

LETTERKENNY ARMY DEPOT COLD SPRAY



U.S. ARMY



BEFORE

AFTER

Cold spray is an additive manufacturing technology that utilizes powdered material and high-pressure gas to deposit and coat corroded surfaces at supersonic speed.

CAPABILITIES:

Mobility:

Letterkenny Army Depot, or LEAD, has a portable cold spray unit – the Dragonfly – mission-capable for forward-support operations.

High Mobility Artillery Rocket System (HIMARS):

- Cab
- Launcher rail

Phased Array Tracking Radar Intercept of Target (PATRIOT) System:

- Radar shelters
- Antenna mast group, or AMG, parts
- Trailer

Terminal High Altitude Area Defense (THAAD) Launcher:

- Truck parts
- Frame rails
- Missile round pallet - transportable, or MRP-T

CERTIFICATIONS:

The cold spray team has received operating training and UIPI credentials at the Penn State Applied Research Laboratory, authorizing them to conduct and approve in-house certifications.

PARTNERSHIPS:

Penn State Applied Research Laboratory:

Lab personnel utilize a helium recovery booth capable of recovering 80% of expended helium gas. Through a strategic partnership, the team at LEAD sends in assets for cold spray applications in which the use of helium is necessary.

Army Research Laboratory:

The Army Research Laboratory, or ARL, is working alongside the original equipment manufacturer to develop another mobile cold spray unit for LEAD to utilize for future operations.

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