

Shenzhen Gainlaser Laser Technology Co.,Ltd

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Gainlaser UV Laser Various Applications

1. KN95 Mask (Non-woven Fabrics)

UV laser can mark non-woven fabric material, the marking is black and readable.



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2. Plastic Material Processing

UV laser can apply to most universal plastic and some engineering plastics, such as PP, PE, PBT, PET, PA, ABS, POM, PS, PC, PUS, EVA, etc., and plastic alloy, like PC/ABS and other material. The marking is clear and bright, and can mark black and white color on natural color plastic, white plastic, colored plastic and black plastic. Successful commercialized application in the plastics include animal ear tag, light switch cover, cosmetic packaging material, vehicle interior button and doorknob, instrument panel, ABS keyboard, HDPE, PET and PVC rigid container and container cover, nylon and PBT automobile and non-automobile electrical connector, engine hood element such as fuse box and air cap, anti-counterfeit labels, container lock catch, stationery, home appliance shell, etc.



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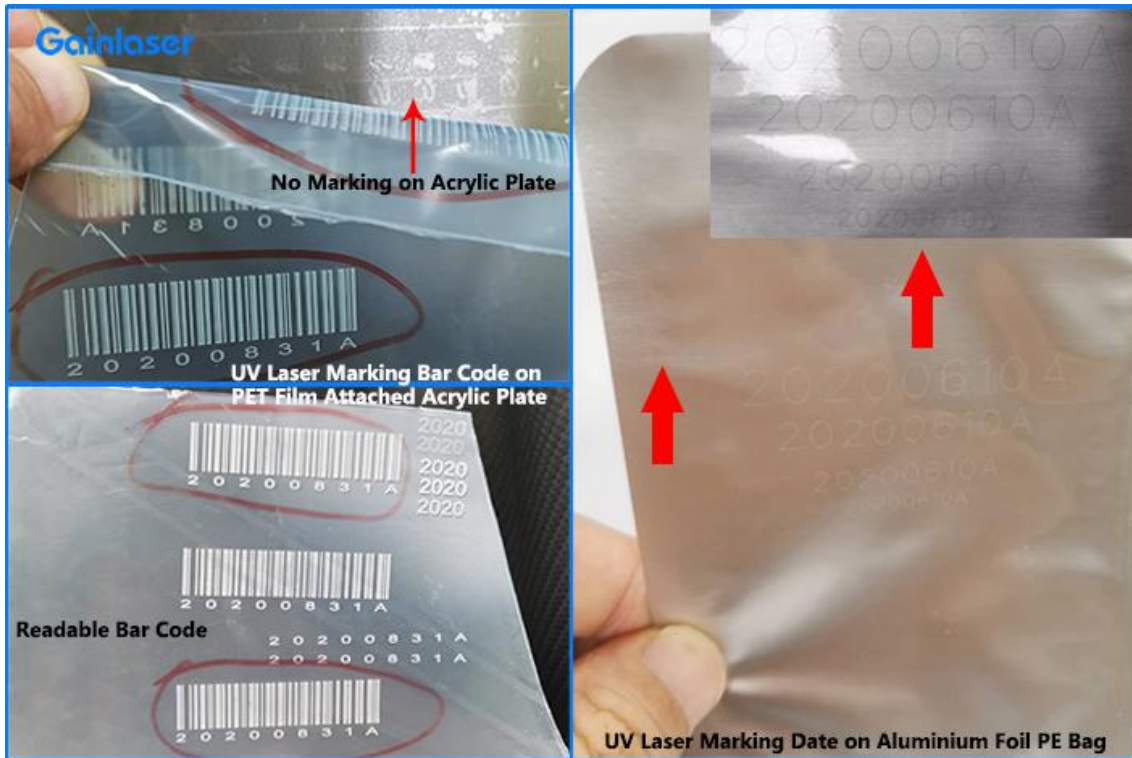
(PETG Plastic Package - Expire Date Marking)

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(UV Laser Marking PET Film Attached Acrylic Plate)

