

PERMANENT *Magnetic* *Drum Separators*



**REMOVE IRON CONTAMINANTS FROM MATERIAL PROCESSING LINES
AND CONCENTRATE MAGNETIC MATERIALS AND IRON ORE**



PERMANENT MAGNETIC *Drum Separators*

Eriez' Magnetic Drum Separators are designed for material flows with high levels of iron content. Drums have two common applications. They provide continuous removal of tramp iron from heavy flows of bulk materials, and they are used to concentrate iron ore and ferromagnetic materials in mining and industrial mineral applications.

Drum magnets offer efficient separation on volumes up to 25,600 cubic feet (725 cubic meters) per hour. Magnetic drums are often incorporated into modular systems complete with vibratory feeders and non-ferrous magnetic separators.

FEATURES:

- Available in Alnico, Ceramic or Rare Earth
- Multiple magnet circuit designs to match the application
- Housing assemblies with integrated feed hopper/gate or vibratory feeder available
- Easily retrofits into existing plants
- Optional heavy duty shells are available to minimize wear
- Sizes range from
 - Diameters 12" to 36" (305 to 915 mm)
 - Widths 12" to 72" (305 to 1525 mm)



TRAMP METAL REMOVAL APPLICATIONS:

- Glass Batch and Cullet
- Slags Industrial Minerals
- Abrasives & Refractories
- Chemical Processing
- Plastics Compounding
- Food Processing

FERROUS RECOVERY & CONCENTRATION APPLICATIONS:

- Industrial Minerals
- Iron Ores
- Slag
- Recycling



DRUM MAGNET DESIGN & OPERATION

A magnetic drum separator consists of a stationary, shaft-mounted magnetic circuit enclosed by a durable rotating drum. The magnetic circuit is typically comprised of several magnetic poles that span an arc of 120 degrees or more. The magnetic material and circuit design varies based on the application.

A drum magnet has an outer rotating shell and internal stationary permanent magnets. As material is presented to the drum, the rotating outer shell carries the material through the stationary magnetic field, which then attracts and holds ferrous particles to the drum shell. The nonmagnetic material falls freely from the shell, while ferrous particles are held firmly until they are carried out of the magnetic field completing the separation. (See Figure 1)

A typical example of a drum separator's magnetic element is shown in Figure 2. The magnetic circuit consists of axial magnetic poles of alternating polarity. The magnetic poles run the complete width of the drum.

