

Scraper belt conveyor SR

KNOLL
.It works

Issue 08-2019



Properties

Safety slide coupling

Wear-resistant model

Robust construction

Customer-specific design

Benefits

Effective overload protection

Great durability

High capacity

Best-possible addressing of requirements

Application

KNOLL scraper belt conveyors SR are plants for collecting and separating chips and cooling lubricants from several machine tools. For even better preparation of the cooling lubricant, a filtration process can be integrated.

- Setup as central plant for machine groups and complete production areas
- Suitable for short chips 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

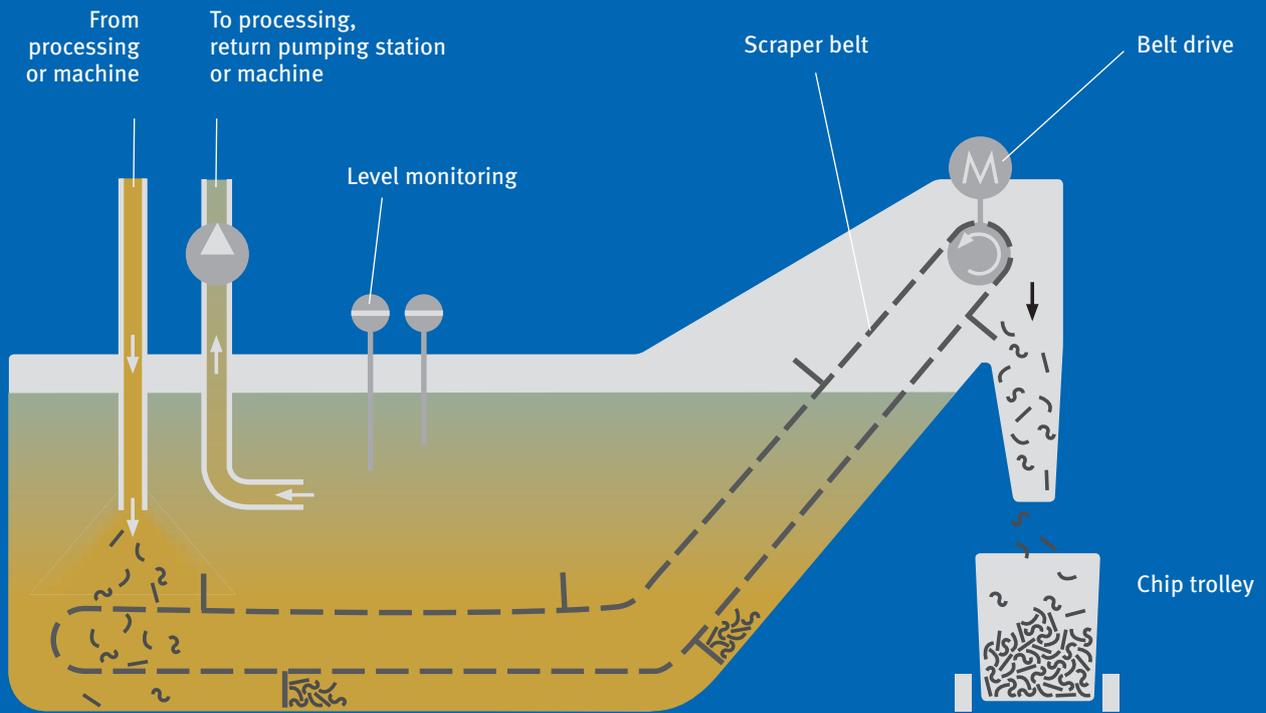
- 2 roller chain strands that are connected to scraper bars
- Positively-driven chain circulation
- Tensioning through easy adjustment of the driving frame

Combination possibilities

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

- Systems for retreating chips and sludge (dryer, presses, concentrators)
- Systems for conveying the chips into containers

