Conveyor systems.

Reliability and experience based on tradition.

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

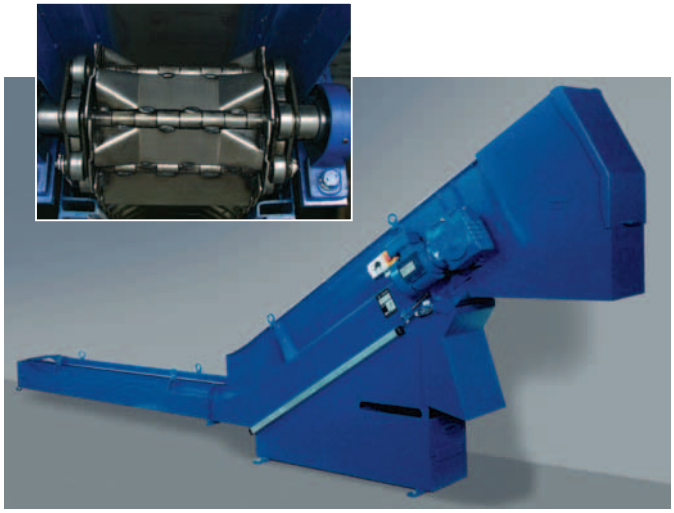
In the metalworking industry, tonnes of metal chips are created every day at cutting machine tools. We offer the right chip removal system and the suitable conveyor for your specific application.

- 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

■ Standard hinged belt conveyor at a CNC boring machine

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



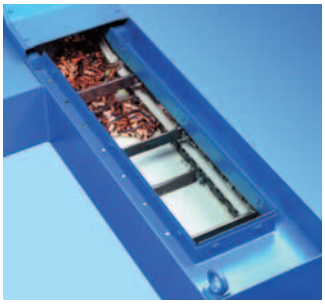
■ Hinged belt conveyor developed for the Trumpf TUBEMATIC laser cutting machine. Special hinged belt plates prevent jamming of the material to be conveyed.

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 in to account.

■ Hinged belt conveyors



■ Scraper belt conveyors

■ Belt conveyors

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.

■ Hinged belt conveyor for loading of a hopper system

■ Special model at a trimming shear with a belt width of 900 mm

■ Scraper conveyor for distribution of various chip materials

■ Scraper conveyor under a hopper system for aluminium chips

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.

■ Hinged belt conveyors

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

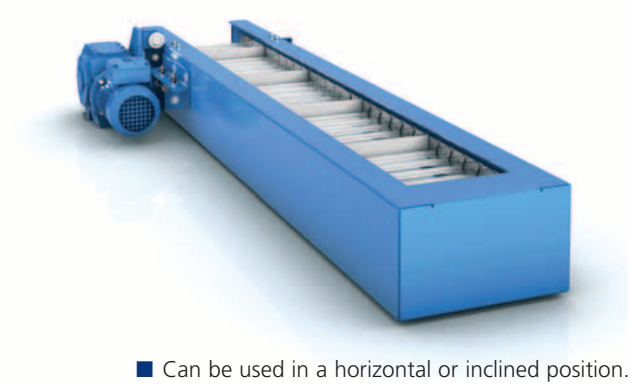
- Stable metal plate construction
- Standardized housing cross-section with variable width
- Robust worm gear motor with torque switching
- Customized discharge height
- Customized incline standards = 30°, 45° and 60°
- Floor mounting or as a push-in version into the machine base

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.

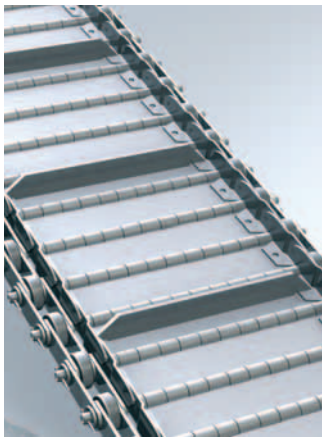
SRF 150.00 – the “strongest” one we build.

