

# Large Format Industrial Solutions

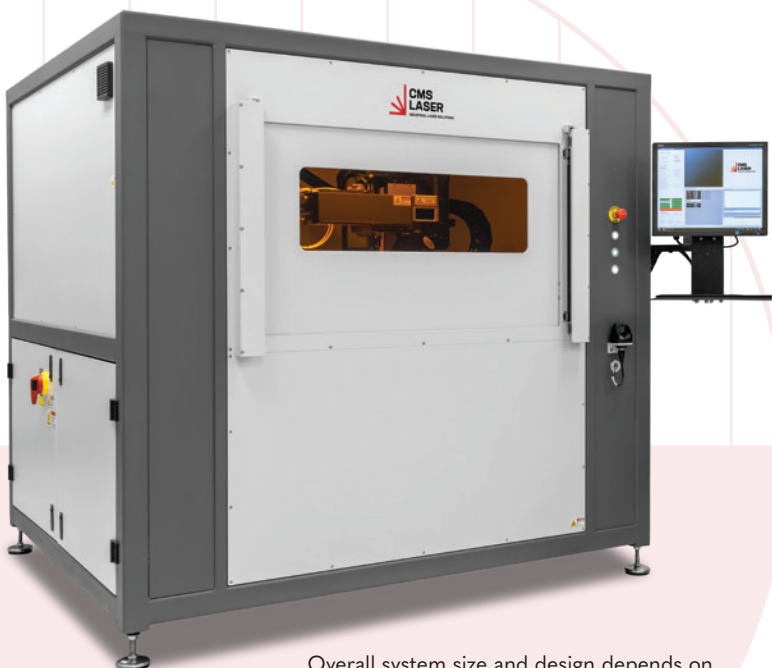
## Versatile Laser Machines for the Appliance Industry

Appliance manufacturers benefit greatly from the use of lasers in their production process by being able to mark, engrave, cut, and weld metals using a non-contact, environmentally clean process. Lasers can create high-contrast surface markings with a smooth and clean finish, eliminating traditional methods. Lasers can also remove the paint on glass and transparent plastics for touch controls and backlit panels.

Contact us today to learn more about our solutions for the appliance industry. We provide free sample testing through our applications development lab to determine the best laser configuration and optics for the material being processed.

### SYSTEM FEATURES

- CDRH Class 1 laser system
- XYZ gantry laser with galvanometer scanhead
- Tilting table style fixture
- Fume extraction system
- Optional machine vision for feature location, validation, or process monitoring
- Windows® operating system with CMS LaserGraf5 software



Overall system size and design depends on desired process and material size



### XYZ GANTRY LASER MARKING SYSTEM



**SYSTEM DIMENSIONS (LxWxH)**  
78.5in x 67in x 75.4in  
1990mm x 1700mm x 1910mm



**LASER SOURCE**  
Fiber or Picosecond

## Laser Processing Advantages

- Non-contact process
- Low maintenance
- No consumables and additives
- Permanent and high-contrast markings
- Create strong, complex deep welds
- Drill or cut through thin metals, foils, plastic, ceramics, and glass
- Computer-controlled process
- Integrate robots and automation for increased ROI

## Laser Marking & Engraving Stainless Steel

Direct part marking on appliance parts made of metal, glass, plastic or other materials. Mark user control information, manufacturer identification, safety warnings, quality control, product tracking, serialization and dates. Create graphics, logos, text, barcodes, and data matrices.

## Laser Ablation of Painted Glass

Through an ablation process, paint can be removed from metals, glass and transparent plastics. Create appliance touch controls and backlit panels.

## Ultrafast Laser Marking

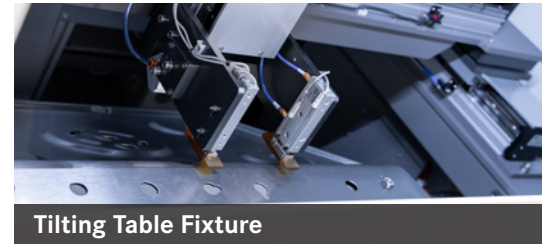
New ultrafast lasers are able to create higher quality dark markings than traditional nanosecond (fiber) lasers. The marking is not angle dependent and keeps its rich dark appearance when harsh light is introduced. Below is a sample of the markings. Notice how the left coupon performs better under harsh lighting.



The coupon on the left was created using an ultrafast (picosecond) laser while the one on the right was applied with a nanosecond (fiber) laser



XYZ Gantry Laser



Tilting Table Fixture



Marking & Engraving



Paint Ablation



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CMS Laser follows a policy of continuous product improvement. Specifications and system design are subject to change without notice.



The CMS Laser Systems described in this brochure complies with the requirements of 21 CFR 1040.10 and 1040.11, except for deviations pursuant to laser notice No. 50 dated June 24, 2007. These systems are certified by Control Micro Systems as a Class I laser product or Class IV Compliance with 21 CFR and may be verified by contacting the Office of Compliance at the Center of Devices and Radiological Health. Copyright © 2022 Control Micro Systems, Inc.