

A hand is shown holding a large, white, three-dimensional recycling symbol. The symbol is composed of three arrows forming a triangle. The background is a vibrant green with a subtle gradient. In the upper left, there is a blue square logo with the letters 'BM' in white. To the right of the logo, the text 'Bakker Magnetics' is written in white on a blue rectangular background. Below this, the phrase '... attracts' is written in a light blue, cursive font. At the bottom, the text 'Always ahead in magnetic systems for recycling industries' is displayed in white.

BM

Bakker Magnetics

... attracts

Always ahead

**in magnetic systems for
recycling industries**

Bakker Magnetics.

A solid answer to any magnetic challenge.

We develop, test and produce magnetic products and solutions. With more than 45 years of knowledge and experience and our flexible approach we ensure a solid answer to any magnetic need. Whether that need is in automotive, oil & gas, recycling, renewable energy, retail or food & pet industry.

Our headquarters are in Eindhoven. Bakker Magnetics dealerships and agencies can be found worldwide. Besides our production and assembly facilities in Eindhoven, we also produce magnets in our Joint Venture in Ningbo, China.

We love magnetics and we love to innovate. But to be of substantial and sustainable added value to our customers we need more. That's why we are flexible, fast, smart and always focused on quality and on our customers' needs.

This is how we do it:



OUR ADDED VALUE



OWN PRODUCTION SITE IN SON

Custom made magnet
assemblies

Develop &
test prototypes

Building machines for
separation & recycling



JOINT VENTURE IN CHINA

Constant & reliable
quality

Customization & mass
production

Short lines of communica-
tion & quick follow-ups



DEDICATED ENGINEERING DEPARTMENT

Complex magnetic
calculations

Customer specific design
& drawings

Co-engineering & joint
product development



OWN TEST CENTRE AND LABORATORY

Measure & validate
quality

ISO standards
(ISO 9001 & ISO 14001)

Test on magnetic
properties & geometry



LARGE STOCK IN MAGNETS = QUICK DELIVERY

One of the largest stock
in europe

Short & reliable delivery
times

Consignment stock &
other value added services

BM104X Eccentric Eddy Current separators

Our newest Eccentric Eddy Current “BM104X”, is specially designed and engineered for separating fines out of, for example, bottom ashes, electronic waste of small metal fractions. The high speed magnetic rotor inside this machine has the highest number of poles available in the market, 104 (!) and operating at a speed of 3.600rpm the BM104X rotor generates an astonishing field frequency of **1.56kHz**.

Key feature of the eccentric setup is the self-cleaning mechanism of the magnetic rotor. This results in less wear on the rotor which in turn lead to less downtime of the machine. The big diameter of the Bakker Magnetics eccentric rotor makes sure that, despite of this eccentric execution there is a big angle of magnetic influence for optimal separation results. The working principle of an eddy current separating systems is based on the difference in electric conductivity of nonferrous metals. A conveyor belt leads the product flow towards a magnetic rotor rotating at high speed. This magnetic rotor produces a rapidly alternating magnetic field, causing any nonferrous metals to be ejected from the product flow. Bakker Magnetics rotors utilize radius-shaped magnets to eliminate the excessive air gap, which results in the maximum amount of magnetic force transferred into the nonferrous metals.

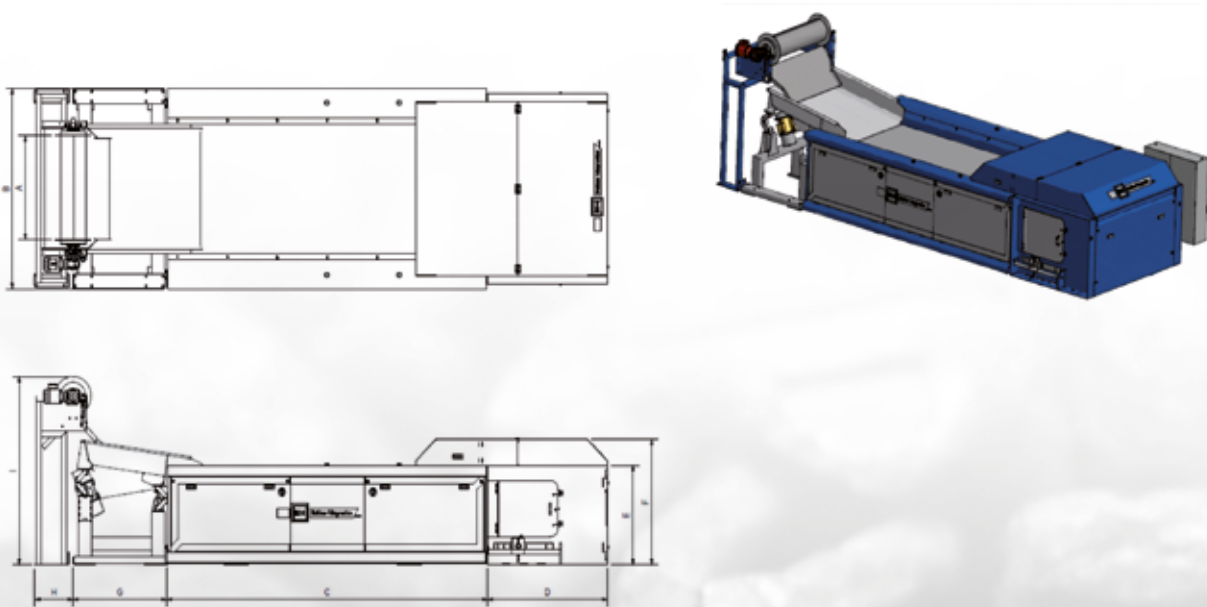
- Execution: Eccentric nonferrous separator type BM104X
Sturdy construction
Modular design
Including separation unit
Including control cabinet
Easy access for quick and easy maintenance.
- Driving drum: Ø295mm, crowned
Powered by 4kW SEW engine
- Magnetic rotor: Ø610mm, cylindrical
Powered by 9,2kW SEW engine
Built up with extreme strong neodymium magnets; quality BM52 (BM104X)
Adjustable rotor speed; 500 - 3.600 rpm.
(2.000mm max 3.200 rpm).
- Belt: Wear resistant PU belt, 2 side guards
Self-adjusting belt track, 2 misalignment switches
Manually adjustable belt tension
Adjustable belt speed; 0,5 - 3 m/s
- Surface treatment: Anti-corrosion primer
Painted blue RAL 5015
Stainless steel parts untreated



