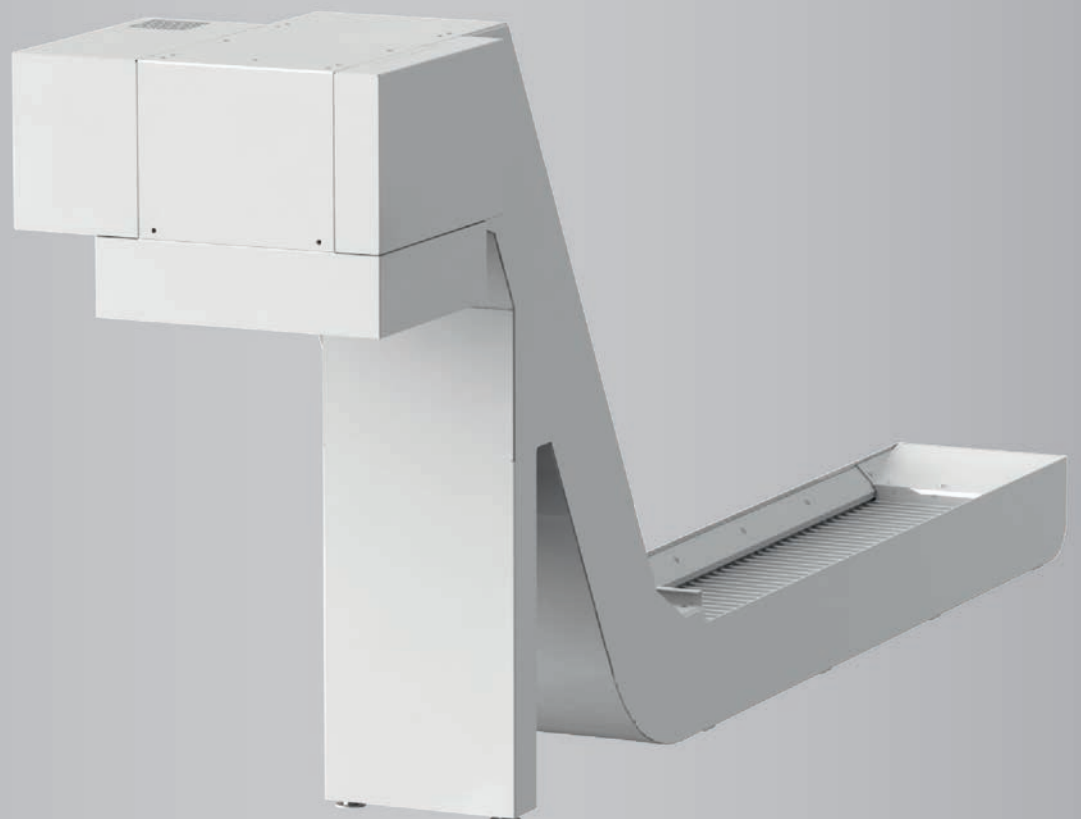


Slat belt conveyor P

KNOLL
.It works

Issue 09-2022



Properties

Benefits

Slats without hinges	Long service life
Profiled slats	High level of stability
Perforated slats	Good pre-separation of chips
Prefilter (for P-40-F)	Minimum chip load for subsequent processing
Bolted slats and guide elements	Easy to service
Customised design	Optimally meets requirements

Application

KNOLL P slat belt conveyors are systems for transporting metal chips and small parts.

- Autonomous use at individual and linked machine tools
- Central use of machine groups and production areas
- Suitable for long chips, snarl chips and wool chips (including in conjunction with short chips)
- Suitable for wet and dry processing

