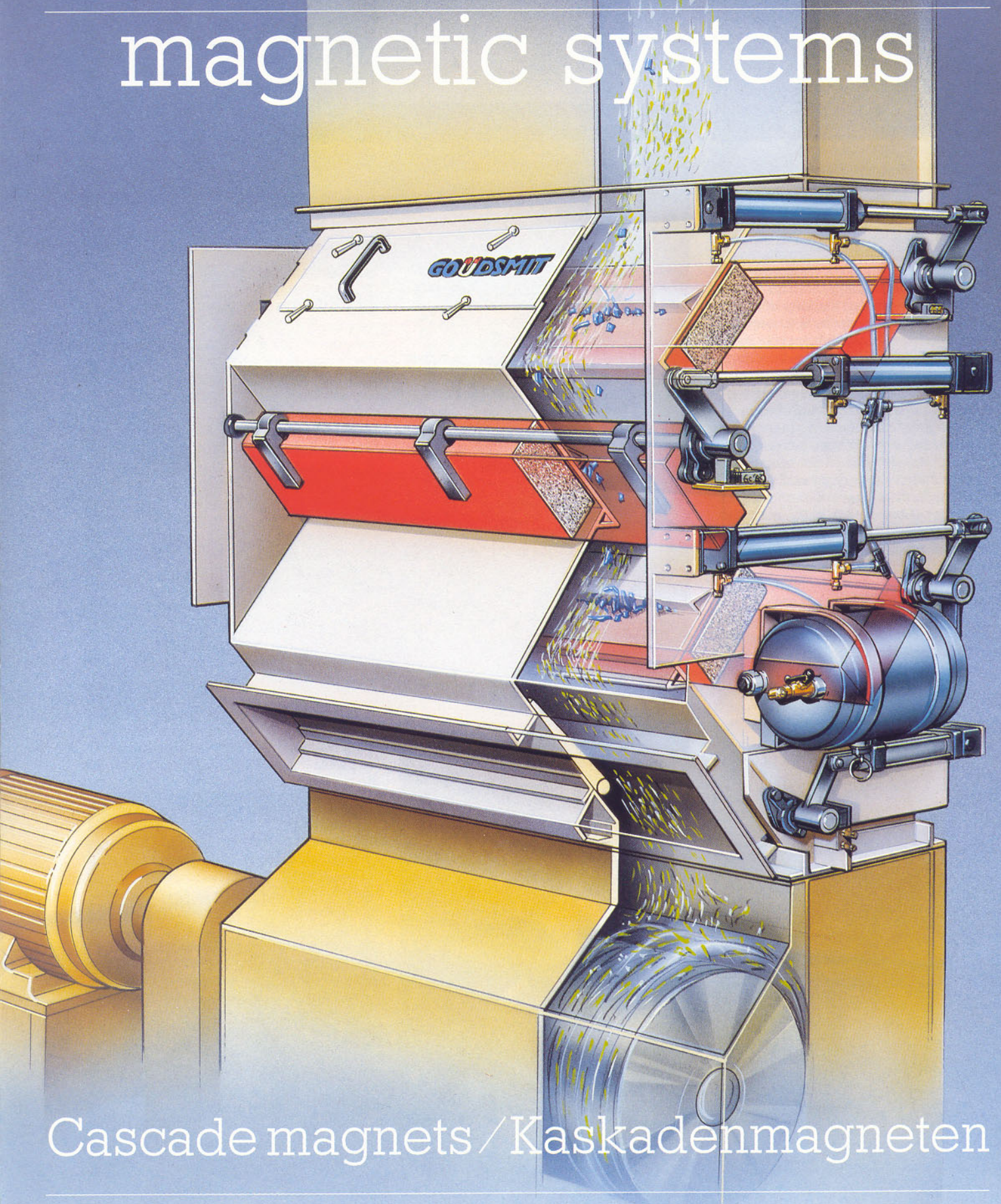


GOUDSMIT

magnetic systems



Cascade magnets / Kaskadenmagneten

Goudsmit also supplies:

PERMANENT AND ELECTRO PIPE

MAGNETS: suitable for use in horizontal and vertical pipes but also for pneumatic conveyor systems. Deliverable in 10 standard dimensions or according to customer specification.



