

摘 要

装载机属于铲土运输机械类是工程机械的主要机种之一，是一种通过安装在前端一个完整的铲斗支撑构造和连杆，随机器向前运动进展装载或挖掘，以及提升、运输和卸载的自行式机械。它广泛用于建筑、矿山、水电、桥梁、铁路、大路、港口、码头等国民经济各部门等工程建设中。装载机具有作业速度快、效率高、机动性好、操作轻松等优点，对于加快工程建设速度，减轻劳动强度，提高工程质量，降低工程本钱都发挥着重要的作用。

装载机依据不同的使用要求，进展形成了不同的构造类型。通常，按使用场合的不同，分成露天用装载机和井下用装载机；按行走系统构造不同，分成轮式装载机与履带式装载机；按卸料方式不同，分为前卸式〔前端式〕、后卸式与回转式装载机。

此次设计针对的是 ZL50 装载机铲斗的设计，依据铲斗的铲斗设计要求和铲斗斗型的构造的分析来确定切削刃的外形，铲斗的斗齿，铲斗的侧刃，斗体外形，铲斗的具体参数数据，铲斗容量等。这次设计可以说是一次的尝试。由于本人设计水平有限，设计过程中难免会存在一些考虑不周之处，敬请各位教师批判指正。

关键词：工程机械，装载机，铲斗

ABSTRACT

Loader belong to shovel transport machinery is one of the main model of engineering machinery, is a kind of through the installed in front of a complete bucket support structure and connecting rod, with machine move forward for loading or mining, and ascension, transport and unloading of self-propelled machinery. It is widely used in construction, mining, water and electricity, Bridges, railways, highways, ports, docks sectors of the national economy such as engineering construction. Loader has operation speed, high efficiency, good maneuverability, convenient operation, etc., and to speed up the construction speed, reduce labor intensity, improve the engineering quality, reduce the cost for the project are play an important role.

Loader according to different application requirements, development formed different structure types. Usually, according to the using situation is different, divided into open with loader and underground with loader; According to the running system structure is different, divided into wheel loader and crawler loader; According to the discharge different ways, divided into before discharge type (front type) and after discharge type and rotary loader.

This design is aimed at ZL50 loader bucket design, according to the bucket bucket design requirements and shovel bucket type structure analysis to determine the shape of the cutting edge, the bucket bucket tooth, the bucket side blade, bucket body shape, bucket specific parameter data, bucket capacity, etc. The design can be said to be a try. Because I design level is limited, the design process will inevitably there are some consideration not place, please join the teacher criticism and corrections.

KEYWORDS: engineering machinery, loader, bucket

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