3. Glass Material Processing

Since the focal spot of UV laser is very tiny and processing temperature is low, furthermore as a non-contact marking technology, UV laser is very suitable to mark glass material. Successful UV laser commercialized applications include wine bottle, flavour bottle, drinking bottle and other industries glass bottle package and glass tableware, glass crafts gifts, crystal marking, etc. Besides marking glass directly, UV laser can also remove paint or coat on glass to form text or pattern, like logo, number or other patterns;



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(Gobo Glass - High Precision Marking)



4. Metal Laser Marking

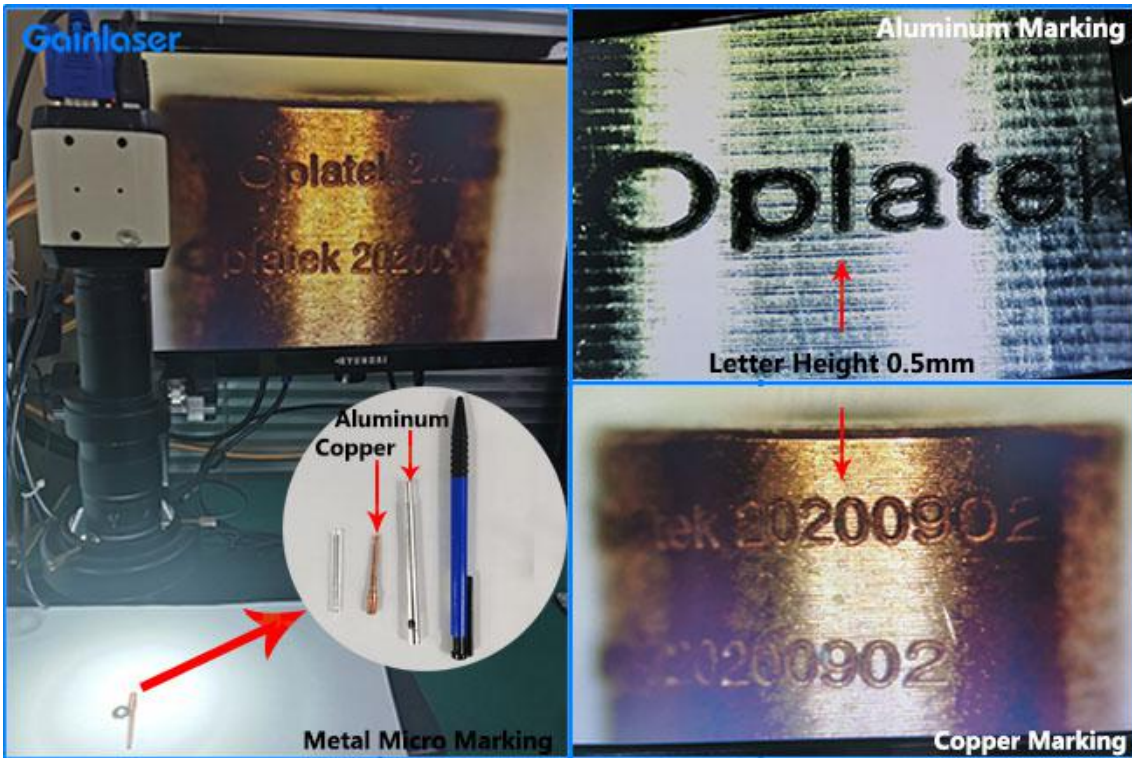
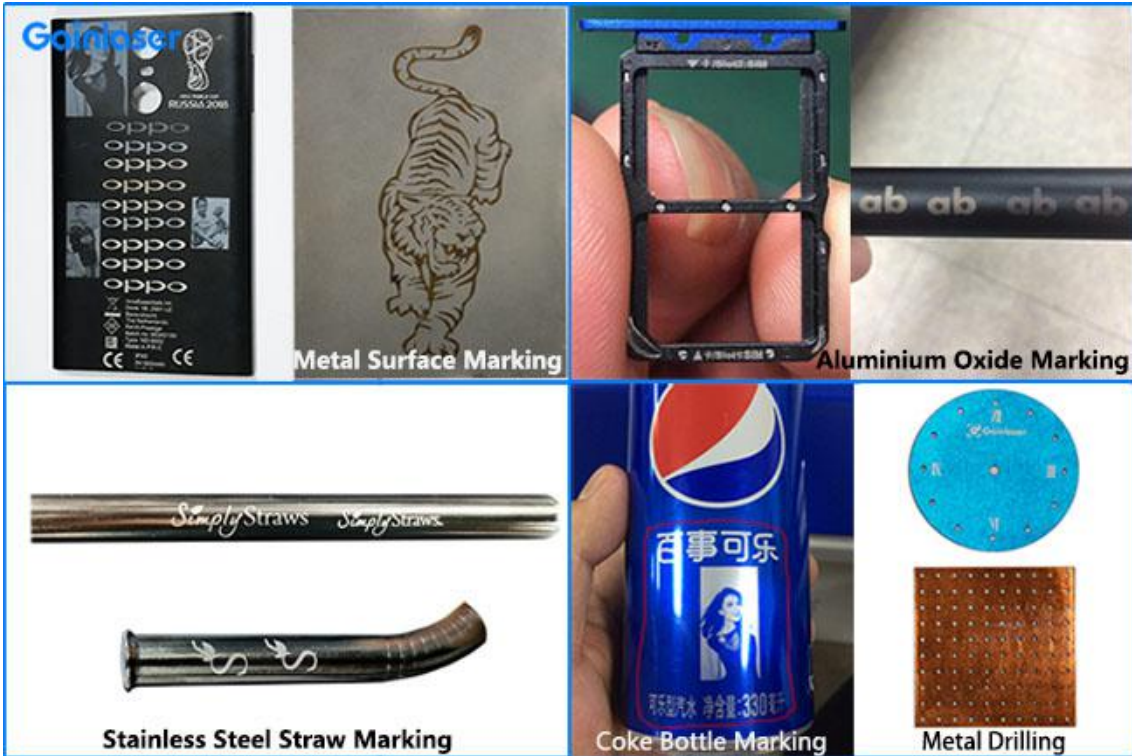
UV laser can mark identification on common metals, such as stainless steel, copper, aluminum, gold, silver, carbon steel, various alloy steel, tool steel, hard alloy, aluminum alloy, chromium plating, nickel plating, zinc plating, various grinding, polished metal surface, etc. The identification can be logo, product name, technical parameter, supplier name, safety matters, etc.

