

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.



kabelschlepp.de



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

■ Hinged belt conveyors

Enquiry forms – page 598

Fon: +49 2762 4003-0

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.



kabelschlepp.de

Order

Fon: +49 2762 4003-0

Cables for Motion
TOTALTRAX Complete Systems

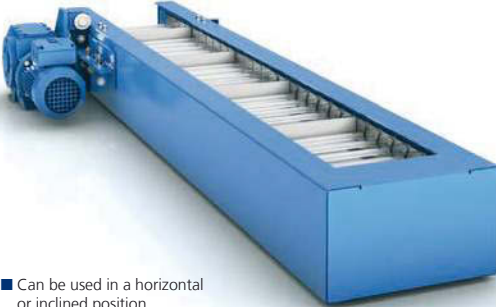
Conveyor Systems

Enquiry forms – page 598

537

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

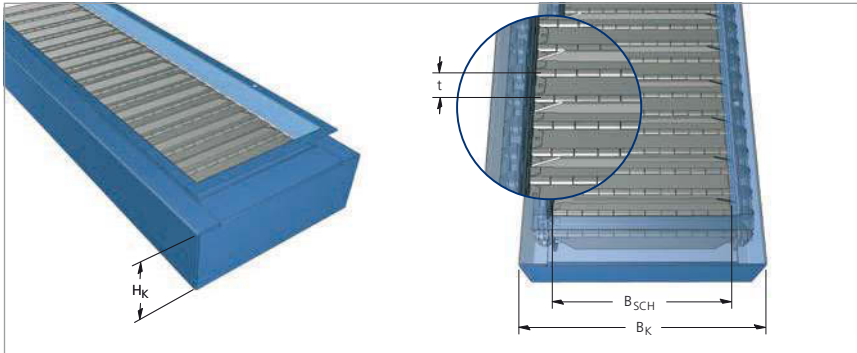


■ **Hinged belt with perforations**
for pre-separation of coolant for materials with a high proportion of coolant



■ **Hinged belt conveyor with corrugations**
for transporting "sticky" parts

Standard dimensions



| Type | Pitch t | Box height H _K | Hinged belt width B _{SCH} | Box width B _K |
|------------|------------|------------------------------|---------------------------------------|-----------------------------|
| SRF 040.00 | 40 | 140 | 150, 200, 250, 300, 450, 600 | B _{SCH} + 75 mm |
| SRF 063.00 | 63 | 216 | 150, 300, 450, 600, 750, 900 | B _{SCH} + 120 mm |
| SRF 100.00 | 100 | 360 | 150, 300, 450, 600, 750, 900 | B _{SCH} + 150 mm |
| SRF 150.00 | 150 | 540 | 300, 450, 600, 750, 900 | B _{SCH} + 190 mm |

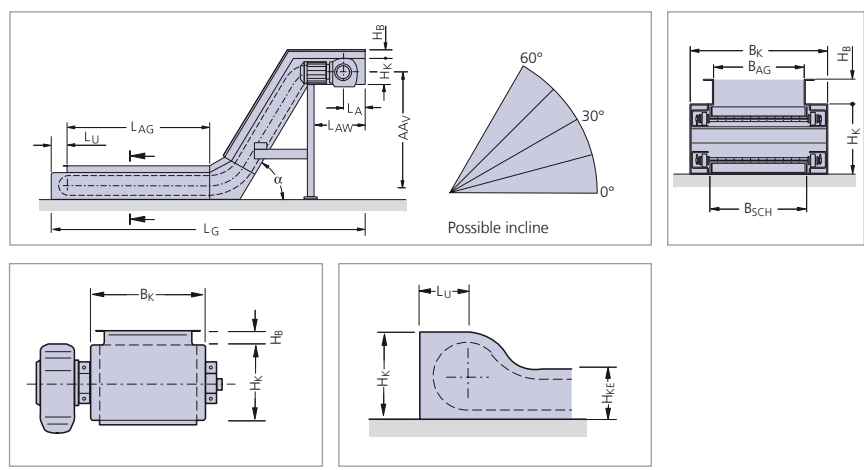
Special widths on request.



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_B = Panel height
- AAV = Distance between axles, vertical
- L_{AG} = Feed length
- L_{AW} = Discharge length
- L_G = Total length of the conveyor
- α = 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.

| Type | H_B | H_K | H_{KE} | L_{AW} min | L_A | L_U |
|------------|-------|-------|----------|--------------|-------|-------|
| SRF 040.00 | 40 | 60 | – | 140 | 110 | 500 |
| SRF 063.00 | 40 | 80 | 150 | 216 | 153 | 620 |
| SRF 100.00 | 150 | 250 | – | 360 | 260 | 1000 |
| SRF 150.00 | 150 | 250 | 350 | 540 | 390 | 1000 |

Dimensions in mm

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.