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:

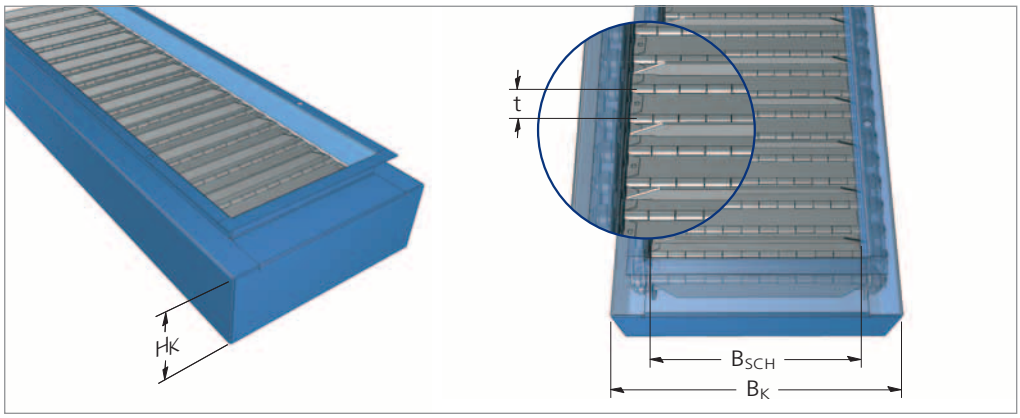


■ **Hinged belt (standard)**
for dry materials and chips with a low proportion of coolant

■ **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



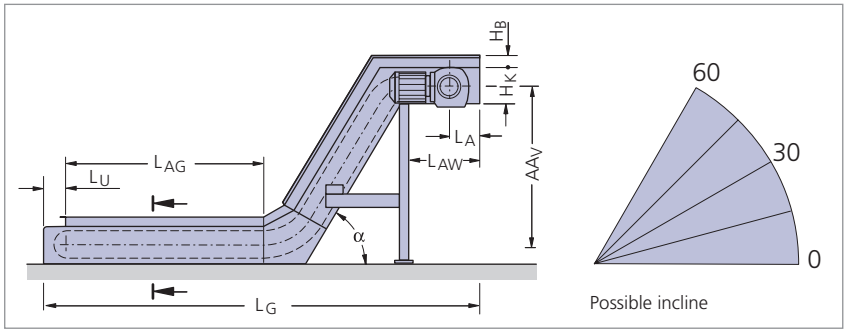
Type	Pitch t	Box height H_K	Hinged belt width B_{SCH}	Box width B_K
SRF 040.00	40	140	150, 200, 250, 300, 450, 600	B_{SCH} + 75 mm
SRF 063.00	63	216	150, 300, 450, 600, 750, 900	B_{SCH} + 120 mm
SRF 100.00	100	360	150, 300, 450, 600, 750, 900	B_{SCH} + 150 mm
SRF 150.00	150	540	300, 450, 600, 750, 900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

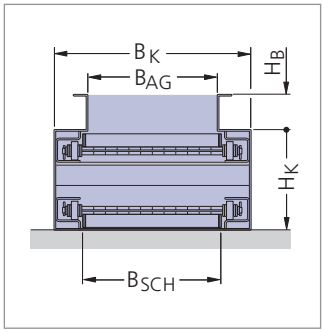
Special widths on request.

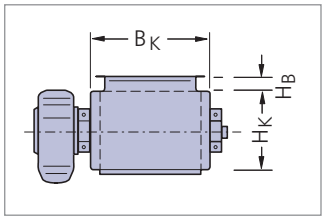
Hinged belt conveyors.

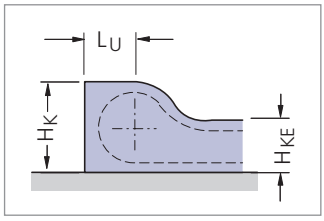
Proven for a wide range of disposal tasks.

