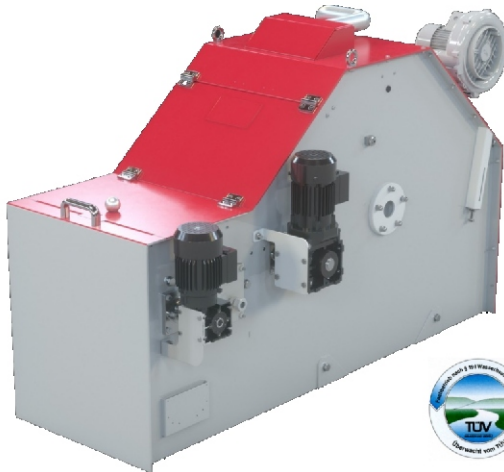




Round bed filter RBE 162 - 1102 with endless filter cloth



Bär + Co. supplies compact round bed filters with endless cloth filters for filtration performance from 200 - 1100 l/min. Units for larger throughput volumes available upon request.

Use

Cleaning contaminated liquids.
The filtration performance listed on our measurement sheet are based on liquids with a viscosity of up to 4 mm²/s. Fluids with higher viscosity must be covered from time to time with regards to filter area and filter cloth quality.

Main fields of application

Filtration of coolant emulsions in individual machine tools or entire production areas in the metal industry.
Other areas of application include cleaning of liquids in industrial washing plants and dedusting technology.

Equipment options

Magnetic separator (retrofitable) for pre-separation of ferritic impurities in instances of high contamination.

Retrofitable filter fabric allows temporary operation using filter fabric during the rest period or when processing special materials.

For stand-alone operation, the round bed filter is fitted with a rinsing pump (10) for backwashed liquid as well as for recirculation using a quick-suctioning immersion pump (11).
Chip-drying-mechanism causes chip respectively sludge extraction with minimal residual moisture..

Design features

A honeycomb belt forms a semi-circle of 2 circular pressure discs and uses this to form an arch-shaped filter bed.
The endless filter cloth is clamped tight between the pressure discs and honeycomb belt.

Benefits

- Reliable filtration with high cleaning efficiency
- No filter fabric consumption
- Low operational and ancillary costs
- Safe chip removal with strips

Description of function

The contaminated liquid reaches the endless filter cloth (2) via the soft-closing device (1). This contains the contaminated particles whilst the cleaned fluid flows into the coolant tank.

With increased contamination of the filter cloth (2) the liquid level in the filter housing (3) climbs.

When the maximum possible filling level has been reached, the gear motor (4) for the cloth transport automatically starts. The honeycomb belt (5) assists the endless filter cloth with discharge, whereby contamination adhered to the surface is released via a rotating brush (7).

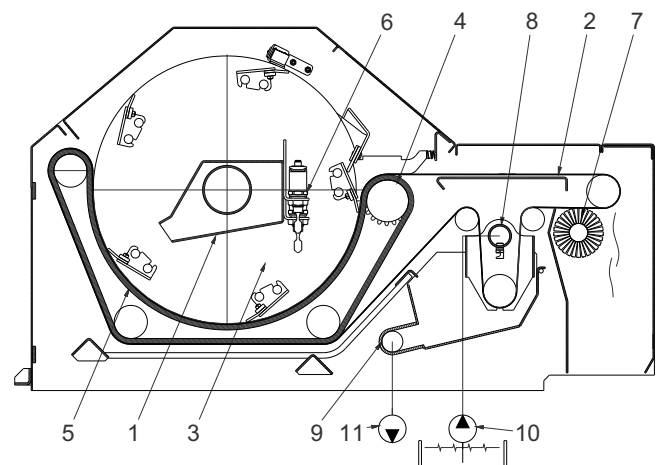
At the same time clean endless filter cloth (2) is fed into the filtration zone. As a result the flow resistance of the endless filter cloth (2) is reduced, the level of the liquid drops and the fill level probe (6) ends the feed cycle.

With the feed cycle the filter cloth backwash is activated. The cleaned fluid is pressed through the filter cloth (2) from the clean to contaminated side via a regeneration unit (8).

The dirt particles adhering to the filter cloth pores are blasted off and, together with the cleaning medium, are drained into the waste water area of the device (9).

