

陶瓷工艺品灌浆成坯随行夹具设计

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摘 要

陶瓷注浆成型是把泥浆注入石膏模具中使之成为制品的一种成型方法。花瓶、茶壶、品锅、糖缸等形状较复杂的制元多果用注浆成型法。随着科技的发展，自动化智能化技术在各行业的应用。为了变革在陶瓷工艺品注浆成型生产过程中的工作环境以及提高生产效率，本课题对陶瓷注浆成型自动化生产线中的随行夹具展开了研究，对陶瓷工艺品注浆成型工艺进行了分析，对陶瓷注浆成型模具输送提出了解决方案。主要有以下工作内容

- (1) 分析陶瓷注浆成型的工艺过程和加工要求；
- (2) 根据功能性能要求，设计夹具结构；
- (3) 分析和确定石膏模具组件在随行底板上的定位和夹紧；
- (4) 通过相关设计计算及查阅设计手册，完成各种标准件和外购的选型；
- (5) 建立结构三维模型并绘制二维工程图纸。

关键词：工陶瓷注浆；随行夹具；注浆成型

DESIGN OF FOLLOWING FIXTURE FOR GROUTING AND BLANKING CERAMIC CRAFTS

ABSTACT

Ceramic grouting is a method of forming products by injecting slurry into gypsum moulds. Flower vases, teapots, tasting pots, sugar cans and other complex shapes of multi-fruits are made by grouting. With the development of science and technology, the application of automation and intelligence technology in various industries. In order to change the working environment and improve the production efficiency in the production process of ceramic craft grouting, the following fixture in the automatic production line of ceramic craft grouting has been studied, the grouting process of ceramic craft has been analyzed, and the solution for the transmission of ceramic grouting mould has been put forward. The main contents are as follows.

- (1) Analyzing the technological process and processing requirements of ceramic grouting;
- (2) Design fixture structure according to functional requirements;
- (3) Analyse and determine the location and clamping of the gypsum die assembly on the traveling bottom plate;
- (4) Complete the selection of standard parts and outsourcing through relevant design calculation and consulting design manuals;
- (5) Building three-dimensional model of structure and drawing two-dimensional engineering drawings.

Keywords: Process design; Gear drive; Fixture design

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