

题 目：三翼自动旋转门设计

毕 业 论 文 中 文 摘 要

三翼自动旋转门作为自动门中的顶级产品，旋转门给人以亲切大方的感觉，同时营造出奢华的气氛，堪称建筑物的点睛之笔。

该论文主要论述了三翼自动旋转门的设计过程，主要对门体、驱动系统、控制系统、安全系统做了详细的分析和设计，提出了采用铝合金和玻璃等组成门体框架。驱动部分由减速电机和齿轮箱减速机构组成，且安装在门中心顶部的华盖内。控制系统用 PLC 负责完成控制任务，由变频器来实现门体多种转速的调节功能。安全系统采用红外线传感器检测进出旋转门的人员流动，使用多个接触式和非接触式传感器及光电接近开关来确保通行安全。设计出了一种安全可靠实用的三翼旋转门。

关键词： 旋转门 结构 系统 设计

毕 业 论 文 外 文 摘 要

Title _____Computer Aided Design_____

Abstract

Three wings automatic revolving door is leading products in automatic doors, it can give generously warm and feeling and creating luxurious atmosphere, Meanwhile, it is a eye in modern buildings .

This paper mainly discusses the design about gate body system、transmission system、control system and safely system of the three wings automatic revolving door.It proposed that the door frame is composed of glass and aluminum framework. Transmission system is fixed on the top of shaft that include a reduer and gears transmittion. PLC is responsible for the task of controller and the function of rotational speed is rely on the VVF. People passing in and of the revolving door is checked by the infrared ray sensor, the safety of people are ensured by many contact and non-contact sensors and photoelectric proximity switches. Ultimately, have designed a kind of function practical、safety dependably revolving door.

Key words : Revolving door, Structure, System, Design

以上内容仅为本文档的试下载部分，为可阅读页数的一半内容。
如要下载或阅读全文，请访问：

<https://d.book118.com/678003130034006137>