Advantages

Besides its safety features and its flexibility the selfcleaning cascade magnet gives you many advantages:

- Optimum extraction - the three strong permanent magnets extract to 150 mm
- No electricity used (permanent magnets)
- Rugged, dust-tight, stainless steel casing
- Unlimited guarantee against loss of magnetization
- High product capacity - the casing design and the magnet location allow a large free passage for the product stream
- Compact design - the integrated 2-way box saves 450-550 mm in height
- Low cost

Besides cascade magnets, Goudsmit Magnetic Systems also produces a wide range of other systems for removing iron. A number of these systems are shown on this page. Phone or write for documentation, a quotation or technical advice.



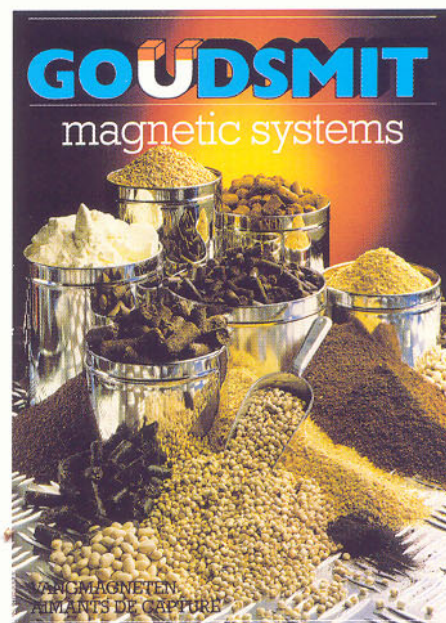
Goudsmit's selfcleaning cascade magnet installed in the Cehave animal feed factory in Oss.



Goudsmit also supplies: ➡

PLATE MAGNETS: these can be simply installed in existing installations. Deliverable with various mounting systems.

◀ A control unit (with electrical control valves for remote operation as an optional extra) is also supplied.



Goudsmit also supplies:

CLEAN FLOW MAGNETS: they contain two magnetic drawers (grids) enabling to extract even the tiniest iron particles. Also available in a hygienic version specially designed for the foodstuffs industry.

Compact selfcleaning cascade magnet

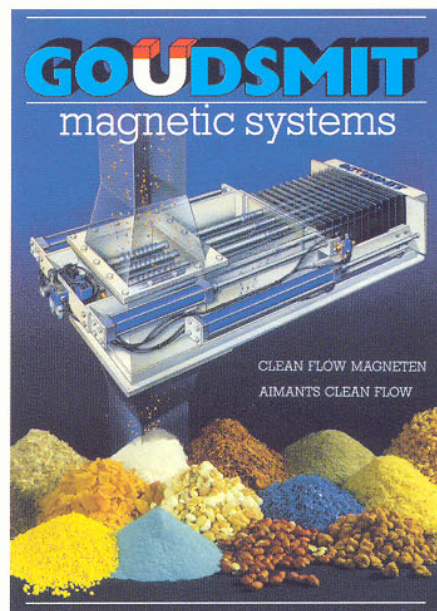
Goudsmit has more than 40 years experience in the development and manufacture of magnetic systems and is the specialist in this specialised area. The application of magnetic systems has grown enormously in recent years. Specially designed magnetic systems are used in all sorts of sophisticated techniques. Many industrial processes would be unthinkable without the help of magnetic systems. An example is the extraction of iron contamination from raw materials, semi-finished and finished products. Your machines - growing as always in capacity and complexity - need increasing attention and protection. Conventional magnets cannot always meet the requirements. For such situations Goudsmit has developed the selfcleaning cascade magnet, a very powerful magnetic system that gives optimum removal of ferrous contamination. In this way dust explosions are prevented and your expensive machines protected from damage. In addition, the automatic 2-way box is integrated into the system, so that the compact version saves some 450-550 mm in height. Another important advantage is that older cascade magnets can be replaced by fully automatic pneumatic cascade magnets.

Safety and flexibility

The Goudsmit compact pneumatic cascade magnet has been specially designed to extract ferrous contamination from large quantities of granular or powdered materials. Dust explosions and damage to machines are thereby prevented. The system is attractive in the sense that optimum extraction and safety are combined with flexibility. The system has various options which make it easy to fit the system into your production line without problems.

Operation of the cascade magnet

The cascade magnet is provided with three very strong specially designed magnets and four pneumatic cylinders, one for each magnet and one for the automatic 2-way box. When the cascade magnet system is set in operation the magnets are pressed against the wall by cylinders. The 2-way box is open, allowing the product stream to pass through, while the magnets extract the iron particles and hold them.