| Type | t | S _{SCH} | H _S |
|------------|-----|------------------|----------------|
| SRF 040.00 | 40 | 1.5 | 20 |
| SRF 063.00 | 63 | 3.0 | 35 |
| SRF 100.00 | 100 | 3.5 | 60 |
| SRF 150.00 | 150 | 5.0 | 100 |

Dimensions in mm

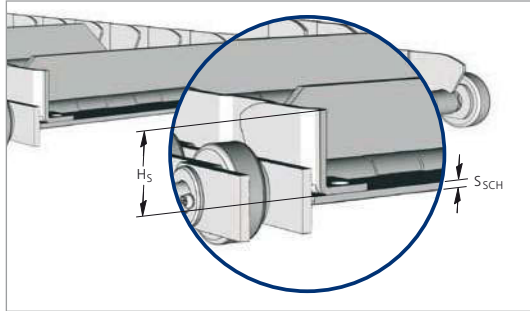
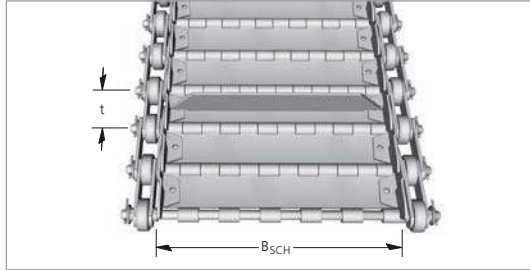
Definitions:

t = Pitch

B_{SCH} = Hinged belt width

S_{SCH} = Plate thickness of the conveyor

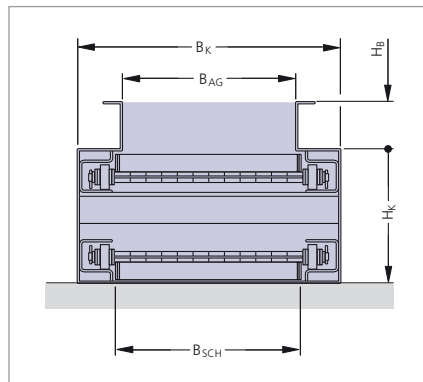
H_S = Height of the side rim



Dimensions as a function of the hinged belt width

| Type | B _{SCH} | B _K | B _{AG} |
|------------|------------------|----------------|-----------------|
| SRF 040.00 | 150 | 225 | 130 |
| | 200 | 275 | 180 |
| | 250 | 325 | 230 |
| | 300 | 375 | 280 |
| | 450 | 525 | 430 |
| | 600 | 675 | 580 |
| SRF 063.00 | 150 | 270 | 130 |
| | 300 | 420 | 280 |
| | 450 | 570 | 430 |
| | 600 | 720 | 580 |
| | 750 | 870 | 730 |
| | 900 | 1020 | 880 |
| SRF 100.00 | 150 | 300 | 120 |
| | 300 | 450 | 270 |
| | 450 | 600 | 420 |
| | 600 | 750 | 570 |
| | 750 | 900 | 720 |
| | 900 | 1050 | 870 |
| SRF 150.00 | 300 | 490 | 250 |
| | 450 | 640 | 400 |
| | 600 | 790 | 550 |
| | 750 | 940 | 700 |
| | 900 | 1090 | 850 |

Dimensions in mm



Definitions:

B_{SCH} = Hinged belt width

B_K = Box width

B_{AG} = Feed width

Hinged belt conveyor with WAVE-BELT System

No hinge – almost seamless

Chips, particles and dirt can accumulate in the hinges of conventional hinged belt conveyors.

The WAVE-BELT System has no hinges, the single plates of the WAVE-BELT System glide almost gap free one upon each other. The construction of the side rims has been optimized so that their surface is also smooth and almost gap free. The WAVE-BELT System is suitable for a variety of coolant-free application, where the default risk of jammed transported material shall be minimized.

Hinged belt conveyors with WAVE-BELT System

- Longer service life due to optimized belt construction
- Denser than conventional conveyors, as no hinges
- Extremely stable due to special shaping of the individual belt plates
- Easy to maintain because of bolted belt plates that can be easily replaced



■ The special design of the plates makes the complete belt extremely rigid and highly stressable.

kabelschlepp.de

Fon: +49 2762 4003-0

Enquiry forms – page 598

WBS
KABELSCHLEPP
WAVE-BELT-System

This sign indicates that the latest generation of KABELSCHLEPP WAVE-BELT System is applied.



kabelschlepp.de

Fon: +49 2762 4003-0

Enquiry forms – page 598

543

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.



■ Replacement of individual hinge belt plates at the discharge.

Dimensions of hinge belt conveyor WBC 063

Hinge belt

| Type | t | S _{SCH} | H _S |
|------------|----|------------------|----------------|
| WBC 063.00 | 63 | 2.5 | 22.5 |

Dimensions in mm

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

