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Experimental investigation into
CO2 laser cutting parameters
Bekir S. Yilba Department of
Mechanical Engineering, King
Fahd University of Petroleum and
Minerals, Dhahran 31261, Saudi
Arabia Received 21 November
1994; accepted 20 July 1995
Industrial summary The quality of
laser cuts is of the utmost
importance in laser processing.

*Experimental investigation into
CO2 laser cutting ...*

Abstract. A three-dimensional
analytical model of pulsed laser
cutting has been developed,
particularly aimed at predicting
the quality of cut under various
cutting conditions. The model is

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Based on infinitesimal point heat sources, representing the effect of the laser beam on the surfaces inside the cutting zone, and it includes the contribution of the oxygen reaction to the heating of the metal.

Theoretical and Experimental Investigation of Pulsed Laser ...

Laser cutting Cutting region
Temperature Cutting edge quality
ABSTRACT 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 standoff distance. It is found that mea-

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Experimental investigation of the effect of process ...

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...

(PDF) Experimental investigations of CO2 laser cut quality ...

In the first part of the experimental activity, investigation on the effect of cutting speed and assist gas pressure on Ti6Al4V 1mm thick sheets cut with fibre laser was carried out.

(PDF) Experimental investigation

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On fiber laser cutting of...

The CO₂ 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, cutting speed and compressed air pressure) on laser cutting quality of the different polymers and developing model equations relating input process parameters with the output. The output quality characteristics examined were heat affected zone (HAZ ...

Laser cutting of polymeric materials: An experimental ...

V. EXPERIMENTAL DETAILS The

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Investigation of experiments was enforced with CO₂ laser beam system (Model: TLC1000) delivering maximum peak power of 15 kw. The experimental set up of laser cutting process was shown in Fig. 3.

Experimental Investigation and Analysis of Process ...

This paper experimentally investigates the cut quality of laser cutting for the age hardened Inconel 718 nickel based super alloy, with the use of a continuous CO₂ 4.0 kW laser cutting system.

(PDF) Laser cutting process - A Review

This study reports on complete glass cutting using a single CO₂ laser beam with a low power of

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Several tens of watts. In this study, the morphological characteristics of a cut surface and the process window for complete cutting were investigated at various process conditions.

Experimental investigation on the CO₂ laser cutting of ...

The CO₂ 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, cutting speed and compressed air pressure) on laser cutting quality of the different polymers and developing model

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Equations relating input process parameters with the output.

Laser cutting of polymeric materials: An experimental ...

This paper presents the results of titanium alloy laser cutting using a 2 kW fiber laser. The cutting process was performed in continuous wave mode and using Argon as shear gas. Laser cuts were realized on titanium alloy Ti6Al4V sheets 1mm thick. Image analysis and microscopy, were carried out to examine the cutting edge quality features including thickness of the recast layer and heat-affected zone

Experimental investigation on fiber laser cutting of ...

Motivated by the need to

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Enhance the kerf quality during cutting of Poly(methyl methacrylate) (PMMA) sheets using pulsed CO₂ 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. The kerf quality characteristics including the top kerf width, bottom kerf width, and kerf taper have been considered as the process responses and have been measured using ...

Improving laser cutting quality of polymethylmethacrylate ...

Abstract. A theoretical model has been developed for simulating the laser grooving process. It

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takes into account the interaction among subsequent pulses, the required time for the melting temperature to be reached and the subsequent removal of a finite volume of material during each laser pulse. The model predicts the maximum groove depth that can be achieved for a specified set of process parameters, such as laser power, pulsing frequency, and scanning velocity.

Theoretical and experimental investigation of pulsed laser ...

This experimental study investigated the applicability of the laser cutting technique using a multi-mode continuous fiber laser to cement-based materials. The parameters tested in this

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Research were three material compositions with different amounts of silica sand, and six laser cutting speeds, from 4 m/min. to 14 m/min.

Experimental Investigation of Multi-mode Fiber Laser ...

orthogonal array in order to investigate the effect of laser cutting parameters: Laser Power, Cutting Speed and Gas Pressure on cut quality parameter kerfwidth. Based on the experimental K results, Second Order Regression, Artificial Neural Network (ANN) and Fuzzy Logic (FL) based predictive models have been developed.

Experimental Investigation, Modelling and Comparison of ...

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In this paper, an experimental and numerical investigation of low power laser cutting of cotton fiber laminate (CFL) is presented. CFL is very useful for electrical insulation applications at low...

Experimental and numerical investigation on multi-pass ...

Experimental investigations on Nd:YAG laser cutting of silicon nitride Experimental investigations on Nd:YAG laser cutting of silicon nitride Kuar, A.S. ; Doloi, B. ; Bhattacharyya, B. 2005-01-01 00:00:00 A laser beam has great ability to machine very hard conductive as well as non-conductive materials such as high speed steel, ceramics, and diamonds, etc. Present paper includes the parametric ...

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