



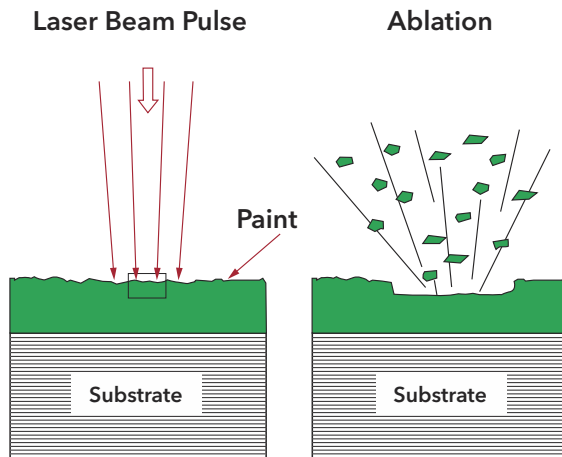


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## Laser De-Coating

Laser ablation is a process for removing material from a solid surface by irradiating it with a laser beam. The coating material is heated by the laser energy, and it then vaporizes or sublimates. Since the applied energy is mostly absorbed and utilized in coating decomposition, the substrate experiences only a minimal, if any, increase in temperature.



Besnovo's laser de-coating technology is an innovative alternative to the current labour-intensive, time-consuming, and environmentally-unfriendly de-coating methods such as chemical stripping, media blasting, water jet and hand sanding.

## Applications

- Aircraft maintenance, repair, and overhaul facilities and manufacturers
- Trains, armoured vehicles, large mining equipment and various other ground vehicles which require removal of coatings periodically
- Marine vessels require coating removal for inspection of the hull below the water line and due to the corrosive nature of salt water on coatings
- Paint and rust removal for bridges and other infrastructure







*"A commitment to a greener world is the driving force behind Besnovo's innovation.*





## Environmentally Friendly

- Does not use chemicals or blasting media
- Does not generate hazardous solid or liquid waste
- Reduced regulatory burdens associated with hazardous material or waste, such as reporting, book-keeping and site inspections
- Debris, dust and gases are collected by a fume extractor
- Safer working environment: reduced health and safety risks

## Efficient

- Effective with most coatings and safe for various substrates, including metals, composites, plastics, glass and ceramics
- Complete paint/rust removal with zero residue
- Automation means faster effective paint stripping rates and efficient processing
- Reduced masking requirements
- Fast de-coating rates means increased facility capacity and throughput
- Reduced downtime for aircraft, land-based vehicles and marine vessels

## Cost Effective

- Reduced operating costs and labour costs
- Reduced material costs
- Reduced cost of waste disposal
- Rapid return on investment

## Products

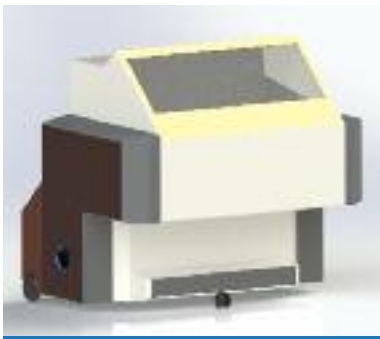
Besnovo's laser de-coating product line is compatible with various materials such as metallic and composite materials and can be used for paint, rust and corrosion removal.



### 100 Series

**This is stationary equipment. Parts are brought to the unit for processing. Ideal for these tasks and applications:**

- Localized coating removal
- Surface rust removal
- Selective stripping
- Surface cleaning
- Low volume, localized treatment
- Small or medium size parts under 500 mm



### 200 Series

**This is stationary equipment. Parts are brought to the unit for processing. Ideal for these tasks and applications:**

- Coating removal for large parts
- Surface rust removal
- Selective stripping
- Surface cleaning
- Low volume processing
- Long or medium size parts under 1500 mm
- Surface treatment and inspection

*"Our innovative vision and engineering experience  
make Besnovo the future of laser de-coating."*





## 300 Series

**This is moveable equipment. This solution is ideal for applications where the equipment is taken to where the part is located. Ideal for these tasks and applications:**

- Area coating removal from surfaces of vehicles (aircrafts, ships, railcars and ground-based)
- Surface rust removal
- Selective stripping
- Large areas requiring treatment
- Low to high volume
- Surface treatment and inspection



## 400 Series

**This is stationary equipment. Parts are brought to the unit for processing. Ideal for these tasks and applications:**

- Coating removal
- Inspection
- Rust removal
- Selective and spot stripping
- Surface activation of composites
- Surface cleaning
- High volume of parts to process
- High mix or low volume of parts
- Large parts
- Highly curved parts
- Surface treatment and inspection





## 500 Series

This is stationary equipment. Parts are brought to the unit for processing. Ideal for processing off-aircraft components including:

- Ailerons
- Doors
- Flaps
- Radomes
- Rudders

### Removes coatings including:

- Top coats, primer
- Mil-spec coatings
- Powder coatings
- Radar-absorbing material coatings
- Sealants
- Conductive coatings

### Designed for maintenance-repair-overhaul facilities:

- Separate de-coating and control room in-hangar facility
- Fully automated processing
- Repair and overhaul
- Inspection
- End of life recycling

*"Innovative, flexible and adaptive – Besnovo's products can tackle the most challenging de-coating tasks."*





## 600 Series

**This fully-automated laser de-coating solution is a mobile unit for aircraft and ground vehicles.**

- Modular design configurable and upgradeable for various purposes and levels of performance
- Closed-loop control ensures no damage to substrate materials
- Safe with people present
- Can work simultaneously with other operator activities
- Multiple mobile units can work simultaneously to process vehicle and increase throughput
- One operator can oversee entire process for a fully automated system
- Indoor or outdoor use
- Collision avoidance, self-guided platform



## 700 Series

**This fully-automated laser de-coating solution is a mobile unit for marine vessels. The following are potential customers:**

- Ship builders
- Tier 1 suppliers
- Yacht builders

**The following are the marine applications:**

- Dry dock coating removal of hull
- Surface rust removal
- See other Series products for small or large off-ship components and sub-assemblies



*"As an established pioneer in laser de-coating, Besnovo is ready to transform industries requiring paint removal."*



## About Us

Besново Inc. (formerly BRIC Engineered Systems Inc.) develops advanced industrial automation and laser de-coating solutions for aerospace, automotive, advanced manufacturing, and other sectors. As a pioneer in laser de-coating, Besново played a significant role in several laser de-coating projects for the United States Air Force.

## Contact

Besново Inc.  
12 - 695 Westney Road South  
Ajax, Ontario, L1S 6M9  
Canada

Phone: +1-905-239-9888  
Fax: +1-905-239-9880

[sales@besnovovo.com](mailto:sales@besnovovo.com)  
[www.besnovovo.com](http://www.besnovovo.com)