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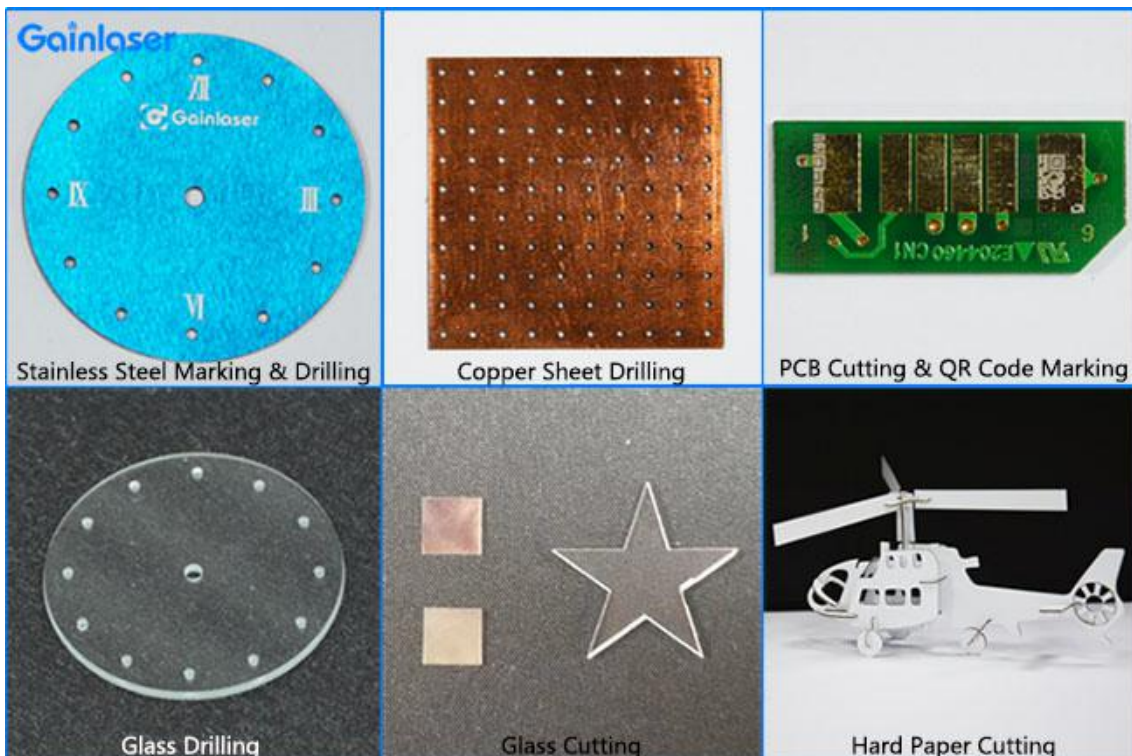
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5. UV Laser Precise Drilling and Cutting