- On request:**
- Neodymium separating drum
 - Vibrating feeder

BM104X									
Article number	A	B	C	D	E	F	G	H	I
29.733/...	800	1610	4020	1500	1135	1462	1175	480	2175
29.734/...	1000	1810	4020	1500	1135	1462	1175	480	2175
29.736/...	1500	2310	4020	1500	1135	1462	1175	480	2175
29.737/...	2000	2810	4020	1500	1135	1462	1175	480	2175

Sized mentioned based on a feeder length of 1500mm
Sizes and dimensions (in mm) as shown on the drawing



BM12X / BM36X Eccentric Eddy Current separators

The working principle of an eddy current separating systems is based on the difference in electric conductivity of nonferrous metals. A conveyor belt leads the product flow towards a magnetic rotor rotating at high speed. This magnetic rotor produces a rapidly alternating magnetic field, causing any nonferrous metals to be ejected from the product flow. Key feature of the eccentric setup is the self-cleaning mechanism of the magnetic rotor. This results in less wear on the rotor which in turn lead to less downtime of the machine. The big diameter of the Bakker Magnetics eccentric rotor makes sure that, despite of this eccentric execution there is a big angle of magnetic influence for optimal separation results.



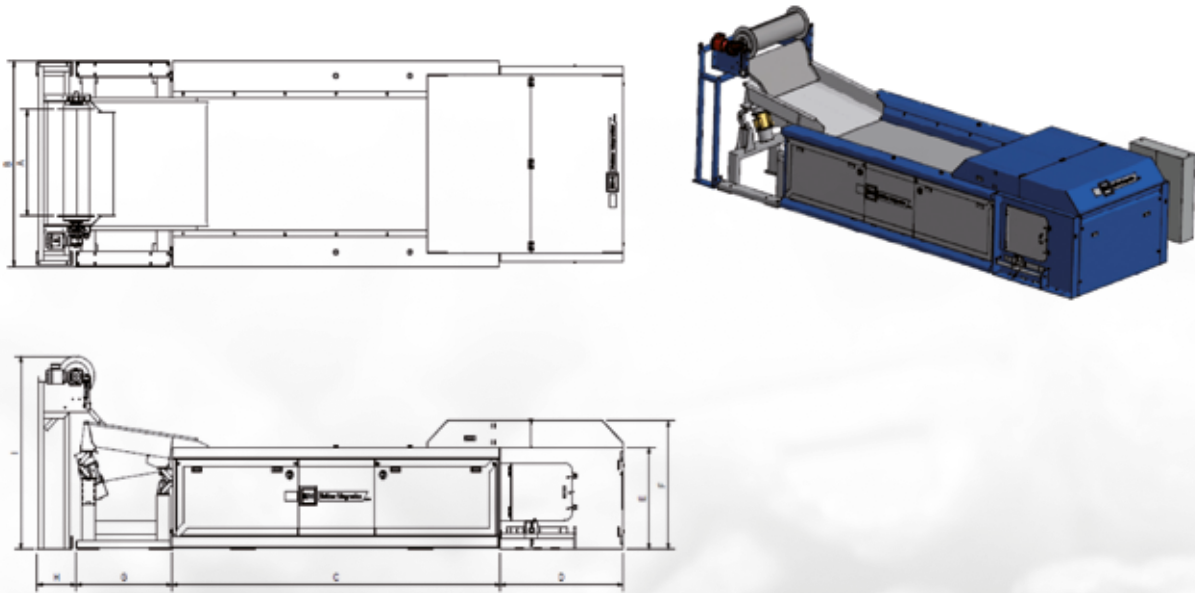
Bakker Magnetics rotors utilize radius-shaped magnets to eliminate the excessive air gap, which results in the maximum amount of magnetic force transferred into the nonferrous metals.

- Execution: Eccentric nonferrous separator type BM..X
Sturdy construction
Modular design
Including separation unit
Including control cabinet
Easy access for quick and easy maintenance
- Driving drum: Ø295mm, crowned
Powered by 4kW SEW engine
- Magnetic rotor: Ø460mm, cylindrical
Powered by 7,5kW SEW engine
Powered by 9,2kW SEW engine (2000mm version)
Built up with strong neodymium magnets;
quality BM35 (optional BM50 magnets)
Adjustable rotor speed; 500 – 3.000 rpm.
(2.000mm version max. 2.500rpm).
- Belt: Wear resistant PU belt, 2 side guards
Self-adjusting belt track, 2 misalignment switches
Manually adjustable belt tension
Adjustable belt speed; 0,5 - 3 m/s
- Surface treatment: Anti-corrosion primer
Painted blue RAL 5015
Stainless steel parts untreated

- On request:**
- Equipped with a 12 (BM12X) or 36 (BM36X(-s)) pole high speed eccentric magnetic rotor
 - Rubber belt, equipped with 2 side guards
 - Neodymium separating drum
 - Vibrating feeder

BM12X / BM36X (-s)									
Article number	A	B	C	D	E	F	G	H	I
29.743/...	800	1610	3000/ 4000	1500	1135	1462	1175	480	2175
29.744/...	1000	1810	3000/ 4000	1500	1135	1462	1175	480	2175
29.746/...	1500	2310	3000/ 4000	1500	1135	1462	1175	480	2175
29.747/...	2000	2810	3000/ 4000	1500	1135	1462	1175	480	2175

Sizes mentioned based on a feeder length of 1500mm
Sizes and dimensions (in mm) as shown in the drawing



BM12C / BM36C Centric Eddy Current separators

The working principle of an eddy current separating systems is based on the difference in electric conductivity of nonferrous metals. A conveyor belt leads the product flow towards a magnetic rotor rotating at high speed. This magnetic rotor produces a rapidly alternating magnetic field, causing any nonferrous metals to be ejected from the product flow.

