

## Permanent Magnetic Coolant Filtering System

Type 235.180

Type 235.400

Type 235.620

Type 235.850

Type 235.1070

Type 235.1300

Type 236.180

Type 236.400

Type 236.620

Type 236.850

Type 236.1070

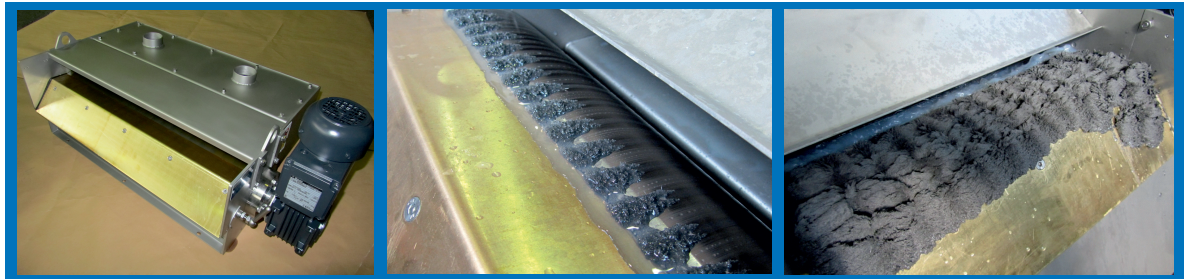
Type 236.1300

• Application:

The Permanent Magnetic Coolant Filtering System Type 235 and 236 are used in order to automatically clean contaminated coolants (emulsion, cutting oil) which arise at machines. Because of their construction with a magnetic drum in standard version (fine pole) or finest pole pitch version, they are particularly suitable for filtering emulsion, aqueous solutions, cutting- and grinding oil.

The continuous cleaning of coolants brings about the following advantages:

- improvement of the surface and the dimensional accuracy of the workplace
- longer service life of the tools and grinding wheels
- waste production
- renewal of coolants is becoming less common
- avoidance of skin related health problems
- lines do not block up
- wear of pumps is reduced to a minimum



• Design:

The Permanent Magnetic Coolant Filtering System Type 235 and 235 consists of:

- stainless steel housing
- high efficient magnetic drum in standard version (fine pole) / fines pole pitch version
- external continuously adjustable guiding plate closing to the back, for adjustment of flow volume and separation gap
- brass striping sheet, short ascending, then angled at 45°
- gear motor with multi range
- hinged cover plate above the magnet drum and the discharge area as splash protection

The Type 236 has a geared motor which is fitted above. The drive transmission is carried out by means of a chain drive. This design is used if the Type 235 can not be installed due to shortage of space.

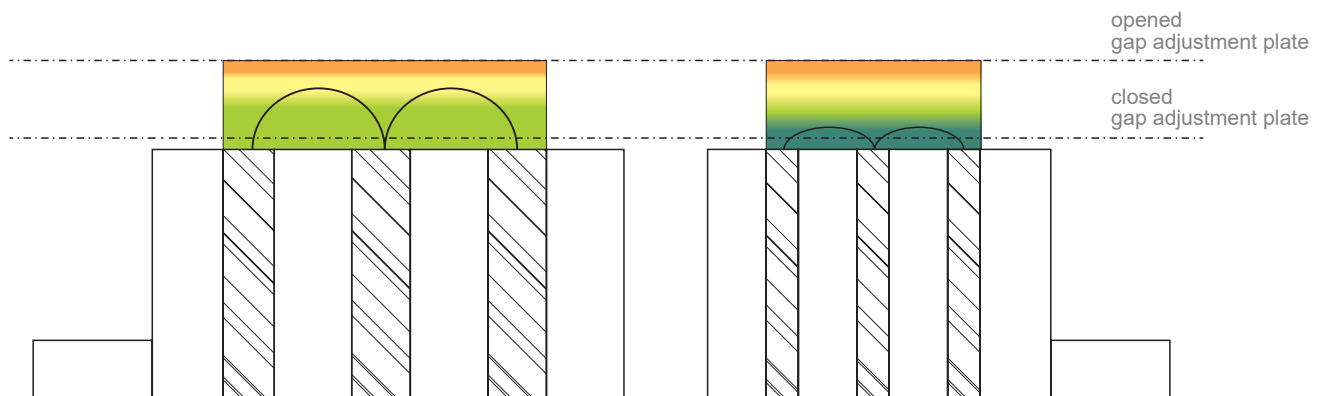
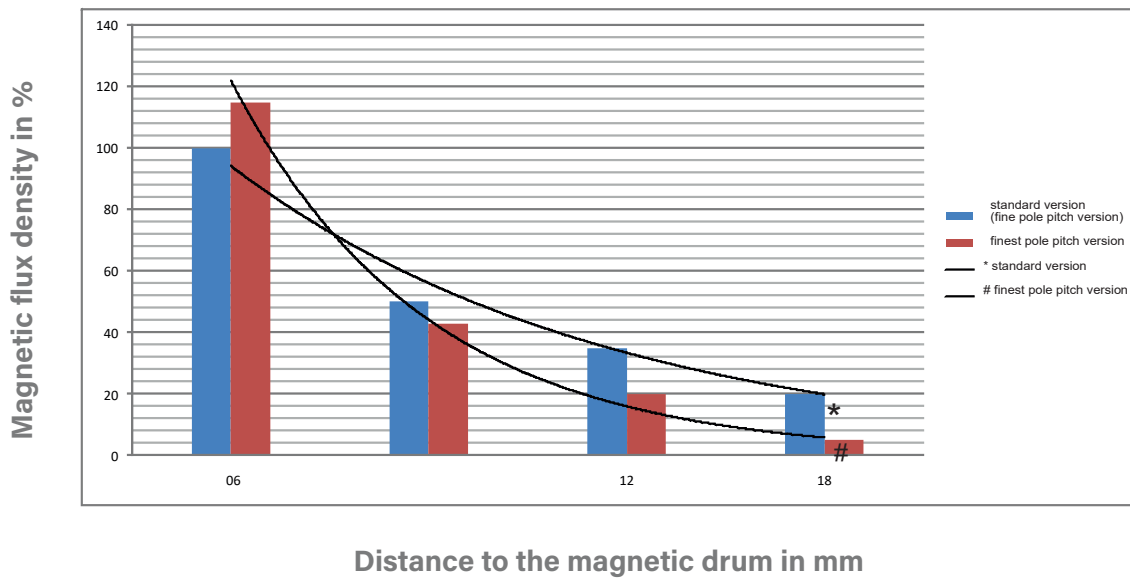
• Function:

