

# Auto-Shuttle Magnet Double Row



High Intensity – Rare Earth

## Technical Data

Datasheet No. 512



The Eclipse Magnetics Auto-Shuttle magnetic separator enables screening of processed products 24 hours a day, seven days a week, without the need for manual intervention. The system can even carry out a full clean without the need to stop the process.

The unit is supplied with a pre-programmed PLC that can either work independently or connected to the central control rooms system for remote activation or monitoring etc.

There are reed switches fitted to each end of the separator tubes to indicate the position of each magnetic core. The full system remains air tight throughout normal operation making it suitable for environments where ATEX equipment is required.

### Cleaning

The magnetic cores remain in the process chamber until a cleaning signal is given. Then compressed air is fed into each separator tube forcing the core to the other end of the unit.

The contamination follows the core, which first passes through the product return chamber, which prevents loss of good product, and into the cleaning chamber where the collected contamination is deposited.

The cleaning chamber is fitted with a transition piece, which allows a collection container to be fitted. It is this container that is removed to assess the collected contamination.

### Suitable Products

Dry powders and granulates, flour, sugar, herbs and salt, etc

### Suitable Locations

Any vertical process line.

### Benefits

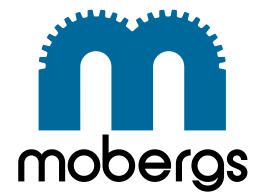
- Fully autonomous in operation
- Reduces 'spark' risk
- Suitable for control room connection
- Removes micron sized contaminants
- Meet audit requirements
- Rare earth 9.000 Gauss

### Category

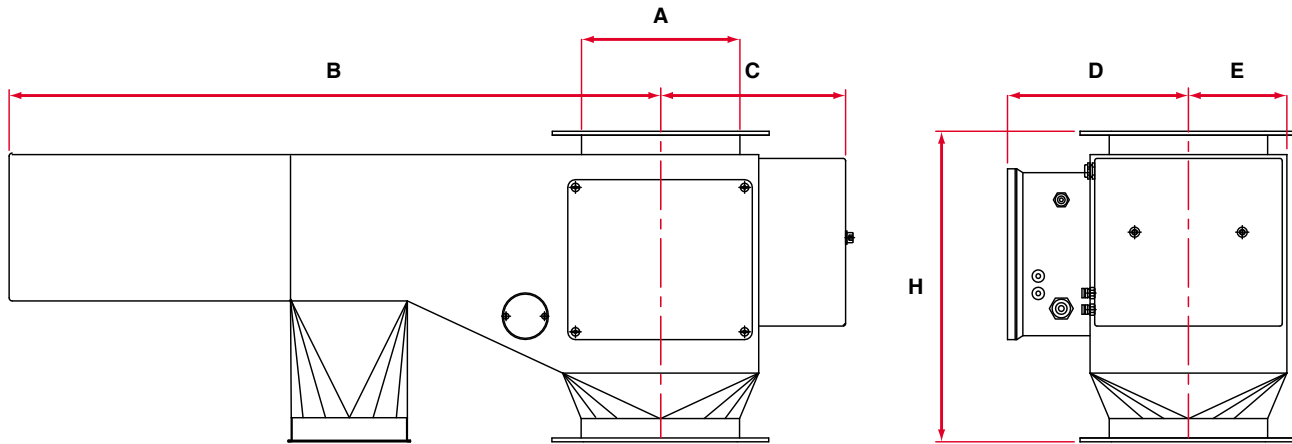
Secondary.



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## Sizes

Part No.	Inlet / Outlet A	B	C	D	E	Height H	No. Rods	Weight (kg)
<b>Round</b>								
ASHD150	150 mm / 6" Ø	775	217	215	103	400	3 + 2	31
ASHD200	200 mm / 8" Ø	850	242	240	128	400	3 + 2	38
ASHD250	250 mm / 10" Ø	925	267	265	153	400	4 + 3	47
ASHD300	350 mm / 14" Ø	1000	292	290	178	400	5 + 4	58
ASHD350	350 mm / 14" Ø	1075	317	315	203	400	6 + 5	69
ASHD400	450 mm / 18" Ø	1150	342	340	228	400	7 + 6	81
ASHD450	450 mm / 18" Ø	1225	367	365	253	400	8 + 7	96

## Square

ASHD1515	150 mm / 6" Sq	192	192	190	78	350	2 + 2	24
ASHD2020	200 mm / 8" Sq	217	217	215	103	350	3 + 2	28
ASHD2525	300 mm / 12" Sq	242	242	240	128	350	3 + 2	35
ASHD3030	300 mm / 12" Sq	267	267	265	153	350	4 + 3	43
ASHD3535	400 mm / 16" Sq	292	292	290	178	350	5 + 4	52
ASHD4040	400 mm / 16" Sq	317	317	315	203	350	6 + 5	61
ASHD4545	450 mm / 18" Sq	342	342	340	228	350	7 + 6	74

All dimensions in mm

## Performance

<b>Magnetic performance</b>	9.000 Gauss high strength
<b>Performance reading</b>	On tube surface
<b>Magnetic material</b>	Rare earth neodymium iron boron
<b>Magnet grade</b>	N45 – Inspected and confirmed via hystergaph prior to use
<b>Temperature</b>	-20°C / +60°C
<b>Pressure</b>	+ / - 0.2 Bar

## Materials

<b>Housing</b>	316 grade stainless steel
<b>Tubing</b>	316 grade stainless steel – aerospace quality
<b>Other Parts</b>	316 grade stainless steel
<b>Surface finish</b>	Brushed internally / externally to 1.2µm
<b>Sealing</b>	Self adhered white foam
<b>PLC</b>	Crouzet, pre-programmed

## Options

High temperature samarium cobalt magnetic material +250°C	
Overpressure to +5 Bar	Siemens, Mitsubishi or Allen Bradley PLC
304 grade stainless steel	Pharmaceutical specification
ATEX certified	Metal detectable silicon rubber seal – dark blue, FDA approved
Flanged to suit	Single, triple and quad row units available

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