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**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. reversible flow filter, hydrocyclone, superfine filter) ○
Pump(s) for supply the machine tools ○
Piping and fittings ○
Temperature control device ○
Safety catch pan ○

● Standard equipment
○ Option
## Dimensions and technical data

### Scraper belt conveyor SR

**Type** | **Chain pitch** | **B** | **B1** | **H1** | **α (°)** | **L max. (m)** | **Chip quantity aluminum (kg/h)** | **Chip quantity steel (kg/h)** | **Throughput power max. (l/min)** | **Tank capacity max. (m³)**
---|---|---|---|---|---|---|---|---|---|---
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

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