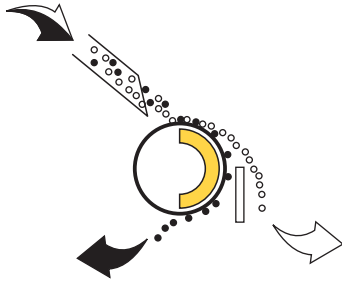


# Dry Drum Separator

# DDS



The main application of Dry Drum Magnet separator includes purification of raw materials in Glass, Tile, Ceramic, Food, Recycling, Casting and steel foundry industries, beside that it can be used widely for Iron ore Concentration or Ferro Alloy treatment. Apart from that conventional application this type of separator has found a wide range of other applications such as:

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

The particle size of efficient separation can be applied on particle sizes in the range of 0.01 to 30mm. By combining separators with the different drum speeds it is often possible to get clean concentrate, middlings and tailings as separate products.

#### DDS Feature and Applications:

DDS series dry drum magnet separators are usable for continuous separation of fine Ferrite contaminations among of materials input the drum. Drum Magnet Separator consist of 210 degree magnetic arc assembled inside of wear resistance stainless steel shell which has been inhabited by aluminum

alloy caps. The Drum shell and caps rotate with specific rate around the fixed magnetic arc. DDS dry drum magnets can be assembled by Ceramic Magnet (LIMS) and Neodymium Magnet (MIMS), which definitely has created variant magnetic force accompanied by difference intensity and gradient. DDS drum magnets have two type magnet configurations in parallel and disk type. The magnetic drum assembly is contained in a dust proof housing opened at the bottom for discharge of magnetic and non-magnetic products. The two products are parted by means of splitter, placed under the drum inside the housing. Housing equipped to chute and manual adjustable gate to control of feeding thickness. The whole unit can be dust vented by connecting the plant exhaust system to the outlet provided on the housing. Parts of the housing exposed to wear are normally protected by replaceable wear resistance sheets. For erection and maintenance the housing is easily dismantled. The drum shell is accompanied with a replaceable thin wear resistant non-magnetic stainless steel cover. A significant factor on separation efficiency includes Drum speed, Splitter location, Magnet elements type and configuration.

#### Advantage of Dry Drum Magnet:

- A single Drum Magnet, without housing, can be installed at the discharge end of chutes, conveyors or vibratory feeders or similar conveying machines for the removal of iron in order product purification.
- The drum housing can be designed to suit space limitation.
- Inlet has a fixed diverter in order to product directly flow over magnet.
- High volume throughputs.
- Continuous cleaning discharges ferrous contaminants separate from product flow.
- Minimal spare parts required.



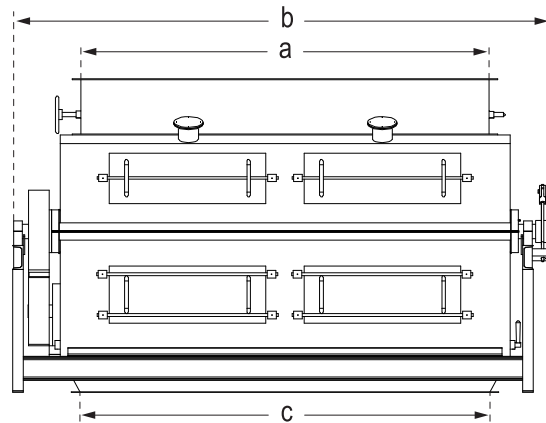
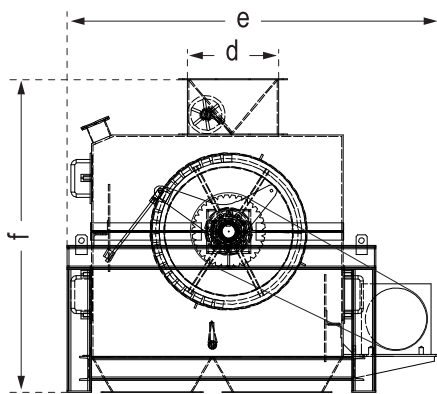
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June 2023

# Dry Drum Separator DDS



Model	Drum Dia.	Drum Len. L	Motor	Weight Approx	Dimensions					
					a	b	c	d	e	f
					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	900	2,000	15	4,550	2,000	2,500	1,900	400	2,550	1,900
DDS 90/250		2,500	18.5	5,300	2,500	3,000	2,400			
DDS 120/120		1,200	15	4,000	1,200	1,700	1,050			
DDS 120/150	1,200	1,500	18.5	4,600	1,500	2,000	1,350	400	2,550	2,100
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			



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