Defect Repair

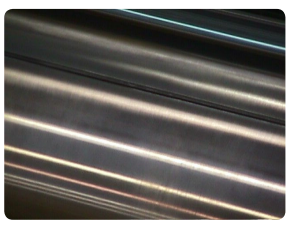
THE SIFCO PROCESS®

The SIFCO ASC plating process is a portable method to selectively electroplate onto localized areas. Mechanical damage ranging from pitting to deep impressions can be permanently repaired by selectively plating, using the SIFCO Process®. Defects are typically repaired with one or more layers of copper, then covered with a wear resistant deposit with good release or wetting characteristics. Brush plated deposits are quickly and uniformly applied to damaged areas of cylinders without the use of an immersion tank. Cylinders can be repaired in-place, minimizing production down time.

The SIFCO Process® of selective electroplating is a versatile tool used for numerous demanding repair and OEM applications. The localized plating process works well in a manufacturing environment. The plated deposits withstand considerable stress and strain, while maintaining excellent adhesion. Equipment, such as cylinders, present many areas in which the SIFCO Process® can be used with great success.

APPLICATION

This series of photos shows the stages of an in-situ repair to correct the damage caused from an allen wrench. These types of repairs are easily completed on rolls made up of carbon or stainless steel that have been plated with chrome or nickel. Copper was applied, then dressed a couple of thousandths below the roll surface. Finally, a thin layer of nickel-cobalt was applied to a slightly larger area and polished to match the texture of the roll surface.



TYPICAL APPLICATIONS

- Printing Cylinders
- Hydraulic Cylinders
- Molds

ADVANTAGES

- Portable process for on-site repairs
- Minimal masking and disassembly
- More timely than other plating methods
- Increase service life of components and equipment
- Superior technical expertise
- Quality plating results

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