

The effective impact of using computer programs in design of glass jewelry using casting method

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The Abstract:

Computer technology has achieved tremendous success regarding design and productivity requirements in various branches of science and arts, contributing to the development and progress of design and production systems in general. The field of glass jewelry is one of the important fields in which computer can play an influential role in the design and production.

This role is evident through the possibility of using the computer in various stages of glass jewelry Design, even rendering and modeling. The uses of computer programs in that field are numerous and variable. This research tries to identify the most important of these programs and their impact on the design of glass jewelry produced by casting method, and hence the research problem which is the lack of use of the computer potentials in enriching the design system for glass jewelry produced by casting method

The objective of the research is to develop a set of scientific and technical foundations to take full advantage of computer potentials as an added value to enrich the design process and develop non-stereotyped alternatives to the design of glass jewelry produced by casting. The research assumes that by using computer capabilities and analysis of glass design systems, the most important scientific and technical foundations for enriching the design system can be reached.

The importance of this research is its contribution in the development of the field of glass jewelry industries and enriching the scientific library in the field of glass design using computer. The research is limited by the use of computer software (Rhino) for glass jewelry produced by casting method through analytical and experimental methodology.

The research dealt with a number of axes which include showing the possibility of using the computer in glass jewelry industry, and laying down the basics for using the Rhino program in the design of glass jewelry produced by casting method through a series of experimental studies. The main research result is laying down scientific and technical foundations for using the Rhino program in the design of glass jewelry produced by casting method.

Keywords:

Computer Software - Glass jewelry - Glass Casting.