Chip separator CS



Issue 08-2019





Properties	Benefits			
Chip separation via cyclone separator	No consumablesMaintenance-freeLow operating costs			
Continuous operation	High separation rates up to > 98%Degassing effect on cooling lubricants			
Space-saving configuration on existing conveyor	Can be retrofitted at any time			
Independent control unit	No interference with existing control systems required			

Application

KNOLL chip separators CS are devices for separating short chips, which the conveyor of a hinged or slat conveyor cannot hold back.

- Use as pre-separator for reducing the chip carryover to a downstream cooling lubricant (CL) filter
- Use as independent cleaning unit for low purity specifications of the CL
- Suitable for chips from a density of 2.7 g/cm³ in water-based CL

Description

Main functions

Separation

- 1. The lift pump conveys the chip/CL mixture tangential to the chip separator
- 2. The centrifugal force conveys the chips outwards (primary vortex) before they go down into the chip bunker
- 3. A secondary vortex rises upwards and the CL leaves the CS for CL treatment

Draining

- 1. Cyclical opening of drain valve
- 2. Accumulated chips are flushed from the chip bunker onto the conveyor belt

Combination options

For further requirements, on request we combine the chip separator with

- Conveying systems for transporting the chips
- Filter systems for cleaning the cooling lubricants and supplying the machine tool



Equipment

Chip separator	•		
Console with fill and blow down piping			
Analog fill level sensor	•		
Control valve	•		
Lift pump	С		
Separator control cabinet	С		

Basic equipmentOption





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Dimensions and technical data

CS 270





CS 270-2





Chip separator CS



Pitch angle of standard conveyor systems



Туре	Number of chip separators	Cycle emulsion (max. l/min)	Operating pressure inlet	А	В	С	D
CS 270	1	270	1.4 bar	335	503	1043	470
CS 270-2	2	540	1.4 bar	625	1083	1235	595

Dimensions without units given in mm.

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