



# LASER CLEANING MACHINES

## JETLASER - LASER SOLUTION FOR SURFACES



PRODUCT INTRODUCTION

4JET Technologies GmbH, Germany - JET LASER Laser Cleaning Machines are the latest high-tech products. Easy to install, operate, easy to achieving automation. Plug in power, turn on and start cleaning - without chemicals, media, dust, water, etc.

Cleaning with no detergent, no media, no dust, no water. Auto focus, can clean curved surface, gentle cleaning surface. Cleaning resin, oil stain, rust, coating materials, paints on workpiece surface.



## **JETLASER - FLEXIBLE LASER CLEANING : MANUAL USE OR INTEGRATED WITH A ROBOT**

We are India distributors of **4JET Technologies GmbH, Germany** make JETLASER - Flexible Cleaning Systems for its mold cleaning, surface cleaning, paint removing, degreasing type of applications for various engineering industries.

4JET Technology is world's leading company, which developed JETLASER - laser equipment for leading tire makers and automotive OEMs. 4JET solutions for surface cleaning, coating removal and part marking are highly regarded by nearly all international market leaders in the manufacturing & production industry. We offer systems for nonabrasive mold cleaning and other applications.

The new developed JETLASER handheld platform completes 4JET's offering for laser surface processing systems. The JETLASER product line addresses a vast range of industrial laser cleaning operations. Potential applications include cleaning of molds, tools and fixtures, paint and coating removal operations and pre-treatment of surfaces prior to welding, glueing or coating applications.

The platform is available in four power levels ranging from 100 W to 2 kW average laser power and is optimized for manual use (**JETLASER M**) or integration with a Robot (**JETLASER R**).

The end effector was designed to offer improved ergonomics and safety. Other than conventional single hand devices that work similar to a gun, the symmetrical 4JET system is based on a two-hand operation that provides for a more comfortable processing.



## PRODUCT FEATURES

- ▶ First of its kind high power fiber laser cleaning machine
  - ▶ Reliable German Technology
  - ▶ Non-contact cleaning, no damage to workpiece
  - ▶ Precision positioning, selective cleaning, desired cleaning area can be applied to the workpiece.
  - ▶ No need of chemical detergent, no consumable.
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- ▶ Safe & environment-friendly
  - ▶ Easy to operate, Either portable or equipped with robot for automatic cleaning.
  - ▶ High cleaning efficiency, time-saving.
  - ▶ Stable laser cleaning system, free maintenance.

## **JET LASER FLEXIBLE LASER CLEANING**





## COMPARISON WITH CONVENTIONAL CLEANING METHODS

Comparison	Laser Cleaning	Chemical Cleaning	Mechanical Grinding	Dry ice cleaning
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<b>Washing Method</b>	non-contact cleaning	contact cleaning	Abrasive contact cleaning	non-contact cleaning
<b>Harm to base material</b>	None	Yes	Yes	None
<b>Washing Efficiency</b>	High	Low	Low	Mid.
<b>Consumable</b>	Power	Chemical Detergent	Abrasive paper, grinder,abrasive stone	Dry Ice
<b>Washing result</b>	Very good, very clear	Medium, uneven	Medium, uneven	Good, uneven
<b>Precision Washing</b>	Accuracy controllable. High precision	Uncontrollable, low precision.	Uncontrollable, medium precision.	Uncontrollable, poor precision.
<b>Safety &amp; Environment</b>	No pollution	Chemical pollution	Dust pollution	No pollution
<b>Operation</b>	Easy to operate, portable or automation optional.	Complicated process, higher technical requirement of the operator. Pollution prevention measures required.	Need more time & manpower. Pollution prevention measures required.	Easy to operate, portable or automatic.



