



## Magnetic Drum Separator

Designed for High-Flow and Bulk Materials for Continuous Removal

Drum Magnets and Drum Separators are self-cleaning and provide continuous removal of ferrous contaminants from a wide range of free-flowing bulk and granular materials in high-volume applications.

When material flows onto the drum magnet, a stationary magnetic assembly inside the unit's shell captures tramp metal and holds it securely to the drum's stainless steel surface. With contaminants removed, the good product falls freely to a discharge point. As the drum rotates, cleats sweep the ferrous debris through and out of the magnetic field. The tramp metal is discharged separately, creating continuous self-cleaning separation.

### Specific features:

- Designed for continuous separation and cleaning without interrupting the product flow.
- Ideal for high-flow, heavy contamination applications.
- Stainless steel drum, mild-steel or stainless steel housings.
- Ceramic and High-Intensity (NHI) Rare Earth magnets are available.



Drum Magnet



Drum Magnet with housing

### SPECIFICATIONS

**General material:** 302/304 stainless steel drum cover, 11 gauge mild steel housing with .6cm x 5cm flanges. Stainless steel housings are optional.

**Magnet material:** High-design Ceramic permanent magnet is standard. Rare Earth magnets are available.

**Magnet design:** Stationary Ceramic or Rare Earth magnetic assembly inside rotating drum shell.

**Contaminant removal:** Ferrous fragments, nuts, bolts, and other tramp metal from free-flowing granular material.

**Method of cleaning:** Continuous self-cleaning design.

**Capacity:** Estimated at 61 to 3048 cubic meters per hour and more.

**Sizes:** Standard 30cm to 61cm diameters with various face widths.



## Magnetic Drum Separator

To find the Drum Separator you need, search the table for the handling capacity closest to your requirements. Flow capacities represent a maximum flow rate and are assumed to be for separation of general tramp iron. Select a unit whose rated capacity you will not exceed.

To determine what size unit you need to separate ferrous fines, use only 20% to 25% of the listed capacity. For optimum separation of fines, we recommend a shallow depth of flow to create a thin, uniform layer of moving product. With the further addition of Rare Earth magnets, you can achieve maximum separation efficiency.

### Drum Separators with Housings

Dimensions in centimeters, capacities in cubic meters per hour  
Operate at 45 rpm

Model No.	Dia.	Len.	Cap.	A	B	C	D	E	F	HP
DSH1212	30	30	305	69	37	56	15	28	14	1/3
DSH 1218	30	46	457	69	52	56	15	43	14	1/3
DSH 1224	30	61	610	69	67	56	15	58	14	1/3
DSH 1230	30	76	762	69	83	56	15	74	14	1/2
DSH 1236	30	91	914	69	98	56	15	89	14	1/2

Operate at 35 rpm

Model No.	Dia.	Len.	Cap.	A	B	C	D	E	F	HP
DSH 1812	46	30	488	84	37	71	15	28	15	1/2
DSH 1818	46	46	732	84	52	71	15	43	15	1/2
DSH 1824	46	61	975	84	67	71	15	58	15	1/2
DSH 1830	46	76	1219	84	83	71	15	74	15	3/4
DSH 1836	46	91	1463	84	98	71	15	89	15	3/4
DSH 1842	46	107	1707	84	113	71	15	104	15	3/4
DSH 1848	46	122	1951	84	128	71	15	119	15	3/4

Operate at 30 rpm

Model No.	Dia.	Len.	Cap.	A	B	C	D	E	F	HP
DSH 2418	61	46	1106	102	56	97	20	43	17	3/4
DSH 2424	61	61	1341	102	71	97	20	58	17	3/4
DSH 2430	61	76	1676	102	86	97	20	74	17	1
DSH 2436	61	91	2012	102	102	97	20	89	18	1
DSH 2442	61	107	2347	102	117	97	20	104	17	1
DSH 2448	61	122	2682	102	132	97	20	119	17	1
DSH 2454	61	137	3048	102	147	97	20	135	17	1

### Drum Separators without Housings

Dimensions in centimeters, capacities in cubic meters per hour  
Operate at 45 rpm

Model No.	Dia.	Len.	Cap.	G	H	I	J	K	L	HP
DS 1212	30	30	305	35	13	18	65	4	36	1/3
DS 1218	30	46	457	50	13	18	88	4	36	1/3
DS 1224	30	61	610	65	13	18	96	4	36	1/3
DS 1230	30	76	762	80	13	18	111	4	36	1/2
DS 1236	30	91	914	96	13	18	126	4	36	1/2

Operate at 35 rpm

Model No.	Dia.	Len.	Cap.	G	H	I	J	K	L	HP
DS 1812	46	30	488	36	15	20	72	6	51	1/2
DS 1818	46	46	732	51	15	20	87	6	51	1/2
DS 1824	46	61	975	67	15	20	102	6	51	1/2
DS 1830	46	76	1219	82	15	20	117	6	51	3/4
DS 1836	46	91	1463	97	15	20	133	6	51	3/4
DS 1842	46	107	1707	112	15	20	148	6	51	3/4
DS 1848	46	122	1951	128	15	20	163	6	51	3/4

Operate at 30 rpm

Model No.	Dia.	Len.	Cap.	G	H	I	J	K	L	HP
DS 2418	61	46	488	36	20	25	82	7	66	3/4
DS 2424	61	61	732	51	20	25	97	7	66	3/4
DS 2430	61	76	975	67	20	25	112	7	66	1
DS 2436	61	91	1219	82	20	25	128	7	66	1
DS 2442	61	107	1463	97	20	25	143	7	66	1
DS 2448	61	122	1707	112	20	25	158	7	66	1
DS 2454	61	137	1951	128	20	25	173	7	66	1

