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Page 6/36

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The FCPA DE µJewel Series of ultrafast lasers is uniquely prepared for a raft of materials processing applications, including: Thin-film ablation Microprocessing Selective laser etching Glass welding Wafer processing

Laser Applications: Page 12/36

Material Processing Lasers have become crucial to material processing, with LASER COMPONENTS supplying key elements for many applications. At the same time, industrial image processing has gained in importance for process control and QC/QA – for example when it Page 13/36

comes to 3D object scanning or weld seam inspection. Production. Industrial Vision.

Laser-Material Processing - LASER COMPONENTS Laser Material Processing uses laser energy to modify the shape or appearance of a material. This Page 14/36

method of material modification provides a number of advantages such as the ability to quickly change designs, produce products without the need for retooling, and improve the quality of finished products.

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as systems to monitor quality on-line count among the specializations of this technology field.

Laser Material Processing -Fraunhofer ILT Laser technology in Material Processing is based on High-power Lasers that generate intense light beams Page 17/36

to transform different type of materials in fabrication. This can include laser welding, laser drilling, laser metal cutting, laser engraving or cleaning different materials as plastics, wood and metals.

Laser Technology for Material Processing in Industrial ... Page 18/36

Laser materials processing is of great interest for industrial applications as well as for scientific investigations. Main advantages of the laser as a manufacturing tool are the high speed at which a laser beam can be moved and. contrary to mechanical tools. Page 19/36

laser light is not subject to wear and tear.

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material processing renders enhanced performance with high precision as compared to traditional methods. Based on such characteristics. advanced laser technology is widely used in several enduse industries such as military, manufacturing, Page 23/36

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