

TMG

Drum magnet system in housing

- Continuous separation of ferrous metal contaminations
- Inspection of bulk materials
- Also suitable for non-free-flowing products
- High throughput capacity
- Strong magnetic performance
- High throughput rate
- Complete system with housing, connections, and motor → "Plug and Play"
- All made of wear resistant stainless steel (AISI 304)
- Neodymium version



TMG

Drum magnet system in housing

Function:

This system is suitable for a continuous separation of tramp iron and mid-sized ferrous contamination from various dry bulk materials.

An adjustable 180° magnetic section inside the rotating drum shell attracts the ferrous contaminants and rotates them out of the material flow. After leaving the terminated magnetic field all separated particles fall off the system (see operation sequence). Non-ferrous materials pass the drum separator unaffected.

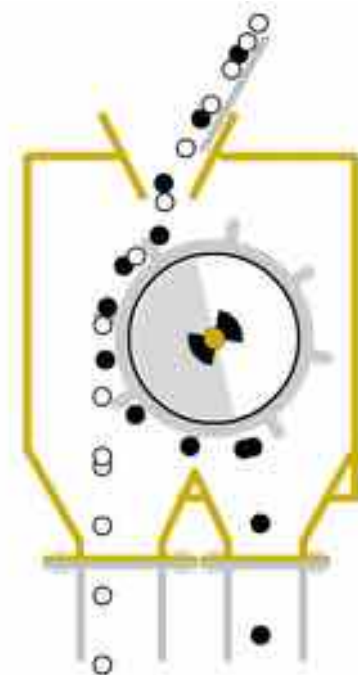
Performance characteristics:

The TMG incorporates a diverter shield in a wear-resistant stainless steel housing with a separate outlet for ferrous contaminations and the clean product. Also a gearmotor is to be supplied.

This complete package can be designed with customized fittings for an easy installation.

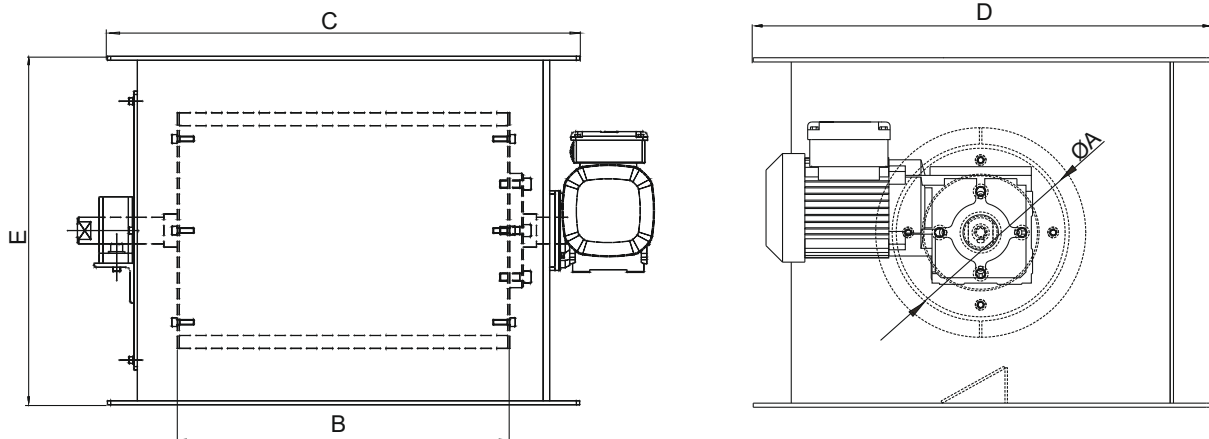
Main components:

- Neodymium version
- Static magnetic field covering 180°
- Housing with connections and separated outlet for accept and reject material
- Inspection opening with safety switch
- Electric motor



Magnetic System DRUM SEPARATOR TMG

■ Dimensions DRUM SEPARATOR



■ Technical data

Series 1	mT *	Drum diameter ØA	Type	Drum width B				
Neodymium N35	350	215	TMGN-	0400	0500	0600	0800	1000
Housing width C				610	710	810	1010	1210
Housing depth D				555	555	555	555	555
Housing height E				425	425	425	425	425
Motor power [kW]				0.18	0.18	0.18	0.37	0.37
Drum rev's [U/min]				28	28	28	35	35
Throughput [m³/h]				28	35	43	59	70
Weight [kg]				125	140	155	190	225

Series 2	mT *	Drum diameter ØA	Type	Drum width B				
Neodymium N35	350	315	TMGN-	0400	0500	0600	0800	1000
Housing width C				610	710	810	1010	1210
Housing depth D				655	655	655	655	655
Housing height E				525	525	525	525	525
Motor power [kW]				0.18	0.37	0.37	0.37	0.37
Drum rev's [U/min]				28	35	35	29	29
Throughput [m³/h]				40	50	62	85	100
Weight [kg]				165	185	205	250	285

Series 3	mT *	Drum diameter ØA	Type	Drum width B				
Neodymium N35	350	400	TMGN-	0400	0500	0600	0800	1000
Housing width C				610	710	810	1010	1210
Housing depth D				740	740	740	740	740
Housing height E				610	610	610	610	610
Motor power [kW]				0.37	0.37	0.37	0.55	0.55
Drum rev's [U/min]				35	35	29	29	29
Throughput [m³/h]				52	64	76	120	124
Weight [kg]				225	245	270	330	380

* Millitesla: readings taken from outer drum surface: +/-5%; *1 gauss = 10⁻⁴ Tesla
 Type designation: combination of "Type" and "Drum width B" (i.e. TMGN-0400)

All dimensions in mm

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■ Conditions of use

- Use:** A adjustable 180° magnetic section inside the rotating drum shell attracts the ferrous contaminants and rotates them out of the material flow. This complete housed system is supplied with SEW electric drive.
- Bulk material characteristics:** Dry, good free flowing characteristics
- Material flow:** Continuous feeding (avoid batchwise feeding) e.g. via vibratory drive (avoid freefall)
- Operation temperature:** Max. +60°C (for higher temperatures please see special version)
- Ambient temperature:** -20° to +60°C

■ Scope of delivery / Standard design

- Scope of delivery:** High-intensity neodymium magnet in a wear-resistant housing; incl. SEW electric drive
- Drive:** SEW electric motor; IP54; RAL 7031
(for higher ferrous input contamination level respectively for separation of big ferrous parts a stronger SEW motor may be recommended)
- Operating voltage:** 230V / 400V, 50 Hz
- Housing:** Stainless steel 1.4301 (AISI 304); with inspection door and safety switch
- Drum:** Stainless steel 1.4301 (AISI 304)
- Surface treatment:** Housing: bead blasted; Drum shell: brushed
- Magnetic material:** Manufactured by using high intensity rare earth neodymium magnet material N35
- Magnet characteristics:** Remanence Br: 1200 mT (max. 350 mT on the drum surface)

■ Options / Accessories

- Frequency converter for adjustment of rev's (IP65)

■ Special versions

- High temperature application (Samarium-Cobalt-magnet material) Paint finish (RAL detail necessary)
- Surface coating (i.e. PTFE, TiN)
- ATEX certified version