Double safety

At a given moment the automatic selfcleaning operation is started. This operation takes only 15 seconds. The flap in the box is lowered and the discharge channel for the iron particles is opened. A contact switch is triggered which activates a pneumatic valve. This causes the cylinders to push the magnets outside: the iron particles are made free and fall through the discharge channel. This built-in protection prevents the iron particles from entering the product stream. The process itself can now be restarted. The button on the control box is pressed to re-energize the magnets. After this the 2-way box returns to its previous position so that the product channel is re-opened. Again: built-in safety.

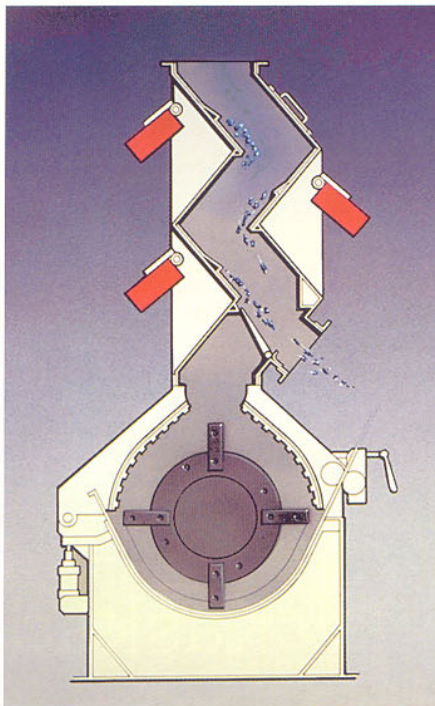
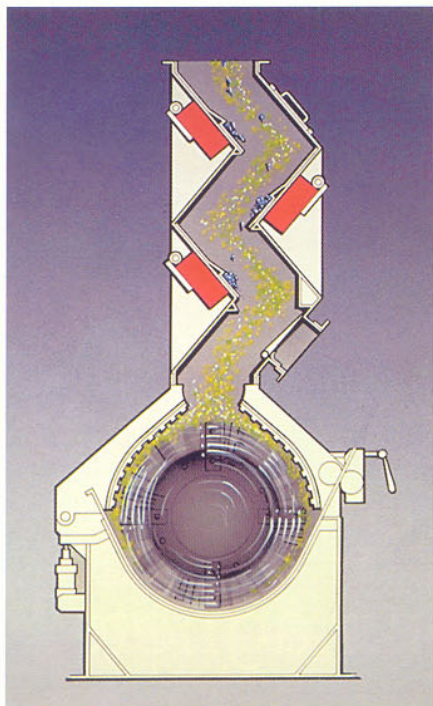
Extra safety

The system has yet another safety feature to meet the situation that could arise if the pressure in the pneumatic circuit should fall off. The system then switches over to another pneumatic circuit connected to a reserve pressure vessel. In this way the magnets remain in position and energized so that the iron particles continue to be trapped.

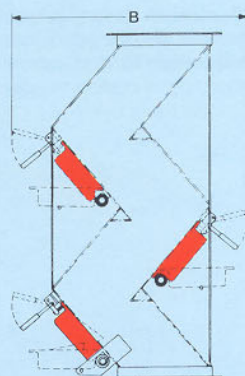
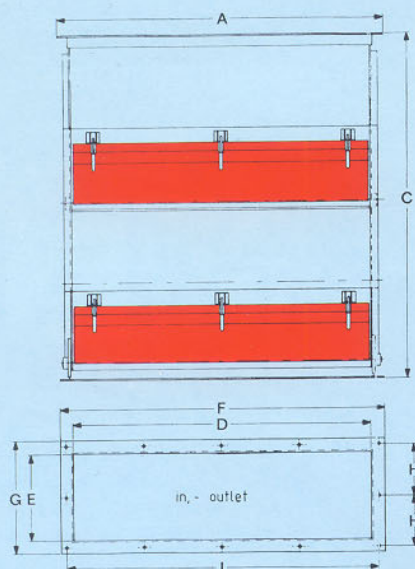
Flexibility

The whole operation of iron extraction and self-cleaning takes place automatically. It is however possible to operate the system wholly or partly by hand. Various options are open and we will be happy to advise you on this.

The compact pneumatic cascade magnet is available in six standard versions. However, this does not exhaust the possibilities. At your request Goudsmit can construct systems of any size (one two or three trap), to your specification.



