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***EXPERIMENTAL INVESTIGATIONS OF CO2 LASER CUT QUALITY OF ...
Journal of Scientific & Industrial Research Vol. 73, June 2014, pp. 387-393 Experimental investigation of CO2 laser cutting on AISI 316L sheet A Parthiban*1, R Ravikumar2, H Abdul Zubar3 and M Duraiselvam4 . 1* Department of Mechanical Engineering, Jayaram College of Engineering & Technology Tiruchirappalli, Tamil Nadu, India***

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Experimental investigation of CO laser cutting on AISI ...

Experimental investigation of hydrodynamics of melt layer during laser cutting of steel Koji Hirano^{1,2} and Remy Fabbro¹ ... In a laser cutting process, understanding of the hydrodynamics of melt layer is significant, because it is an important factor which controls the final quality. In this work, we observed the

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Experimental investigation into CO₂ laser cutting parameters. ... The cutting parameters include workpiece thickness, assisting gas pressure, cutting speed and laser output power. The study is extended to include monitoring of the surface plasma developed during the cutting process, which in turn provides information on the effect of the ...

Experimental investigation of the effect of the laser beam ...

cutting of mild steel of 6 mm thickness by laser cutting using L-27 orthogonal array and Response Surface Methodology (RSM) for parametric analysis perceived. RSM is selected to map the experiment that surface roughness ... Experimental, Investigation, and, Analysis, of, Process, Parameters, in, Laser, Beam, Machining, of, Aluminium, Alloy, 8011 ...

Experimental Investigation, Modelling and Comparison of ...

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Experimental investigation into CO 2 laser cutting parameters As laser systems are becoming more demanding, the need for developments in the area of monitoring, diagnosis, regulation and modeling becomes essential to achieve and maintain a high-quality cutting process.

***Experimental Investigation and Analysis of Laser Cutting ...
Experimental Investigation and Optimization of Laser Cutting Parameters for Solar Cells Based On Taguchi Method. Article (PDF Available) · March 2018 ...***

***Experimental Investigation on Fiber Laser Cutting of ...
EXPERIMENTAL INVESTIGATION OF LASER TECHNIQUE TO OPTIMIZATION OF LASER PROCESSING PARAMETER Kumavat M.M.1, Deshmukh A.P.2, Matsagar P.B.3, ... To investigation of the Laser Beam Cutting (LBC) on Acrylic Sheet. [d] To locate the best parameters that can create the finest***

***Experimental investigation on laser cutting of aluminium ...
This study successfully applied multi-mode laser cutting with the variation of the laser cutting speed to cement mortar for the first time. The effects of the amount of silica sand in the cement mortar on laser cutting are tested and analyzed. The kerf width and penetration depth of the specimens after laser cutting are investigated. As the laser cutting speed increases, the penetration depth ...***

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Experimental investigation into CO 2 laser cutting ...

laser cutting of various engineering materials with special emphasis on experimental investigations that dealt with analyzing process parameters that affect the cut quality characteristics. In addition it reports about the most used types of experimental plans used.

Improving laser cutting quality of polymethylmethacrylate ...

Laser cutting is one of the most widely used thermal energy based non-contact type advance machining process. In recent years, considerable experimental investigations have been carried out aiming...

(PDF) Experimental Investigation and Optimization of Laser ...

through the kerf. Sulaiman et. al.,[8]have studied laser cutting of the plain-weave carbon/carbon fibers and the effect of laser power on kerfwidth and the size of striation formation. The . Experimental Investigation, Modelling and Comparison of Kerfwidth in Laser Cutting of GFRP Pathik Patel, Bhavin S. Modi, Saurin Sheth and Tejas Patel C

The experimental investigation of water jet–guided laser ...

Therefore, investigation into laser cutting of alumina tiles and the efficiency analysis becomes essential. In the present study, laser cutting of alumina tiles with 3 mm thickness is carried out and thermodynamic analysis associated with the efficiency analysis is introduced. The lump parameter method is incorporated in the

thermodynamic analysis.

Experimental investigation into CO2 laser cutting ...

Motivated by the need to enhance the kerf quality during cutting of Poly(methyl methacrylate) (PMMA) sheets using pulsed CO 2 laser beam, this study presents an experimental investigation and optimization of laser cutting parameters including cutting speed, assisted gas pressure, laser beam power, and sheet thickness.

Experimental investigation of the effect of process ...

The CO 2 laser cutting of three polymeric materials namely polypropylene (PP), polycarbonate (PC) and polymethyl methacrylate (PMMA) is investigated with the aim of evaluating the effect of the main input laser cutting parameters (laser power,

Experimental Investigation and Analysis of Process ...

Experimental investigation on laser cutting of Aluminium alloy BS 1100 sheet using CO 2 laser J.Sebastin Joyal1, ... Abstract- Laser cutting has been considered as a one stop solution for the industrialists for cutting sheet metals of any material and thickness.

Laser cutting of polymeric materials: An experimental ...

The paper presents the results of experimental investigation of the effect of the beam polarization on the quality of the oxygen-assisted laser cutting of steel by a CO₂-laser. Under consideration is the effect of the laser cutting

parameters by the beam with the linear polarization on the cut surface roughness.

Experimental investigation of hydrodynamics of melt layer ...

The experimental results showed that water jet-guided laser had a finishing effect on the final workpiece surface, just like the trim cut in wire electric discharge machining. All in all, water jet-guided laser technique is a potential processing method for CFRP and the follow-up researches should be conducted.

EXPERIMENTAL INVESTIGATION OF LASER TECHNIQUE TO ...

Laser cutting of AL6061T6 alloy was conducted to investigate the effects of process parameters on cutting region temperature and cutting edge quality. The process variables are including cutting speed, laser power, sheet thickness and nozzle stand-off distance.

Experimental Investigation of Multi-mode Fiber Laser ...

An experimental study of the pulsed laser milling process for a sintered polycrystalline diamond is presented. The characteristics and quality of the cavities machined with a Yd laser under different pulse energies, pulse overlaps, scan overlaps and numbers of passes are discussed, together with the effects of these parameters on the cavity profile, depth of cut and surface roughness.

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