MATERIAL VALIDATION

Material Validation

UT/Eddy Current/XRF Analyzer/Laser Marking

In order to gain the ability to verify and certify the identity and integrity of each and every precision bar product manufactured by Boston Centerless, we have invested in equipment that tests for internal defects, surface defects, alloy verification and laser marking of the bar with customer-provided identifiers. Each of these capabilities can be provided in any combination based on the requirements of the customer.

Ultrasonic Testing (UT)

- Size Range: Round bar from approximately .200” diameter to a maximum of .750” diameter
- AMS-STD-2154 Class A, Class AA UT test standards
- Detects internal defects to within approximately 1mm of the surface
- Automated re-direct of rejected bars to a separate collection bed
- Defective bars marked at the site of the defect

Eddy Current Testing

- Detects surface defects in bar products
- Adheres to ASTM E309, 571, E426, 576 (OD Solid Bar) test standards
- Defective bars re-directed and marked at site of defect

XRF Alloy Verification Analyzer

- X-Ray analysis to detect non-conforming chemistry
- Pass/fail test for alloy verification
- Automatic identification and capture of rejected bars

Laser Line Marking

- Diameter Range: .090” dia. to 3” dia.
- Standard Font Height: 1mm to 1.5mm. Custom fonts available.
- Laser marking typically applied to the drop-end of the bar
  - Can be used as Lot Retain Sample for material traceability

Accredited Nadcap™ Nondestructive Testing

Certifications:
ISO 9001, AS9100, ISO 13485

ASNT NDT Level III

The Shingo Prize for Operational Excellence™

Boston Centerless
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