Magnetic filter systems with band filters
Series FA- PBMA

Use
These systems are used for the fully automatic continuous cleaning of cutting fluids with high requirements on the purity level and when machining ferrous, magnetic materials with large quantities of chippings.

Construction and operation
The systems are made up of a welded coolant tank with a magnetic band filter and a feed pump. A dirty water tank is integrated in the coolant tank from which a raising pump transports the cutting fluid returning from the machine back to the magnetic band filter. A separate sludge box is provided to hold the used filter fleece and the impurities removed by the magnetic separator.

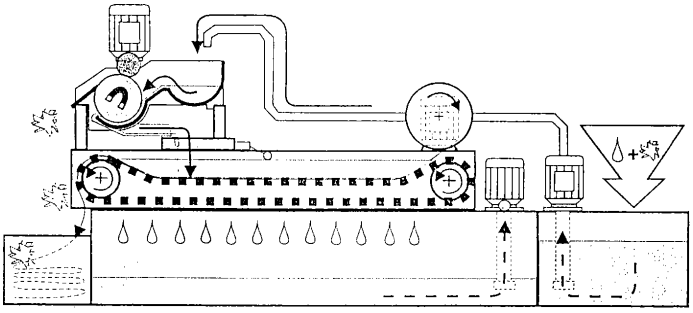
Materials and application conditions

Materials

Tank:	Sheet steel
Band filter:	Steel and aluminium cast
Magnetic separator:	Aluminium cast

Surface finish

Tank:	primed
Band filter:	with corrosion protection



Scope of delivery
Coolant tank, band filter, magnetic separator, feed pump, raising station, sludge box
1 roll of filter fleece (200 m in length)

Accessories:
- Electrical terminal box instead of the electrical control box
- Electrical box to control the fleece transport
- Fluid level switch
- Belt skimmer
- Other feed pumps
- Filter fleece consumption switch
- Cooling unit
- Chip conveyors

Example order
Filter system for a circulation quantity of 120 l/min with magnetic band filter PBMA 126, coolant tank capacity 380 l,
feed pump: 125 l/min at 0,6 bar
Filter system FA-PBMA 126

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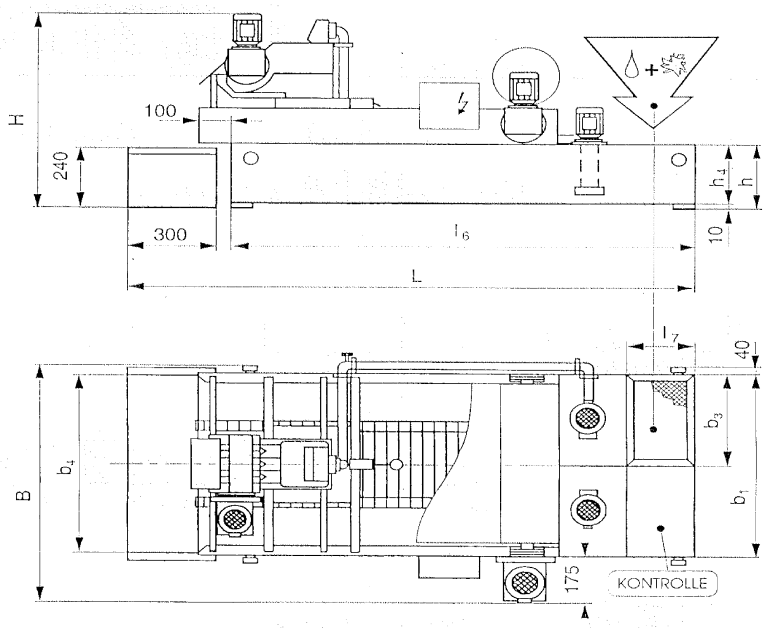

Performance data						
FA-PBMA			40	60	120	250
Filter material	Average outfeed fineness µm	Capacity l / min dependent on the filter fleece density for a viscosity of up to 6 mm²/s				
HSPP 035	60-80		60	80	160	320
HSPP 050	30-40		40	60	120	250
Dimensions						
Main dimensions	Length	L	1820	1920	2320	3020
	Width	B	715	935	1185	1615
	Height	H	865	865	865	925
Infeed height		H	250	250	250	310
Fluid infeed		l7	300	250	250	350
		b3	250	360	300	350
Tank		l6	1500	1600	2000	2700
		b1	500	720	970	1400
		h4	240	240	240	300
Normal capacity in litres		Dirty water	30	35	35	80
		Clean water	130	200	380	850
Sludge box		b4	500	700	950	1400
Feed pump (or to meet client-specific requirements)		Delivery rate l/min	40	60	125	250
		Delivery head m	3	3	6	4
To order the dimensions and position of the individual components can also be changed. If the machine outfeed height is sufficient the lifting station may not be required. The fluid is then fed direct into the magnetic separator. Details of the magnetic band filters are given in a separate information sheet.						

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