

# Dimensional Restoration of Worn Railroad Axles

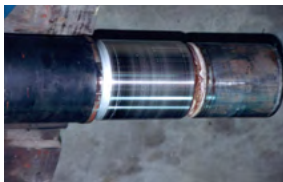
The SIFCO Process<sup>®</sup> is a method of selectively (brush) plating localized areas without having to use an immersion tank. The Association of American Railroads has approved the SIFCO Process<sup>®</sup> per M-967 Electrochemical Deposition for Repairing Roller Bearing Axle Journals.

The SIFCO Process<sup>®</sup>, which U.S., Canadian and European railroads have experienced time and cost savings by using, can deposit metal onto any basis metal through selective plating of a localized area. The thickness of deposits can be controlled precisely to within 1 to 2 tenths of a mil (2.5 - 5.0 microns).

This metallurgically sound coating can be used to build up dings, nicks, scratches and corrosion pits without reworking the entire part and without the requirements of expensive pre- or post- machining.

## TYPICAL APPLICATIONS

- ▶ Resurface worn axle bearing journals and wheel seats
- ▶ Rebuild seal wear ring areas



Prior to plating



Nickel High Speed



After plating



## SIFCO PROCESS<sup>®</sup> BENEFITS

- ▶ Eliminate outside service costs
- ▶ Eliminate handling and transportation expenses
- ▶ Reduce turnaround time
- ▶ Repair in-place
- ▶ Reduce downtime



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