The contaminated coolant flows over the cover plate with 2" inlet socket(s) into the Coolant Filtering System. The coolant flows in streamline (laminar) via a wide channel into the infeed box. In this way a high filter efficiency can be reached. The coolant passes the magnetic drum in a radial direction. The FE-particles and a large part of the contamination is collected by the rotary magnetic drum and discharged from the liquid. The contamination is taken off by means of the adjustable guiding plate.

Our compact, space-saving Coolant Filtering Systems guarantee a extremely long service life and they are, to a large extent maintenance-free.

In addition to our standard machines, we also supply special devices e.g. and equipment.

### Comparison of magnetic drums: Standard version to the new finest pole pitch version



standard version  
(fine pole)

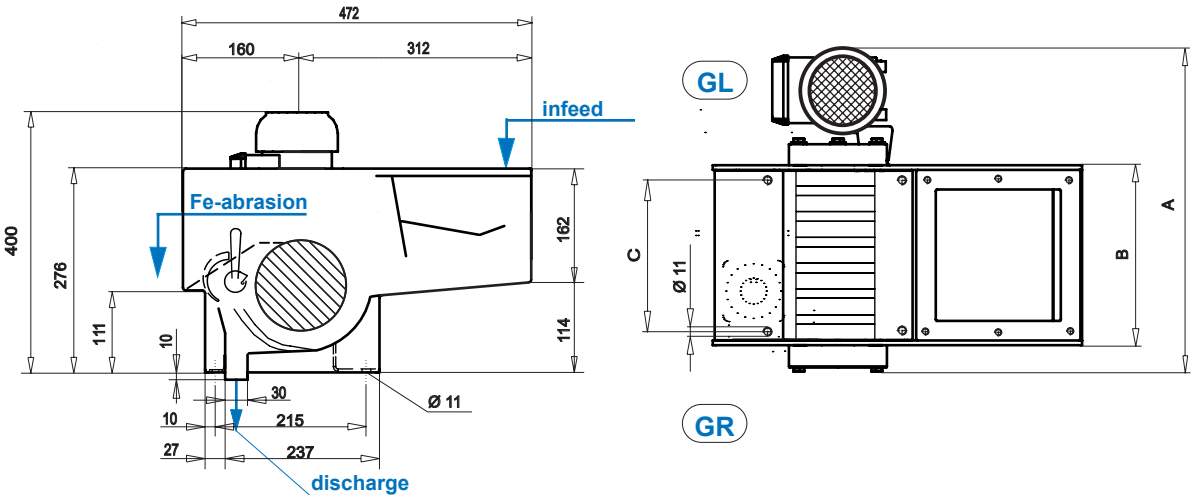
Advantages of the standard version:

Through the wide emitting magnetic-field, high quantities of FE-particles can be filtered through the completely opened gap adjustment plate.

finest pole pitch version

Advantages of the finest pole pitch version:

Through a reinforced magnetic flux density in the close range of the magnetic drum, the superfine particles will be optimal filtered.