Dimensions of conveyor housing









Variable dimensions:

B_{Sch} = Hinged belt width
B_K = Box width
B_{AG} = Feed width
H_B = Panel height
AA_V = 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)
L_U = Length of the tail (feed)

The tensioning station is located at the discharge.

Dimensions in mm

Type	H_B			H_K	H_{KE}	L_{AW} min	L_A	L_U
SRF 040.00	40	60	–	140	110	500	180	73
SRF 063.00	40	80	150	216	153	620	240	111
SRF 100.00	150	250	–	360	260	1000	600	185
SRF 150.00	150	250	350	540	390	1000	600	275

The enquiry form can be found on page 70.

Dimensions of hinged belt

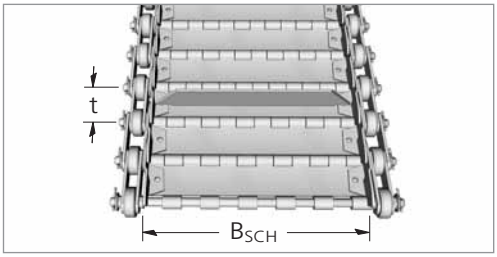
Manufactured of strip steel, the hinged belt plates have roller-formed hinge eyes, and are connected by means of axles to the side chains (which are designed as hollow pin chains), thus forming a hinged belt assembly.

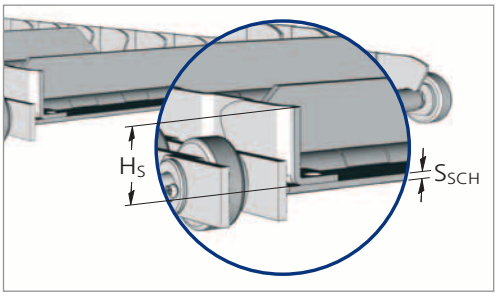
Dimensions in mm

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

Definitions:

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

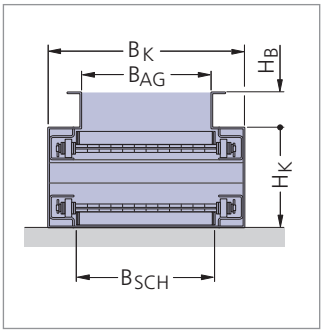




Dimensions as a function of the hinged belt width

Dimensions in mm

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



Definitions:

B_{SCH} = Hinged belt width
B_K = Box width
B_{AG} = Feed width

Scraper conveyors.

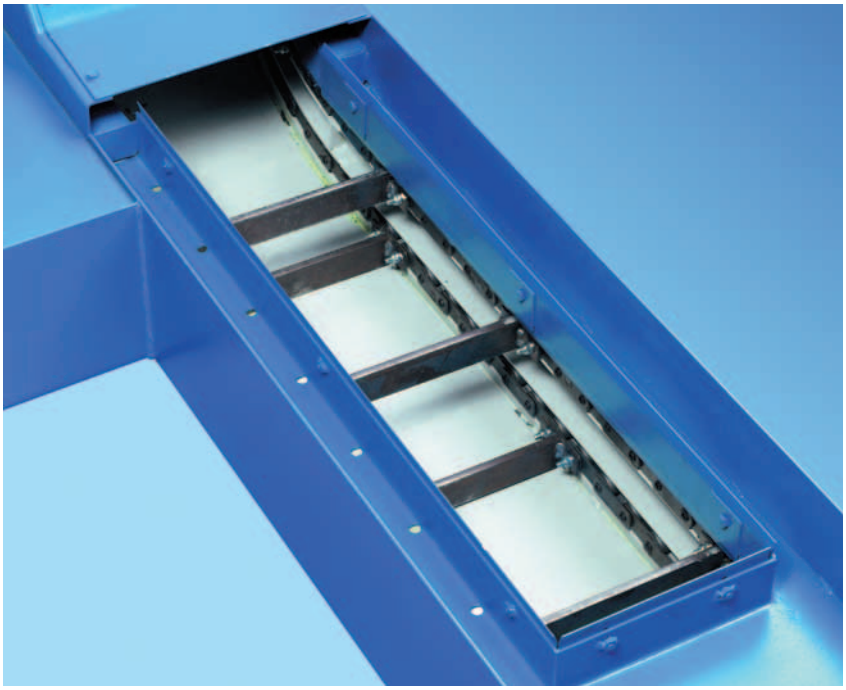
For disposal of small materials.

