



Thermal spray coatings that make critical parts **last longer.**

Longevity Coatings Corp

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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, abrasives 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.

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
Flat lapping	36" dia.
Lapped carbide finish	1 Ra
Lapped ceramic finish	4 Ra
Ground diameter tolerance	.0001"
Flat lapping flatness	12 millionths

INDUSTRIES SERVED

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

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.

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.