Laser Photonics:
DefenseTech Laser Cleaning Systems

NCMS Technology Showcase
Puget Sound Naval Shipyard

PROBLEM STATEMENT

- Corrosion costs the Department of Defense over $20 billion in military assets annually. Amid growing environmental concerns, the DOD is pressured to adopt sustainable supply chain practices, including eco-friendly cleaning products and waste reduction.

- Traditional methods like sandblasting and chemical cleaning expose personnel to hazardous chemicals and pollutants and involve costly consumables which require increased environmental and workplace health and safety regulations.

BENEFITS

- DefenseTech Laser Cleaning Systems provide an alternative, environmentally friendly process that removes rust, corrosion, and coatings from various surfaces without damaging the underlying substrate, ensuring prolonged equipment life and operational readiness.

- No Chemicals or Hazardous Fumes
- No Complex Cleaning Procedures
- Cost-Effective Maintenance
- Portable use in various stationary or expeditionary environments.

TECHNOLOGY SOLUTION

- Laser surface treatment can provide an alternative maintenance solution that efficiently removes corrosion, ensuring the preservation and extension of the lifespan of critical military assets.

- Non-abrasive and non-contact cleaning method minimizes harm to the environment while prioritizing the health and safety of personnel involved in maintenance operations.

- Its portable, handheld design ensures mobile performance, allowing military and defense personnel to maintain readiness anywhere, anytime.

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