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.



■ Scraper belt conveyors

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

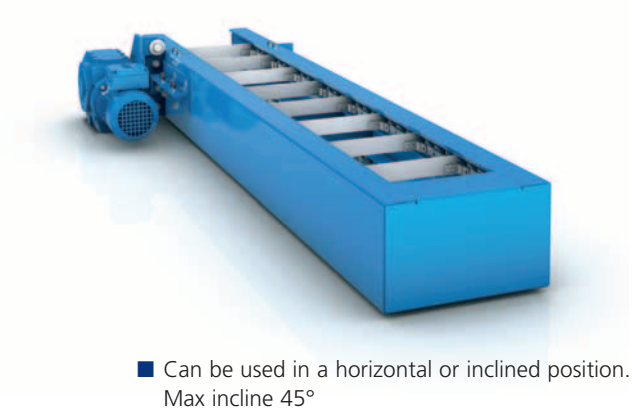
- Stable metal plate construction
- Standardized housing cross-section with variable width
- Robust worm gear motor with torque switching
- Customized discharge height
- Customized incline standards = 30°, 45° and 60°
- Floor mounting or as a push-in version into the machine base

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

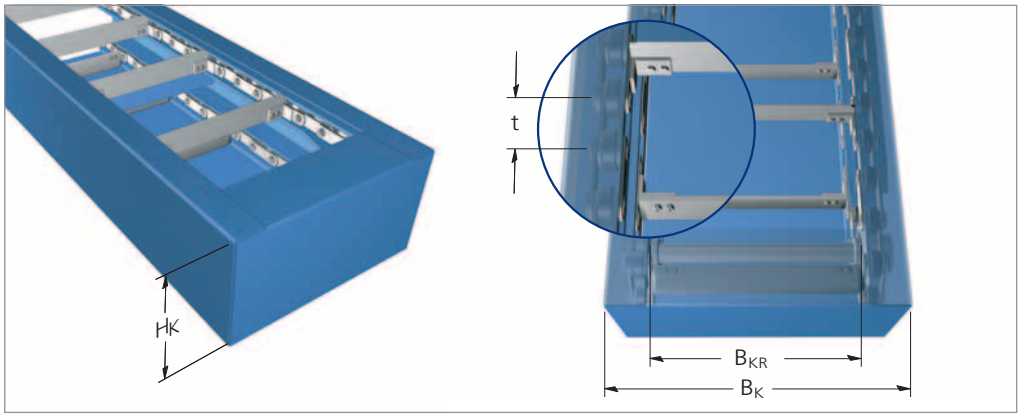
For larger machines and larger quantities of chips.

KRF 100 – the “strongest” one we build.

