RS Magnete GmbH Quellenweg 4 87700 Memmingen

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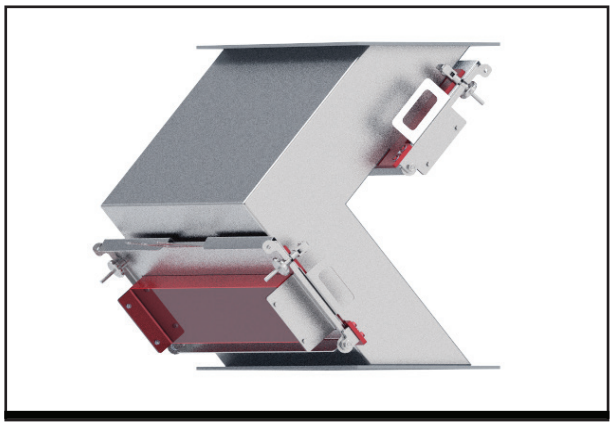
Applications:

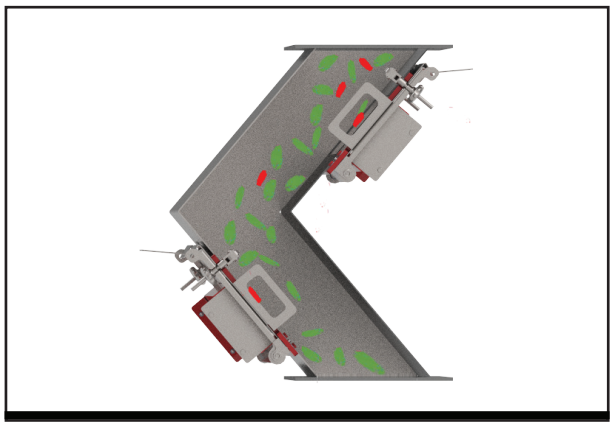
Cascade magnets are the best solution for drop chutes where magnetizable pieces are removed from coarse-grained or lumpy products. These systems are often used in the animal feed industry, building materials sector and the wood-working industry.

Description of functions:

Two protective magnets (installed on opposite sides) with a large magnetic monitoring depth control the conveying cross section of the tube system to find disturbing metal parts. In order to seize as many magnetizable parts as possible the material flow is directed towards the magnetically active faces by a distribution system. Seized metal parts can easily be removed by the hinged Easy Clean Unit.

Cascade Magnet KSS-L





Product requirements:

IImportant for bulk goods: the material to be monitored must be dry and flowable. The maximum grain size should not exceed 100 mm.

Housing:

Material: stainless steel AISI 304
Surface:
Outside blasted with ceramic beads
Inside smoothed
connection via flanges
(other designs to be agreed upon)

Magnetic material:

High energy neodymium magnets that remove even the finest metal contaminants.
Magnetic material:
Energy product max. 342 kJ/m3
Coercive force HcJ >= 876 kA/m
Remanence BR max. 1000 mT
Operating temperature max. 80°C

Product description:

The cascade magnet disposes of a stainless steel casing with flange connection at the inlet and outlet side.

The aim of the magnetic system is to slow down the product and at the same time leading all metal parts directly to the pole faces of the magnetic plates. Magnetizable metal parts are held tight there until the cleaning of the magnet by the user takes place. The magnet´s cascade system is the perfect design for this kind of application.
The free cross-sectional area of the shaft will be maintained and the risk of blockage in the separation area is minimized.
In order to facilitate the removal of the seized metal parts the single magnetic plates are covered by a cleaning hood. The hood also serves as wear protection and can easily be renewed.

Depending on the cleaning demand the number of cascades may vary.