<b>Investment</b>	Medium investment on machine, almost no consumable, low maintenance cost	Low investment on machine. But expensive consumables	Medium investment on machine. High man-power cost.	Medium investment on machine. High consumable cost.
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## APPLICATIONS

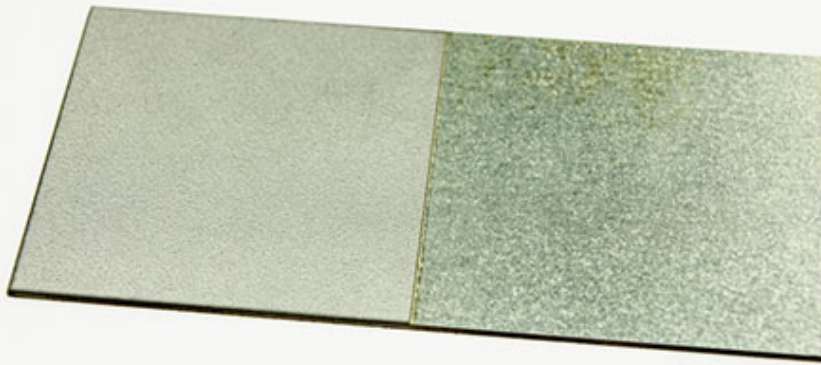
- ▶ Metal surface rust removal
- ▶ Paint cleaning
- ▶ Oil stain, contaminant cleaning
- ▶ Coating surface cleaning
- ▶ Welding/Coating surface pre-treatment.
- ▶ Stone figure surface dust & attachment cleaning.
- ▶ Plastic mould residues cleaning.



