Thermal spray coatings that make critical parts last longer.

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Mon–Fri 7:00 am – 3:30 pm

FIVE PROCESSES, ALL IN-HOUSE

- **HVOF** – fuel and oxygen combust into a high-speed jet; dense carbide and alloy coatings with excellent wear and corrosion resistance.
- **HVAF** – fuel burned with compressed air, cooler and faster than HVOF; denser, harder carbides, 1,250–1,500 HV.
- **Plasma spray** – ionized argon or nitrogen arc up to 30,000 °F; oxide ceramics, abradables and other high-temperature materials.
- **Twin-wire arc and flame spray** – electric arc or combustion flame; bond layers, dimensional repair and corrosion protection (metallizing).
- **Fused coatings** – flame-sprayed self-fluxing alloy, fused at 1,800–2,200 °F into a metallurgical bond; pump sleeves, rollers, high-impact parts.

MATERIALS

- **Carbides** – WC-Co, WC-Ni, WC-Ni-Cr, WC-Ni-Cr-Mo, CrC-NiCr, CrC-WC-NiCr-Mo and more.
- **Oxide ceramics** – chromium oxide, aluminum oxide, yttrium oxide, titanium dioxide, stabilized zirconia.
- **Metals and alloys** – superalloys, austenitic stainless, nickel and cobalt alloys, refractory metals, copper, bronze, white metals.
- **Abradables** – nickel-graphite, alumina-silicon-polyester, NiCrAl-bentonite.
- **Self-fluxing alloys** – Ni-Cr-B-Si and Ni-Cr-B-Si-WC, 600–800 HV after fusing.

Coatings are applied to your drawing or coating specification.

MACHINING AND FINISHING

OD grinding	**40″ dia. × 118″ long**
ID grinding	**40″ dia. × 12″ long**
Rotary surface grinding	**40″ dia. × 16″ high**
Reciprocating surface grinding	**12″ × 24″**
CNC turning	**38″ dia. × 80″+ long**
CNC milling	**20″ × 40″ × 20″ high**
Diamond flat lapping	**36″ dia.**
Lapped carbide finish	**1 Ra**
Lapped ceramic finish	**4 Ra**
Ground diameter tolerance	**.0001″**
Diamond super finishing	**Ra < 4 µin**
Flat lapping flatness	**under 2 light bands (12 millionths)**

LARGE PARTS AND PRODUCTION

- Large parts coated inside and out, from shafts and rolls to vessels.
- Outside tailgate loading dock and three drive-in loading doors.
- Computer-programmed, multi-axis handling for repeatable coatings on single parts or production runs.
- Dimensional repair: worn shafts, sleeves and housings rebuilt to size and ground in-house.

QUALITY

- Quality management system conforming to ISO 9001:2015.

INDUSTRIES SERVED

Oil & gas · Power generation · Pulp & paper · Printing · Chemical processing · Mining · Food processing · Fluid handling · Rotating machinery · Pollution control · Construction · Steel & metal processing · Battery manufacturing

Have a part to coat? Send your drawing or coating spec to info@longevitycoatings.com or use the quote form at www.longevitycoatings.com/request-for-info-quote/