Bakker Magnetics rotors utilize radius-shaped magnets to eliminate the excessive air gap, which results in the maximum amount of magnetic force transferred into the nonferrous metals.



- Execution: Centric nonferrous separator type BM..C
Sturdy construction
Modular design
Including separation unit
Including control cabinet
Easy access for quick and easy maintenance
- Driving drum: 295mm, crowned
Powered by 4kW SEW engine
- Magnetic rotor: Ø295mm, cylindrical
Powered by 7,5kW SEW engine
Built up with strong neodymium magnets; quality BM35 (BM12C/36C) or BM50 (BM36C-s)
Adjustable rotor speed; 500 - 3.000 rpm
- Belt: Wear resistant PU belt, 2 side guards and 1 idler
Self-adjusting belt track, 2 misalignment switches
Manually adjustable belt tension
Adjustable belt speed; 0,5 - 3 m/s
- Surface treatment: Anti corrosion primer
Painted blue RAL 5015
Stainless steel parts untreated

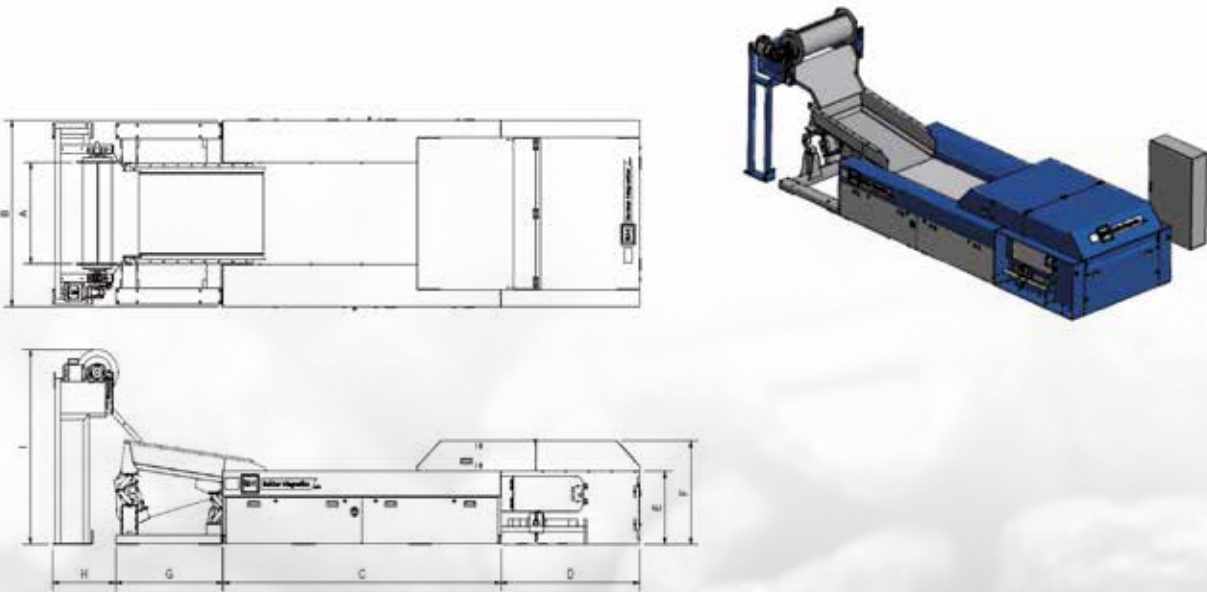
On request:

- Can be equipped with a 12 (BM12C) or 36 (BM36C(-s)) pole high speed magnetic rotor
- Rubber belt, 2 side guards and 2 idlers
- Neodymium separating drum
- Vibrating feeder



BM12C / BM36C (-s)										
Article number	A	B	C	D	E	F	G	H	I	Weight (kg)
29.721/...	500	1340	3000	720	1037	1500	1160	680	1925	1037
29.723/...	800	1640	3000	720	1037	1500	1160	680	1925	1037
29.724/...	1000	1840	3000	720	1037	1500	1160	680	1925	1037
29.725/...	1200	2040	3000	720	1037	1500	1160	680	1925	1037
29.726/...	1500	2340	3000	720	1037	1500	1160	680	1925	1037

Sizes mentioned based on a feeder length of 1500mm
Mentioned weights includes separating unit and excluding feeder and drum
Sizes and dimensions (in mm) as shown in the drawing



BBM-LD Longitude overbelt magnets

Overbelt magnet for longitude situations where the magnet is placed parallel to the conveyor belt. The magnet system removes the ferrous particles from the passing flow of materials. The ferro particles remain in the magnetic field for a longer period which leads to a better separation result and bigger efficiency. The multipole transport magnet “cleans” the attracted ferro particles by spinning them in the magnetic field. This causes nonmagnetic particles to fall. Longer ferro particles will simply be transported away and will not cause any damage to the conveyor belt underneath.