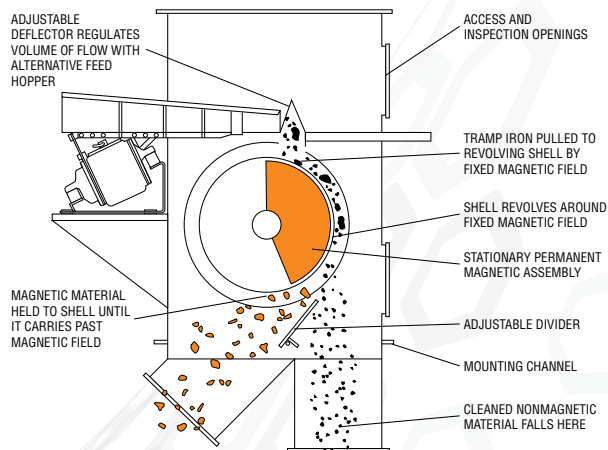


Figure 1. Permanent Magnetic Drum Separators



Figure 2. A cross-sectional view of an Axial Pole magnetic circuit

Type	Magnetic Element	Features
45A	Alnico	<ul style="list-style-type: none"> Low-intensity magnetic field strength 1400 gauss Agitating drum used in high temperature applications up to 1,100°F (593°C)
CC	Criss-Cross Circuit	<ul style="list-style-type: none"> High ferrous recovery Uniform magnetic field covers the entire drum width Smooth stainless steel shell with single wiper assures positive tramp iron discharge Minimum product carryover on powdery or cohesive materials
A	Agitating Style Circuit	<ul style="list-style-type: none"> High ferrous grade An agitating magnetic circuit improves separation of difficult-to-separate materials Magnetic circuit with alternating polarity flips the ferrous freeing entangled material
SS	Super Strength Rare Earth	<ul style="list-style-type: none"> Low-intensity magnetic field strength of 2400 gauss improves performance over ceramic Lower end of the Rare earth magnetic strength range to protect downstream equipment from tramp metal Applications: food, plastics and chemical
SP	Salient Pole Rare Earth	<ul style="list-style-type: none"> Medium-intensity magnetic field strength of 6,000 to 7,000 gauss on the surface Maximum separation efficiency when treating high purity products and industrial minerals Applications: silica/quartzite, feldspar, aluminum, garnet, ilmenite, and zircon
DFA	Dry Fast Agitating (Concentration)	<ul style="list-style-type: none"> DFA High Speed Drums employ high strength magnetic elements and high speed shell rotation. This makes it possible to introduce a third factor in the separation of materials – inertia. Dry Low Intensity Magnetic Separators (DLIMS) for automatic continuous concentration of magnetic ores, removal of magnetite from fly ash, purification of ground slag, foundry sand, cement and minerals. Capacity, grade and recovery are directly related to the peripheral speed of the drum.
DFA-10		<ul style="list-style-type: none"> Relatively slow peripheral shell speed for cobbing or roughing concentration High recovery of magnetics or purification of non-magnetics coarser than 1/8" (3mm)
DFA-25		<ul style="list-style-type: none"> Moderate to high speeds for cleaning and intermediate stages
DFA-50		<ul style="list-style-type: none"> High shell speed when a very high grade finished magnetic concentrate is desired High level of concentration with strategic dust collection in separation zone
DF-RE		<ul style="list-style-type: none"> 2400-2600 gauss and low speed range Effective for concentration of steel from slag

Magnetic Circuits FOR REMOVING TRAMP METAL CONTAMINANTS

CERAMIC DRUM SEPARATORS

Ceramic Drum Magnets offer excellent value for the separation of both tramp and fine iron contaminants in most applications. They continue to be the magnets most frequently used to improve the product purity of dry bulk materials.

TYPE CC - CRISS-CROSS CIRCUIT

Type CC model drum separators have a unique "criss-cross" magnetic circuit. A powerful permanent magnetic field uniformly covers the entire drum width to ensure maximum tramp iron removal. The smooth stainless steel shell with single wiper strip assures positive tramp iron discharge and a minimum of product carryover on powdery or cohesive materials.

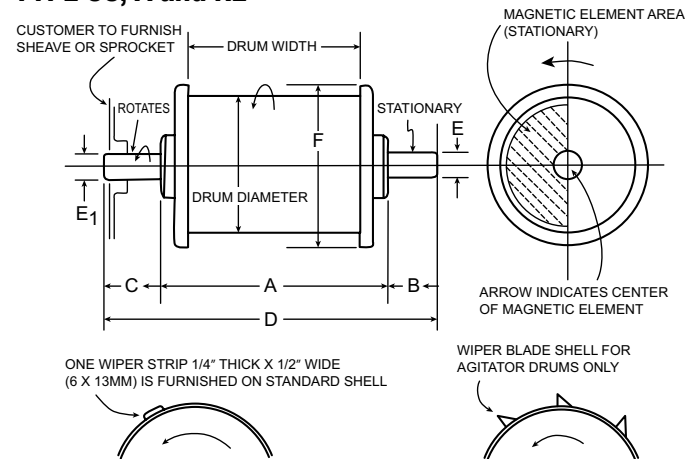
TYPE A - AGITATING STYLE CIRCUIT

Type A model drums have an "agitating" magnetic circuit to improve removal of difficult-to-separate magnetic and nonmagnetic materials. This drum's magnetic elements are arranged with an alternating polarity below the rotating shell. As material passes over it, the change in polarity will flip or shake the ferrous, helping to free any trapped or entangled nonferrous material.