Pitch of the scraper belt t = 100 mm

Special solution for very large quantities of chips

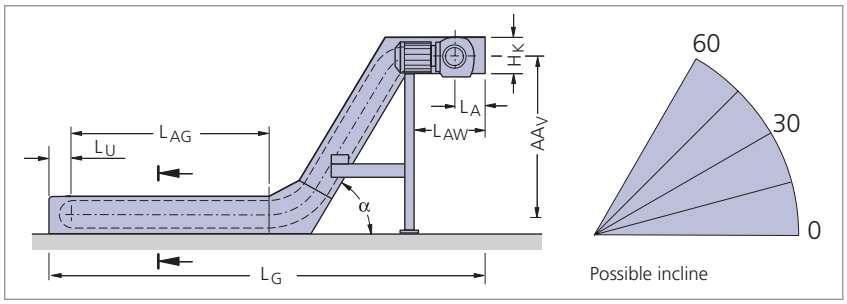
Standard dimensions

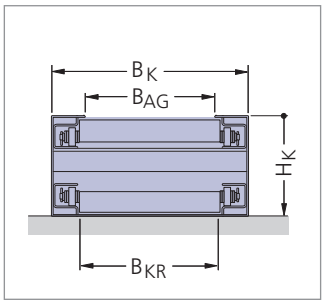


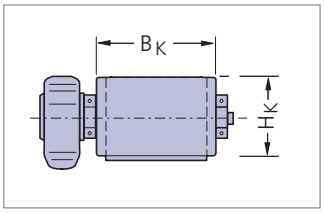
Type	Pitch t	Box height H_K	Scraper belt width B_{KR}	Box width B_K
KRF 040.00	40	140	150, 200, 250, 300, 450, 600	B_{KR} + 90 mm
KRF 063.00	63	216	150, 300, 450, 600, 750, 900	B_{KR} + 110 mm
KRF 100.00	100	360	150, 300, 450, 600, 750, 900	B_{KR} + 165 mm

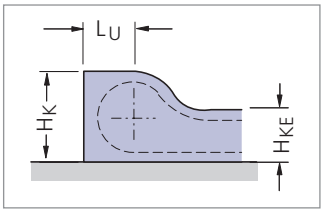
Special dimensions on request.

Dimensions of conveyor housing









Dimensions in mm

Type	H_K	H_{KE}	L_{AW}	L_A	L_U min
KRF 040.00	140	110	500	180	73
KRF 063.00	216	153	620	240	111
KRF 100.00	360	260	1000	600	185

Variable dimensions:

B_{KR} = Scraper width
B_K = Box width
B_{AG} = Feed width
AA_V = 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)

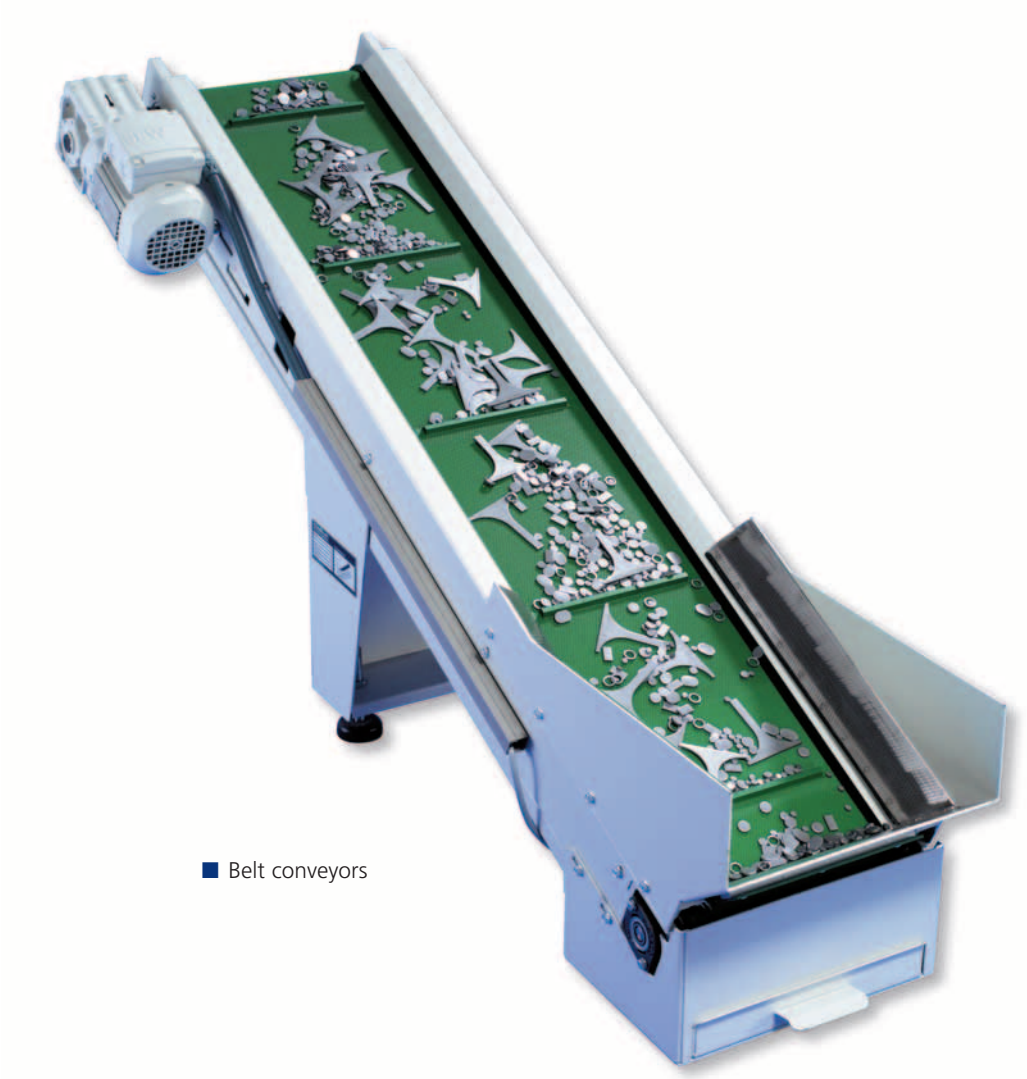
The enquiry form can be found on page 72.