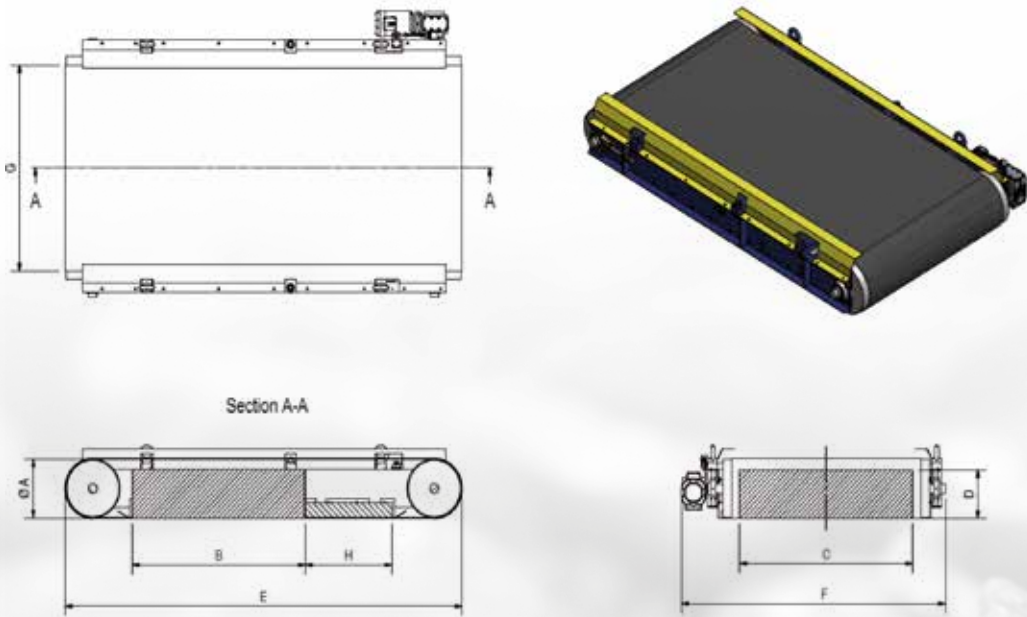


- Execution: Longitude overbelt magnet type BBM-LD
Sturdy construction
Permanently magnetic
- Surface treatment: Anti-corrosion primer
Painted blue RAL5015, guards yellow RAL1021
- Magnetic part: Permanent ceramic magnets quality BM7
Transport pole length (H) 800mm as standard
- Motor: SEW motor
- Belt: Synthetic rubber with vulcanized idlers. The crowned shape of the drums make the belt path self-adjusting.

- On request:**
- Control cabinet with thermal overload protector, pushbutton ON / OFF, emergency stop and 2 Signal lights (ON / OFF)
 - Correx Blue; belt equipped with a wear resistant layer of Correx Bleu 45° shore

BBM-LD Ceramic version									
Article number	A	B	C	D	E	F	G (belt)	Motor (kW)	Weight (kg)
LD320.800/1000	320	1000	800	247	2750	1450	890	2,2	2050
LD320.1000/1000	320	1000	1000	247	2750	1650	1090	2,2	1610
LD400.1000/1000	400	1000	1000	350	2905	1790	1090	3,0	3500
LD400.1000/1200	400	1200	1000	350	3105	1790	1090	3,0	3900
LD400.1200/1200	400	1200	1200	350	3105	1990	1290	3,0	4500
LD400.1200/1400	400	1400	1200	350	3305	1990	1290	3,0	4700
LD400.1400/1400	400	1400	1400	350	3305	2190	1490	3,0	4900
LD400.1400/1600	400	1600	1400	350	3505	2190	1490	3,0	5400
LD500.1200/1200	500	1200	1200	410	3400	1990	1340	4,0	5000
LD500.1200/1400	500	1400	1200	410	3600	1990	1340	4,0	5500
LD500.1400/1400	500	1400	1400	410	3600	2190	1540	4,0	5700
LD500.1400/1600	500	1600	1400	410	3800	2190	1540	4,0	5900

Sizes and dimensions (in mm) as shown on the drawing



BBM Overbelt magnets

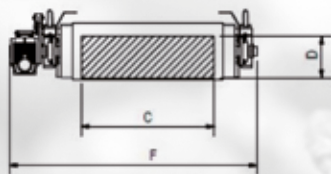
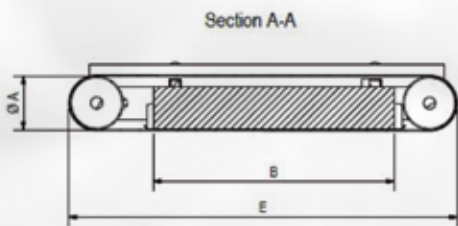
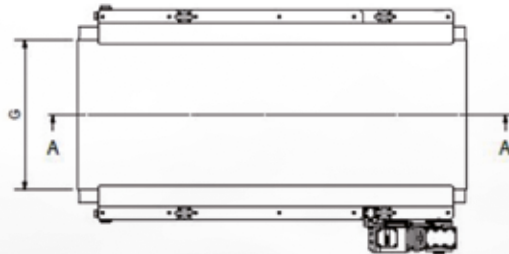
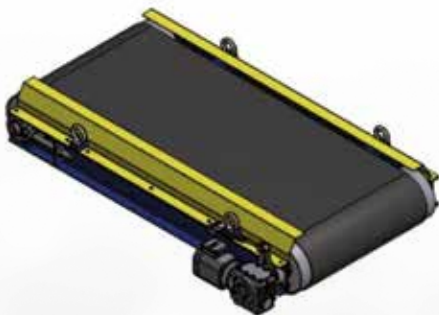
Overbelt magnet systems are used to separate metals on conveyor belts. For this purpose they are suspended above the conveyor belt. The magnet system removes the ferrous particles from the passing flow of materials. After leaving the magnetic sector, these iron particles are dropped into a receptacle. At the active side the magnet is shielded by a stainless steel wearing plate. This type of separating system is often used in industries to avoid machinery, such as shredders, being damaged by the iron particles.



