

## 题目： 橡胶切割机毕业设计

### 摘要

随着我国橡胶工业不断的发展,对于天然橡胶的市场需求量不断的增加,机械技术的好坏和优劣直接的影响天然橡胶的产量。科技的发展和进步必然使我们大大推动生产企业割胶技术由传统人工作业向现代智能机械化作业方向发展,从而节省大量的人力物力,同时大幅提高生产效率。智能橡胶切割机是一种常用的橡胶机械切割装置,其主要的功能就是帮助广大用户快速完成切割,切割的效率较高。本类的课题由实际的生产和应用中提出,并且能够达到实际的要求。随着我国社会、经济的快速进步和发展,橡胶制品的市场需求和其应用越来越广泛。为了实现在我国的橡胶切割机械行业完全可以依靠自己的生产技术目标,因此在这个大的生产技术背景下提出了此类课题,即根据已有的相关设计资料,对于现有的先进橡胶切割机生产技术提出改进的设计方法,并对其进行了模拟和验算,从而达到更加实用和有效的生产技术目的。

本文主要是针对国外一家公司现有的橡胶切割产品,对其进行改进。在此次的设计中,在现有切割机的基础上,对带轮、刀具、齿轮、轴等橡胶切割相关的系统部件进行全面的分析和设计,着重研究设计了橡胶切割带轮与刀具减速器的配合,最后,希望此次设计结果能在实际中能够取得较好的效果。

**关键词：**橡胶；带轮；齿轮；刀具；轴；

## Abstract

With the continuous development of China's rubber industry, the market demand for natural rubber continues to increase. The quality of mechanical technology directly affects the output of natural rubber. The development and progress of science and technology will inevitably lead us to greatly promote the development of tapping technology in production enterprises from traditional manual operations to modern intelligent mechanized operations, thereby saving a lot of manpower and material resources, while greatly improving production efficiency. Intelligent rubber cutting machine is a commonly used rubber mechanical cutting device, its main function is to help the majority of users to quickly complete the cutting, the cutting efficiency is higher. The topics in this category are proposed by the actual production and application, and can meet the actual requirements. With the rapid progress and development of China's society and economy, the market demand and application of rubber products are becoming more and more extensive. In order to achieve the goal of relying on its own production technology in China's rubber cutting machinery industry, such topics are proposed in the context of this large production technology, that is, according to existing relevant design information, for existing advanced rubber cutting machines. The production technology proposes an improved design method, and simulates and calculates it to achieve a more practical and effective production technology. This article mainly aims at improving the existing rubber cutting products of a foreign company. In this design, on the basis of the existing cutting machine, a comprehensive analysis and design of rubber cutting system components such as pulleys, knives, gears, shafts, etc. focusing on the research and design of rubber cutting pulleys and tool deceleration. Finally, I hope that the design results can achieve better results in practice.

**Keywords:** pulley;gearing ;cutter;axle; improve

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