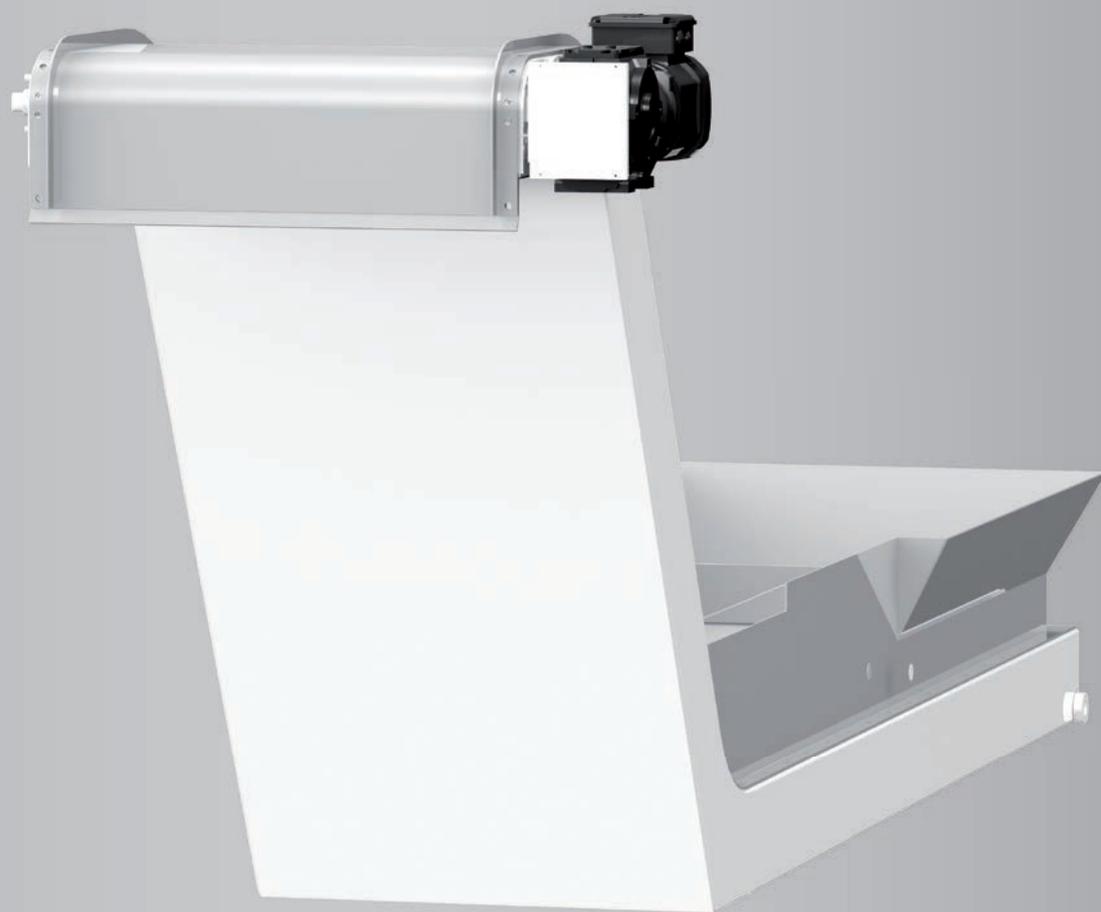


Magnetic band conveyor M

KNOLL
.It works

Issue 08-2019



Properties

Simple layout

Magnetic operating principle

Customer-specific design

Chip transport outside of the sealed conveyor trough

Benefits

Easy to service

Very good separation of even the smallest particles

Best-possible addressing of requirements

Low wear, great durability

Application

KNOLL magnetic band conveyors M are plants for transporting ferromagnetic 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 short steel or cast chips (e.g. from hobbing) and punching
- Suitable for wet and dry processing
- Not suitable for anti-magnetic steel, NE metals, and long chips/chip balls 150 mm length