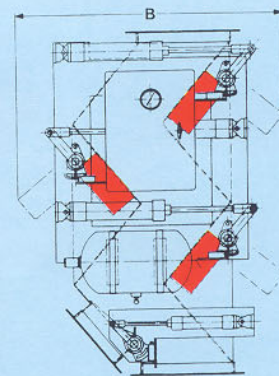
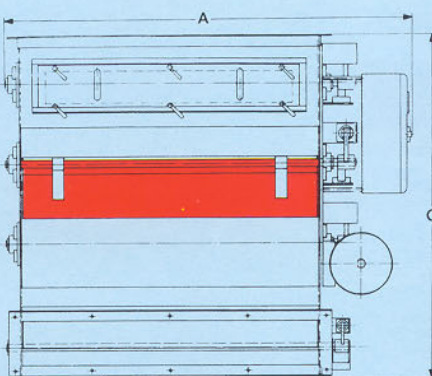
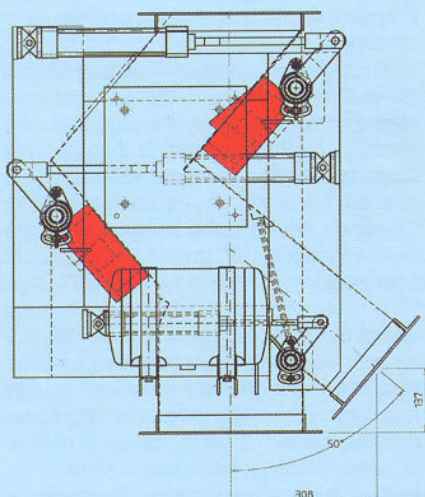
Side view of the cascade magnet; the left-hand picture shows the magnet in operation; in the right-hand picture the magnet releases the recovered steel particles.



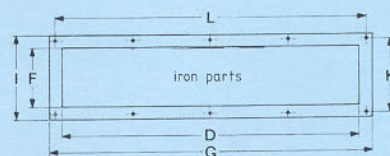
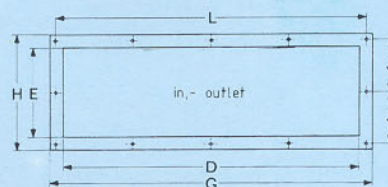
Manually operated permanent cascade magnets

Type	A	B	C			D	E	F	G	H	I		kg	Cap. T/Hr powder	Cap. T/Hr gran.
			1	2	3										
SE.KM.0400	465	660	490	700	885	400	200	465	265	120	4*110	ø10	75	10-30	15-40
SE.KM.0600	665	660	490	700	885	600	200	665	265	120	5*128	ø10	100	30-50	45-70
SE.KM.0800	865	660	490	700	885	800	200	865	265	120	6*140	ø10	125	70-80	90-100
SE.KM.1000	1085	780	640	900	1165	1000	300	1085	385	175	4*264	ø10	150	100	140
SE.KM.1250	1335	780	640	900	1165	1250	300	1335	385	175	5*261	ø10	185	125	175
SE.KM.1500	1585	780	640	900	1165	1500	300	1585	385	175	6*259	ø10	220	150	225

Selfcleaning permanent cascade magnets



3-step execution



2-step execution

Pneumatic control is incorporated in a closed unit and is operated electrically. Connection can be supplied upon wish for: 24 - 48 - 110 - 220 Volt AC or DC.

Type	A	B	C			D	E	F	G	H	I	J	K	L		kg	Cap.T/ Hr powder	Cap.T/ Hr gran.
			1	2	3													
SE.KP.0400	780	750	490	700	885	400	200	150	465	265	215	120	190	4*110	ø10	240	10-30	15-40
SE.KP.0600	980	750	490	700	885	600	200	150	665	265	215	120	190	5*128	ø10	280	35-50	45-70
SE.KP.0800	1180	750	490	700	885	800	200	150	865	265	215	120	190	6*140	ø10	320	70-80	90-100
SE.KP.1000	1390	880	640	900	1165	1000	300	200	1085	385	285	175	250	4*264	ø10	375	100	140
SE.KP.1250	1630	880	640	900	1165	1250	300	200	1335	385	285	175	250	5*261	ø10	445	125	175
SE.KP.1500	1880	880	640	900	1165	1500	300	200	1585	385	285	175	250	6*259	ø10	515	150	225

measure "C" for 1, 2 or 3 magnets

GOUDSMIT
magnetic systems

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