SPECIFICATIONS

TYPE CC, A and RE



Drum Diameter in	Drum Width		A		B		C		D		E		E ₁		F		Approx. Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg
12 (305 mm) 45 rpm	12	305	15-3/4	400	4-1/4	108	7-7/8	200	27-7/8	708	1-15/16	49	1-15/16	49	14	356	180	82
	18	457	21-3/4	552	4-1/4	108	7-7/8	200	33-7/8	860	1-15/16	49	1-15/16	49	14	356	260	118
	24	610	27-3/4	705	4-1/4	108	7-7/8	200	38-7/8	1013	1-15/16	49	1-15/16	49	14	356	310	141
	36	915	39-3/4	1010	4-1/4	108	7-7/8	200	51-7/8	1318	1-15/16	49	1-15/16	49	14	356	390	177
15 (381 mm) 40 rpm	12	305	15-3/4	400	4-9/16	116	9	229	29-5/16	745	2-7/16	62	2-7/16	62	16-3/4	425	205	95
	18	457	21-3/4	552	4-9/16	116	9	229	35-5/16	897	2-7/16	62	2-7/16	62	16-3/4	425	265	120
	24	610	27-3/4	705	4-9/16	116	9	229	41-5/16	1049	2-7/16	62	2-7/16	62	16-3/4	425	350	160
	36	915	39-3/4	1010	4-9/16	116	9	229	53-5/16	1354	2-7/16	62	2-7/16	62	16-3/4	425	520	235
18 (457 mm) 35 rpm	12	305	15-3/4	400	4-9/16	116	9	229	29-5/16	745	2-7/16	62	2-7/16	62	20-1/2	521	240	110
	18	457	21-3/4	552	4-9/16	116	9	229	35-5/16	897	2-7/16	62	2-7/16	62	20-1/2	521	330	150
	24	610	27-3/4	705	4-9/16	116	9	229	41-5/16	1049	2-7/16	62	2-7/16	62	20-1/2	521	410	185
	36	915	39-3/4	1010	4-9/16	116	9	229	53-5/16	1354	2-7/16	62	2-7/16	62	20-1/2	521	610	275
24 (610 mm) 30 rpm	18	457	23-1/2	597	9	229	11	279	43-1/2	1105	2-15/16	75	2-7/16	62	28	711	940	425
	24	610	29-1/2	749	9	229	11	279	49-1/2	1257	2-15/16	75	2-7/16	62	28	711	1020	465
	36	915	41-1/2	1054	9	229	11	279	61-1/2	1562	2-15/16	75	2-7/16	62	28	711	1380	625
	48	1219	53-1/2	1359	9	229	11	279	73-1/2	1867	2-15/16	75	2-7/16	62	28	711	1810	820
60	1524	65-1/2	1664	9	229	11	279	85-1/2	2172	2-15/16	75	2-7/16	62	28	711	2330	1055	

Dimensions and specifications subject to change without notice. Contact your Eriez representative for assistance in selecting the right Magnetic Drum for your specific application. NOTES: 1. Data on 36" (915 mm) drums are available on request. 2. Salient Pole drum is not available in 12" drum.

RARE EARTH DRUM SEPARATORS

Rare Earth develops magnetic fields up to 25 times stronger than conventional ceramic units, with no increase in size. The additional strength helps in removing weakly magnetic or very fine iron contaminants. The increased strength at a greater distance, high gradients, and greater holding force of the Rare Earth drums virtually eliminates any ferrous wipe-off by product flow.

Rare Earth Drums treat or purify large quantities of bulk materials such as foods, plastics, abrasives, metal powders, ceramic material, paper, glass cullet, soda ash, kaolin clay, chemicals, gypsum, and quartz powder.

TYPE SS - SUPER STRENGTH RARE EARTH

Super Strength circuits generate a peak magnetic field strength of 2400 gauss on the drum surface. The SS drum will magnetically collect all ferrous materials ranging down to fine iron of abrasion, and provides excellent protection from dangerous tramp metals.

TYPE SP - SALIENT POLE RARE EARTH

Salient Pole circuits generate a peak magnetic field strength of 7000 gauss on its surface. These drums produce the highest possible magnetic field strength for maximum separation efficiency for treating high-purity products and industrial minerals. This separator is effective in collecting most paramagnetic constituents when treating high purity mineral feedstocks such as silica/quartzite, feldspar and aluminum. This unit is also effective at removing weakly magnetic stainless steel from recycled materials.

Effectively separates ilmenite, garnet and zircon in a single stage. Multiple splitters are utilized to segregate various minerals in the rougher stage of heavy mineral sands. Further concentration can be performed with salient pole RE drums and RE rolls.

MAGNETIC CIRCUITS & FIELD STRENGTH

Eriez designs magnetic circuits using finite element analysis modeling techniques shown below. The Salient Pole magnetic element is comprised of segments of alternating rare earth magnets and steel pole pieces. The steel poles are induced and project a high-intensity, high-gradient magnetic field. The change in the magnetic field is shown as it passes from one magnetic pole to another. This is shown at various distances from the surface of the drum shell.

The magnetic field configuration of the RE magnetic circuits are illustrated in Figure 3.

