

MagDuct™



CESCO™ Magnetic Duct Separators

Magnetic Ducts Remove Metal Trash from Free-Flowing, Granular, Powdered, Flaky, or Chunky Products

Applications

CESCO magnetic duct separators are typically fitted above baggers and beneath blenders, hoppers or mixers where free-flowing product cascades over tiers of magnetic tubes or stepped plates. The separator protects down-stream equipment from damage and insures the quality of the end- product by removing metal trash – even if too small for metal detectors to sense.

Description

Low cost ceramic magnet grates or plates can remove larger items such as nuts, bolts and tools, while powerful, rare earth, Neodymium magnet grates or plates capture and hold both ferrous and work-hardened stainless steel trash from nuts and bolts to fines as small as 0.0001 inches in diameter.

Proprietary Designs

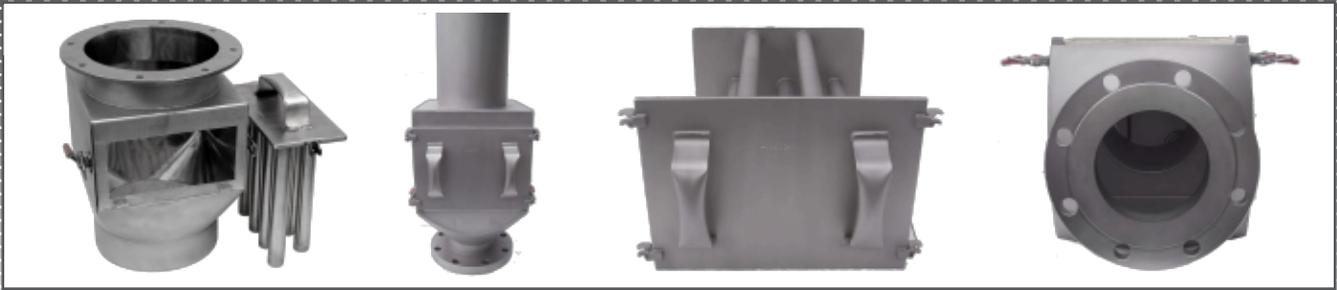
CESCO magnetic duct separators are fabricated to customer specification from 304 or 316 stainless steel with heavy-duty support bars that resist day-to-day twisting and bending. All grate or plates are carefully welded without pits, cracks, or crevices, then glass bead finished or polished, inspected, and certified sanitary before shipment.

Operating Ranges
To 300° F.



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Recommendations/Considerations for Custom Designs

CESCO can fabricate magnetic separators in almost any size or shape. Typical configurations include multiple or tapered layered grates or steps, with or without deflector bars or baffles to transition product flow, and in drawers or other housings specific to the application. Customers can specify any length of magnetic tube or width between tubes as long as that width is 0.5 inches or greater.

In addition to specific dimensions for the application including clearances, please provide us with: (a) the product being processed, (b) the size of the product in chunk size or length and width, (c) product flow rate, and (d) the likelihood of the product to agglomerate, and (e) what you want to capture.

If you will require mounting brackets please advise us during the design consultation.

Caution

Do not drill, saw, or hammer magnetic ducts.