Description

Main functions

1. Collection of the chips/parts
2. Transporting of the chips/parts to the discharge point on the conveyor plate

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 magnetic band

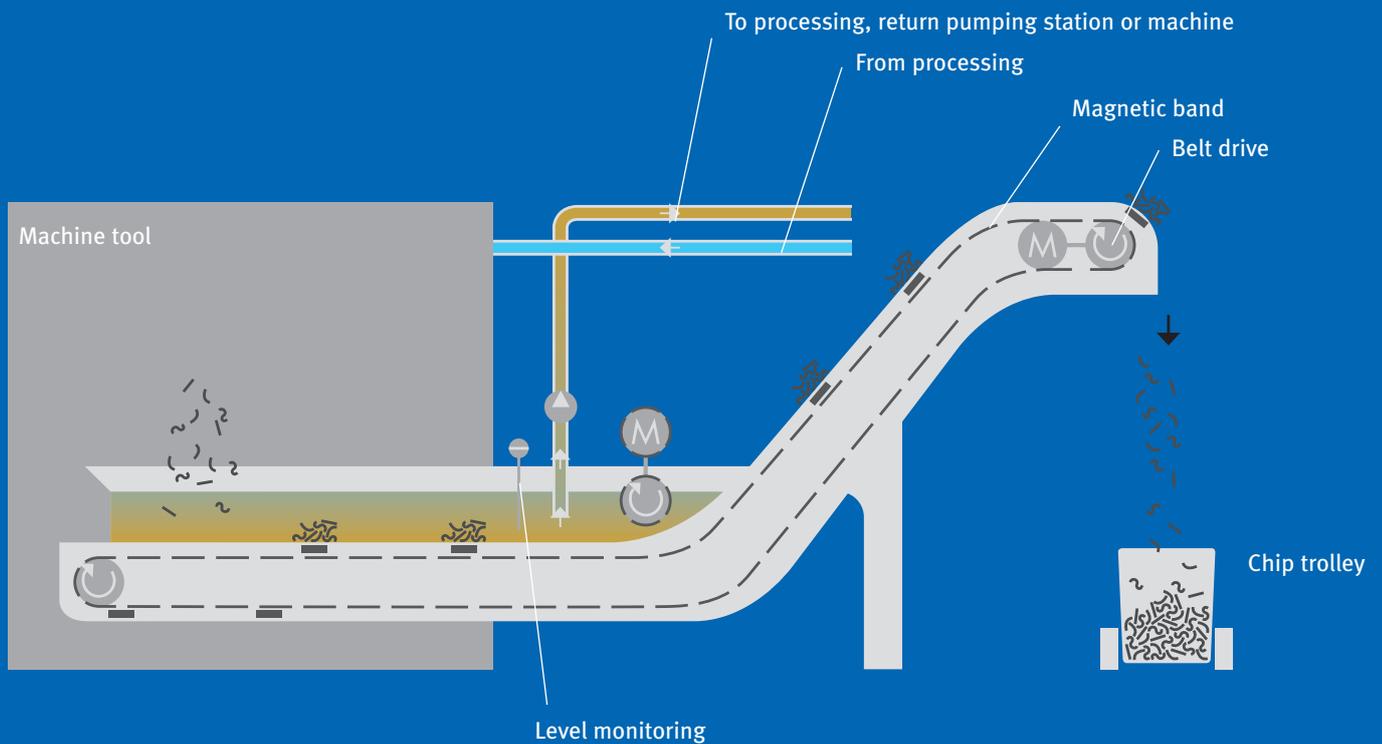
- 2 roller chain strands that are connected to carrying bars and permanent magnets
- Positively-driven chain circulation
- Automatic tensioning

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

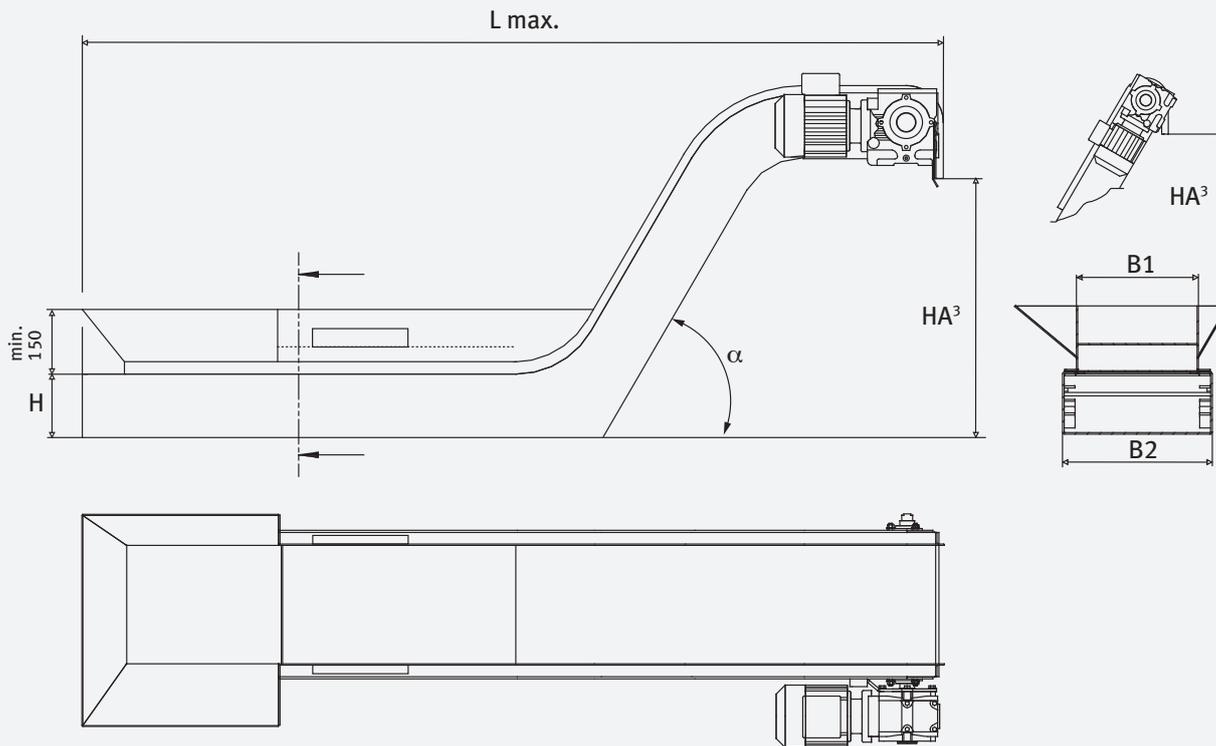
Magnetic band with automatic tensioning device	●
Belt drive (three-phase geared motor with overload protection)	●
Belt-drive control with limit switch	○
Support	○
Wing tank	○
Fill level monitoring	○
Lifting pump(s)	○
Piping and fittings	○
Chip trolley	○
Control	○
Drip tray	○

- Standard equipment
- Option

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Dimensions and technical data



Type	Chain pitch	B1 ¹	B2	H	L max. ² (m)
M-L	15,9	100-155-200-255-310-365-420	B1 + 80	85	4
M	38,1	125-170-200-275-350-425-500-575	B1 + 70	145	5
M-S	38,1	200-275-350-425-500-575-650	B1 + 70	195	9

Dimensions without units given in mm.

¹ Intermediate widths and wider types on request

² Standard value

³ HA = Discharge height above ground

Dimensions HA and L on request

Other dimensions on request

Lead angle α 0° to 90° in 5 steps

Depending on model, driving power of up to 0.75 kW