

REPAIR. RESTORE. REFINISH. RECOAT.



centerline



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The Cold Facts from CenterLine

Our patented cold spray technology employs heated carrier gas to propel engineered metal powders at supersonic speeds toward the surface to be coated. The result is a nearly solid metal coating that can be applied to practically any rigid substrate. The coating bond is tenacious. The coating and substrate are free of residual tensile stress. And there are no undesirable metallurgical transformations of the substrate or coating.

Some things you should know about cold spray:

- Coatings can be applied to virtually any rigid material to fabricate or restore surfaces, fill voids, seal cracks, provide corrosion or thermal barriers, and more. We can spray copper onto stone, aluminum onto glass, zinc onto steel, or just about any other combination that you can imagine.
- Since there is no melting of metals, as occurs with other fusion processes such as thermal spray, there is no warping, cracking, or softening of the substrate material. Low temperature spray drastically reduces oxidation and residual stresses associated with traditional thermal spray or welding processes.
- CenterLine's engineered powders include metals such as aluminum, zinc, nickel, copper and others whose properties are well known and understood. Unique blends allow us to optimize cost, deposition efficiency, and desired coating properties. We can select the coating that best suits your application or tailor one specific to your needs.
- The coatings have minimal voids so there is no chance of retaining cleaning solvents, having poor electrical or thermal conductivity, or having voids appear during subsequent machining or metal finishing.
- The only limitation to the thickness of the coating is economics. We have done contract spraying as thick as one inch and we would be happy to evaluate your requirements.
- Finished coatings provide high bond strength attributes. Typical coatings yield bond strengths in excess of 4,000 psi.



JOB SHOP SERVICES

REPAIR. RESTORE. REFINISH. RECOAT. CENTERLINE HAS THE SOLUTION.



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CenterLine's patented* SST "Cold-Spray" technology allows us to coat, repair or refinish a multitude of metal surfaces across a wide range of metalworking applications.

- 1. Casting Repair:** Repair cracks and surface defects in a variety of casting materials such as cast iron, aluminum, copper and zinc.
- 2. Mould and Die Repair:** Repair injection moulds, dies, tooling and fixtures. Ideal for aluminum and Kirksite in prototype, and low volume applications.
- 3. Corrosion Resistant Coatings:** Can be applied to virtually any component – old or new – to your specifications.
- 4. Engine Components:** Seal cracks and surface damage on aluminum and cast iron cylinder heads and other engine or driveline components.
- 5. Alloy Wheel Repair:** Repair cosmetic and minor damage on alloy wheels.
- 6. Pot Metal Restoration:** We can build up die-cast zinc, also called white metal or pot metal, to enable a phenomenal restoration.
- 7. Surface Restoration:** Make years of corrosion damage disappear to restore your classic car or establish a solid foundation for showroom quality chrome.

CenterLine's Supersonic Spray Technologies Division provides complete job shop services including full machining capabilities that can handle a wide range of your maintenance, repair and overhaul requirements. Our factory direct service can repair, restore, refinish or recoat a wide variety of component parts, OR can take on your production or batch part requirements as well.

There is no need to invest in equipment or spend time training to enjoy the results that our cold spray process can give you. All you need to do is give us a call or send us a part for an estimate. We specialize in solving problems, and we would be happy to have an opportunity to spray yours away.

**Building on Dymet® Technologies*

