

## 摘 要

本文主要是进行一个立体车库的横移机构的设计。本文的立体车库的横移机构主要是从横移机构的横移传动方案、横移传动工作原理和组成的零部件结构进行设计。

立体车库横移机构是立体车库不可或缺的一个机构部分，对立体车库的停放车操作有很大的作用。立体车库横移机构的作用主要是将载车板从它所在的停车位上横移到相邻的空停车位上。本文对各种不同类型的立体车库进行了一个详细的分析，最后选择了一种常见的立体车库类型——升降横移类立体车库的横移机构作为本次论文的设计。横移机构的整体结构主要是由横移传动机构和钢架等组成，因此本文对横移传动机构和横移机构各零部件的结构进行了分析，主要包括传动方案的选择、传动轴的选择与计算及其他组成零部件的设计与计算等。

**关键词：** 立体车库；升降横移类；横移机构；设计

## ABSTRACT

This paper is mainly about the design of the traverse mechanism of a three-dimensional garage. In this paper, the traverse mechanism of the three-dimensional garage is mainly designed from the traverse transmission scheme, traverse transmission working principle and component structure.

The moving mechanism of the three-dimensional garage is an indispensable part of the three-dimensional garage, which plays an important role in the parking and taking operation of the three-dimensional garage. The function of the moving mechanism of the three-dimensional garage is to move the car board from its parking space to the adjacent empty parking space. In this paper, a detailed analysis of different types of three-dimensional garage is carried out. Finally, a common type of three-dimensional garage, lift and traverse, is selected as the design of this paper. The overall structure of the traverse mechanism is mainly composed of the traverse transmission mechanism and the steel frame. Therefore, this paper analyzes the structure of the traverse transmission mechanism and the parts of the traverse mechanism, mainly including the selection of the transmission scheme, the selection and calculation of the transmission shaft and the design and calculation of other components.

**Keywords:** Stereo garage; Lifting and Traverse; Traverse mechanism; Design

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