- Execution: Overbelt magnet type BBM
Sturdy construction
Permanently magnetic
- Surface treatment: Anti-corrosion primer
Painted blue RAL5015, guards yellow RAL1021
- Magnetic part: Permanent ceramic magnets quality BM7 or
Permanent neodymium magnets quality BM35
- Motor: SEW motor
- Belt: Synthetic rubber with vulcanized idlers. The crowned shape of the drums make the belt path selfadjusting.

On request:

- Control cabinet with thermal overload protector, pushbutton ON / OFF, emergency stop and 2 Signal lights (ON / OFF)
- Correx Blue; belt equipped with a wear resistant layer of Correx Blue 45° shore



BBM Ceramic version									
Article number	A	B	C	D	E	F	G (belt)	Motor (kW)	Weight (kg)
28.001	135	520	310	130	955	640	420	0,55	153
28.002	135	720	310	130	1155	640	420	0,55	197
28.003	135	920	310	130	1355	640	420	0,55	242
28.101	220	430	505	180	1050	1015	650	1,1	335
28.102	220	530	505	180	1150	1015	650	1,1	375
28.103	220	635	505	180	1250	1015	650	1,1	420
28.104	220	735	505	180	1355	1015	650	1,1	470
28.105	220	835	505	180	1455	1015	650	1,1	515
28.106	220	935	505	180	1555	1015	650	1,1	560
28.107	220	1040	505	180	1655	1015	650	1,1	600
28.108	220	1140	505	180	1755	1015	650	1,1	650
28.109	220	1250	505	180	1860	1015	650	1,1	695
28.110	220	1350	505	180	1960	1015	650	1,1	740
28.111	220	1450	505	180	2060	1015	650	1,1	785
28.130	220	430	810	180	1050	1225	900	1,5	470
28.131	220	530	810	180	1150	1225	900	1,5	545
28.132	220	635	810	180	1250	1225	900	1,5	620
28.133	220	735	810	180	1355	1225	900	1,5	695
28.134	220	835	810	180	1455	1225	900	1,5	765
28.135	220	935	810	180	1555	1225	900	1,5	840
28.136	220	1040	810	180	1655	1225	900	1,5	915
28.137	220	1140	810	180	1755	1225	900	1,5	990
28.138	220	1250	810	180	1860	1225	900	1,5	1060
28.139	220	1350	810	180	1960	1225	900	1,5	1140
28.140	220	1450	810	180	2060	1225	900	1,5	1210
28.140	220	1450	810	180	2060	1225	900	1,5	1210

Sizes and dimensions (in mm) as shown on the drawing

BBM Ceramic version									
Article number	A	B	C	D	E	F	G (belt)	Motor (kW)	Weight (kg)
28.010	320	835	610	247	1705	1125	700	2,2	734
28.011	320	1040	610	247	1910	1125	700	2,2	891
28.012	320	1250	610	247	2120	1125	700	2,2	1048
28.013	320	1450	610	247	2320	1125	700	2,2	1250
28.014	320	1650	610	247	2520	1125	700	2,2	1363
28.020	320	835	810	247	1705	1325	900	2,2	930
28.021	320	1040	810	247	1910	1325	900	2,2	1136
28.022	320	1250	810	247	2120	1325	900	2,2	1342
28.023	320	1450	810	247	2320	1325	900	2,2	1548
28.024	320	1650	810	247	2520	1325	900	2,2	1754
28.030	400	835	810	350	1885	1490	900	2,2	1336
28.031	400	1040	810	350	2090	1490	900	2,2	1622
28.032	400	1250	810	350	2300	1490	900	2,2	1789
28.033	400	1450	810	350	2500	1490	900	2,2	2194
28.034	400	1650	810	350	2700	1490	900	2,2	2481
28.035	400	1850	810	350	2900	1490	900	2,2	2767
28.040	500	835	900	410	2085	1640	1050	3,0	1758
28.041	500	1040	900	410	2290	1640	1050	3,0	2135
28.042	500	1250	900	410	2500	1640	1050	3,0	2512
28.043	500	1450	900	410	2700	1640	1050	3,0	2819
28.044	500	1650	900	410	2900	1640	1050	3,0	3266
28.045	500	1850	900	410	3100	1640	1050	3,0	3642
28.046	500	2050	900	410	3300	1640	1050	3,0	4019
28.047	500	2250	900	410	3500	1640	1050	3,0	4369

BBM Neodymium version									
Article number	A	B	C	D	E	F	G (belt)	Motor (kW)	Weight (kg)
28.070/01	215	800	483	161,5	1453	1168	745	2,2	660
28.071/01	215	1000	483	161,5	1653	1168	745	2,2	750
28.072/01	215	1200	483	161,5	1853	1168	745	2,2	840
28.073/01	215	1400	483	161,5	2053	1168	745	2,2	930
28.074/01	215	1600	483	161,5	2253	1168	745	2,2	1020
28.075/01	215	800	843	161,5	1453	1528	1105	2,2	915
28.076/01	215	1000	843	161,5	1653	1528	1105	2,2	1065
28.077/01	215	1200	843	161,5	1853	1528	1105	2,2	1215
28.078/01	215	1400	843	161,5	2053	1528	1105	2,2	1365
28.079/01	215	1600	843	161,5	2253	1528	1105	2,2	1515

