Adapt Laser Systems:
Laser Ablation Technology

NCMS Technology Showcase
Puget Sound Naval Shipyard

PROBLEM STATEMENT

Traditional methods of surface preparation and coating removal use abrasives and media that harm the environment, pose a health & safety risk to the operator and surrounding workers, and can cause irreversible damage to the substrate.

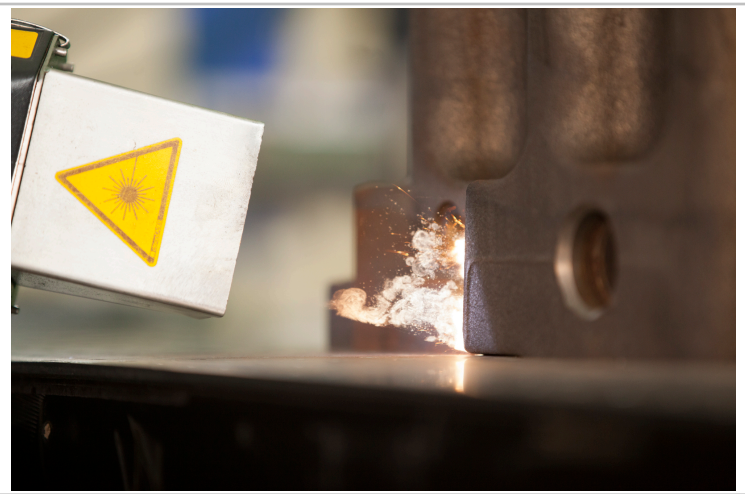
BENEFITS

Laser ablation technology is fast and efficient and creates no waste and requires no secondary cleanup. It can be handheld or integrated into an existing or new automated process. The only PPE required are laser safety glasses and it's easy to train new operators how to use the lasers. Overall, this technology is better for the environment and operators than traditional blasting methods or using chemicals and doesn't do any damage to the substrate.

TECHNOLOGY SOLUTION

Laser ablation uses thousands of pulses of light per second to selectively remove coatings without damaging the substrate.

With handheld and automated options available the lasers range in power from 100W all the way up to 1,600W to fit application needs.

A fume extraction system captures contaminants at the source and requires no secondary cleanup.

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