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VRC Metal Systems is to be the global leader in supersonic particle deposition, also known as “cold spray”, and other advanced manufacturing process technologies. The majority of the world’s leading cold spray teams are using the VRC Gen III cold spray system to advance the research on obtaining the highest deposition properties and pushing the envelope on advanced recipes and hybrid coatings.

Our mission is to provide innovative, reliable metals deposition and automation technologies and manufactured components to give our customers market leading capabilities.

VRC Metal Systems manufactures cold spray equipment that bonds metallic powders to nearly any metal surface, and to a growing number of non-metallic materials. The high-pressure system deposits similar and dissimilar metals on most metallic surfaces even in previously impossible heat sensitive applications. VRC’s supersonic cold spray equipment enables innovative solutions for repair, additive manufacturing and coatings for many industries including aerospace, energy, shipping, mining, and oil & gas.

Our high-pressure cold spray systems provide the highest quality coatings with portability that differentiates us from our competition. Furthermore, we can apply the high pressures and temperatures either by robot or patented hand-held applicator. The Gen III cold spray system is the only high-pressure, portable, and hand-held capable system in the world, and the only high-pressure system that can spray inside diameters as small as a coffee cup. VRC has played an integral part in the approval of the repair process by using our high-pressure cold spray to repair Army helicopters, Navy submarines and the B-1B Bomber in the Air Force. Our system has been used to repair aerospace parts.

VRC will partner with you in repair and restoration of aerospace components including but not limited to Aluminum, Magnesium, Titanium, Niobium and Inconel.