Sizes and dimensions (in mm) as shown on the drawing



TM Drum magnets

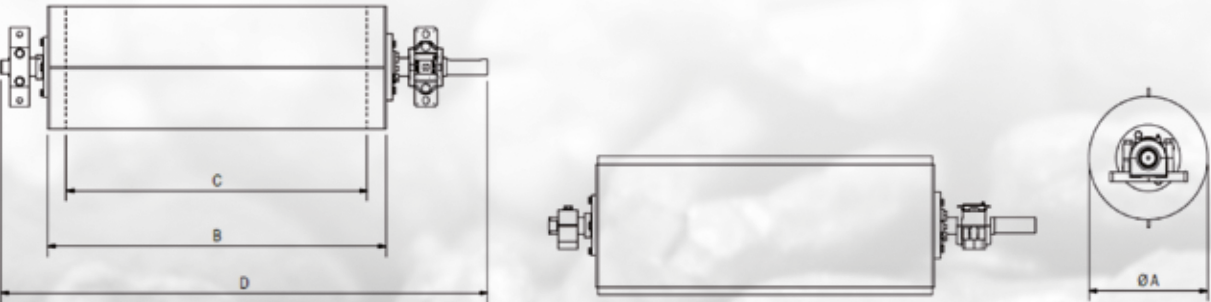
The drum magnet, also called separation drum, consists of a drum rotating around a static magnet. The material is fed onto the magnetic part of the drum. As the drum rotates past the magnetic field, the attracted metals are forced away from the magnetic field by the idlers and can be collected in a receptacle.

- Execution: Separating drum type TM
Sturdy construction
Permanently magnetic
- Drum: Stainless steel 1.4301, with idlers
- Surface treatment: Untreated
- Magnetic part: Magnetic area 1800
Permanent ceramic magnets quality BM7 or Permanent Neodymium magnets quality BM35

- On request:**
- Manganese steel shell to protect the drum from impact and abrasive materials

TM Ceramic or Neodymium version (/01)					
Article number	A	B	C	D	Weight (KG)
29.045	215	500	400	868	85
29.046	215	600	500	968	95
29.047	215	750	650	1118	120
29.048	215	900	800	1248	135
29.049	215	1100	1000	1448	165
29.050	315	500	400	927	100
29.051	315	600	500	1027	115
29.052	315	750	650	1177	140
29.053	315	900	800	1297	160
29.054	315	1100	1000	1497	190
29.055	400	500	400	979	160
29.056	400	600	500	1076	180
29.057	400	750	650	1226	210
29.058	400	900	800	1400	240
29.059	400	1100	1000	1600	280

Sizes and dimensions (in mm) as shown on the drawing



TM-HI High Intensity drum magnets

The drum magnet, also called separation drum, consists of a drum rotating around a static magnet. The material is fed onto the magnetic part of the drum. As the drum rotates past the magnetic field, the attracted metals are forced away from the magnetic field by the idlers and can be collected in a receptacle.

These drum magnets are equipped with extremely powerful magnets which makes them a perfect solution for separating very small iron particles as well as stainless steel. Preferably the drum is fed by a vibrating feeder to ensure an optimal separation result.

The drums are available in diameters of Ø300mm and Ø400mm (A) with a standard stainless steel or optional manganese shell if processing abrasive materials.

Apart from our standard range of widths we can adapt them to your specific need if necessary.

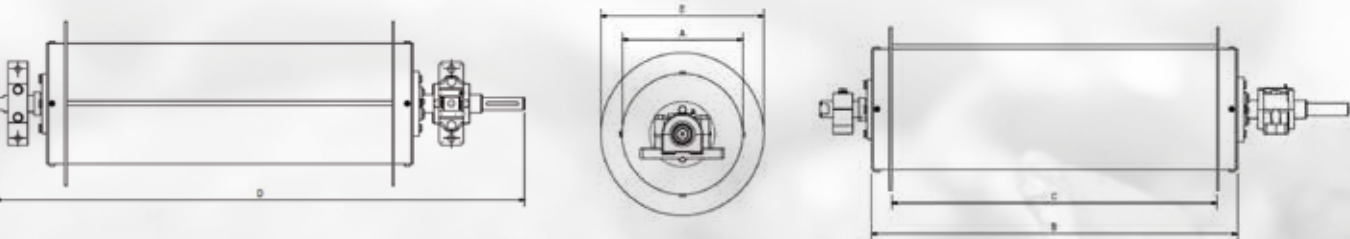
- Execution: High Intensity separating drum type TM-HI
Sturdy construction
Permanently magnetic
- Drum: Stainless steel 1.4301, with idlers
- Surface treatment: Untreated
- Magnetic part: Magnetic area 1800
Permanent Neodymium magnets quality BM50
Manually adjustable

- On request:**
- Manganese steel shell to protect the drum from impact and abrasive materials

TM-HI						
Article number	A	B	C	D	E	Weight (kg)
29.810	296	500	400	900	400	156
29.811	296	600	500	1000	400	187
29.812	296	700	600	1100	400	218
29.813	296	900	800	1300	400	280
29.814	296	1100	1000	1500	400	342



Sizes and dimensions (in mm) as shown on the drawing

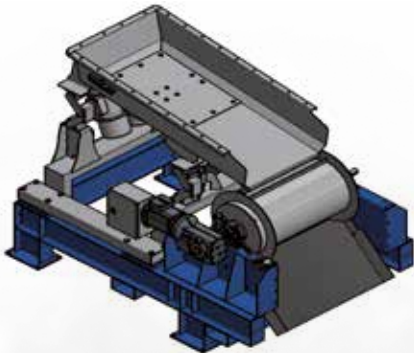


TM-HISS High Intensity Separator System

High Intensity Separator Systems can be fitted with a Ø300mm or Ø400mm High Intensity drum and include an SEW engine, vibrating feeder, material splitter and the framework on which everything is mounted. Easily installed into the production line or used as a stand-alone system. These systems are equipped with extremely powerful magnetic drums which makes them a perfect solution for separating very small iron particles as well as stainless steel.

The drums are available in diameters of Ø300mm and Ø400mm (A) with a standard stainless steel or optional manganese shell if processing abrasive materials. Apart from our standard range of widths we can adapt them to your specific need if necessary.

