

Electroplate & Thermal Arc

TRIOSIM
CORPORATION

Go Further with Triosim

Electroplate

Electroplating is a process that uses electric current to reduce dissolved metal cations to form a coherent metal coating on an electrode. This process is used in a wide variety of industries. Nickel electroplating is a technique of applying a thin layer of nickel onto a metal object which provides corrosion resistance, wear resistance, or can be

used to build up worn or undersized parts for salvage purposes. Triosim uses this industry preferred process to restore undersized shaft and journal fits. Nickel plating is an excellent option to restore your tapered bearing seat without replacing the entire part.

Thermal Arc

Triosim offers coatings with ARCSpray. ArcSpray process uses two wires electrically charged, one positive (+) the other negative (-). They are positioned so that when fed together, an arc (ionized path) is formed between the two wires. Compressed air atomizes the molten metal and propels the particles

forward at very high velocity. Upon impact, the molten particles fuse to the base metal and flatten out to form a very dense layer. Additional layers can be added to achieve the desired thickness. The coatings can be finished by machining or grinding or used in the as sprayed condition.

ARCSpray can be used for the following applications:

- Carbon steel
- Cast iron
- Aluminum
- Stainless steel
- High carbon steel
- Hard alloy steels
- Hard stainless steels
- Corrosion resistant metals

The ARCSpray is also the most practical method to salvage worn, or mis-machined parts such as:

- Electric motor shafts
- Bell housings
- Pump housings
- Impellers
- Pistons
- Spindles
- Hydraulic rams
- Seal areas
- Molds
- Patterns
- Rolls
- Fixtures weldments
- Shafts and much more

RE-Machine

ARCSpray it, and send it out the door! Unlike flame wire or flame powder coatings, ARCSpray coatings are FUSION BONDED to the base metal. This bond means no more flaking or cracking and no more doing it over.



Our Electroplating Technicians are trained and skilled.



95" drum being coated with 420 stainless steel.

Two strategically located roll service centers in Georgia and Ohio.

www.Triosim.com