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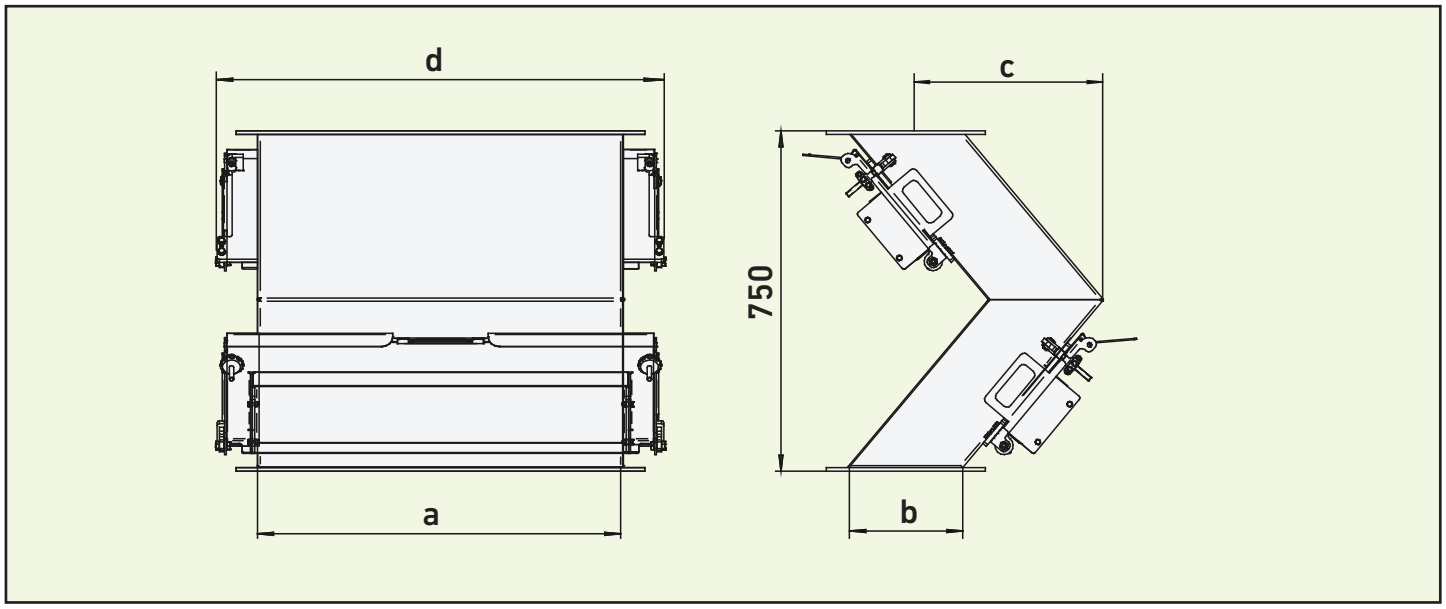
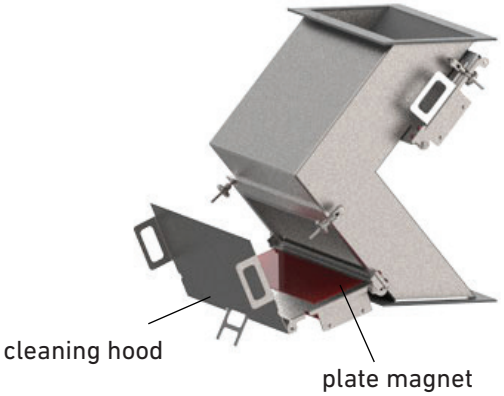


Type KSS-L	a	b	c	d	kg	Type KSS-L
KSS-L 300	300	250	433	985	66,0	KSS-L 300
KSS-L 400	400	250	433	985	88,0	KSS-L 400
KSS-L 500	500	250	433	985	110,0	KSS-L 500
KSS-L 600	600	250	433	985	132,0	KSS-L 600
KSS-L 700	700	250	433	985	154,0	KSS-L 700
KSS-L 750	750	250	433	985	166,5	KSS-L 750
KSS-L 800	800	250	433	985	177,5	KSS-L 800

Cleaning:

For the removal of seized metal parts open the star grips and swivel the cleaning hood and magnet out of the casing.
If both units are far away from the working position the user can remove the cleaning hood from the magnet at the lateral grips.
The seized metal parts remain at the cleaning hood and fall down.
It is not necessary to carry the magnetic system´s weight. The whole weight is supported by the casing.



ATEX:

TAll machines can be used in ATE Zone 20 (dust) provided the design is adapted accordingly