

Electric Drives  
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Service

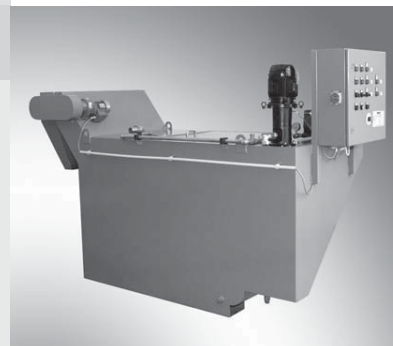
**Rexroth**  
Bosch Group

## Lamella drag-chain conveyor Type LKF

RE 50410/09.09

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### Technical information



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## Introduction

### The compact specialist for cast iron, steel and non-ferrous metals

Filter medium-free full-flow filtration of oils or emulsions containing swarf and metal particles with an output of 30 - 5000 l/min. The compound tank is divided up into clean and dirt tank.

Extraction is effected by sedimentation in the coarse and mixing section for the low-pressure feed. In this connection, the lamella assembly insert in the dirt tank shortens the sedimentation time.

Via the overflow, the purified fluid enters the clean tank. A circulating pump pumps the superfine sediment back into the dirt tank.

## Standard construction

- Robust edge-welded design
- Compound tank division into dirt, mixed and clean tank
- Clean tank with conical bottom
- Lamella assembly insert for supporting the sedimentation
- Removal slope under 55° with adapted discharge height
- Inclined bed drag-chain conveyor
- Inlet distributor
- Dry-running protection of the pumps

## Function

The fluid to be filtered flows into the dirt tank of the compound tank system via the inlet distributor and flows through the lamella assembly insert. Lamella assemblies that are arranged in the flow path of the filter medium and flown against from below shorten the sedimentation drop!

## Application

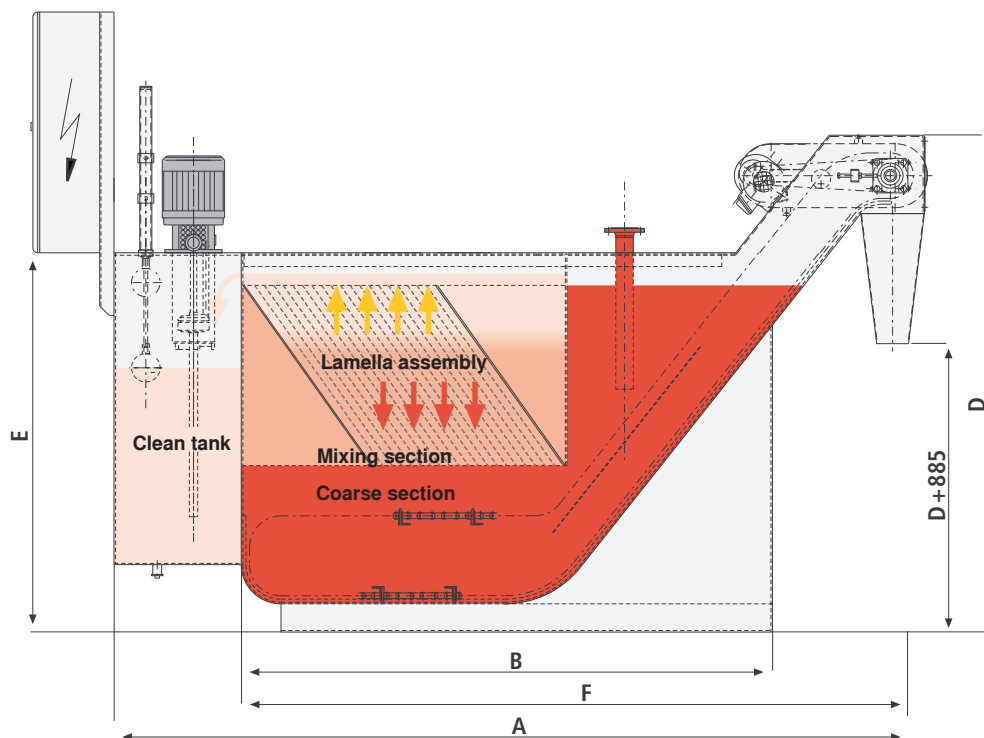
Filtration of emulsions, solutions, waters, oils up to 75 mm<sup>2</sup>/s during the machining of steel, cast iron and non-ferrous metals.

## Special features

- High operational reliability, few wear parts
- Good energy balance, low heat influx
- Dry dirt removal
- Overflow protection
- Extraction by sedimentation in the coarse and mixing section for the low-pressure feed
- Dirt removal over complete tank bottom
- Circulating pump against superfine deposits in the clean tank

The impurities contained in the fluid settle at the bottom of the dirt tank and are continuously removed by the integrated drag-chain conveyor. After passing through the lamellae, the purified fluid flows into the clean tank via the overflow. A circulating pump pumps the superfine sediment from the conical bottom part of the clean tank back into the dirt tank.

## Unit dimensions (dimensions in mm)



Type LKF	Filling volume in l	Total capacity in l/min	A	B	Width	D	E	F
450	800	100	2588	1415	532	1390	1015	2010
600	1500	50-200	2550	1555	1000	1585	1210	2150
800	7500	100-300	3050	2010	1000	2600	2000	2650
1000	12000	up to 1000	5000	4010	1500	2600	2000	4650

## Notes

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