UV laser can drill or cut common materials, such as plastic, glass, metals ,etc. Higher laser power, thicker materials to drill or cut. Our 5W UV laser can cut materials with thickness 1mm. Successful UV laser commercialized applications include clothing manufacture, shoe manufacture, crafts and gifts manufacture, machine, parts production, etc.



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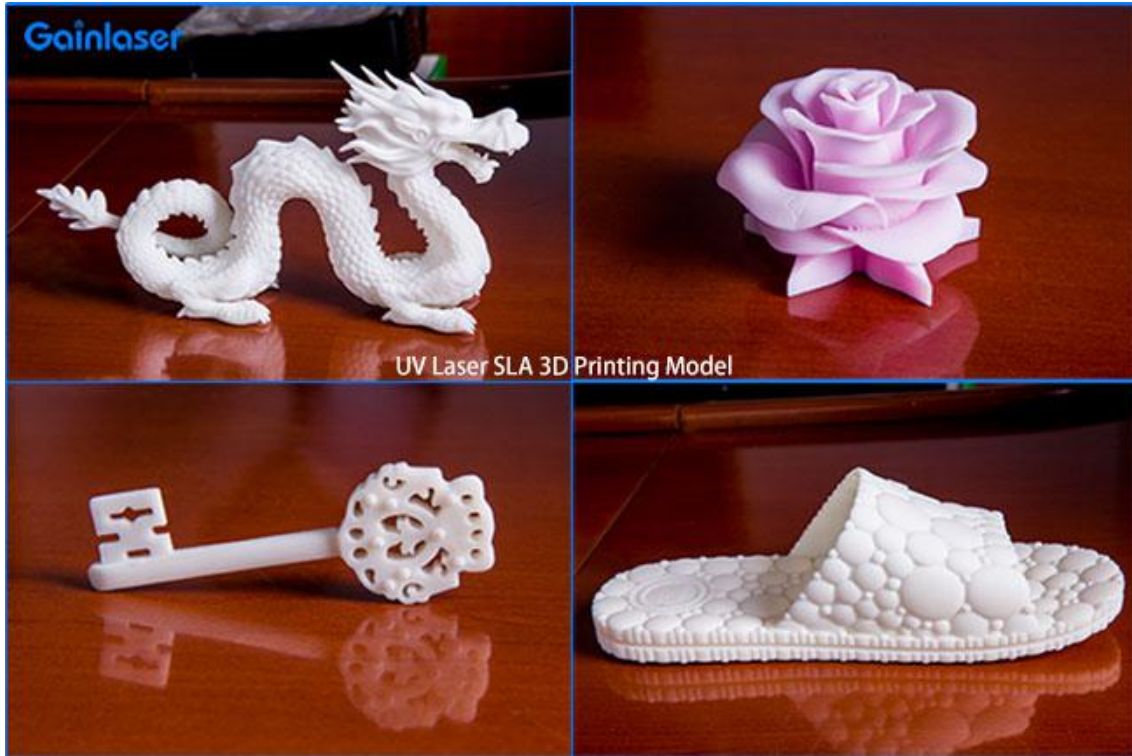
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6. UV Laser SLA 3D Printing Samples