Description

Main functions

1. Collecting chips
2. Transporting chips to the top side of the belt to the discharge point

Additionally for wet machining

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

Continuous slat belt

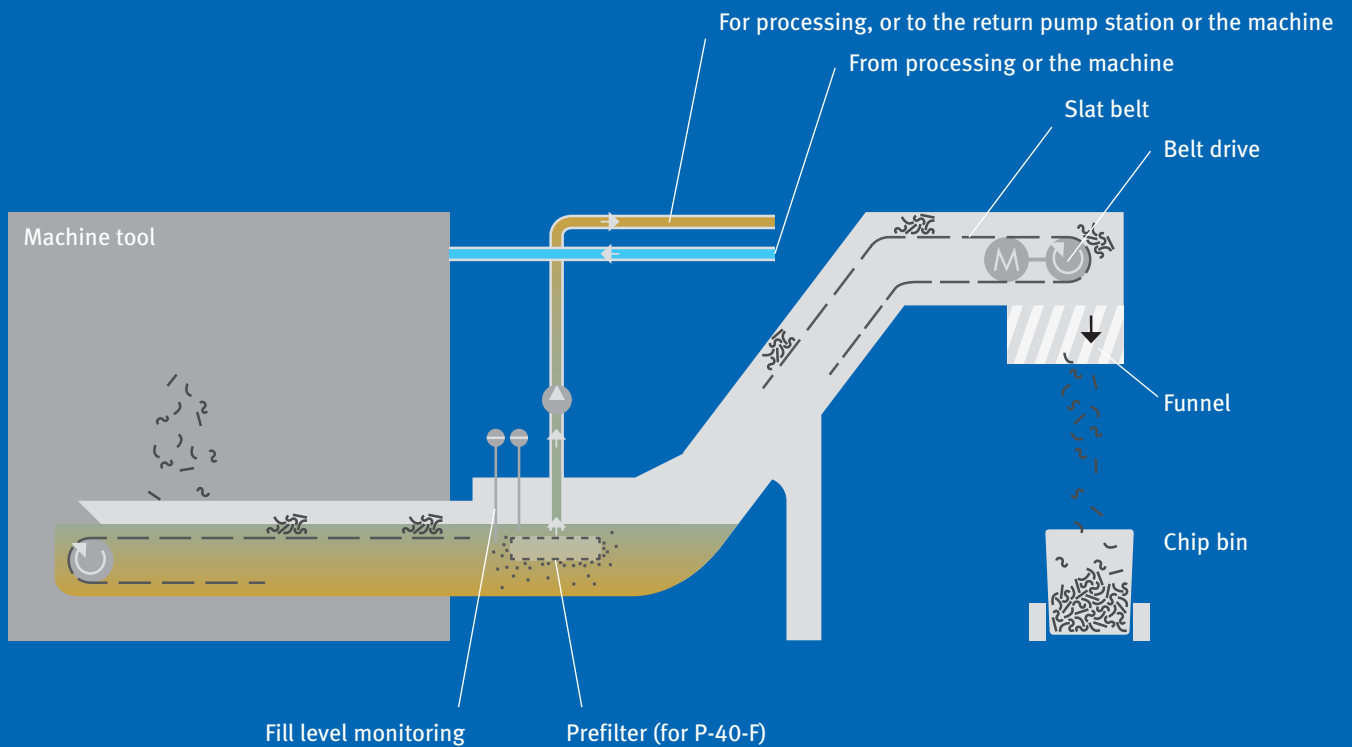
- Two strands of roller chain screwed over consoles with steel plates
- Forcibly guided chain circulation
- Clamping with easily adjustable bearing supports

Combination options

For other requirements, we can combine the conveyors as required with

- Filter systems for cleaning the cooling lubricant and supplying the machine tool
- Chip breakers for generating chips that can be pumped or extracted
- Return pump stations for transporting chips and cooling lubricant to the central system
- Extraction stations for transporting chips to the central system

Scheme



Equipment

Slat belt	●
Belt drive	●
Safety slip clutch	●
Belt travel monitor with limit switch	○
Belt stripper (mechanical) ¹	○
Lubricating device (for dry processing)	○
Stand	○
Side tank	○
Lifting pump(s)	○
Piping and fittings	○
Funnel	○
Chip bin	○
Control system	○
Prefilter ²	○
Belt cleaning (air separator) ³	○

