>
<td>40</td>
<td>80</td>
<td>150</td>
<td>216</td>
<td>620</td>
<td>240</td>
</tr>
<tr>
<td>SRF 100.00</td>
<td>150</td>
<td>250</td>
<td>-</td>
<td>360</td>
<td>1000</td>
<td>600</td>
</tr>
<tr>
<td>SRF 150.00</td>
<td>150</td>
<td>250</td>
<td>350</td>
<td>540</td>
<td>1000</td>
<td>600</td>
</tr>
</tbody>
</table>

Dimensions in mm

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Subject to change.
Dimensions of hinged belt

Manufactured of strip steel, the hinged belt plates have roller-formed hinge eyes, and are connected by means of axles to the side chains (which are designed as hollow pin chains), thus forming a hinged belt assembly.

<table>
<thead>
<tr>
<th>Type</th>
<th>t</th>
<th>S_{\text{SCH}}</th>
<th>H_S</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRF 040.00</td>
<td>40</td>
<td>1.5</td>
<td>20</td>
</tr>
<tr>
<td>SRF 063.00</td>
<td>63</td>
<td>3.0</td>
<td>35</td>
</tr>
<tr>
<td>SRF 100.00</td>
<td>100</td>
<td>3.5</td>
<td>60</td>
</tr>
<tr>
<td>SRF 150.00</td>
<td>150</td>
<td>5.0</td>
<td>100</td>
</tr>
</tbody>
</table>

Definitions:

\( t \) = Pitch
\( B_{\text{SCH}} \) = Hinged belt width
\( S_{\text{SCH}} \) = Plate thickness of the conveyor
\( H_S \) = Height of the side rim

Dimensions as a function of the hinged belt width

<table>
<thead>
<tr>
<th>Type</th>
<th>( B_{\text{SCH}} )</th>
<th>( B_K )</th>
<th>( B_{\text{AG}} )</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRF 040.00</td>
<td>150</td>
<td>225</td>
<td>130</td>
</tr>
<tr>
<td></td>
<td>200</td>
<td>275</td>
<td>180</td>
</tr>
<tr>
<td></td>
<td>250</td>
<td>325</td>
<td>230</td>
</tr>
<tr>
<td></td>
<td>300</td>
<td>375</td>
<td>280</td>
</tr>
<tr>
<td></td>
<td>450</td>
<td>525</td>
<td>430</td>
</tr>
<tr>
<td></td>
<td>600</td>
<td>675</td>
<td>580</td>
</tr>
<tr>
<td>SRF 063.00</td>
<td>150</td>
<td>270</td>
<td>130</td>
</tr>
<tr>
<td></td>
<td>300</td>
<td>420</td>
<td>280</td>
</tr>
<tr>
<td></td>
<td>450</td>
<td>570</td>
<td>430</td>
</tr>
<tr>
<td></td>
<td>600</td>
<td>720</td>
<td>580</td>
</tr>
<tr>
<td></td>
<td>750</td>
<td>870</td>
<td>730</td>
</tr>
<tr>
<td></td>
<td>900</td>
<td>1020</td>
<td>880</td>
</tr>
<tr>
<td>SRF 100.00</td>
<td>150</td>
<td>300</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>300</td>
<td>450</td>
<td>270</td>
</tr>
<tr>
<td></td>
<td>450</td>
<td>600</td>
<td>420</td>
</tr>
<tr>
<td></td>
<td>600</td>
<td>750</td>
<td>570</td>
</tr>
<tr>
<td></td>
<td>750</td>
<td>900</td>
<td>720</td>
</tr>
<tr>
<td></td>
<td>900</td>
<td>1050</td>
<td>870</td>
</tr>
<tr>
<td>SRF 150.00</td>
<td>300</td>
<td>490</td>
<td>250</td>
</tr>
<tr>
<td></td>
<td>450</td>
<td>640</td>
<td>400</td>
</tr>
<tr>
<td></td>
<td>600</td>
<td>790</td>
<td>550</td>
</tr>
<tr>
<td></td>
<td>750</td>
<td>940</td>
<td>700</td>
</tr>
<tr>
<td></td>
<td>900</td>
<td>1090</td>
<td>850</td>
</tr>
</tbody>
</table>

Definitions:

\( B_{\text{SCH}} \) = Hinged belt width
\( B_K \) = Box width
\( B_{\text{AG}} \) = Feed width
Hinged belt conveyor with WAVE-BELT System

No hinge – low wear

Chips and dirt can accumulate in the hinges with conventional hinge belt conveyors.

