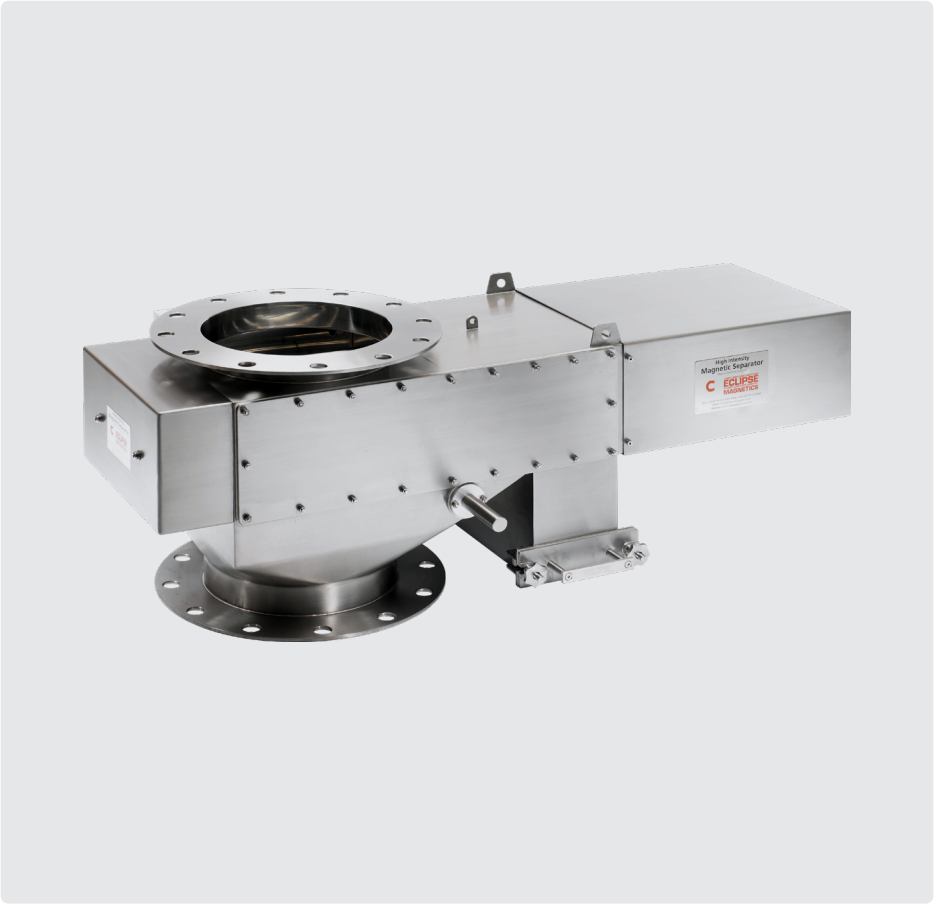
Auto-Shuttle

ECLIPSE MAGNETICS

At A Glance

- **Protection: Secondary**
- **Feed Type: Gravity**
- **Material Type: NdFeb**
- **Cleaning Type: Automatic**



Our 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.

Benefits

- Fully autonomous in operation
- Reduces 'spark' risk
- Removes micron sized contaminants
- Suitable for control room connection

Performance

Magnetic Performance	7000, 9000 and 10000 Gauss
Performance Reading	On tube surface
Magnet Grade	N35 & N45 – Inspected and confirmed via hysterograph prior to use
Temperature	-5°C / +40°C
Pressure	+ / - 0.2 Bar

Suitability

Suitable Products	Dry powders and granulates, flour, sugar and salt
Suitable Location	Any vertical process line

Options

- Pharmaceutical specification
- Flanged to suit
- Metal detectable seal
- Siemens, Mitsubishi or Allen Bradley PLC
- Higher temperature versions available

