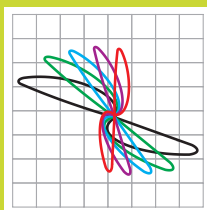


EDDYSORTER

This is a single or multi frequency eddy current sorter for segregation of metal components based on their eddy current impedance values. The eddy current generation and penetration inside the components is dependent on metal's conductivity, permeability, size and shape & Machine frequency, gain, phase, coil/ probe coupling with component.



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Eddysorter can be used as;

Mix- UP Sorter : The accuracy of sorting is dependent on setting reference and understanding the signal variations. Sorting for Mix-up based on chemical composition, heat treatment variations (hardness variations) tensile strength variations, Grain size variations, are typical sortings done using eddy current impedance testing.

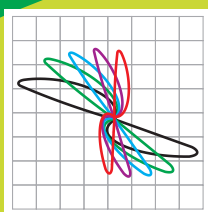
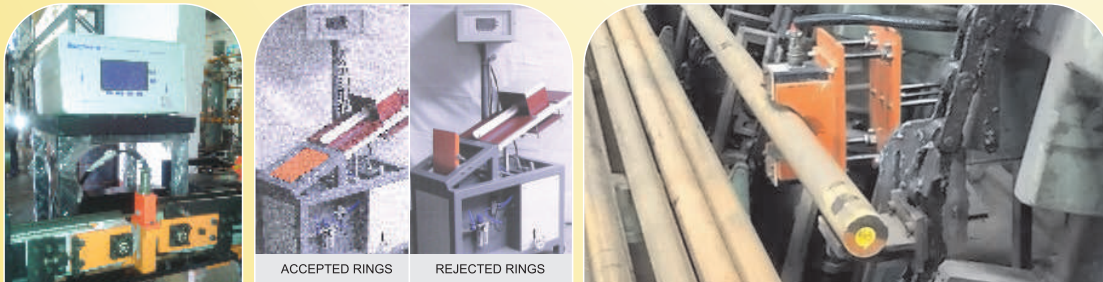
ASTM E 566 is the recommended practice followed for machine, settings and interpretations.

Crack Detector : The surface crack testing is done using Dynamic mode of Eddysorter with probe having differential winding. The testing is done in automatic / semi automatic mode with component rotation for scanning. The minimum surface crack that can be detected is dependent on surface condition .Typically 50 microns can be detected with very high signal to noise ratio, thus in effect can detect even lower cracks. Heat treatment quenching cracks, grinding cracks, material cracks can be easily detected.

SPECIFICATIONS

Frequency range	:	10Hz to 999Khz (single or multi frequency)
Gain	:	10 dB to 80dB
Phase	:	0 to 359 Deg
Threshold	:	Box, Circle, Ellipse, size variable
Filter	:	HP 255 Hz. Max., LP 512 Hz Max.
Display	:	XY / YT
Alarm	:	Buzzer for in or Out of box
Signal output	:	Output signal for sorting / counting
Interface	:	Through SCADA on request
Sensors	:	Coil - probe- Segments (Tailor made sizes of coils and probes can be made as per component details and sorting requirements.)
Automation	:	Signal for automatic handling of component is available and various handling systems can be coupled for automatic - semi automatic testing.

Mechanical handling systems are provided on request



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