



CONVEYOR LINE MAGNETS

DRUM SEPARATOR

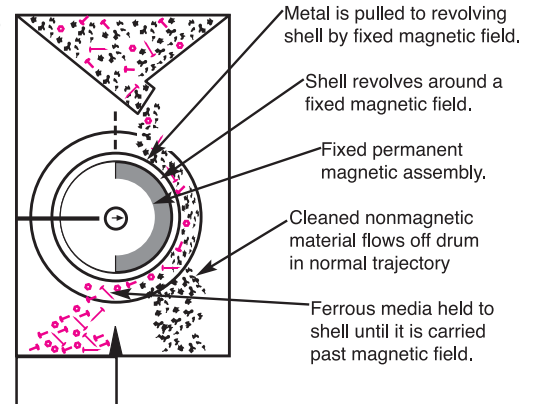
Ideal for high volume ferrous metal separation to Improve Product Purity and Protect Processing Equipment from Ferrous Metal Damage

IMI's Drum Separators provide ferrous metal removal from dry, bulk products in free-flowing processing systems. Due to the nature of their design, Drum Separators are continuously self-cleaning units. These separators can be provided as a complete assembly with the housing and the drive package included or as the magnetic drum only.

Material to be processed enters the top of the housing and flows across the surface of the drum. As the drum shell rotates around the stationary magnetic field, all non-ferrous product which is unaffected by the magnet, falls free from the drum into the cleaned material flow. Any ferrous tramp metal is captured by the magnetic field and is held on the drum's surface. As the drum rotates, the metal is carried past the diverter and released outside of the magnetic field.

Special Considerations:

Smooth, uniform and consistent presentation of the product to the drum's surface has a direct effect on the separator's ability to efficiently separate tramp metal from the product flow. For the best separation results a vibratory feeder is often recommended to introduce a uniform product flow across the entire surface width of the drum



FEATURES:

- » Stainless Steel Drum Shell
- » 52 MGOe Rare Earth or Ceramic 8 Magnetic Circuit
- » Manually adjustable magnetic arc position
- » Drum diameters from 12" to 24" available
- » Drum Widths Available from 12" to 60"
- » Three (3), 1/2" Wiper Strips
- » TG & P Mild Steel Shaft
- » 240/480V AC Gearmotor
- » Inlet and Discharge Mounting Flanges
- » Inlet transition to direct product flow
- » Fixed diverter to separate cleaned product and collected tramp metal.
- » Access Doors for Inspection and Drum Removal
- » Sealed Bearings for Drum Support and Drive
- » Welded Housings: Mild Steel for Ceramic Drums and Stainless Steel for Rare Earth Drums

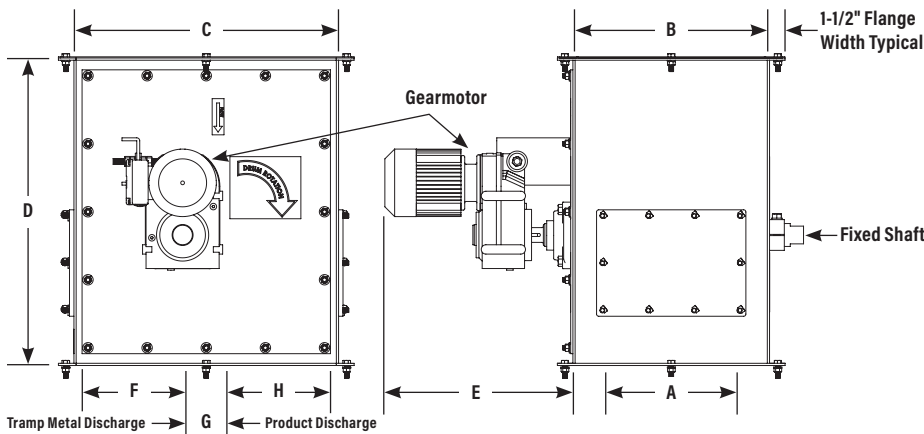
OPTIONS:

