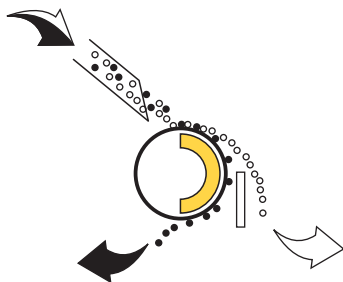


Dry Drum Separator DDS



The main applications of the **DDS** dry Drum Magnet Separator include purification of raw materials in the glass, tile, ceramic, food, recycling, casting, and steel foundry industries. Additionally, it is widely used for iron ore concentration and ferroalloy processing. Apart from that conventional application this type of the separator has found a wide range of other applications such as:

- Iron and steel slag treatment
- Calcined ilmenite production
- Metal powder production
- Removal of ferromagnetic particles before high intensity magnetic separation

Efficient separation can be achieved for particle sizes ranging from 0.01 to 30 mm. By combining separators with adjustable drum speed, it is often possible to produce clean concentrate, middlings, and tailings as separate products.

DDS series dry drum magnet separators are designed for the continuous separation of fine ferrite contaminants from materials fed into the drum. The Drum Magnet Separator features a 210-degree magnetic arc housed within a wear-resistant stainless-steel shell, enclosed with aluminum alloy end caps. The drum shell and caps rotate at a specific speed around the fixed magnetic arc.

DDS dry drum magnets can be assembled using either ceramic magnets (LIMS) or neodymium magnets (MIMS), each producing

different magnetic forces with varying intensities and gradients. DDS drum magnets are available in two magnetic pole configurations: radial and axial types. The magnetic drum assembly is enclosed in a dust-proof housing, open at the bottom for the discharge of magnetic and non-magnetic products. These two product streams are separated by a splitter positioned beneath the drum inside the housing. The housing is also equipped with a feed chute and a manually adjustable gate to control the feed layer thickness. The entire unit can be dust-vented by connecting the plant's exhaust system to the outlet provided on the housing. Areas of the housing exposed to wear are typically protected with replaceable wear-resistant liners.

For ease of installation and maintenance, the housing is designed for quick dis-assembly. The drum shell is fitted with a replaceable wear-resistant non-magnetic stainless-steel. Key factors influencing separation efficiency include drum speed, splitter position, type of magnetic elements, and pole configuration.

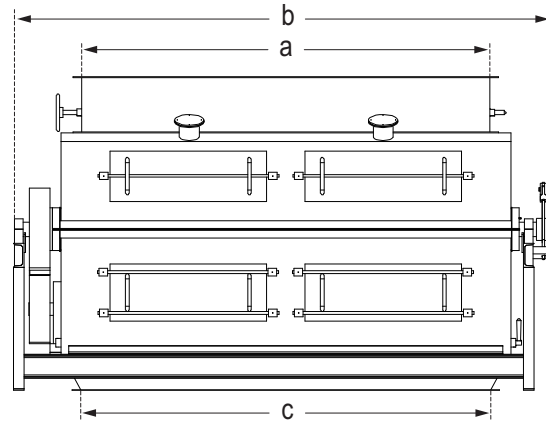
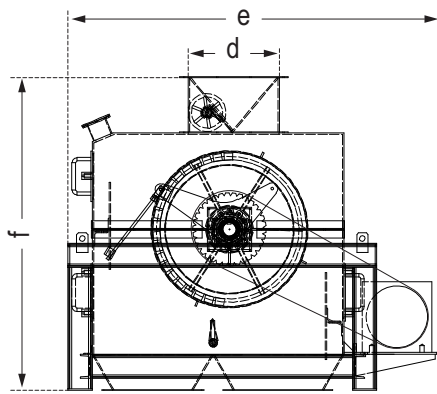
DDS Dry Drum Magnet features

- A single drum magnet, without housing, can be installed at the discharge end of chutes, conveyors, vibratory feeders, or similar conveying equipment for iron removal and product purification.
- The drum housing can be custom designed to accommodate space limitations.
- The inlet is equipped with a diverter to ensure the product flows directly over the magnet face.
- High volume throughputs.
- The continuous cleaning system discharges separated ferrous contaminants away from the product flow.
- Requires minimal spare parts.



Dry Drum Separator

DDS



Model	Drum Dia.	Drum Len. L	Motor	Weight Approx	Dimensions					
					a	b	c	d	e	f
	mm	mm	kw	kg	mm					
DDS 30/50	300	500	0.75	450	500	1,000	500	300	1,050	1,400
DDS 40/50	400	500	1.1	550	500	1,000	500	350	1,250	1,500
DDS 40/80		800	1.5	750	800	1,300	800			
DDS 40/100		1,000	1.5	850	1,000	1,500	1,000			
DDS 60/100	600	1,000	4	1,750	1,000	1,500	900	400	1,850	1,600
DDS 60/120		1,200	5.5	2,050	1,200	1,700	1,100			
DDS 60/150		1,500	5.5	2,300	1,500	2,000	1,400			
DDS 90/100	900	1,000	9.2	2,300	1,000	1,500	900	400	2,550	1,900
DDS 90/120		1,200	11	3,100	1,200	1,700	1,100			
DDS 90/150		1,500	15	3,750	1,500	2,000	1,400			
DDS 90/200		2,000	15	4,550	2,000	2,500	1,900			
DDS 90/250		2,500	18.5	5,300	2,500	3,000	2,400			
DDS 120/120	1,200	1,200	15	4,000	1,200	1,700	1,050	400	2,550	2,100
DDS 120/150		1,500	18.5	4,600	1,500	2,000	1,350			
DDS 120/200		2,000	18.5	5,600	2,000	2,500	1,850			
DDS 120/250		2,500	22	6,550	2,500	3,000	2,350			