- Execution: High Intensity Separator System TM-HISS
Sturdy construction
Permanently magnetic
- Drum: Stainless steel 1.4301, with idlers
- Surface treatment: Drum and feeder trough untreated
Framework painted blue RAL5015
- Magnetic part: Magnetic area 1800
Permanent Neodymium magnets quality BM50
Manually adjustable



- On request:**
- Manganese steel shell to protect the drum from impact and abrasive materials
 - Manganese wear plate in the vibrating trough to protect the feeder from impact and abrasive materials

The magnetic part of the drum is adjustable for optimal adjustment on your situation



TM-H Drum magnet in housing

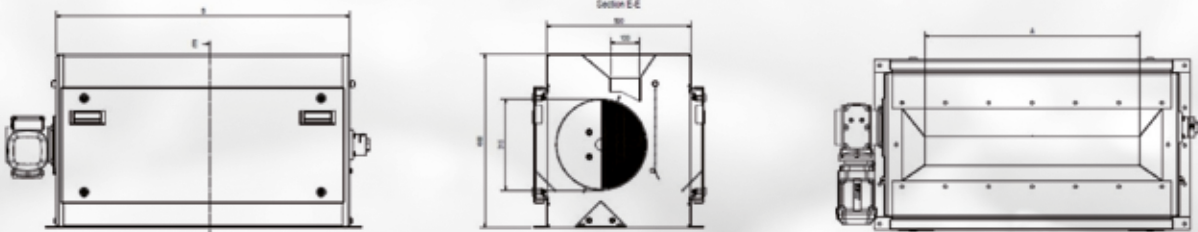
This magnet system, comprising a TM Drum magnet in a solid housing can be incorporated easily into (existing) installations and is particularly suitable to prevent dust created by the falling material from spreading.

- Execution: Separating drum in housing type TM-H
Sturdy construction
- Housing: Permanently magnetic
Stainless steel 1.4301
- Surface treatment: Inside anti-corrosion primer
Outside painted blue RAL5015
- Drum: Stainless steel 1.4301, with 2 idlers
- Surface treatment: Untreated
- Magnetic part: Magnetic area 1800
Permanent ceramic magnets
quality BM7 or Permanent
Neodymium magnets quality BM35
- Motor: SEW motor

TM-H Ceramic / Neodymium (/01)			
Article number	A	B	Weight (kg)
29.249	100	340	130
29.250	350	615	200
29.251	450	715	225
29.252	600	865	260
29.253	750	1015	300

Sizes and dimensions (in mm) as shown on the drawing

- On request:**
- Manganese steel shell to protect the drum from impact and abrasive materials



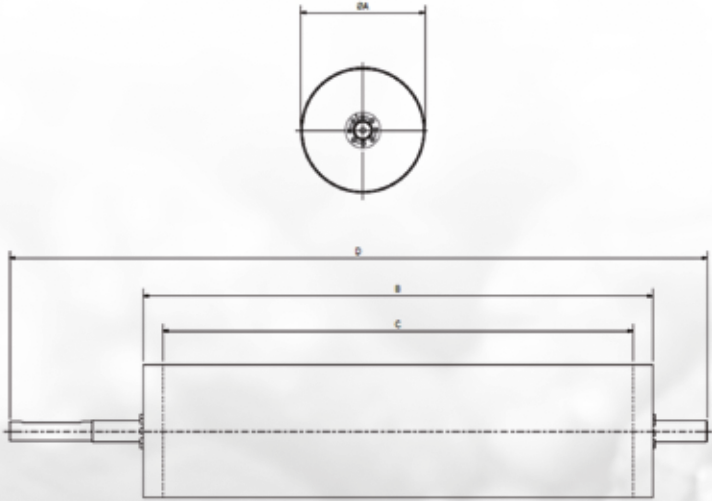
KM Head pulley magnets

The magnetic Head Pulley replaces the drive roll at the end of the conveyor belt. This pulley attracts ferro particles from the underside of the product layer, pulls them away from the main material flow and deposits them in a receptacle.

- Execution: Head pulley magnet type KM
Sturdy construction
Permanently magnetic
With removable axle
- Shell: Stainless steel 1.4301,
3 mm thick cylindrical
- Surface treatment: Untreated
- Magnetic part: Permanent ceramic magnets
quality BM7 or Permanent
Neodymium magnets quality BM35

KM Ceramic / Neodymium (/01)					
Article number	A	B	C belt	D	Weight (kg)
27.244	215	500	400	922	75
27.245	215	600	500	1022	90
27.246	215	700	600	1122	100
27.247	215	750	650	1172	110
27.248	215	950	850	1372	130
27.249	215	1150	1050	1572	160
27.250	315	500	400	922	130
27.251	315	600	500	1022	140
27.252	315	700	600	1193	190
27.253	315	750	650	1243	195
27.254	315	950	850	1443	230
27.255	315	1150	1050	1737	280
27.256	400	500	400	1003	200
27.257	400	600	500	1103	220
27.258	400	700	600	1203	270
27.259	400	750	650	1253	280
27.260	400	950	850	1490	330
27.261	400	1150	1050	1690	420

Sizes and dimensions (in mm) as shown on the drawing



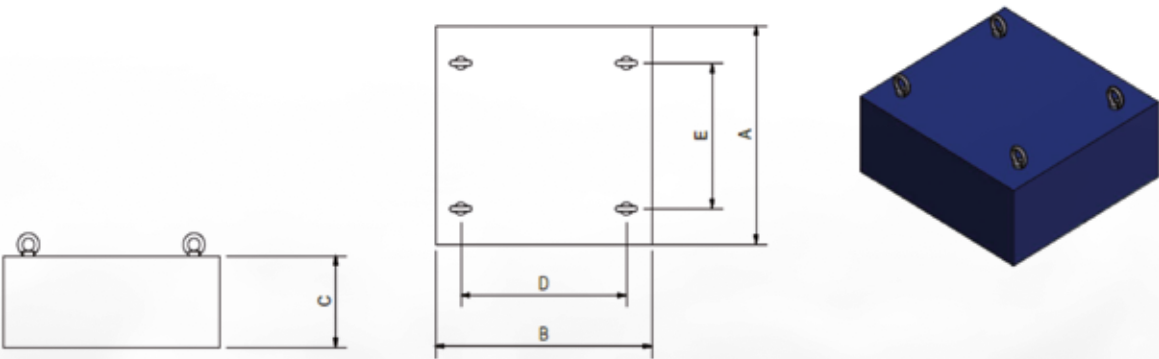
BM Block magnets

Block magnets can be applied to remove ferro particles from material flows on conveyor belts, at a free fall, above inclined conveyor chutes, guide plates, etc.



