Horizontal Material Separator (HMS)

- **Decreased vertical footprint compared to conventional separators**
- **Better interior access keeping operators safe during cleaning and maintenance**
- **Equipment design allows for easier mounting of explosion panel**
- **Tangential inlet over the top allows the gas-solid mixture to fan out across the main housing unit**
- **The attached transition cone acts as the point of dropout**

Application

The Horizontal Material Separator (HMS) cyclone separates conveyed material from the conveying airstream, minimizing the amount of air that exits with discharge material. The horizontal cyclone design is similar to a standard cyclone however; the main housing unit is turned 90° with both cylinder ends capped. Functionality of the HMS is also proven to have comparable efficiencies to a standard cyclone. Testing has confirmed that minimal carryover takes place while conveying with an HMS. The HMS is ideal for handling large and small kibble, large flakes and fish feed.

Features

- Interior product contact welds ground smooth to resist buildup, free of cracks and crevices
- Exterior welds are continuous, cleaned of weld slag and splatter, and safe and sealed from harmful contaminants
- Tool free access door located on opposite end of inlet makes operation easy and safe

Materials of Construction

- Housing and hopper: 10 gauge stainless steel construction
- Full welded exterior and interior
- Housing/Hopper/Tangential: fully welded on outside and inside
- Exhaust: 10 gauge or Schedule 10 pipe, stainless steel construction

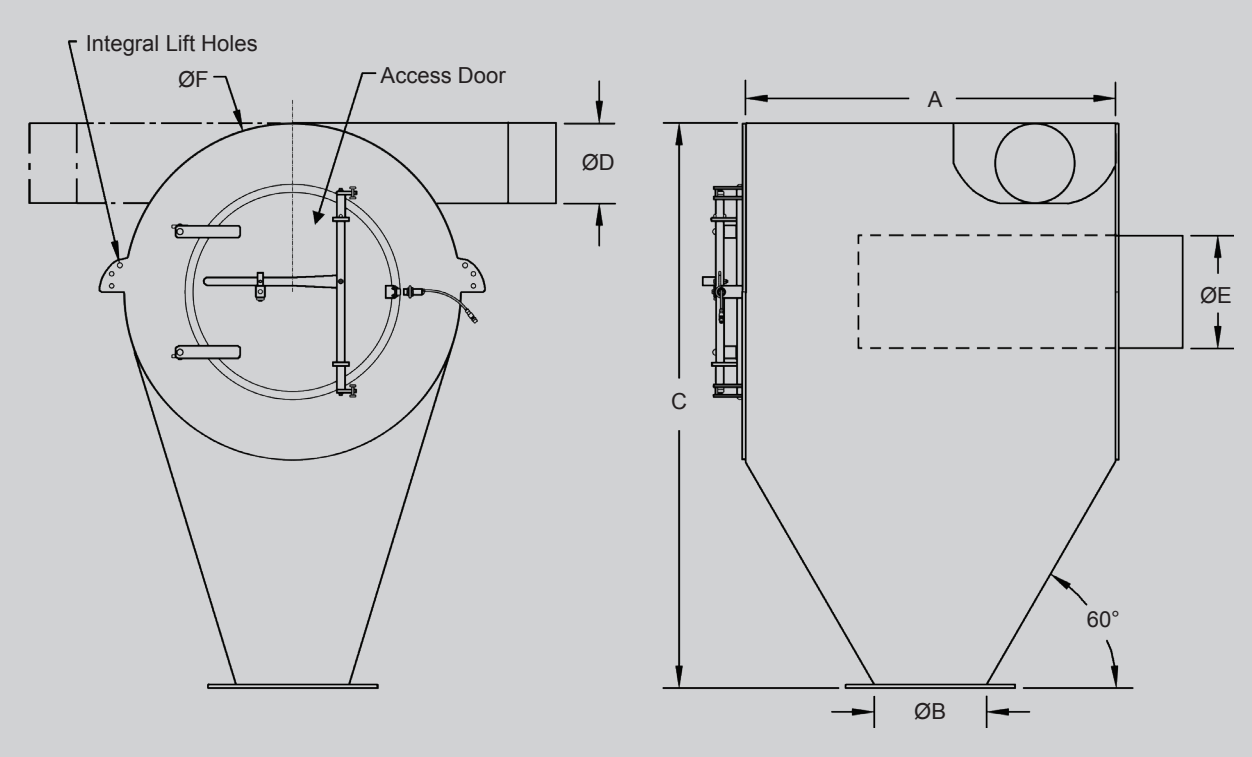
Major Components

- Combination lift lugs and mount (4 each)
- Tangential inlet-diffuser
- Housing
- Hopper
- Flanged product discharge
- Horizontal exhaust

Options

- 304 or 316 stainless steel construction or carbon steel
- Inlet: Tube or Schedule 10 pipe
- Clockwise or counterclockwise tangential inlet (as viewed from exhaust)
- Extended wear housing (standard housing is 10 gauge, extended wear is 0.25” thick)
- Small or large product outlet
- Hinge location – Access door: left or right

Dimensions



Model	Dimensions – inches (mm)					
	A	B	C	D	E	F
HMS 40	22” (559 mm)	6” (152 mm)	34” (864 mm)	4” (102 mm)	6” (152 mm)	20” (508 mm)
		8” (203 mm)	33” (838 mm)			
HMS 60	30” (762 mm)	8” (203 mm)	48” (1,219 mm)	6” (152 mm)	10” (254 mm)	28” (711 mm)
		10” (254 mm)	46” (1,168 mm)			
HMS 80	38” (965 mm)	10” (254 mm)	61” (1,549 mm)	8” (203 mm)	12” (305 mm)	36” (914 mm)
		12” (305 mm)	59” (1,499 mm)			
HMS 100	46” (1,168 mm)	12” (305 mm)	72” (1,829 mm)	10” (254 mm)	14” (356 mm)	42” (1,067 mm)
		14” (356 mm)	70” (1,778 mm)			
HMS 120	54” (1,372 mm)	12” (305 mm)	85” (2,159 mm)	12” (305 mm)	16” (406 mm)	48” (1,219 mm)
		14” (356 mm)	83 (2,108 mm)			
HMS 140	62” (1,575 mm)	14” (356 mm)	97” (2,464 mm)	14” (356 mm)	18” (457 mm)	55” (1,397 mm)
		16” (406 mm)	96” (2,438 mm)			
HMS 160	70” (1,778 mm)	14” (356 mm)	109” (2,769 mm)	16” (406 mm)	20” (508 mm)	60” (1,524 mm)
		16” (406 mm)	107” (2,718 mm)			

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