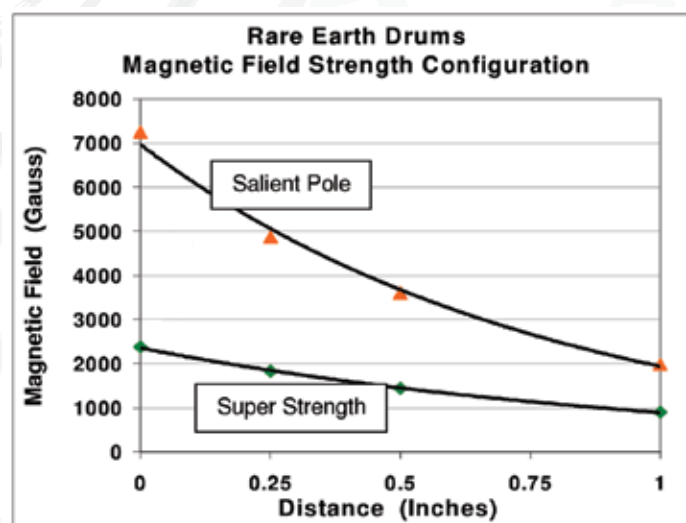


Figure 3. Magnetic Field Configuration of Rare Earth Drum Magnetic Separators

Drum-in-Housing

MODEL HFP DRUM-IN-HOUSING WITH FEED CONTROL

Hopper fed pant-leg discharge chutes (HFP) Drums provide exceptional controlled feed and discharge features. The steel hopper has a nonmagnetic stainless steel portion near the drum to prevent the hopper from being magnetically induced. The chute-type feed hopper is designed to provide increased efficiency of separation by more effectively directing the material flow to the face of the drum. It also prevents material from plunging directly onto the drum shell, to reduce the possibility of physical damage to the shell caused by impinging heavy material or heavy tramp iron.

Dust-Tight Housings are Standard

The housing of Model HFP is continuously welded at all joints. Inspection panels are located at both front and back of housings. Bolted-on drum support panels and inspection panels are sealed with 1/8" (3 mm) thick neoprene gaskets. All input and output openings are flanged for ease of connection to ductwork.

There is a drum removal opening on the drive side of the housing. Drums can be removed from housings without removing the housing from flowline. A heavy steel drum support panel bolted to the housing covers the opening and supports the drum.

Totally Enclosed Motor Drives

The motor drive includes the gear motor, motor mounting brackets, motor sheave and drum sheave. These are totally enclosed right-angle gear motors, 230/460V, 3-phase, 60 cycle. Explosion-proof motors are available at an additional cost.

Heavy Duty Construction

Model HFP in 18" and 24" (457-610 mm) diameters are also available specially constructed heavy duty drum shell and end flanges and components where required.