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.



■ Belt conveyors

Structure

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

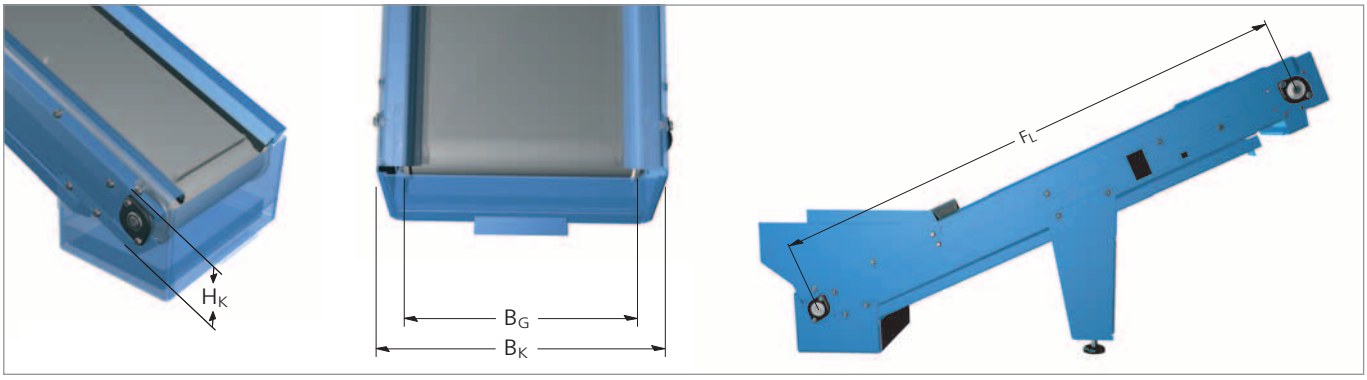
The universal transport solution, for applications where no cooling lubricant is present.

- Also suitable for parts with sharp edges
- Not suitable for transporting hot chips

Standard design

■ **Standard design**
Can be used in a horizontal or inclined position.
Max incline 30°

Standard dimensions



Dimensions in mm

Type	Box height H_K	Belt width B_G	Box width B_K	Maximum conveying length F_L
GBF 040.00	104	150, 200, 250, 300, 450, 600	B_G + 50	5000

Special widths on request.

The enquiry form can be found on page 74.