

Principles Of Laser Materials Processing

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PRINCIPLES OF LASER MATERIALS PROCESSING

The Flying Co2 Laser marking machine laser can process almost any material, but is limited by the power of the laser transmitter. At present, the materials that can be processed by the laser process are mainly non-metallic materials, including: plexiglass, plastic, two-color board, bamboo, wood, cloth, leather, Rubber plates, glass, stone ...

The best three principles and advantages of laser processing

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Laser Applications: Material Processing. Laser material processing refers to a growing school of techniques that use high-energy laser light to modify the surface of materials. It is one of the most common, and highest value, laser applications available to engineers, providing the means to rapidly machine an array of materials with outstanding repeatability down to the sub-microscale.

Laser Applications: Material Processing

The principles of laser-based processes are based on athermal photochemical, photoelectric, and photophysical mechanisms of

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laser beam-material interaction. Photochemistry involves interactions between the photons of laser light and the chemical bonds that hold engineering materials together.

Laser Processing of Engineering Materials | ScienceDirect
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The basic laser cladding processing machine consists of a powerful 'industrial-type' laser source, substrate handling equipment, powder injection system, ventilation for laser generated vapors or gases, and a control system to integrate the operation of different components.

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Good background for laser theory and background knowledge. I am embarking on laser welding and wanted some more knowledge of the processes being involved. This covers some of what I would like to know, but I think I need to get into more specific welding/materials science literature (probably technical papers).

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