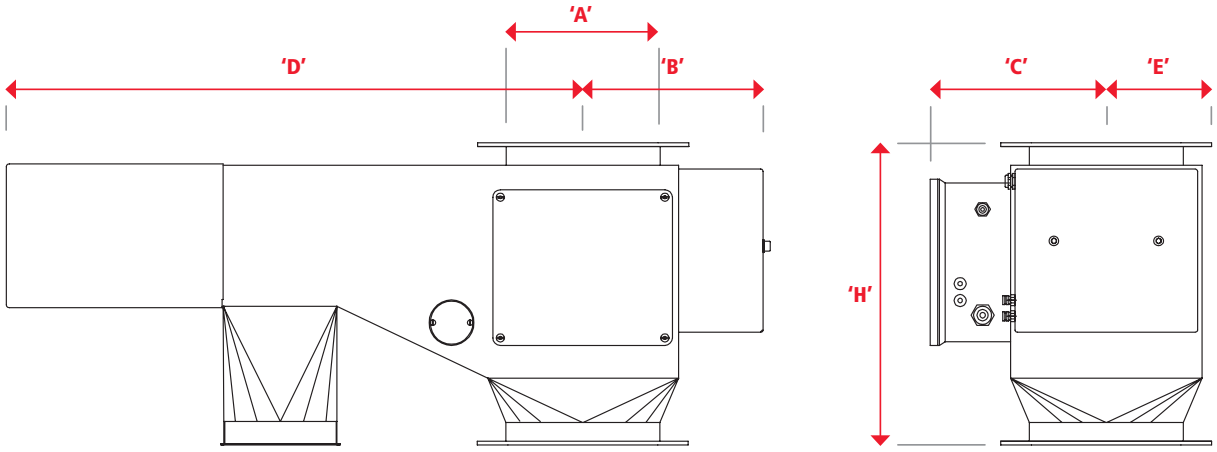
Materials

Magnetic Material	Rare Earth Neodymium Iron Boron - (NdFeb)
Housing	316 grade stainless steel
Tubing	316 grade stainless steel
Other Parts	316 grade stainless steel
Sealing	Self adhered white foam
Surface Finish	Brushed internally / Polished externally to 1.2µm
PLC	Cruzet

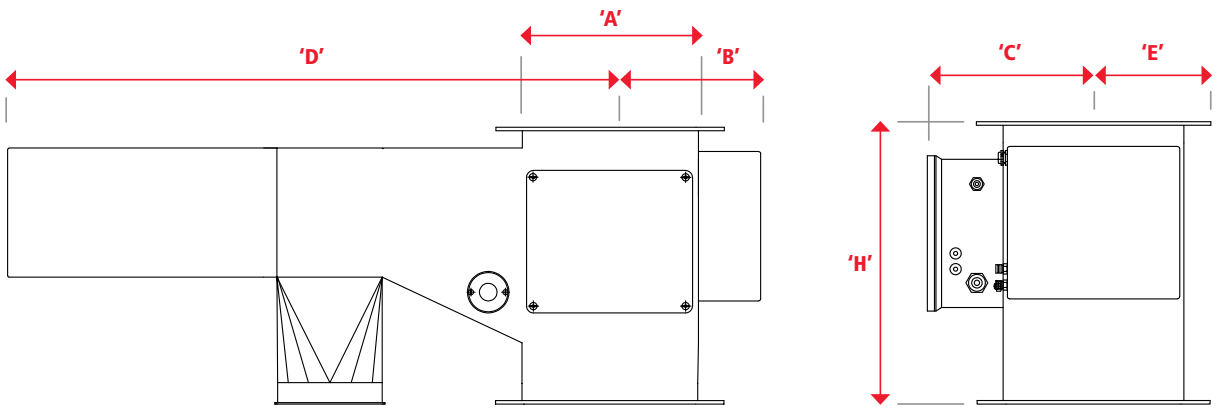
Cleaning

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.

Auto-Shuttle Double Row



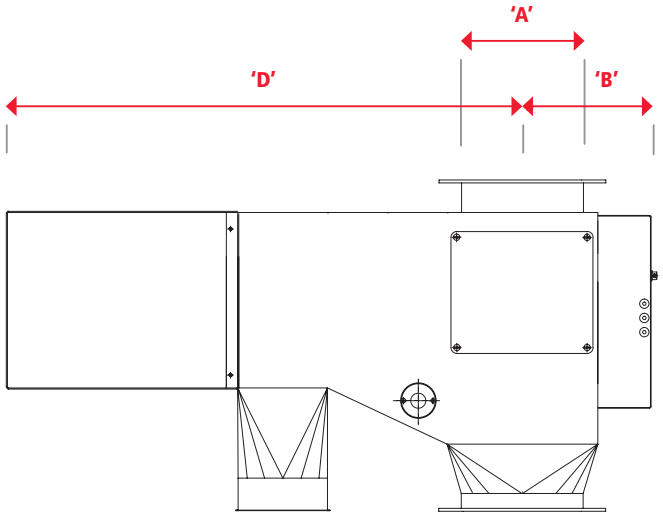
Part Number (Round)	Inlet / Outlet A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	Number Of Rods
ASHD150	150	213	263	787	115	400	3 + 2
ASHD200	200	238	288	837	140	400	3 + 2
ASHD250	250	263	313	887	165	400	4 + 3
ASHD300	300	288	338	937	190	400	5 + 4
ASHD350	350	313	363	987	215	400	6 + 5
ASHD400	400	338	388	1037	240	400	7 + 6
ASHD450	450	363	413	1087	265	400	8 + 7
ASHD500	500	388	438	1137	290	400	9 + 8
ASHD550	550	413	463	1187	315	400	10 + 9
ASHD600	600	438	488	1237	340	400	11 + 10