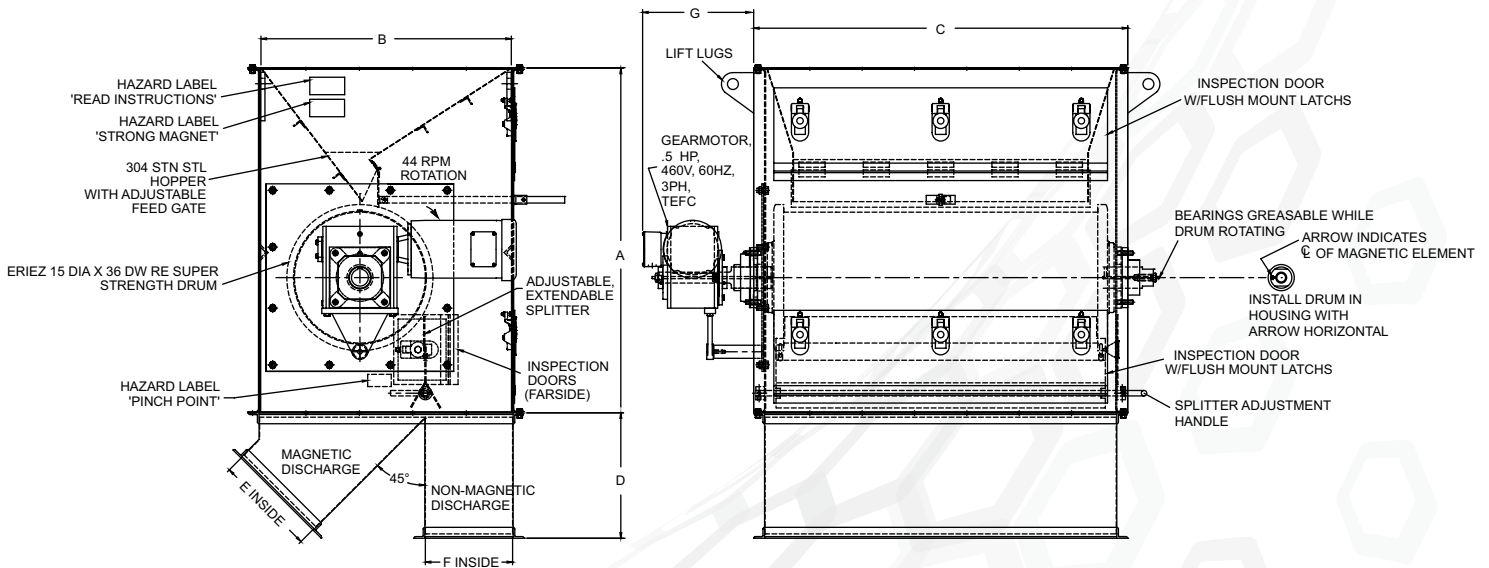
Special Circuit Designs

Designs are available for high temperature applications or special separation requirements.

Vibratory Feeder

Feeder introduces difficult to flow materials to the magnetic drum, meters the feed and improves material presentation from the drum magnet. Eriez offers vibratory feeders in a range of sizes.





Drum Diameter	Drum Width		A		B		C		D		E		F		G		Approx. Weight		Motor CC/A Drums		Motor RE SS Drums		RE Salient Pole	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg	hp	kw	hp	kw	hp	kw
12 (305 mm) 45 rpm	12	305	34-3/4	883	22	559	16-1/8	410	11-3/4	298	7-15/16	202	8	203	7-1/4	184	340	155	1/3	.25	1/3	.25		
	18	457	34-3/4	883	22	559	22-1/8	562	11-3/4	298	7-15/16	202	8	203	7-1/4	184	520	235	1/3	.25	1/3	.25		
	24	610	34-3/4	883	22	559	28-1/8	714	11-3/4	298	7-15/16	202	8	203	7-1/4	184	620	280	1/3	.25	1/3	.25		
	36	915	34-3/4	883	22	559	40-1/8	1019	11-3/4	298	7-15/16	202	8	203	7-1/4	184	730	330	1/2	.38	1/2	.38		
15 (381 mm) 40 rpm	12	305	39-1/2	1003	29	737	16-1/8	410	14-3/8	365	11-5/8	295	10	254	8-3/8	213	425	195	1/3	.25			3/4	.56
	18	457	39-1/2	1003	29	737	22-1/8	562	14-3/8	365	11-5/8	295	10	254	8-3/8	213	660	300	1/3	.25			3/4	.56
	24	610	39-1/2	1003	29	737	28-1/8	714	14-3/8	365	11-5/8	295	10	254	8-3/8	213	775	350	1/3	.25			3/4	.56
	36	915	39-1/2	1003	29	737	40-1/8	1019	14-3/8	365	11-5/8	295	10	254	8-3/8	213	900	410	1/2	.38			1-1/2	1.1
18 (457 mm) 35 rpm	12	305	45-1/4	1149	28	711	16-1/8	410	14-3/8	365	10-7/8	276	10-1/8	257	8-3/8	213	530	240	1/3	.25	--	--		
	18	457	45-1/4	1149	28	711	22-1/8	562	14-3/8	365	10-7/8	276	10-1/8	257	8-3/8	213	825	375	1/2	.38	--	--		
	24	610	45-1/4	1149	28	711	28-1/8	714	14-3/8	365	10-7/8	276	10-1/8	257	8-3/8	213	930	420	1/2	.38	--	--		
	36	915	45-1/4	1149	28	711	40-1/8	1019	14-3/8	365	10-7/8	276	10-1/8	257	8-3/8	213	1070	485	3/4	.56	--	--		
24 (610 mm) 30 rpm	18	457	59	1500	38	965	25	635	19-1/2	495	18-7/8	479	9	229	9-7/8	251	1425	645	3/4	.56	--	--		
	24	610	59	1500	38	965	31	787	19-1/2	495	18-7/8	479	9	229	9-7/8	251	1555	705	3/4	.56	--	--		
	36	915	59	1500	38	965	43	1092	19-1/2	495	18-7/8	479	9	229	9-7/8	251	2010	910	1	.75	--	--		
	48	1219	59	1500	38	965	55	1397	19-1/2	495	18-7/8	479	9	229	9-7/8	251	2540	1150	1-3/4	1.1	--	--		
60	1524	59	1500	38	965	67	1702	19-1/2	495	18-7/8	479	9	229	9-7/8	251	3170	1440	1-3/4	1.1	--	--			

Dimensions and specifications subject to change without notice. Contact your Eriez representative for assistance in selecting the right magnetic drum for your specific applications. NOTES: 1. Model HFP is available without the discharge chute adapter and as such is designated Model HF. 2. Data on 36" (915 mm) drums are available on request.