## LASER CLEANED SAMPLES



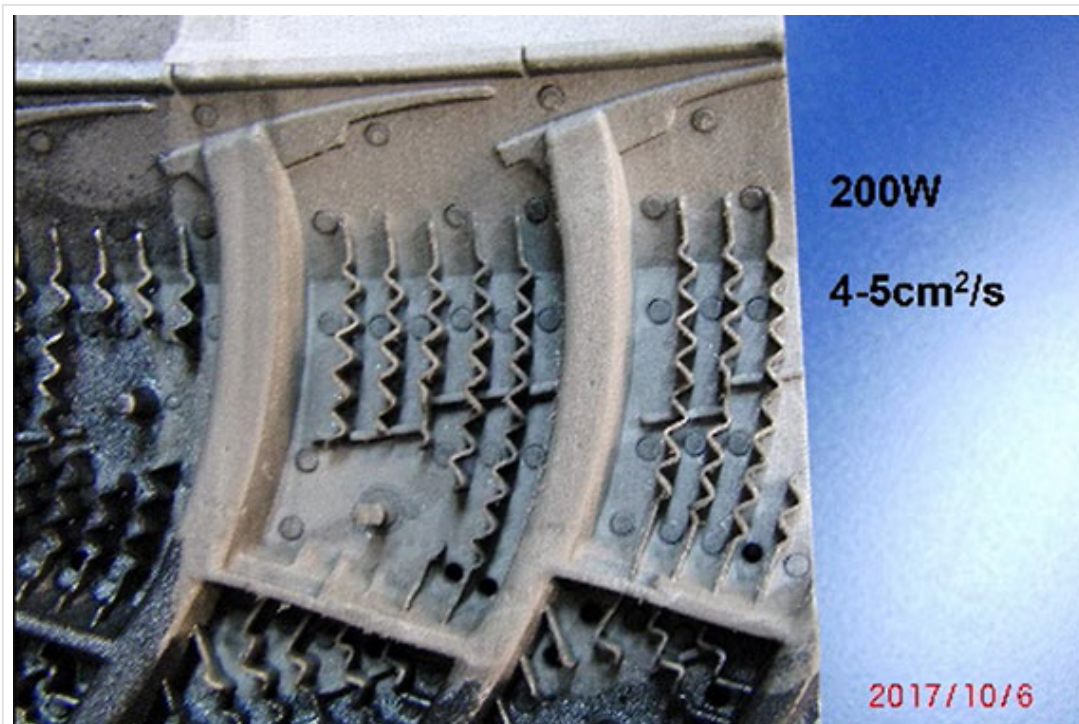




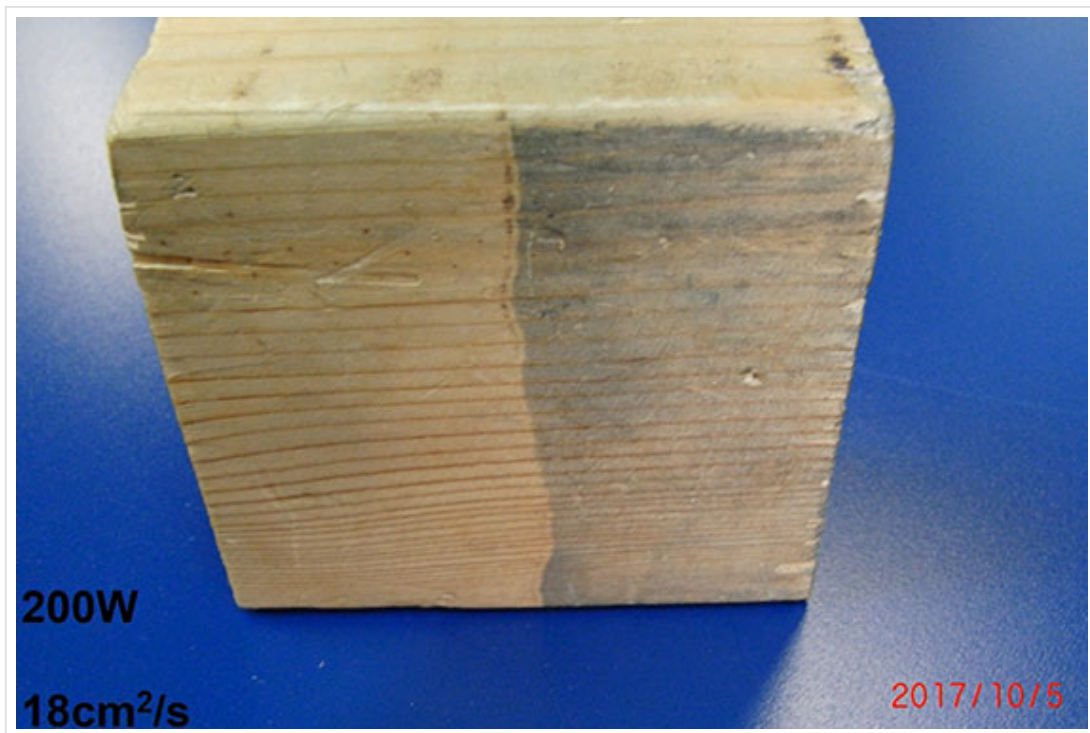
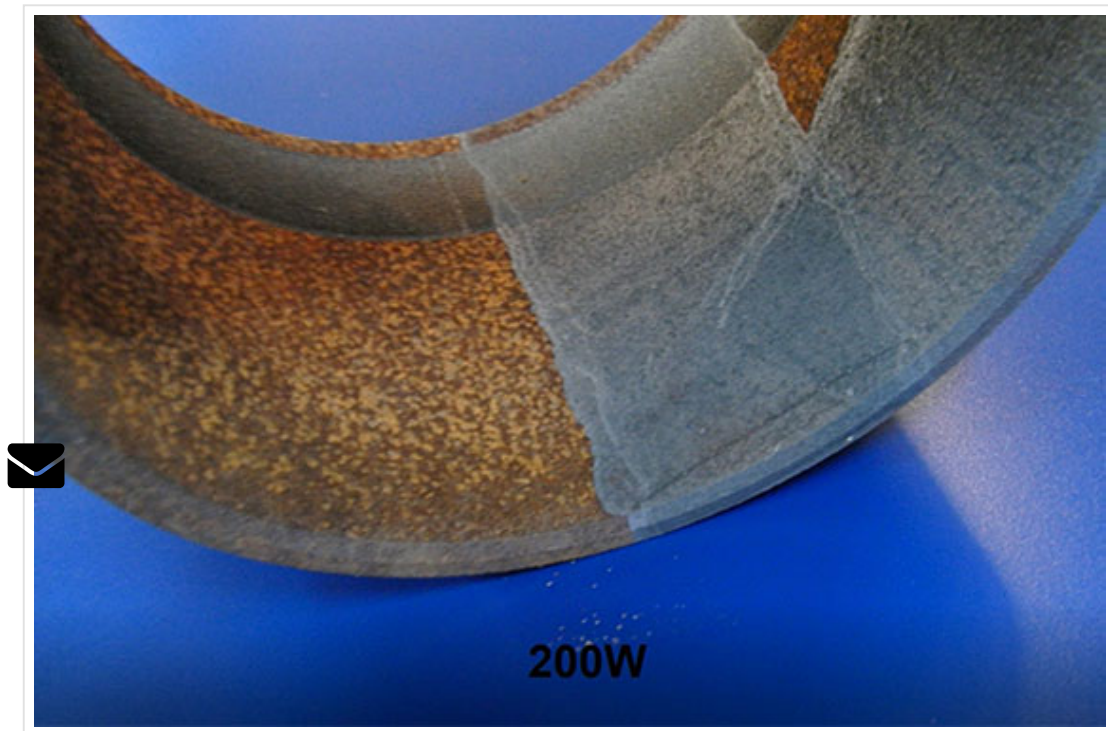
**200W**