The WAVE-BELT System has no hinges on the top side of the belt and is smooth in this area. Chips and dirt cannot get trapped. Due to the "WAVE-FORM" of the belt plates, there is hardly any gap between the plates. **This makes the hinge belts tighter, have a longer service life and require less maintenance.**

The side rims have also been further developed so that almost no conveyed material can get trapped in this area. **In this way, wear and the risk of failure are reduced.**

Hinged belt conveyor with WAVE-BELT System

- Longer service life due to optimized belt design
- Tighter than conventional belts, as there are no hinges
- Extremely stable due to special shaping of the individual belt plates
- Easy to maintain due to bolted and thus very easily replaceable belt plates

With this sign the use of the latest generation of KABELSCHLEPP hinged belts in conveyors can be recognized.
Easy replacement of individual hinge belt plates

The belt plates are bolted and can be easily replaced if needed without having to dismantle the complete conveyor belt.

Dimensions of hinge belt conveyor WBC 063

<table>
<thead>
<tr>
<th>Type</th>
<th>t</th>
<th>SSCH</th>
<th>HS</th>
</tr>
</thead>
<tbody>
<tr>
<td>WBC 063.00</td>
<td>63</td>
<td>2.5</td>
<td>22.5</td>
</tr>
</tbody>
</table>

Dimensions in mm

- \( t \) = Pitch
- \( B_{\text{Sch}} \) = Hinged belt width
- \( SSCH \) = Plate thickness of the conveyor
- \( HS \) = Height of the side rim
Scraper conveyors

For disposal of small materials

Transport of the material takes place via drivers which push the material along the floor of the housing towards the discharge. Cooling lubricants are collected in the conveyor housing and can be fed back into the machine circuit via an added-on container or a pumping unit. Our scraper conveyors can be used as stand-alone conveyors at machine tools or as linked conveyor systems. Depending on the design, the material to be conveyed is brought to the required height at a defined incline and then discharged.

The solution for small and short chips:
- Frequently used for machining of non-ferrous metals
- Can also be used for very hard, short chips
- Casting chips, milling chips and sawing chips

Structure
- Stable metal plate construction
- Standardized housing cross-section with variable width
- Robust worm gear motor with torque switching
- Customized discharge height
- Customized incline standards = 30°, 45° and 60°
- Floor mounting or as a push-in version into the machine base

Accessory examples
- Motor monitoring systems with current monitoring relay
- Other overload safety devices (on request)
- Coolant container with pump station
- Direct electrical connection to your machine controller
- Other special solutions are available. Please do get in touch with us, we will be happy to advise you.
Typical designs

**Straight design**

- Can be used in a horizontal or inclined position.
- Max. incline 45°

**Straight/rising design**

- Max. incline 45°

**Straight/rising/straight design**

- Max. incline 60°
Scraper conveyors
For disposal of small materials

Types and main areas of application

KRF 040 – the “classic” scraper conveyor
Pitch of the scraper belt $t = 40$ mm
Our standard scraper conveyor for smaller machine tools and small quantities of chips.

KRF 063 – for somewhat “bigger” tasks
Pitch of the scraper belt $t = 63$ mm
For larger machines and larger quantities of chips.

KRF 100 – the “Jumbo” for highest demands
Pitch of the scraper belt $t = 100$ mm
Special solution for very large quantities of chips.
Standard dimensions

<table>
<thead>
<tr>
<th>Type</th>
<th>Pitch t</th>
<th>Box height HK</th>
<th>Scraper belt width BKR</th>
<th>Box width BK</th>
</tr>
</thead>
<tbody>
<tr>
<td>KRF 040.00</td>
<td>40</td>
<td>140</td>
<td>150, 200, 250, 300, 450, 600</td>
<td>BKR + 90 mm</td>
</tr>
<tr>
<td>KRF 063.00</td>
<td>63</td>
<td>216</td>
<td>150, 300, 450, 600, 750, 900</td>
<td>BKR + 120 mm</td>
</tr>
<tr>
<td>KRF 100.00</td>
<td>100</td>
<td>420</td>
<td>150, 300, 450, 600, 750, 900</td>
<td>BKR + 150 mm</td>
</tr>
</tbody>
</table>

Special dimensions on request.

