

## Magnetic separator MA

### Use

Magnetic separators are used for the fully automatic continuous cleaning of cutting fluids with normal requirements on the purity level and when machining ferrous, magnetic material.

### Construction and operation

The filter consists of a specially designed aluminium cast casting (1), in which a magnetic roller (3), driven by a geared motor (2) turns continuously. The filter is supplemented by a rubber pressure roller (4) mounted in rockers and a wiper plate (5).

The medium to be filtered is fed into the infeed container (6) and flows over the overflow edge (7) in gullies towards the magnetic roller.

Since the gully outfeed is directly opposite to the magnetic poles, the fluid flows into the areas of maximum force line concentration. As it does so the vast majority of ferrous magnetic and other impurities are attracted.

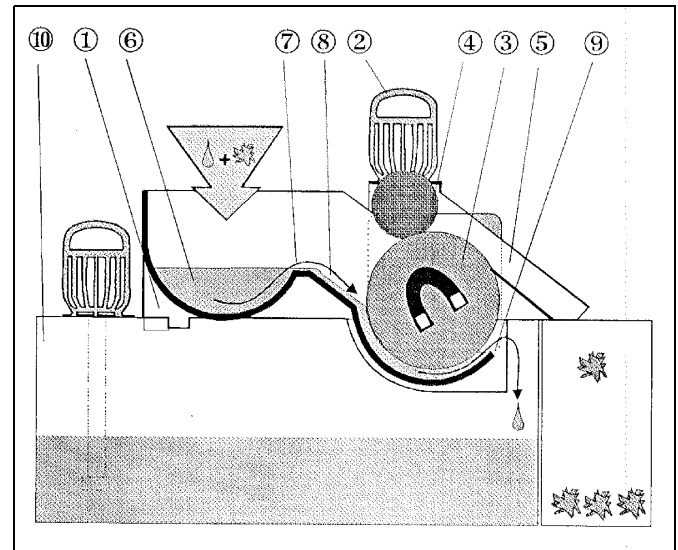
The fluid is then refiltered within the through-shaped bottom section (9).

As a result of the continuous turning of the magnetic roller the attracted impurities are taken to the outfeed point on the wiper plate (5) after being crushed dry by the rubber pressure roller.

### Materials and application conditions

Casing: Aluminium cast  
 Magnet body: Oxide ceramics  
 Pressure roller: Rubber, oil-resistant

The filters are best suspended direct in the cutting fluid tank (10) as shown in the sketch and the removed impurities collected in a sludge box.



(the sludge box is not supplied as standard)

### Cleaning and maintenance

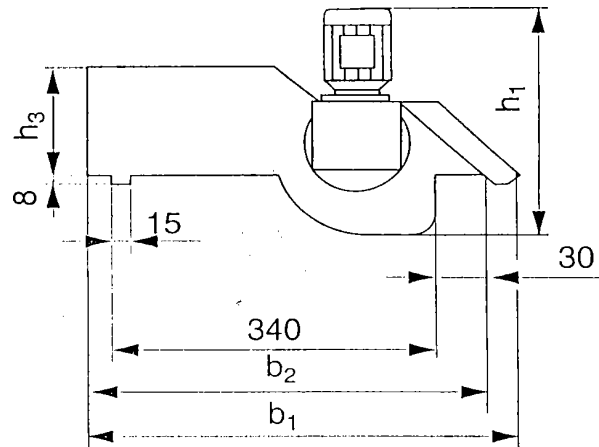
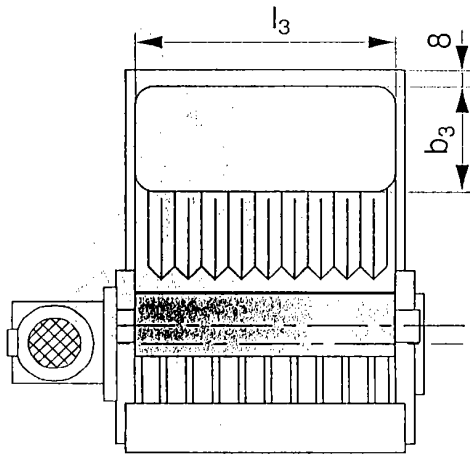
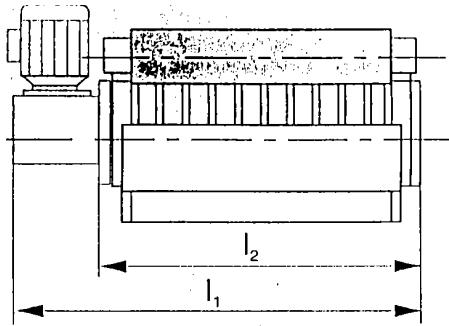
When cleaning the unit, the relevant accident prevention regulations and the environmental directives must be observed. If the unit is to be at a standstill for any length of time we recommend that the magnetic roller and the casting are cleaned first.

### Example order

Magnetic separator for a capacity of 100 l/min with a viscosity of up to 6 mm<sup>2</sup> /s:

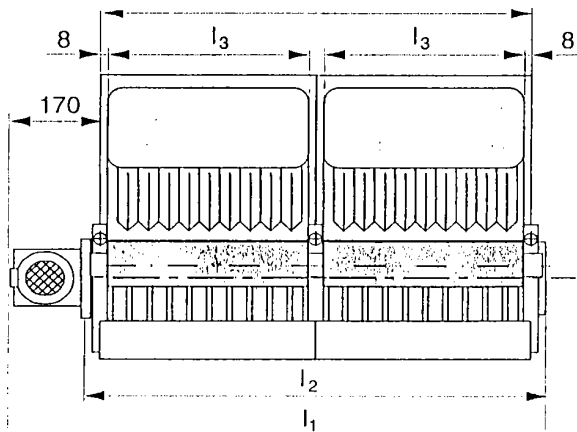
#### Magnetic separator MA 100

To order the MA series can be supplemented with a coolant tank, pumps, sludge box, electrical system, etc. and can also be supplied as complete filter systems (see information sheet entitled "Filter system with magnetic separator").



Typ MA	Durchflußleistung l/min bei Viskosität von		Masse	b1	b2	b3	h1	h3	l1	l2	l3
	1 mm <sup>2</sup> /s	30 mm <sup>2</sup> /s									
60	60	30	30	470	400	130	340	120	410	240	180
100	100	50	40	470	400	130	340	120	550	380	320
200	200	100	80	535	465	190	340	148	695	525	460
300	300	150	110	535	465	190	340	148	885	760	690
400	400	200	160	535	465	190	340	148	1190	1020	460

Anschluss Getriebemotor 230 /400 V AC 50 Hz nach DIN IEC 38 970



Typ MA 400