

WE ARE ALBERS AEROSPACE



ALBERS AEROSPACE has developed a laser delivery platform for ultra-short pulse laser (USPL) energy. USPL precisely ablates where other laser type fail: reflective, transparent, thermally sensitive parts. This capability, developed in conjunction with UDRI and AFRL, has been tested against fly-away, aerospace-grade parts. This system is built around industry leading photonics and laser source providers.

COMPOSITE SURFACE PREPARATION

Quickly removes resin cap prior to electrical or structural bonding

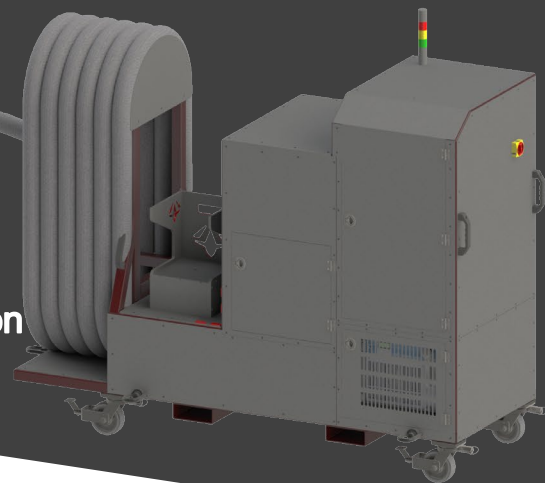
DE-PAINT

Precisely, A-thermally removes layers of paint and primer from aerospace-grade parts

INTRODUCING:

CLASP

Composite Laser Ablation & Surface Preparation



THE ONLY MOBILE, USPL DELIVERY PLATFORM ON THE MARKET!

- **Stop Overheating.** Most laser systems generate considerable heat. USPL can be a-thermal.
- **Stop Sanding.** Ablation of Resin Cap in Composite Manufacturing.
- **Stop Sand Blasting.** Remove coating systems without blast media.
- **Stop at Any Layer.** Remove paint while leaving anodization layer or stop primer.
- **Stop Re-Working.** System monitors progress and stops before it damages product.
- **Stop Producing HAZMAT.** Dust extraction and filtration eliminate fumes.



In Partnership With:



University of Dayton
Research Institute



AFMANTECH
UNITED STATES AIR FORCE

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RAPIDLY REMOVES RESIN CAP TO THE PRESCRIBED LEVEL

Specifications	CLA-60-10	CLA-60-20	CLA-150-10	CLA-150-20
Umbilical Length	10 meters	20 meters	10 meters	20 meters
Average Power	60W		150W	
Pulse Energy (μJ)	80 uJ		150 uJ	
Pulse Width	350 fs to 10 ps		400 fs to 10 ps	
Wavelength	Infrared (IR)			
Cart Weight	1500 lbs.			
Head Effector Weight	45 lbs.			
Cart Size (H, L, W)	76” x 82” x 32” – Fits through a standard door.			
Scanner	Up to 16 meters / second			
Dust Extraction	100 CFM			
Input Power	240VAC. With built-in 35-foot retractable tether.			
Chiller Capacity	150W			
Fiber Launch	Fully integrated fiber launch with active stabilization.			
Integration Ready	Network and APIs available for integration.			
Filtration	Integrated HEPA and Charcoal Filtration			



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WE WANT TO HEAR FROM YOU

Please contact Ryan Greening at rgreening@albers.aero, Wendy Lee at wlee@albers.aero, or request a quote.