Dimensions of conveyor housing

Variable dimensions:
- BKR = Scraper width
- BK = Box width
- BAG = Feed width

Design-dependent dimensions:
- HK = Box height
- HKE = Retracted box height
- LA = Length of the tail (discharge, incl. tensioning distance)
- LU = Length of the tail (feed)

Dimensions in mm

<table>
<thead>
<tr>
<th>Type</th>
<th>HK</th>
<th>HKE</th>
<th>LAW</th>
<th>LA</th>
<th>LU min</th>
</tr>
</thead>
<tbody>
<tr>
<td>KRF 040.00</td>
<td>140</td>
<td>110</td>
<td>500</td>
<td>180</td>
<td>73</td>
</tr>
<tr>
<td>KRF 063.00</td>
<td>216</td>
<td>153</td>
<td>620</td>
<td>240</td>
<td>106</td>
</tr>
<tr>
<td>KRF 100.00</td>
<td>360</td>
<td>260</td>
<td>1000</td>
<td>600</td>
<td>215</td>
</tr>
</tbody>
</table>
Modular conveyors

Hinged belt conveyors with modular construction

Our hinged belt conveyors are also available with modular design construction. Thanks to the use of standard subassemblies, you can benefit from significantly shorter delivery times than with conventionally constructed conveyors.

The conveyors are delivered ready for operation.

The hinged-belt conveyors feature three individually configurable subassemblies:
- reversing unit
- feeding section
- discharge unit

Dimensions of standard modules

On the basis of conveyor type SRF 063 (belt width 300 mm), the standard modules can be assembled and delivered on short notice. Fixed discharge heights cover the most common container sizes. With length sections of 400 mm, the feed length can be adapted to various machines.

Should you require a conveyor system with different dimensions, please contact us – we are constantly expanding our range of standard modules.

<table>
<thead>
<tr>
<th>Standard subassembly</th>
<th>Discharge height Hₚ</th>
<th>Belt width Bₛₙₜ</th>
<th>Box width Bₚ</th>
<th>Panel height Hₚ</th>
<th>Length L</th>
<th>Installation height Hₚ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discharge unit 800</td>
<td>1115</td>
<td>300</td>
<td>420</td>
<td>80</td>
<td>1845</td>
<td>–</td>
</tr>
<tr>
<td>Discharge unit 1200</td>
<td>1460</td>
<td>300</td>
<td>420</td>
<td>80</td>
<td>2045</td>
<td>–</td>
</tr>
<tr>
<td>Discharge unit 1600</td>
<td>1810</td>
<td>300</td>
<td>420</td>
<td>80</td>
<td>2245</td>
<td>–</td>
</tr>
<tr>
<td>Feeding section 800</td>
<td>–</td>
<td>300</td>
<td>420</td>
<td>80</td>
<td>800</td>
<td>320</td>
</tr>
<tr>
<td>Feeding section 1200</td>
<td>–</td>
<td>300</td>
<td>420</td>
<td>80</td>
<td>1200</td>
<td>320</td>
</tr>
<tr>
<td>Feeding section 1600</td>
<td>–</td>
<td>300</td>
<td>420</td>
<td>80</td>
<td>1600</td>
<td>320</td>
</tr>
<tr>
<td>Reversing unit</td>
<td>–</td>
<td>300</td>
<td>420</td>
<td>80</td>
<td>400</td>
<td>320</td>
</tr>
</tbody>
</table>

all dimensions in mm

Modular hinged belt conveyors with modular system design
- short delivery times
- cost-efficient
- configurable with standard subassemblies
- delivered ready for operation (no on-site assembly necessary)
- stable conveyor housing (welded modular connections)

Subject to change.
Belt conveyors
The all-rounders – also for parts with sharp edges

Our belt conveyors are predominantly used on punch-nibbling machines, for transporting punching scrap and punching trimmings. However, other parts can also be transported, such as waste parts from plastic injection machines. The transport belt of the conveyor is resistant to oil and grease.

Structure
- Housing made of steel plate
- Oil-resistant belt
- Protective motor switch
- Convex return shafts
- Shafts with ball bearings
- Adjustable belt tension

The universal transport solution, for applications where no cooling lubricant is present.
- Also suitable for parts with sharp edges
- Not suitable for transporting hot chips

Belt conveyors
Standard design

Can be used in a horizontal or inclined position. Max incline 30°

Standard dimensions

<table>
<thead>
<tr>
<th>Type</th>
<th>Box height HK</th>
<th>Belt width BG</th>
<th>Box width BK</th>
<th>Maximum conveying length FL</th>
</tr>
</thead>
<tbody>
<tr>
<td>GBF</td>
<td>104</td>
<td>150, 200, 250, 300, 450, 600</td>
<td>BG + 50</td>
<td>5000</td>
</tr>
</tbody>
</table>

Special widths on request. Dimensions in mm