



SST™ Cold Spray Systems

Practical Cold Spray Coatings

The SST Series EP High Pressure Cold Spray System

The SST Series EP is an enhanced version of the Series P designed to Cold Spray at higher pressures. The Series EP includes a transportable cabinet, HMI controls, pressurized feeder and robotic spray gun. Depending on the application, its enhanced operating features enable users to Cold Spray harder materials at higher deposition rates and/or higher deposition efficiency than the Series P. This makes the Series EP an ideal choice for more challenging cold spray application needs.

The Series EP system offers:

- the ability to cold spray harder materials
- higher coating deposition rates
- higher deposition efficiency
- greater bond strengths
- compatibility with UltiFlow™ and UltiLife™ nozzles
- an optional Calibration Kit to calibrate the SST equipment temperature and pressure controls
- low investment cost, flexibility, and a small equipment footprint
- ability to be integrated into automation and turnkey systems

Powders

Operating at pressures between 7 and 35 bar (100 - 500 psi), the Series EP Cold Spray system can spray standard SST powders and powder blends PLUS the following materials:

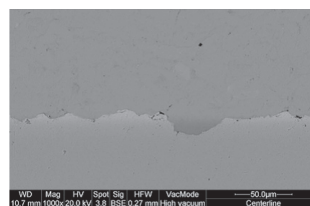
- Aluminum Alloys (AA7075, AA6061, AA4047, AA5083, AA2024, etc.)
- Ni and Ni Alloys
- Stainless Steels (304, 316)
- Ti and Ti Alloys (Ti-6Al-4V)
- Tantalum
- Niobium
- Invar
- MCrAlY
- Inconel (IN718, IN625)
- WC-Co
- Molybdenum

Technical Specifications:

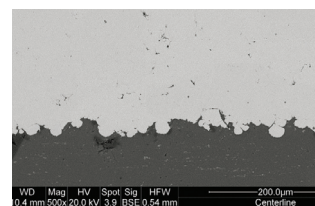
	Control Unit	Spray Gun
Pressure Range	100-500 psi (7-35 bar)	
Temperature Range	25-550 °C (77-1022 °F)	
Weight	78 kg (173 lb)	21 kg (48 lb)
Dimensions	68.58 cm x 55.88 cm x 111.76 cm (27" W x 22" D x 44" H)	35.56 cm x 13.97 cm x 76.20 cm (14" W x 5.5" D x 30" H)
Power Requirements	480 V - 3Phase - 25 Amps	



Magnified Coating Cross-section Examples:



Titanium (SST-T5001)



SS 316 (SST-S5002)

Contact SST today to discuss your metal coating needs.



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