SLA 3D Printer use 355nm UV laser light to cure light-reactive thermoset resin into hardened plastic. When SLA resins are exposed to UV laser light, short molecular chains join together, polymerizing monomers and oligomers into solidified rigid or flexible geometries.



7. UV Laser Marking on Wood

UV laser is a cold processing method, it produces low heat when marking on wood. There is no risk of fire for UV laser marking on wood, while traditional fiber laser and CO2 laser are heat processing method, which may cause fire hazard.



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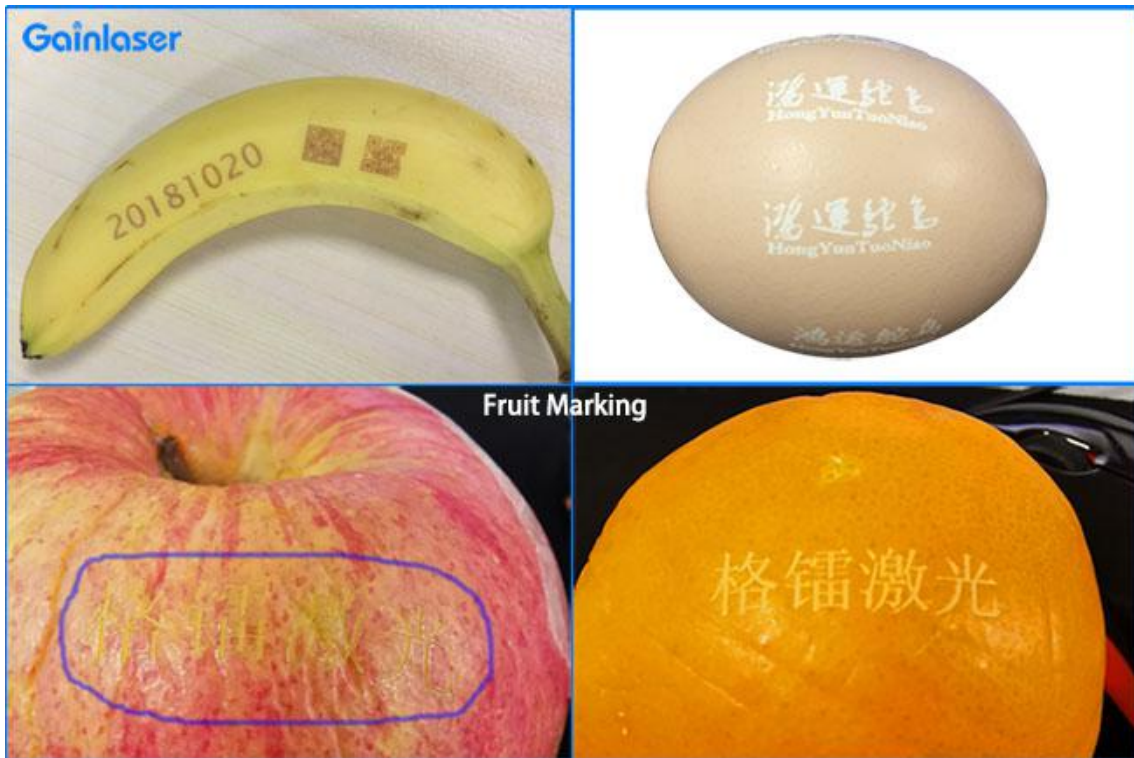
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8. UV Laser Marking on Ceramics



9. UV Laser Marking on Food



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10. Other Materials

