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NUBURU® - The Blue Laser Company ~~Advanced Laser Welding With Dynamic Beam~~ Laser Material Processing.wmv SENFENG Handheld Laser Welding Machine ~~IPG Photonics MultiAxis Fiber Laser Material Processing System~~ Spatter in laser welding process -

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Visualization with CAVILUX HF

High power CW fibre lasers for material processing
Reis Laser Material Processing Welding

Norbert Hoppe from Reis Robotics showed the advantages of laser welding by describing a system installed in China where Reis was the general contractor. In a welding gantry suitable for 3D from Reis, medium voltage switch housings of different sizes are welded gas-tight – meaning most exact – to make them maintenance free. During laser welding, particular importance is applied to the exact guiding of the laser beam because it operates more precisely than a classical weld torch. Peter ...

Reis Robotics presents advantages of automated laser welding

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used to join metals. The heat required to connect the parts is generated by the laser beam which is focussed onto the weld. Laser welding is a very fast and efficient welding process that is highly suited for automated processes. Precise

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Laser Material Processing. Among the many manufacturing processes

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in the technology field Laser Materials Processing, cutting and joining in micro and macro technology as well as surface processes count among its most important. Whether it be laser cutting or laser welding, drilling or soldering, laser metal deposition or cleaning, structuring or polishing, generating or layering, the range of services spans process development and feasibility studies, simulation and modeling, as well as the ...

Laser Material Processing - Fraunhofer ILT

Schwei ß en+Schneiden: Reis Robotics' Laser Hybrid Welding

Applications Published on 11 September 2013 Reis Robotics ' laser

hybrid welding system with new welding optics from Reis Lasertec is

finding real-world use. Laser hybrid welding combines the advantages of the two methods – laser welding and gas metal arc welding – in a

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common process.

Schwei ß en+Schneiden: Reis Robotics' Laser Hybrid Welding ...

Two general forms of laser welding exist: direct laser welding and transmission laser welding. When radiation strikes a material surface some energy will be reflected, some absorbed, and some transmitted. For laser materials processing the energy must be absorbed efficiently in the correct location.

Laser Welding - ScienceDirect

Diode lasers are used in many laser-assisted joining processes. A distinction is made between laser soldering, heat conduction welding and deep welding with lasers. Laser beam soldering generally involves melting an additional material. This filler material wets the surfaces of

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the components to be joined and thus joins them after solidification.

Laser Welding Process, Advantages & Examples: LASERLINE ...

Laser technology is currently used in a wide variety of industrial processes including cutting, welding, marking, surface engineering, repair and direct parts fabrication. The range of applications covers metals, plastics, semiconductors and ceramics, on a scale from sub-micron to several metres.

Laser processing - Welding, Cutting and Surfacing - TWI

The informal style of Laser Material Processing (4th Edition) will guide you smoothly from the basics of laser physics to the detailed treatment of all the major materials processing techniques for which lasers are now essential. • Helps you to understand how the laser works and to

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decide which laser is best for your purposes.

Laser Material Processing | William Steen | Springer

REIS ROBOTICS supplies customers in all important industries and in the various application fields such as laser material processing, welding, cutting, photovoltaics, handling, coating, gluing, packing, palletizing, order-specific handling, loading and unloading of machines, die casting automation, injection molding automation, trimming, etc.

Reis - lasercongress.org

Patented Reis Laser Spy monitoring ensures that laser beams can't get outside of the laser cabin, adding safety and reducing risk in the shop. Application in the field Reis Robotics has delivered a system to a factory for the welding of construction equipment (FIGURE 4),

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specifically the long boom section of a heavy lift mobile crane (see also FIG. 2).

Laser hybrid welding: Powerful factory floor process ...

Material and laser are optimally tailored to one other. The KUKA RV6L-CO2 laser robot has been specially optimized for 3D cutting and perforation with a CO2 laser. It replaces heavy and expensive cutting dies in applications where maximum production flexibility is required.

CO2 laser robots | KUKA AG

The new jet robot shows how space-saving and flexible this automation solution from Reis and Kuka is. A tool change unit proves that the same kinematics can map various processes alternately: Twin wire

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welding, plasma cutting, laser cutting, MIG/MAG welding. Here the 3D seam tracking with laser camera in conjunction with two additional axes of a Reis rotary/tilting module is a special highlight. The laser powder build-up welding is a generative production procedure.

Reis demonstrated how to significantly increase efficiency ...

Wire-based laser deposition welding is a material-efficient 3D printing process for the production of metallic components. Due to your cookie settings, this content is not available. Additive manufacturing with wire feed offers significant advantages in the production of geometrically complex and large components.

Laser cladding | KUKA AG

Reis Robotics will display laser hybrid welding solution and new large

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gantry for laser applications on this year ' s LASER World of PHOTONICS (May 13 – 16, 2013) in Munich. The demand for laser hybrid welding applications has been constantly increasing in the past years. First systems could already be put into practice by Reis Robotics.

Laser hybrid welding and new large gantry for laser ...

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.

Laser Material Processing - an overview | ScienceDirect Topics
Impact welding processes have the advantage of presenting a very short-

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cycle time, which minimizes the interaction of the materials under high temperature. This strongly contributes to reducing the formation of brittle intermetallic layers, i.e. one of the main concerns in dissimilar welding.

Metals | Special Issue : Impact Welding of Materials

Reis Robotics is a one of the leading technology companies for robotics and system integration. Their robotic automation solutions are used many application fields such as solar energy, foundry and welding. Reis Robotics comprises three German subsidiaries and eight international subsidiaries as well as representative agencies in many countries.

Reis Robotics - 3D CAD Models & 2D Drawings

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The informal style of Laser Material Processing (4th Edition) will guide you smoothly from the basics of laser physics to the detailed treatment of all the major materials processing techniques for which lasers are now essential. • Helps you to understand how the laser works and to decide which laser is best for your purposes.

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