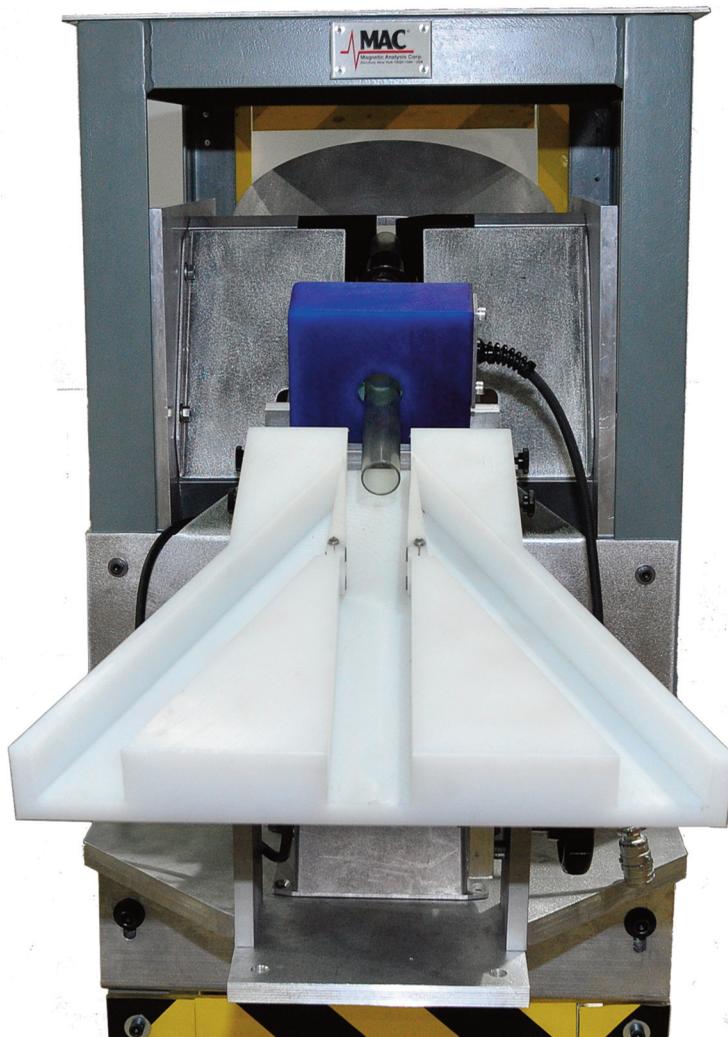


# Varimac<sup>®</sup> Ball Sorter

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For Testing and Separating Parts for Hardness,  
Alloy, and other Physical Characteristics



# Hi Speed Testing and Sorting

*With MAC's Varimac® Eddy Current Instrument  
and Model 570 Parts Sorter Gate*



Figure 1 - 570 Parts Gate with eddy current test coil.

## Ball Sort Features

- Fast, accurate 100% coverage at speeds up to 6 parts per second.
- Small version handles 1/16" - 1/2" diameter balls.
- Large version handles 3/16" - 2" diameter balls.
- Rotating disks (see figure 3) are customized to match the diameter and height of your product to ensure that only one piece is released at a time to the test coil.
- Parts pass through the test coil and into the correct chutes, based on outputs from the Varimac® instrumentation.
- Sort into 3 groups - (see figure 2-) accept, below specification & above specification. Chute configuration can be adapted for the application.
- Can be operated in "fail safe" configuration with all pieces passing down the center chute unless one of the diverter flippers is activated for a good piece.

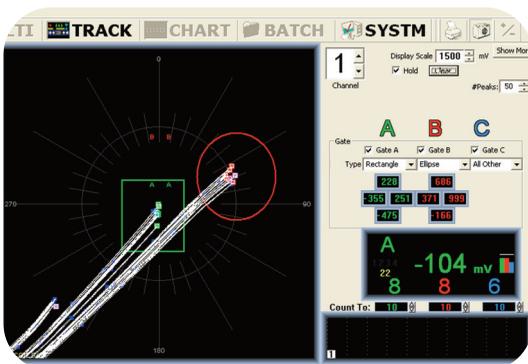


Figure 2 - Test signal traces that peak in the green region are from acceptable parts. Those within the red region are above specification. Those falling outside the target regions are below specifications. Thresholds can be easily customized for specific applications.

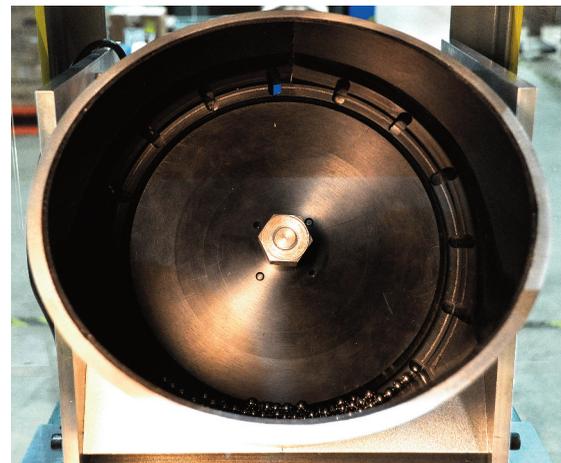


Figure 3 - Customized rotating disk at the bottom of this cylindrical drum, contains exact size holes which position the parts to pass through the test coil.

[www.mac-ndt.com](http://www.mac-ndt.com)

Magnetic Analysis Corp.  
103 Fairview Park Drive  
Elmsford NY 10523 USA



Tel: 800-463-8622 ~ 914-530-2000  
Fax: 914-703-3790  
[info@mac-ndt.com](mailto:info@mac-ndt.com)

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