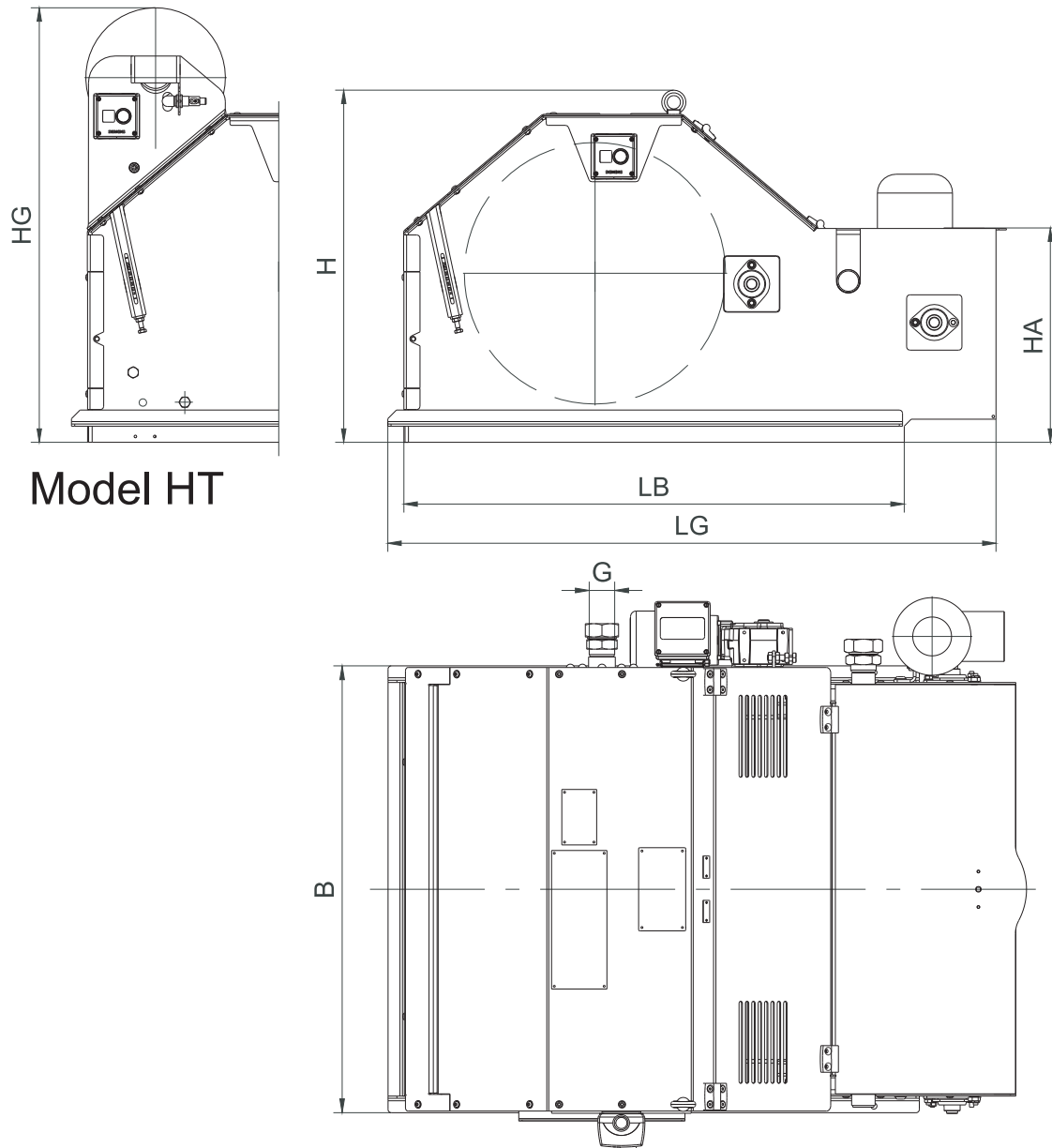
Complete units including tanks, pumps, valves and controls etc. are supplied and produced for the purpose required.

- | | | |
|-------------------------|----------------------|---------------------------|
| 01 Soft-closing device | 05 Honeycomb belt | 09 Flushing medium outlet |
| 02 Endless filter cloth | 06 Fill-level probe | 10 Flushing pump |
| 03 Filter housing | 07 Rotating brush | 11 Recirculation pump |
| 04 Belt drive | 08 Regeneration unit | |



RBE 2019 06

Round bed filter RBE (HT)



Model HT

Type	Filterperformance (l/min)		Filter - dimensions (mm)						
	*Emulsion	**Oil	B	H	HA	HG	LB	LG	G
RBE 162	160	90	600	622	430	785	932	1163	DN 40
RBE 252	250	140	506	950	680	1000	1301	1571	DN 40
RBE 282	280	155	806	622	430	785	932	1163	DN 40
RBE 452	450	245	821	950	680	1000	1301	1571	DN 65
RBE 652	650	355	1121	950	680	1000	1301	1571	DN 80
RBE 902	900	495	1421	950	680	1000	1301	1571	DN 80
RBE 1102	1100	600	1621	950	680	1000	1301	1571	DN 100

*Viscosity $\leq 4\text{mm}^2/\text{s}$; for steel, aluminium an non-ferrous metal precessing;
 **Viscosity $\leq 20\text{mm}^2/\text{s}$; for operating temperature; Configuration either as displayed or inverted