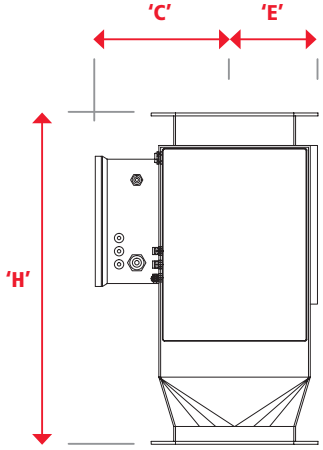


Part Number (Square)	Inlet / Outlet A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	Number Of Rods
ASHD1515	150	185	238	817	115	350	2 + 1
ASHD2020	200	210	263	867	140	350	3 + 2
ASHD2525	250	235	288	917	165	350	4 + 3
ASHD3030	300	260	313	967	190	350	5 + 4
ASHD3535	350	285	338	1017	215	350	6 + 5
ASHD4040	400	310	363	1067	240	350	7 + 6
ASHD4545	450	335	388	1117	265	350	7 + 6
ASHD5050	500	360	413	1167	290	350	8 + 7
ASHD5555	550	385	438	1217	315	350	9 + 8
ASHD6060	600	410	463	1267	340	350	10 + 9

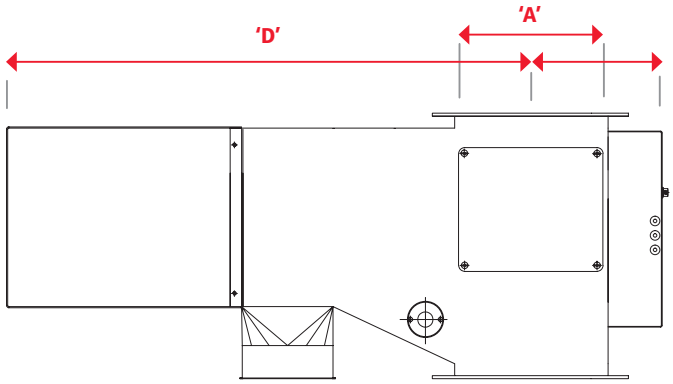
Note: Dimension E is given from the process centreline to the outer edge of the flange

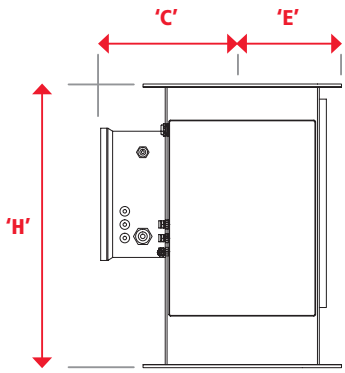
Auto-Shuttle Triple Row





Part Number (Round)	Inlet / Outlet A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	Number Of Rods
ASHT150	150	213	263	787	115	500	2 + 3 + 2
ASHT200	200	238	288	837	140	500	2 + 3 + 2
ASHT250	250	263	313	887	165	500	3 + 4 + 3
ASHT300	300	288	338	937	190	500	4 + 5 + 4
ASHT350	350	313	363	987	215	500	5 + 6 + 5
ASHT400	400	338	338	1037	240	500	6 + 7 + 6
ASHT450	450	363	413	1087	265	500	7 + 8 + 7
ASHT500	500	388	438	1137	290	500	8 + 9 + 8
ASHT550	550	413	463	1187	315	500	9 + 10 +9
ASHT600	600	438	488	1237	340	500	10 + 11 + 10