- » Custom Diameters and Widths
- » Stainless Steel Drum Shaft
- » Adjustable Inlet Opening
- » Special Magnetic Circuits for Reach Out or Holding
- » Stainless Steel Housings for Ceramic Drums
- » Special Inlet for Vibratory Feeder Interface
- » Up to 60" diameter available without housing
- » Multiple Drum Assemblies
- » Fine Particle Discharge
- » Custom Inlet and Discharge Transitions
- » Special Voltage Motors and Drive Packages
- » Abrasion Resistant Facing
- » Zero Speed Switch
- » Adjustable discharge diverter

TOLL FREE 1.888.582.0821 imi@magnetics.com



Drum Separator Specifications:



12" Diameter Drum (Standard 45 RPM and 1-1/2" Inlet)

MODEL	A	B	C	D	E	F	G	H	WEIGHT (LBS.)	HORSEPOWER
MDS1212(C/R)	12	16.25	22	26	15	8.50	3	10.50	280	0.5
MDS1224(C/R)	24	28.25	22	26	15	8.50	3	10.50	560	0.5
MDS1236(C/R)	36	40.25	22	26	15	8.50	3	10.50	660	0.5

15" Diameter Drum (Standard 40 RPM and 2" Inlet)

MODEL	A	B	C	D	E	F	G	H	WEIGHT (LBS.)	HORSEPOWER
MDS1512(C/R)	12	16.25	25	30	15	10	3	12	350	0.5
MDS1524(C/R)	24	28.25	25	30	15	10	3	12	700	0.5
MDS1536(C/R)	36	40.25	25	30	18	10	3	12	825	1

18" Diameter Drum (Standard 35 RPM and 2-1/2" Inlet)

MODEL	A	B	C	D	E	F	G	H	WEIGHT (LBS.)	HORSEPOWER
MDS1812(C/R)	12	16.25	28	36	15	11.50	3	13.50	435	0.5
MDS1824(C/R)	24	28.25	28	36	18	11.50	3	13.50	750	1
MDS1836(C/R)	36	40.25	28	36	18	11.50	3	13.50	970	1

24" Diameter Drum (Standard 30 RPM And 3" Inlet)

MODEL	A	B	C	D	E	F	G	H	WEIGHT (LBS.)	HORSEPOWER
MDS2418(C/R)	18	25	38	48	18	13.50	5	19.50	1265	1
MDS2424(C/R)	24	31	38	48	18	13.50	5	19.50	1375	1
MDS2436(C/R)	36	43	38	48	20	13.50	5	19.50	1800	1.5

NOTE: All dimensions are stated in inches. Models end in "C" for Ceramic or "R" for Rare Earth magnet material. Example: MDS1212R for a Rare Earth Drum Separator

Volumetric Flow Rates

MODEL	FT ³ /HR. BY BURDEN DEPTH								
	1/16"	1/8"	1/4"	1/2"	1"	1-1/2"	2"	2-1/2"	3"
MDS1212	44	88	177	353	707	1,060	1,414	1,767	2,121
MDS1224	88	177	353	707	1,414	2,121	2,827	3,534	4,241
MDS1236	133	265	530	1,060	2,121	3,181	4,241	5,301	6,362
MDS1512	49	98	196	393	785	1,178	1,571	1,964	2,356
MDS1524	98	196	393	785	1,571	2,356	3,142	3,927	4,713
MDS1536	147	295	589	1,178	2,356	3,534	4,713	5,891	7,069
MDS1812	52	103	206	412	825	1,237	1,649	2,062	2,474
MDS1824	103	206	412	825	1,649	2,474	3,299	4,123	4,948
MDS1836	155	309	619	1,237	2,474	3,711	4,948	6,185	7,422
MDS2418	88	177	353	707	1,414	2,121	2,828	3,534	4,241
MDS2424	118	236	471	943	1,885	2,828	3,770	4,713	5,655
MDS2436	177	353	707	1,414	2,828	4,241	5,655	7,069	8,483

NOTE: Consult with the factory for applications with the flow rates listed in shaded boxes.