- Execution: Block magnet type BM
Sturdy construction
Permanently magnetic
- Housing: Stainless steel 1.4301
- Rear plate: Steel S235 with thread holes and C15 DIN 580 bolts
- Surface treatment: Anti-corrosion primer
Outside painted blue RAL5015
- Magnetic part: Permanent ceramic magnets quality BM7

- On request:**
- With manual cleaning drawer
 - Equipped with permanent neodymium magnets quality BM35



BM Ceramic version						
Article number	A	B	C	D	E	Weight (kg)
28.190	520	310	130	185	310	95
28.191	720	310	130	185	410	135
28.192	920	310	130	185	550	175
28.200	430	505	180	305	260	160
28.201	530	505	180	305	320	200
28.202	635	505	180	305	380	240
28.203	735	505	180	305	440	275
28.204	835	505	180	305	500	315
28.205	935	505	180	305	560	355
28.206	1040	505	180	305	625	395
28.207	1140	505	180	305	685	430
28.208	1250	505	180	305	750	470
28.209	1350	505	180	305	810	510
28.210	1450	505	180	305	870	550
28.230	430	810	180	485	260	265
28.231	530	810	180	485	320	330
28.232	635	810	180	485	380	400
28.233	735	810	180	485	440	460
28.234	835	810	180	485	500	525
28.235	935	810	180	485	560	590
28.236	1040	810	180	485	625	655
28.237	1140	810	180	485	685	720
28.238	1250	810	180	485	750	770
28.239	1350	810	180	485	810	850
28.240	1450	810	180	485	870	915

BM Ceramic version						
Article number	A	B	C	D	E	Weight (kg)
28.310	835	610	247	485	500	580
28.312	1040	610	247	485	625	740
28.314	1250	610	247	485	750	900
28.316	1450	610	247	485	870	1025
28.318	1650	610	247	485	990	1180
28.320	835	810	247	485	500	755
28.322	1040	810	247	485	625	990
28.324	1250	810	247	485	750	1145
28.326	1450	810	247	485	870	1375
28.328	1650	810	247	485	990	1575
28.330	835	810	350	485	500	990
28.332	1040	810	350	485	625	1245
28.334	1250	810	350	485	750	1505
28.336	1450	810	350	485	870	1735
28.338	1650	810	350	485	990	1990
28.340	1850	810	350	485	1110	2240
28.353	835	900	410	540	500	1335
28.355	1040	900	410	540	625	1665
28.357	1250	900	410	540	750	1995
28.359	1450	900	410	540	870	2325
28.361	1650	900	410	540	990	2655
28.363	1850	900	410	540	1110	2975
28.365	2050	900	410	540	1230	3305
28.367	2250	900	410	540	1350	3630

Sizes and dimensions (in mm) as shown on the drawing

CYCLE: FROM WASTE PROBLEM TO AN ECONOMIC PROFITABLE INDUSTRY

Society produces an enormous amount of waste matter. Particularly the use of packaging materials has increased to a large extent in recent times. Initially this waste was taken to refuse dumps. However, different authorities needed to put a check to this procedure as it became obvious that the limits in this growth of waste had been reached. A reduction in the amount of waste could be achieved by incineration. It was concluded that the mountain of waste contained many useful materials suitable for recycling. Especially as non-ferrous metals are so valuable, separation proved to be very profitable. Various methods and techniques are being applied in order to separate useful materials from the waste flow.

People continue to recognise that it is the consumer who should separate waste products initially. Separation of paper, glass, chemical and kitchen and garden waste by the consumer has proved very positive. At this stage, further separation is not efficient. The residual waste, not counting the afore-mentioned waste matter, is suitable for further separation by the waste processing industry. Before incineration this residual waste often goes through a separation process. After arriving at the waste processing plant, useful components are removed from the waste flow. In this regard, ferrous metals such as iron, sheet metal, steel, etc. are of main consideration. For this purpose de-ironing systems, such as drum magnet and overbelt magnet systems are available. Subsequently an eddy current removing system makes it possible to remove non-ferrous metals from the waste flow.

Through modern insight, the control of waste flows has evolved from an environmental necessity into an industry, allowing profitable returns. Because of price-rises in raw materials and the development of new techniques in recent years, recovery of useful materials from waste flows has become an economic industry of increasing importance. Moreover, the energy required for recycling metals such as iron, aluminium and similar metals has proved to be a fraction of the energy needed for processing ores to “new” metals. Apart from aspects such as the environment and the recycling of raw materials, other considerations play a role in the removal of metals during industrial processes such as the protection of expensive machinery against damage, caused by metal particles in the material flows. This brochure gives an idea of the state of technical development in metal removal systems. In this regard an important role is reserved for the eddy current non-ferrous metal removing systems.



We offer custom made magnetic solutions for any industry or application.

Joint development of innovative solutions with customers.



BAKKER MAGNETICS

- Over 60 employees in Eindhoven
- ISO certified

JOINT VENTURE CHINA

- Over 500 employees
- Hitachi licensed
- ISO TS16949 certified

AGENTS EUROPE

- Belgium, Germany, UK, Denmark, Austria, Slovakia



Bakker Magnetics

Always ahead.