● Basic equipment

○ Option

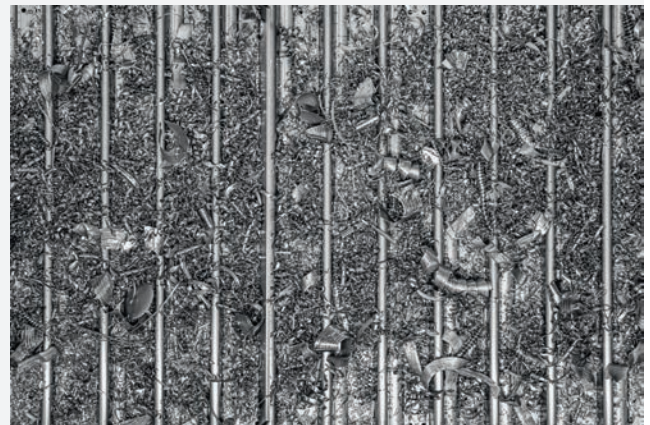
¹ for P-40

² for P-40-F

³ recommended for AI processing

Image of chips

P-40



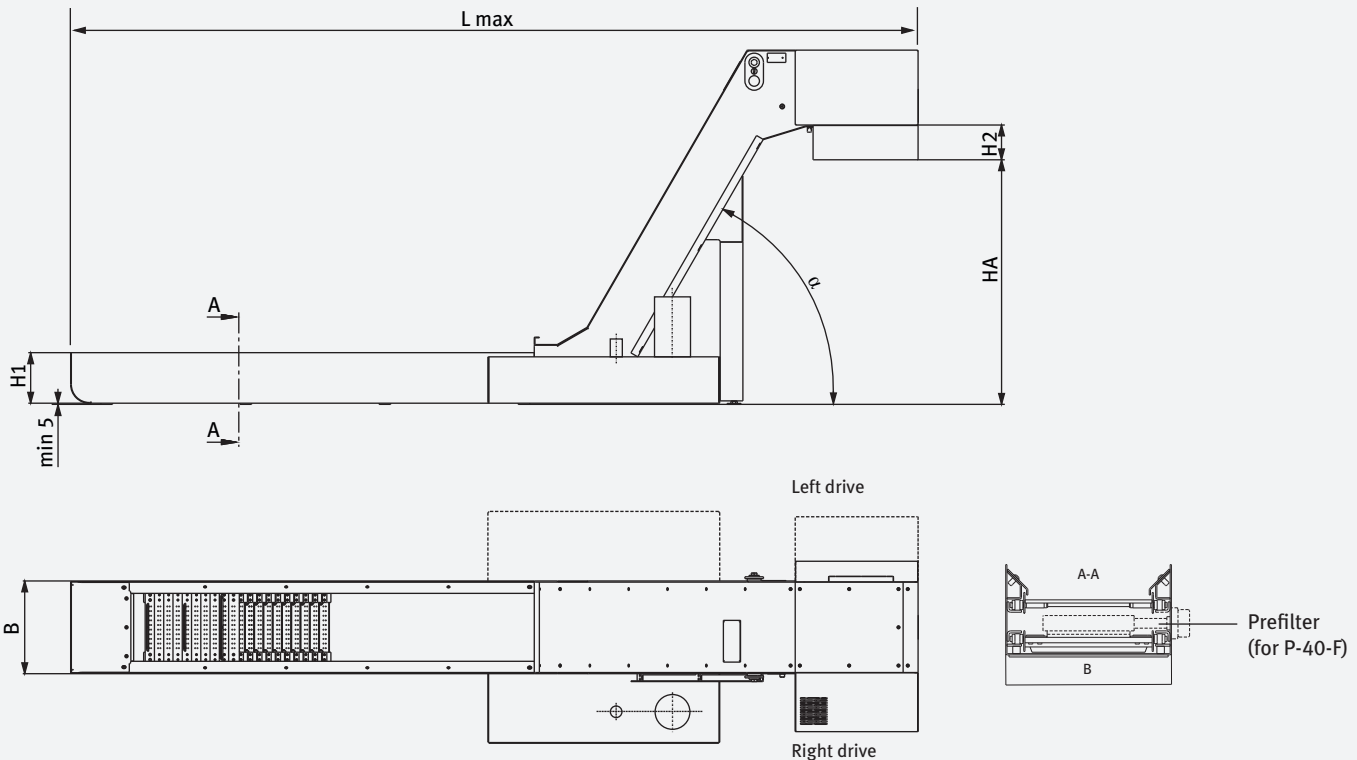
P-40-F



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P

Dimensions and technical data



Type	Chain pitch	B^3	H_1	H_2	α (°)	L_{max}^2
P-40	40	220-260-300-340-400-450-500-600-680-750-850-1040	216 ⁴ 167 ⁵	150 ¹	0-30-45-60	9 m
P-40-F	40	Min. 400	216 ⁴ 167 ⁵	150 ¹	0-30-45-60	9 m

Safety device according to DIN EN 618

Dimensions without units given in mm

Dimensions H_1 and H_A as requested

Driving power 0.25 kW

¹ Discharge funnel design according to DIN EN ISO 16090-1

² Approximate value

³ Other dimensions on request

⁴ Standard

⁵ Retracted