

**INNOVATION.  
NOT DUPLICATION.™**



## THERMAL ARC SPRAY

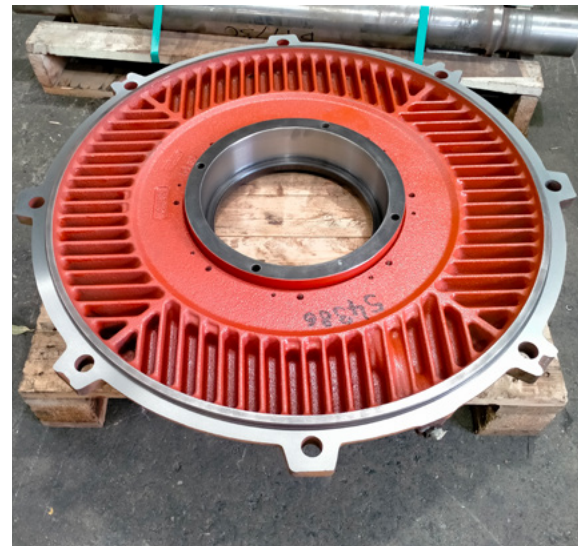
ALLGO PROVIDES OUR CUSTOMERS WITH ADDED VALUE BY PROVIDING FIT FOR PURPOSE MACHINING SERVICES, THROUGH INNOVATION AND QUALITY ENGINEERING SERVICE PERFORMANCE. INVESTING IN THE LATEST TECHNOLOGY HAS MADE ALLGO A STRATEGIC PARTNER TO MANY BUSINESSES IN THE REPAIR AND MANUFACTURE OF CRITICAL COMPONENTS FOR THE MINING, OIL AND GAS, AND TRANSPORT INDUSTRIES.

### THERMAL ARC SPRAY CAPABILITIES

H-E Parts in-house thermal arc spray expertise provides our customers an opportunity to reduce their total cost of repair and provides an alternative to full component replacement. Being able to repair shaft, housing journals and more in a quick, reliable and efficient manner enables our customers to get back up and running with the shortest turnaround possible.

The thermal arc spray process allows for a wide range of components to be repaired with a compatible coating to recondition worn or damaged areas. The coating process provides flexibility in repair being able to coat a minimum thickness of 0.375mm or up to a total thickness of 4mm. For coating that requires a finish greater than 6mm a layered pass approach is feasible and recommended.

The thermal arc process affords our customers substantial cost savings in comparison to full component replacement. These cost savings multiply over time as the thermal arc repair process is repeated resulting in increased savings and faster turn around compare to full part replacement.



Housing After Thermal Arc Spray & Repair

# THERMAL ARC SPRAY

## COMMON APPLICATION OF THERMAL ARC SPRAY

### Mining

- Transmission & Gearbox Components and Housings
- Planetary Carrier Bores and Thrust Faces
- Wheel Hubs and Spindles
- Underground Bogger and Dump Truck Brake Components
- Crusher Components
- Exciter Shafts and Boxes
- Pulley Shafts

### Hydraulic Components

- Pump Transmission Housing Bearing Bores
- Hydraulic Rods
- Hydraulic Pump Shafts Seal and Bearing Locations
- Hydraulic Pump Housing Seal and Bearing Locations

### Pumps

- Pump Shaft Seal and Bearing Locations
- Pump Wear Sleeves
- Pump Housings and Impellers.

### Electrical Components

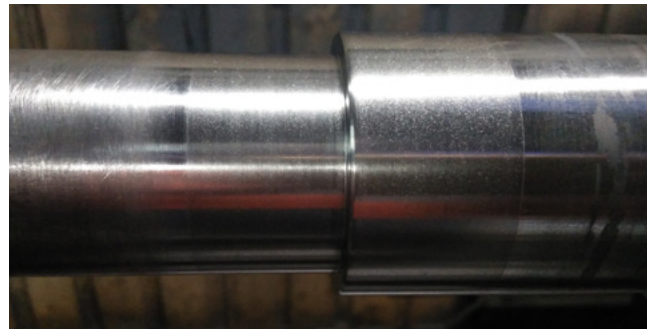
- Armature / Rotor Bearing and Seal Drive Locations
- Traction Motor Frame Head and Bearing Housings
- Electric Motor End Shield and Housing Bearing Locations.

### Automotive and Heavy Automotive

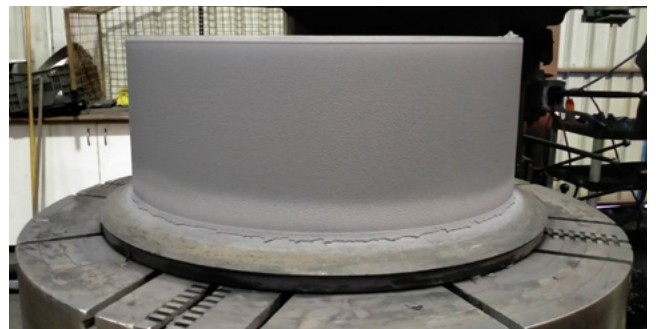
- Crankshaft Bearing and Seal Locations
- Yoke Seal Areas
- Differential Housings, Pinion and Carrier Borers
- Gearbox Housing Bores and Shafts



Shaft Before Thermal Arc Spray



Shaft After Thermal Arc Spray



Seal Ring After Thermal Arc Spray



Seal Ring After Machining

H-E Parts International replacement parts are compatible with the makes and/or models of the third-party equipment described. H-E Parts International is not an authorized repair facility of these third parties and it does not have an affiliation with any manufacturers of these third-party products. All brands, original equipment manufacturer (OEM) part numbers or references are owned by the respective OEM entities or their affiliates. These terms are used by H-E Parts International for identification and cross reference purposes only and are not intended to indicate affiliation with, or approval by the OEM, of H-E Parts International or its products.