VRC METAL SYSTEMS

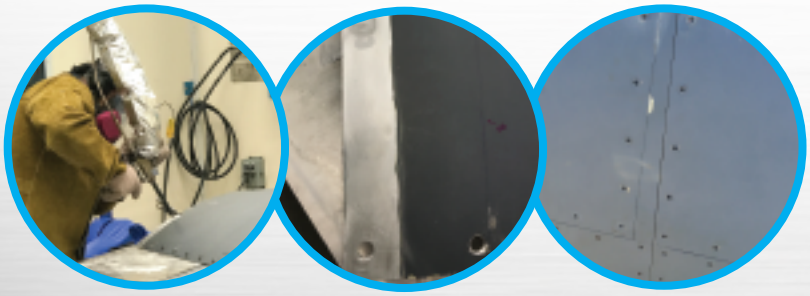
Reduce aircraft maintenance costs and downtime while increasing service life

Cold Spray System
AEROSPACE

The VRC Gen III Hybrid Portable High Pressure Cold Spray System delivers the revolutionary Cold Spray technique for maintenance and repair of aircraft parts instead of replacement. Cold spray is an efficient method for the application of metals, metal alloys, and metal blends for numerous applications.

Instead of part replacement, the Gen III Cold Spray system enables maintenance and repair of aircraft parts including:

- Hydraulic lines
- Aircraft "skin"
- Flap/tracks
- After burners
- Thrust reversers
- Cowlings
- Landing gear
- Accessory drive gear housing
- Helicopter transmission
- Pylons
- Wing leading edge
- Aircraft ground equipment



The VRC Gen III is the world leading hand-held capable high pressure cold spray system on the market today. It's a patent-pending solution that enables optimized aerospace service and maintenance with:

- Reduced part & aircraft turnaround time
- Reduced cost over buying new parts
- No heat affected zone on repaired parts
- Service life extension/reduced costs for older aircraft
- Chafing repair and prevention
- Corrosion and erosion repair, and prevention
- High adhesive and cohesive strength

What is Cold Spray?

Cold Spray is a material-deposition process whereby metal powders are accelerated to supersonic velocities to form metallurgically bonded coatings or free-standing depositions by means of ballistic impingement on a substrate. The Cold Spray process is applicable to:

- **Corrosion-resistant coatings (zinc and aluminum)**
- **Dimensional restoration and repair (nickel, stainless steel, titanium and aluminum)**
- **Wear-resistant coatings (metallic matrix with additions of chromium carbide, tungsten carbide, bulk amorphous metals, etc.)**
- **Field repair of components and systems**

See Cold Spray in action – check out our YouTube videos available at www.vrcmetalsystems.com.