

Strap hinge conveyor S

KNOLL
.It works

Issue 08-2019



Properties

Safety slide coupling

Simple layout

Customer-specific design

Benefits

Effective overload protection

Easy to service

Best-possible addressing of requirements

Application

KNOLL strap hinge conveyors S are plants for transporting metal chips and small parts.

- Decentral use on individual and interlinked machine tools
- Central use for waste disposal from machine groups and entire production areas
- Suitable for long chips, chip balls, and wool chips
- Suitable for wet and dry processing

Description

Main functions

1. Collection of the chips/parts
2. Transporting of the chips to the discharge point on the upper belt span

Additionally for wet processing

3. Collecting of the cooling lubricant
4. Separating of chips and cooling lubricant
5. Buffering of cooling lubricant
6. Transporting of the cooling lubricant for processing, return pumping station or machine

Continuous strap hinge

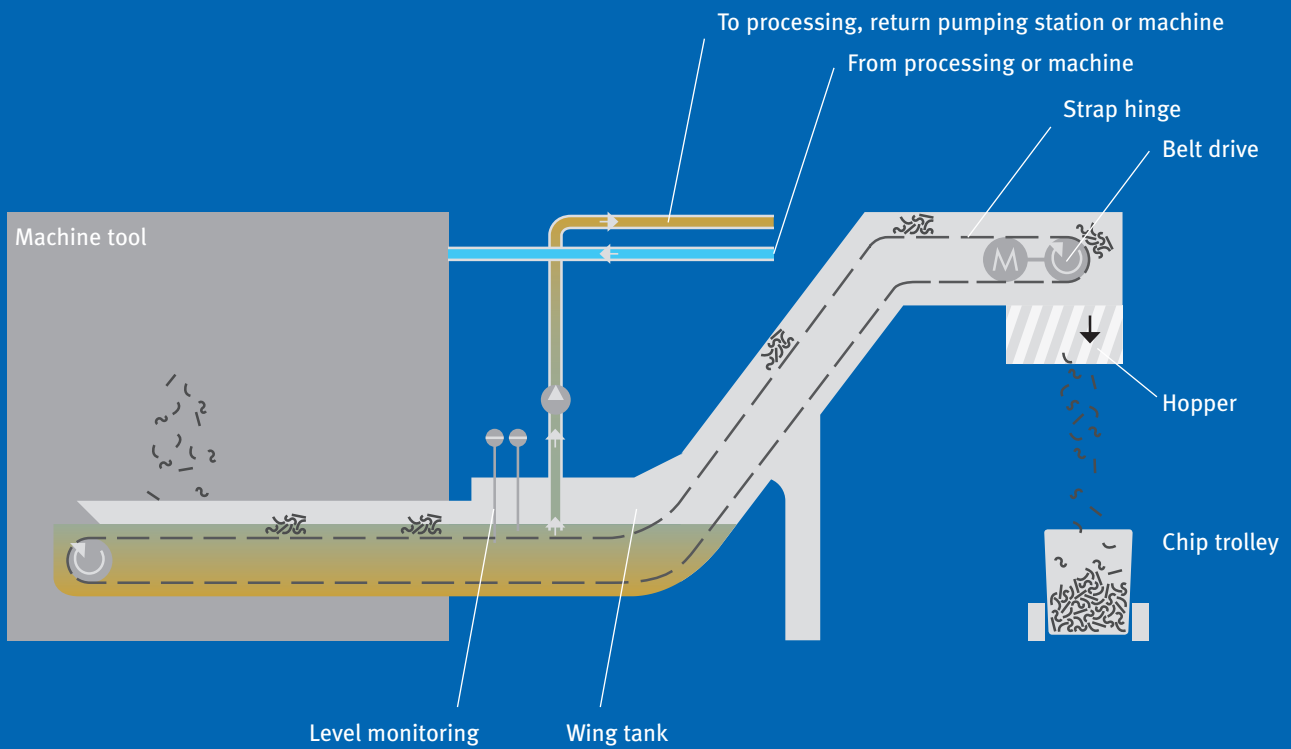
- 2 roller chain strands that are connected to steel plates
- Positively-driven chain circulation
- Tensioning through easy adjustment of the bearing retainers

Combination possibilities

For other requirements, on request we can combine the conveyor with

- Filter systems for cleaning the cooling lubricant and supplying the machine tool
- Chip reducers for generating pumpable or absorbent chips
- Return pumping stations for transporting chips and cooling lubricant to the central plant
- Extraction stations for transport of chips to the central plant

Scheme



Equipment

Strap hinge	●
Belt drive (three-phase geared motor with overload protection)	●
Safety slide coupling	●
Belt-drive control with limit switch	○
Belt scraper	○
Lubricator (for dry processing)	○
Support	○
Wing tank	○
Level monitoring	○
Lifting pump(s)	○
Piping and fittings	○
Hopper	○
Chip trolley	○
Control	○