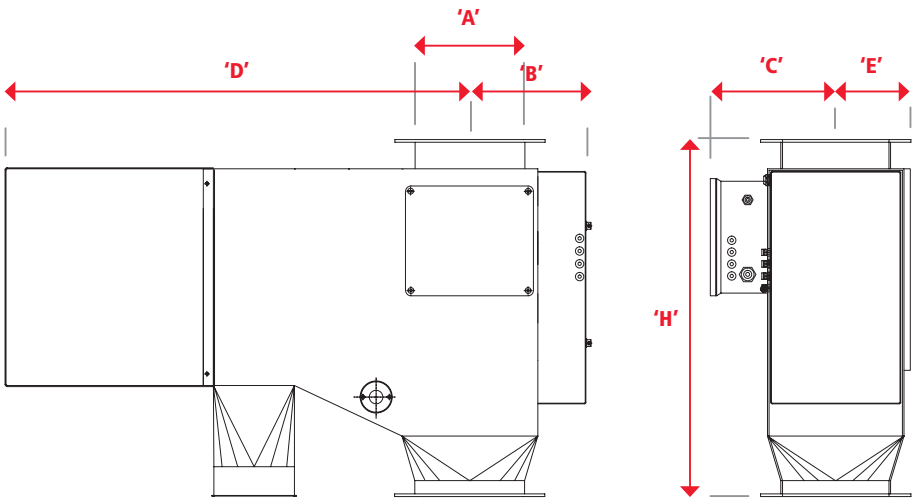


Part Number (Square)	Inlet / Outlet A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	Number Of Rods
ASHT1515	150	185	238	817	115	450	1 + 2 + 1
ASHT2020	200	210	263	867	140	450	2 + 3 + 2
ASHT2525	250	235	288	917	165	450	3 + 4 + 3
ASHT3030	300	260	313	967	190	450	4 + 5 + 4
ASHT3535	350	285	338	1017	215	450	5 + 6 + 5
ASHT4040	400	310	363	1067	240	450	6 + 7 + 6
ASHT4545	450	335	388	1117	265	450	7 + 8 + 7
ASHT5050	500	360	413	1167	290	450	8 + 9 + 8
ASHT5555	550	385	438	1217	315	450	9 + 10 + 9
ASHT6060	600	410	463	1267	340	450	10 + 11 + 10

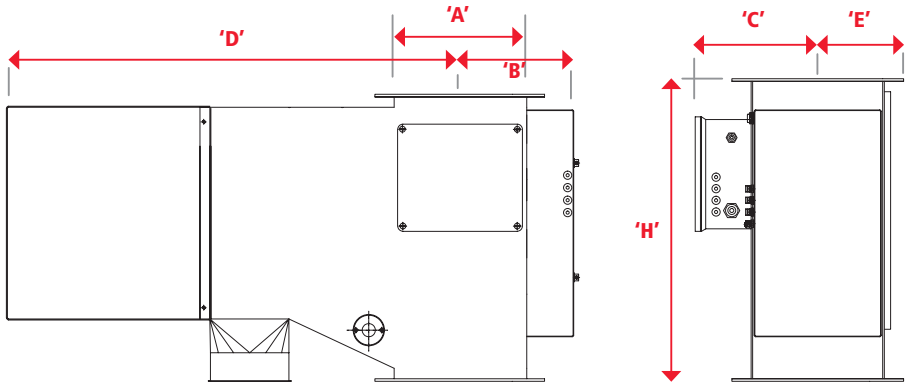
For non-standard sizes, please contact info@mobergs.com

Note: Dimension E is given from the process centreline to the outer edge of the flange

Auto-Shuttle Quadruple Row



Part Number (Round)	Inlet / Outlet A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	Number Of Rods
ASHQ150	150	213	263	787	115	600	3 + 2 + 3 + 2
ASHQ200	200	238	288	837	140	600	3 + 2 + 3 + 2
ASHQ250	250	263	313	887	165	600	4 + 3 + 4 + 3
ASHQ300	300	288	338	937	190	600	5 + 4 + 5 + 4
ASHQ350	350	313	363	987	215	600	6 + 5 + 6 + 5
ASHQ400	400	338	388	1037	240	600	7 + 6 + 7 + 6
ASHQ450	450	363	413	1087	265	600	8 + 7 + 8 + 7
ASHQ500	500	388	438	1137	290	600	9 + 8 + 9 + 8
ASHQ550	550	413	463	1187	315	600	10 + 9 + 10 + 9
ASHQ600	600	438	488	1237	340	600	11 + 10 + 11 + 10



Part Number (Square)	Inlet / Outlet A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	H (mm)	Number Of Rods
ASHQ1515	150	185	238	817	115	550	2 + 1 + 2 + 1
ASHQ2020	200	210	263	867	140	550	3 + 2 + 3 + 2
ASHQ2525	250	235	288	917	165	550	4 + 3 + 4 + 3
ASHQ3030	300	260	313	967	190	550	5 + 4 + 5 + 4
ASHQ3535	350	285	338	1017	215	550	6 + 5 + 6 + 5
ASHQ4040	400	310	363	1067	240	550	7 + 6 + 7 + 6
ASHQ4545	450	335	388	1117	265	550	8 + 7 + 8 + 7
ASHQ5050	500	360	413	1167	290	550	9 + 8 + 9 + 8
ASHQ5555	550	385	438	1217	315	550	10 + 9 + 10 + 9
ASHQ6060	600	410	463	1267	340	550	11 + 10 + 11 + 10

For non-standard sizes, please contact info@mobergs.com

Note: Dimension E is given from the process centreline to the outer edge of the flange