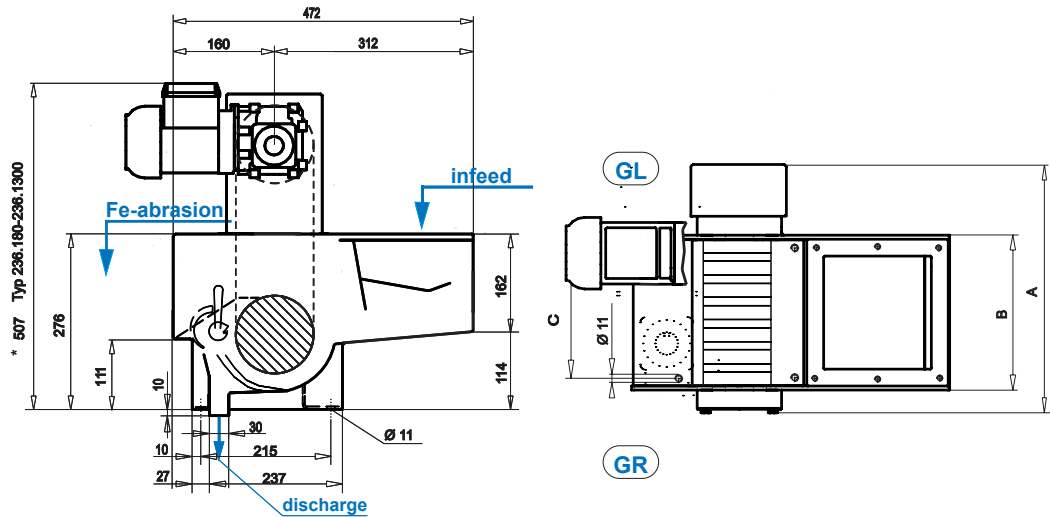


measure table [mm] performance table	Type	rate of flow *1 (l/min)				A [mm]	B [mm]	C [mm]	drive data		weight [kg]
		opened gap adjustment		closed gap adjustment							
		emulsion	oil	emulsion	oil				kW	A [400V]	
	235.180	180	110	80	55	410	230	150	0,09	0,45	75
	235.400	400	240	180	120	640	461	2 x 150	0,09	0,45	105
235.620	620	375	280	190	925	725	2 x 280	0,12	0,7	140	
235.850	850	510	380	255	1155	956	3 x 280	0,12	0,7	185	
235.1070	1070	640	480	320	1420	1220	4 x 280	0,12	0,7	210	
235.1300	1300	780	580	390	1650	1451	4 x 320	0,12	0,7	240	

- \*1 - the max. flow rate with emulsion approx. 110% with oil approx. 70% of the par value  
- contamination approx. 2,5 g/l, grit size approx. 100 µm (deviant dimensions cause a lower capacity)  
\*2 - 5% emulsion - 4mm<sup>2</sup> / s / 20°C  
\*3 - oil - 20mm<sup>2</sup> / s / 20°C

Type code:

235.		5							
180									
400									
620									
850									
1070									
1300									
drive:	- gear motor	5							
magnetic drum pole pitch:	- standard version (fine pole)	1							
	- finest pole pitch version	2							
gear motor:	- gear motor: make Bauer	1							
	- SEW + plug Han 10 ASD 1	2							
drive arrangement:	- GR	1							
	- GL	2							
cover plate with connection	- without	0							
socket R 2 - 2 1/2"	- including	1							
	- special design	2							
stripping system:	- without	0							
	- including	1							
national standard:	- standard	1							
	- NEMA / UL	2							
	- CCC	3							
	- CSA	4							
	- special (please specify)	5							
operating voltage:	- multi current 200-280 / 380-480 V 50 / 60 Hz	1							
	- special voltage (please specify)	2							



\* The measurements of the gear motor change, depending on the manufacturer of the gear motor  
measurements on request

measure table [mm] performance table	Type	rate of flow *1 (l/min)				A [mm]	B [mm]	C [mm]	drive data		weight [kg]
		opened gap adjustment		closed gap adjustment							
		emulsion	oil	emulsion	oil				kW	A [400V]	
	236.180	180	110	80	55	375	230	150	0,09	0,45	85
	236.400	400	240	180	120	605	461	2 x 150	0,09	0,45	95
	236.620	620	375	280	190	870	725	2 x 280	0,12	0,7	150
236.850	850	510	380	255	1100	956	3 x 280	0,12	0,7	200	
236.1070	1070	640	480	320	1365	1220	4 x 280	0,12	0,7	230	
236.1300	1300	780	580	390	1595	1451	4 x 320	0,12	0,7	265	

- \*1 - the max. flow rate with emulsion approx. 110% with oil approx. 70% of the par value  
- contamination approx. 2,5 g/l, grit size approx. 100 µm (deviant dimensions cause a lower capacity)  
\*2 - 5% emulsion - 4mm<sup>2</sup> / s / 20°C  
\*3 - oil - 20mm<sup>2</sup> / s / 20°C

Type code:

236.   6

180  
400  
620  
850  
1070  
1300

drive: - gear motor with chain drive 6

magnetic drum pole pitch: - standard version (fine pole) 1  
- finest pole pitch version 2

gear motor: - gear motor: make Bauer 1  
- SEW + plug Han 10 ASD 1 2

drive arrangement: - GR 1  
- GL 2

cover plate with connection - without 0  
socket R 2 - 2 1/2" - including 1  
- special design 2

stripping system : - without 0  
- including 1

national standard: - standard 1  
- NEMA / UL 2  
- CCC 3  
- CSA 4  
- special (please specify) 5

operating voltage : - multi current 200-280 / 380-480 V 50 / 60 Hz 1  
- special voltage (please specify) 2