Magnetic Circuits

FOR CONCENTRATION OF MAGNETIC MATERIALS & ORES

DRY FAST AGITATING (DFA) MAGNETIC DRUMS

Dry Low Intensity Magnetic Separators are used in the automatic continuous concentration of magnetic ores, removal of magnetite from fly ash, purification of ground slag, foundry sand, cement and minerals.

DFA Magnetic drums have a high peripheral shell speed making them capable of processing large volumes of relatively fine ferromagnetic materials (-1") (-25mm) to producing high-grade magnetic concentrates or removing very fine, highly magnetic particles for purification.

Traditional slow, agitating or radial field drums employ only magnetic attraction and gravity as separating forces. The DFA High Speed Drums employ high-strength magnetic elements and high-speed shell rotation to introduce a third factor in the separation of materials – inertia. To maximize this advantage, Eriez engineered powerful magnetic circuits which permit high rotational speeds for the drum shell.

Eriez provides elements with a varying number of poles in axial (agitating) field design to produce high grade magnetic concentrates plus a high strength radial (nonagitating) field design for use where a clean, non-magnetic product is the most important consideration. Drum shell speeds vary from 300 to 1500 fpm (91 to 457 mpm), and the capacity per unit of magnetic width varies from approximately 5 to 40 tph per foot (14.7 to 119.0 mtph per meter), depending on feed particle size, magnetic permeability and drum speed.

All DFA Separator models require that the magnetic fraction to be separated is ferromagnetic and dry, and the feed size should be -1" (-25 mm). Selectivity increases when the products to be separated are within four Tyler mesh sizes. Moisture adversely affects separator performance but can be tolerated as long as the feed is free-flowing.

MODEL OPTIONS

Capacity, grade and recovery are directly related to the peripheral speed of the drum. For high recovery of magnetics or purification of non-magnetics coarser than 1/8" (3mm), the Model DFA-10 at a relatively slow peripheral shell speed is used. This includes automatic continuous concentration of magnetic ores, removal of magnetite from fly ash, purification of ground slag, foundry sand, cement and minerals. The DFA-25 is used at moderate speeds for cobbing or roughing concentration jobs. When a very high grade, finished magnetic concentrate is desired, the DFA-50 is used at a high shell speed.

ORE PROCESSING

Some operations require the use of multiple stage treatment. For example, in iron ore beneficiation a first stage cobbing provides a high recovery, low grade concentrate with minimum loss of magnetics in the tailings. The magnetic concentrate from the first drum is re-cleaned on the second stage to produce a finished high grade concentrate and a middling product. The middlings can be sent back for further grinding or can be recirculated without grinding.





DFA SPECIFICATIONS

Model	Description of Feed	Magnetics in Feed	Particle Size Range		Drum Speed		Capacity	
			In	mm	fpm	mpm	tph/ft	mtph/m
DF-A10	1st Stage concentration of average grade magnetite ore	50%	-1+1/4 inch	-25 mm+6 mm	400	122	15 – 40	45 – 120
DF-A25		50%	-1/4 inch	-6 mm	700	213	10 – 35	30 – 105
DF-A50		50%	-100 mesh	-149 micron	1,000	305	5 – 15	15 – 45
DF-A10	2nd Stage concentration of magnetite rough concentrate	90%	-1+1/4 inch	-25 mm+6 mm	800	244	10 – 30	30 – 90
DF-A25		90%	-1/4 inch	-6 mm	1,200	366	10 – 15	30 – 45
DF-A50		90%	-100 mesh	-149 micron	1,500	457	5 – 10	15 – 30
DF-R	Cobbing Stage Purification of primarily nonmagnetic material		-1+1/4 inch	-25 mm+6 mm	300	91	15 – 30	45 – 90
DF-R			-1/4 inch	-6 mm	500	152	10 – 25	30 – 75
DF-R			-100 mesh	-149 micron	700	213	5 – 10	15 – 30

Separation Variables

The magnetic attractive force generated by a drum type separator is opposed by centrifugal force. The primary variables affecting separation efficiency are the magnetic field strength, feed rate, linear speed of the separator surface, and particle size. An effective separation requires an equilibrium among these variables.

FEED RATE

In assessing the feed rate, a balance must be struck between an economic feed rate, product specifications, and recovery. As the feed rate increases, the layered particle bed on the separator surface increases in height and the collection of magnetics decreases.