Schema



Equipment

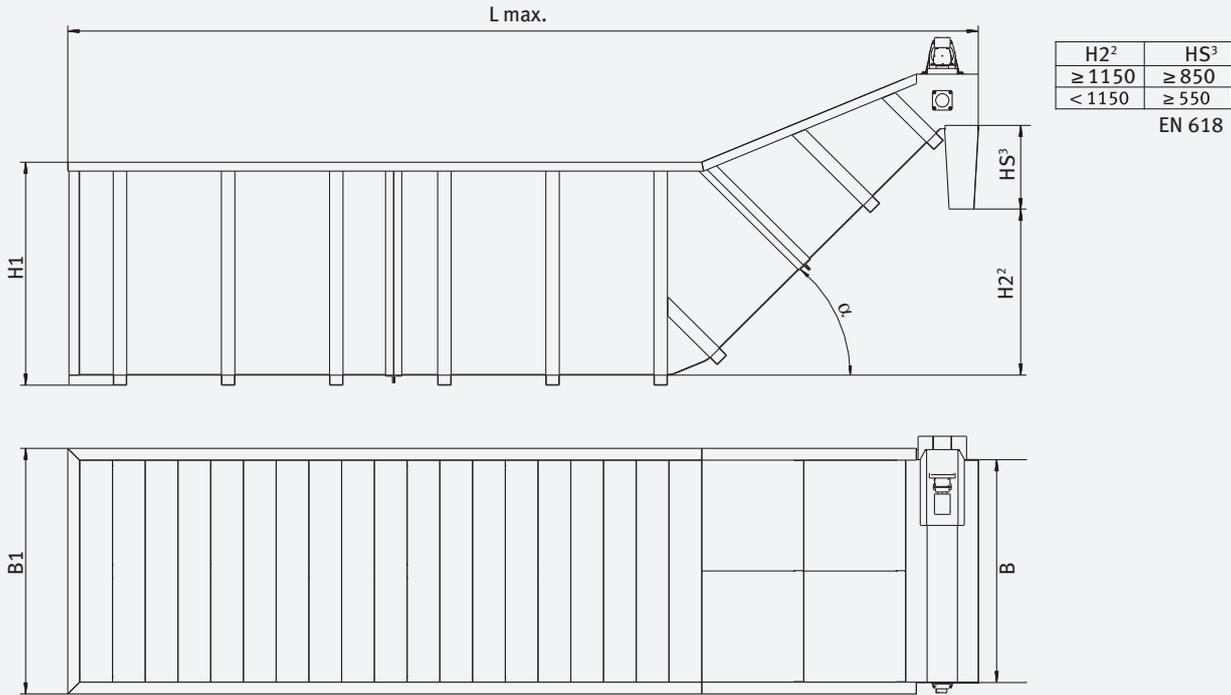
Scraper belt	●
Belt drive (three-phase current geared motor)	●
Wearing floor	●
Safety slide coupling with limit switch	●
Feed hopper	●
Level monitoring	●
Discharge hopper	●
Pre-separator	○
Chip trolley	○
Control	○
Surface flushing	○
Oil separator	○
Metering and mixing device for automatic refilling of the cooling lubricant	○
Lifting pumps for charging the filters	○
Filters (e.g. reversable flow filter, hydrocyclone, superfine filter)	○
Pump(s) for supply the machine tools	○
Piping and fittings	○
Temperature control device	○
Safety catch pan	○

● 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	B	B1	H1	α (°)	L max. ¹ (m)	Chip quantity aluminum (kg/h)	Chip quantity steel (kg/h)	Throughput power max. ² (l/min)	Tank capacity max. ² (m ³)
SR	63	1000-1400-2000	B+200	1400-1600-1800-2000-2200-2400	50	25	<50	<100	10.000	100
SR-S	100	2000	B+200	1400-1600-1800-2000-2200-2400	50	25	<120	<200	10.000	100

Dimensions without units given in mm.

¹ Standard value

² H2 on request

³ HS = Height of protected area according to safety regulation EN 618