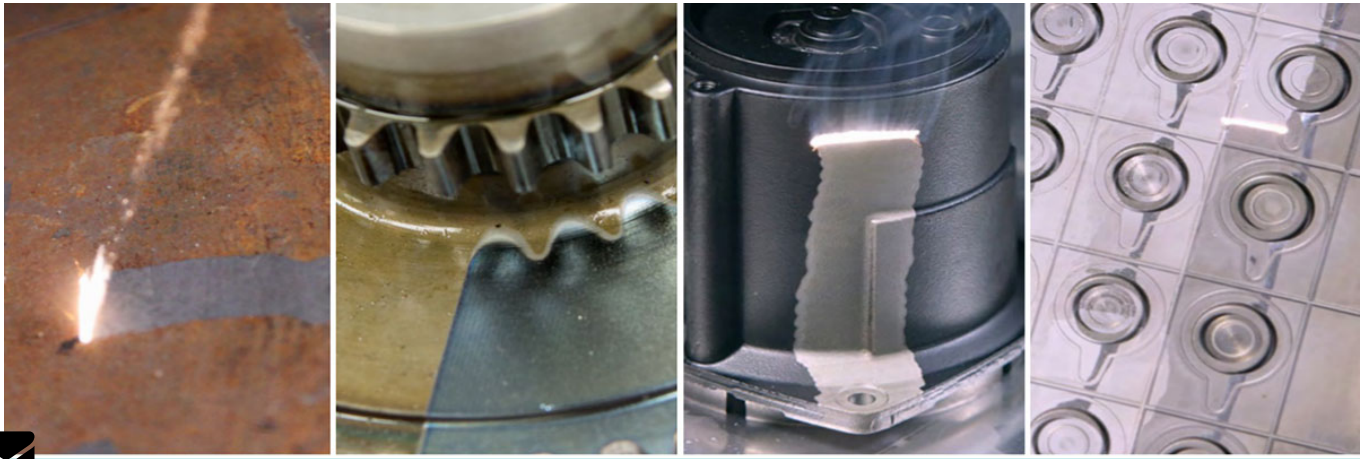
**up to 40cm<sup>2</sup>/s**

2017/10/6









Devarnishing / Removal of Rust, Oil and Grease / Paint Stripping / Mold Cleaning

Laser Lab India Pvt Ltd (LLIPL) is a pioneer laser company in India to provide complete laser solution for industrial applications like marking, engraving, micro machining, solar cell scribing, cutting, welding, surface cleaning, surface hardening, cladding, etc.

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