How material is presented to the drum affects separation quality. Material must be presented at the top or 12 o'clock position of the drum and at a consistent flow rate, spread evenly across the face of the drum. There are a number of feeding systems available to match the application. Eriez offers both electromagnetic and mechanical vibratory feeders as well as roll feeders.

LINEAR SPEED

The linear speed of the drum is also a primary variable related to the feed rate. As the linear speed is increased, the layered particle bed decreases in height responding with an improved collection of the magnetic particles.

The centrifugal force exerted by the drum or roll surface is the critical factor in providing separation. Beyond the critical speed, the centrifugal force overcomes the magnetic attractive force and the separation efficiency deteriorates.

PARTICLE SIZE

Particle size will also effect separation efficiency independent of all other variables. Coarse particles provide a relatively high burden depth on the separator surface and respond with a relatively high magnetic attractive force. Coarse particles typically provide high unit capacities with high separation efficiencies. Fine particles with a relatively low mass respond detrimentally to electrostatic forces. As a consequence, precise magnetic separations balancing magnetic forces against centrifugal forces deteriorates.

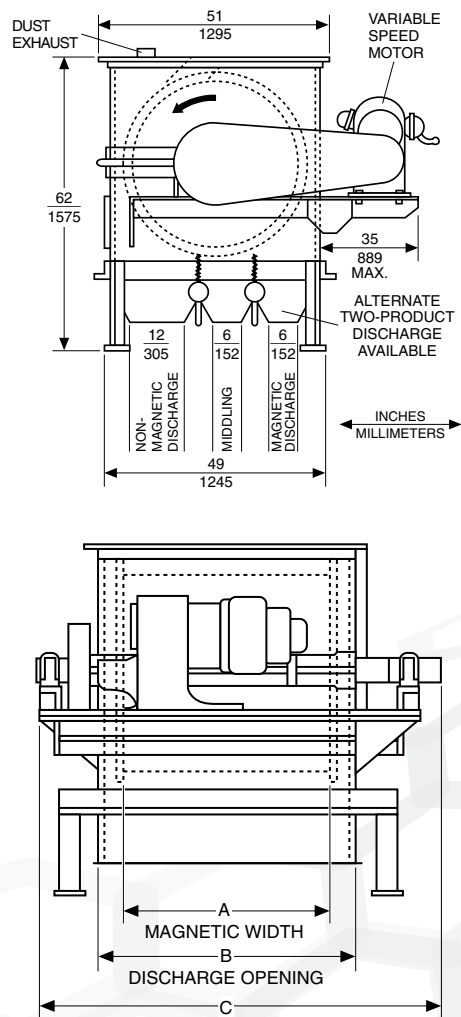
SEPARATOR SIZING

Eriez Rare Earth Drum magnetic separators are available in various sizes to match specific applications and capacity requirements. General guidelines for the unit capacity of the Rare Earth drum magnetic separators are provided in Table 2.

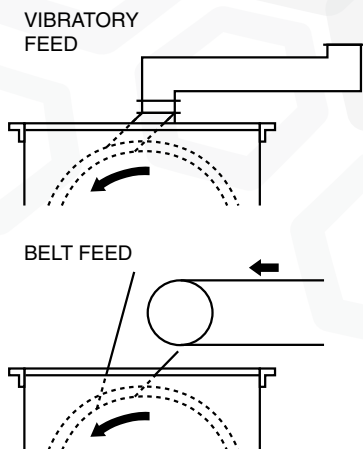
Drum Diameter	Drum Width	Unit Capacity (TPH/Foot of Drum Width)		
		Fine/Light Material Plastics, Pharmaceuticals, Resins, or Grains	Fine Industrial Minerals -35 Mesh Silica or Alumina	Coarse Heavy Material -1 inch Slags, Iron Ore, or Cullet
12"				
15"	12" – 60"	3	5	
18"	12" – 60"	4	6	
24"	24" – 96"	5	8	10 – 12
DFA				
36"	48" – 120"		12	15 – 18
48"	48" – 120"			20 – 24

Table 2. Unit Capacity of Rare Earth Drums. General Guidelines.

