

A REVIEW ON MACHINING PROCESS OF GLASS MATERIALS

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Abstract — This paper provides an intensive literature review to enhance machining process on brittle materials glass taken into consideration. The paper starts with the classification of current & past manufacturing processes based on the processes being used for machining of glass material. The major part of this paper reviews existing machining processes used machined to glass material reported over the past two decades. Finally this paper attempts to identify output results with respective their machining process.

I. INTRODUCTION

Glasses used as key structural material for optical, bio and chemical devices due to their excellent & superior properties such as high strength, hardness thermal resistance, corrosion resistance, wear resistance, relatively light weight high chemical and heat resistance, high electrical isolation, low optical absorption, amorphous solid material, large optical transmission range and biocompatibility [6][9][12][34][38][35]. However, such materials are generally difficult-to-machine due to the properties of extreme hardness, brittleness[27][6][9][19]. Glass also has the distinction of being transparent and having low electrical as well as thermal conductivity. It is increasingly being used in micro fabricated devices like solid oxide fuel cells, pumps, optics, electronics part, biomedical diagnostics, thermodynamics fluidics reactors, micro-electromechanical systems(MEMS)[24][25][33][37][14][19]

II. CLASSIFICATION OF MACHINING PROCESS

A. Abrasive Water Jet Machining (AWJM)

The Authors investigated on machining of borosilicate glass by AWJM. Depth of cut is measured with different machine parameter of water pressure, abrasive flow rate, traverse speed and standoff distance. Particle swarm optimization is used to for optimization parameters [1].The Surface roughness and kerf taper ratio aspect were studied of machining of glass/epoxy composite laminate Material & also produce a better quality of cuts for that Taguchi's design tool used for experiments and analysis of variance[2].The taper of cut slot increases with increase in standoff distance. Garnet abrasives produce a larger taper of cut followed by Al_2O_3 and SiC. The taper of the cut also increases with increase in work feed rate. The average width of cut produced by SiC is higher

in this case[15].Micro machining and fluid polishing of glass using stagnation produced under the jet nozzle by using this technique crack-free machining of micro grooves & polishing of micro channels was done[21]

B. Micro Abrasive Air Jet Machining (MAJM)

Predictive mathematical models for the erosion rates in micro-hole drilling and micro-channel cutting on glasses with an abrasive air jet are developed. This model prediction provides better experimental results[10] The Authors conducted Machining of glass by abrasive jet machining while the glass is cooled to a low temperature by using a liquid Nitrogen. Due to this technique Material removal rate of glass was increased [22].The experimented results shows that micro-grooving on glass. Results obtaining that combination of the fine-tuning of the masking process & MAJM. This is applicable for micro-machining of semiconductors, electronic devices & LCD[27].The author optimized machining parameters such as Standoff distance, Pressures and different Nozzle Diameters by using Taguchi Method & this method compared to Analysis of Variance(ANOVA). The output results found out MRR & KERF[30].In this paper discusses abrasive-jet machining of glass by using silicon carbide or aluminium oxide abrasives were mixed with air & directed at high velocity onto the glass and because of that optimum MRR was found to be 10mg/min[32] The Author has been produced Analytical models for prediction of the shape, sidewall slope, and depth of abrasive jet micro-machined planar areas. In that developing two techniques (i) machining micro-channels adjacent to the planned planar area, and (ii) Target oscillation with an obliquely. This technique used for machining of flat planar areas at a single elevation [11]

C. Abrasive Slurry Jet Micro Machining(ASJM)

The authors studied the effect of dilute polymer solutions on the width, shape, and centreline roughness of micro-channels machined using new developed abrasive slurry-jet micro-machining (ASJM) apparatus. The results found out little

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