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Laser drilling is the first practical laser processing technology and one of the main application areas of laser processing. It is classified in laser processing as laser removal, also known as evaporation processing.

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The microelectronics industry has employed laser drilling for a wide range of applications such as drilling alumina ceramic substrates. Drilling of small diameter holes (<10 ?m) is required at very high speeds, up to several thousands of holes per second.

Laser Drilling Applications | IPG Photonics

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Laser Drilling Applications | SPI Fiber Laser Manufacturer

Laser hole drilling technology has been employed for almost 45 years on turbine engine components used in aircraft and land (power generation) applications.

Fiber laser drilling for aerospace applications ...

The number of activities to which laser drilling technology can be applied is tremendous, including foundation studies, long distance tunneling and much of the environmental tasks related to subsurface releases and plumes. The laser assembly has the potential to interrogate and explode unexploded ordinances.

SUBSURFACE LASER DRILLING APPLICATIONS

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(2) The extension of investigative findings and theories of a scientific or technical nature into practical application for experimental, demonstrative and specialized purposes including the experimental or limited production and testing of models, devices, equipment, materials and processes involving the use of lasers.

Part 50. LASERS - New York State Department of Labor

The Remy is a Class IV, FDA-Cleared Laser Capable of Treating Multiple Conditions, Paired with Innovative & Practical Design When you invest in a laser for your practice... Zuckerman Future Technologies believes it should meet three important criteria:

Home - Remy Laser

The fact that the beam can be so accurately controlled means that drilling shallow angles or even shaped holes is perfectly possible. Laser drilling can produce holes with small diameters and high aspect ratios, for tasks such as roughening up surfaces, or thru-holes for tasks such as creating air pressure vents.

How the Laser Drilling Process Works | Laser Drilling Machine

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Laser drilling is the process of creating thru-holes, referred to as “popped” holes or “percussion drilled” holes, by repeatedly pulsing focused laser energy on a material. The diameter of these holes can be as small as 0.002” (~50 μm). If larger holes are required, the laser is moved around the circumference of the “popped” hole until the desired diameter is created; this ...

Laser drilling - Wikipedia

Laser drilling is the first practical laser processing technology and one of the main application areas of laser processing. It is classified in laser processing as laser removal, also known as evaporation processing.

Laser Drilling | MachineMfg

The use of lasers in Micro Materials Processing has found broad application in the development and manufacturing of screens for smartphones, tablet computers, and LED TVs. A detailed list of industrial and commercial laser applications includes: Laser cutting; Laser welding; Laser drilling; Laser marking; Laser cleaning

List of laser applications - Wikipedia

Laser drilling is a highly adaptable, versatile and reliable micromanufacturing process used in a broad range of industries. We work closely with you to customize our laser manufacturing and post-laser processing to match your unique drilling needs, optimizing applications including: micro holes, hole arrays, blind wells, and specialized portals.

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