SPECIFICATIONS



FEED OPTIONS



A		B		C		Drive Hp						*Shipping Weight	
						A-10		A-10		A-10			
						500fpm	(152mpm)	1000fpm	(305mpm)	1500fpm	(457mpm)		
in	mm	in	mm	in	mm	hp	kw	hp	kw	hp	kw	lb	kg
6	152	16.5	419	40	1016	3	2.23	7.5	5.59	10	7.46	2700	1225
12	305	22.5	572	46	1168	5	3.72	7.5	5.59	15	11.18	3100	1406
18	457	28.5	724	52	1321	5	3.72	7.5	5.59	15	11.18	3800	1724
24	610	34.5	876	58	1473	5	3.72	10	7.46	20	14.90	4200	1905
36	914	46.5	1181	70	1778	5	3.72	15	11.18	25	18.64	5100	2313
48	1219	58.5	1486	82	2083	5	3.72	15	11.18	30	22.37	5800	2631
60	1524	70.5	1791	94	2388	5	3.72	20	14.90	40	29.82	6600	2994
72	1829	82.5	2096	106	2692	5	3.72	25	18.64	40	29.82	7600	3447
96	2438	106.5	2705	130	3302	7.5	5.59	30	22.37	50	37.28	8600	3901
120	3048	136.5	3467	154	3912	7.5	5.59	40	29.82	60	44.74	9700	4400

A		A		C		A-25		A-25		A-25		*Shipping Weight	
						500fpm	(152mpm)	1000fpm	(305mpm)	1500fpm	(457mpm)		
						in	mm	in	mm	in	mm		
6	152	16.5	419	40	1016	3	2.23	5	3.72	7.5	5.59	2700	1225
12	305	22.5	572	46	1168	3	2.23	5	3.72	7.5	5.59	3100	1406
18	457	28.5	724	52	1321	3	2.23	5	3.72	7.5	5.59	3800	1724
24	610	34.5	876	58	1473	5	3.72	7.5	5.59	10	7.46	4200	1905
36	914	46.5	1181	70	1778	5	3.72	7.5	5.59	15	11.18	5100	2313
48	1219	58.5	1486	82	2083	5	3.72	7.5	5.59	15	11.18	5800	2631
60	1524	70.5	1791	94	2388	5	3.72	10	7.46	20	14.90	6600	2994
72	1829	82.5	2096	106	2692	5	3.72	10	7.46	25	18.64	7600	3447
96	2438	106.5	2705	130	3302	5	3.72	15	11.18	30	22.37	8600	3901
120	3048	136.5	3467	154	3912	7.5	5.59	20	14.90	30	22.37	9700	4400

A		B		C		A-50		A-50		A-50		*Shipping Weight	
						500fpm	(152mpm)	1000fpm	(305mpm)	1500fpm	(457mpm)		
						in	mm	in	mm	in	mm		
6	152	16.5	419	40	1016	3	2.23	5	3.72	5	3.72	2700	1225
12	305	22.5	572	46	1168	3	2.23	5	3.72	7.5	5.59	3100	1406
18	457	28.5	724	52	1321	3	2.23	5	3.72	7.5	5.59	3800	1724
24	610	34.5	876	58	1473	3	2.23	5	3.72	7.5	5.59	4200	1905
36	914	46.5	1181	70	1778	5	3.72	7.5	5.59	10	7.46	5100	2313
48	1219	58.5	1486	82	2083	5	3.72	7.5	5.59	10	7.46	5800	2631
60	1524	70.5	1791	94	2388	5	3.72	7.5	5.59	15	11.18	6600	2994
72	1829	82.5	2096	106	2692	5	3.72	7.5	5.59	15	11.18	7600	3447
96	2438	106.5	2705	130	3302	5	3.72	10	7.46	20	14.90	8600	3901
120	3048	136.5	3467	154	3912	5	3.72	15	11.18	25	18.64	9700	4400

A		B		C		R		R		*Shipping Weight	
						500fpm	(152mpm)	1000fpm	(305mpm)		
						in	mm	in	mm		
6	152	16.5	419	40	1016	3	2.23	5	3.72	2700	1225
12	305	22.5	572	46	1168	3	2.23	5	3.72	3100	1406
18	457	28.5	724	52	1321	3	2.23	5	3.72	3800	1724
24	610	34.5	876	58	1473	5	3.72	7.5	5.59	4200	1905
36	914	46.5	1181	70	1778	5	3.72	7.5	5.59	5100	2313
48	1219	58.5	1486	82	2083	5	3.72	7.5	5.59	5800	2631
60	1524	70.5	1791	94	2388	5	3.72	10	7.46	6600	2994
72	1829	82.5	2096	106	2692	5	3.72	10	7.46	7600	3447
96	2438	106.5	2705	130	3302	5	3.72	15	11.18	8600	3901
120	3048	136.5	3467	154	3912	7.5	5.59	20	14.90	9700	4400

Shipping weights include largest motor. Dimensions and specifications are subject to change without notice.



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