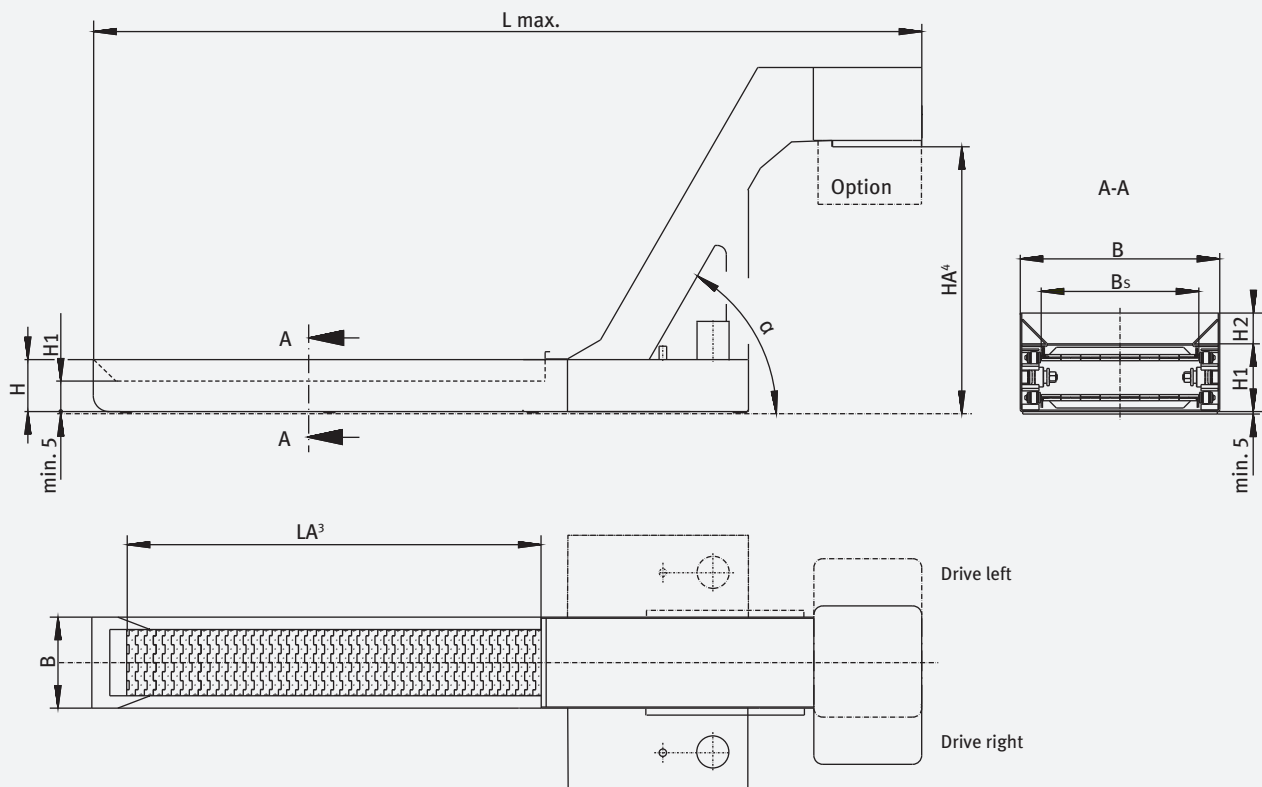
- Standard equipment
- Option

KNOLL Maschinenbau GmbH

Schwarzachstraße 20
DE-88348 Bad Saulgau
Tel. +49 7581 2008-0
Fax +49 7581 2008-90140
info.itworks@knoll-mb.de
www.knoll-mb.com



Dimensions and technical data



Type	Chain pitch	Bs	B	H1 standard	H1 drawn in	L max. ² (m)
S-1	40	120-160-200-240-280-320-360-400-440-480-600-640-760-960	B _S + 85	135	95	9
S-2	63	150-190-225-262-300-375-450-600-750-900-1200	B _S + 120	216	152	15
S-2-S	63	300-450-600	B _S + 120	276	152	25
S-3	100	300-450-600-900	B _S + 155	550	450	60

Dimensions without units given in mm.

¹ Intermediate widths not possible, wider types on request

² Standard value

³ LA = Feeding length

⁴ HA = Discharge height above ground

Dimensions HA and L on request

H1 + H2 = H; H2 min. = 25 mm

Other dimensions on request

Lead angle $\alpha = 0^\circ-30^\circ-45^\circ-60^\circ-75^\circ$

Depending on model, driving power of 0.25 to 3 kW