

## 犁面的计算机辅助设计

### CAD System of Plow Body Surface

投稿时间: 1992-1-26 最后修改时间: 1992-12-1

稿件编号: 19930212

中文关键词: 犁体曲面;十二参数设计法;计算机辅助设计

英文关键词: Plow body surface Twelve-parameter design method Computer -Aided- Design(CAD)

基金项目: 国家“七五”资助

作者	单位
吴成武	吉林工业大学
马成林	吉林工业大学
陈晓光	吉林工业大学
左春桎	吉林工业大学
李法来	吉林工业大学

摘要点击次数: 4

全文下载次数: 13

中文摘要:

为采用计算机辅助设计犁体曲面,提出以耕作速度为基础的十二参数设计法。通过其设计原理分析,建立数学模型,研制了计算机辅助设计硬、软件系统。应用该软件计算、绘制各种幅宽犁体曲面及犁面展开图方便、快捷,比人工设计提高工效20倍以上;按绘图试制的30cm幅宽犁体,经生产试验表明,较对照犁体使用性能良好,降阻10%左右。

英文摘要:

To develop CAD of plow body surface, 12-paramter plow design method is presented on the basis of plow velocity as primary design parameter. Through analysing design principle of plow body surface, mathematical model of plow body surface is established and a system of software and hardware of CAD is developed. Plow body surface drawing and its expending drawing with all sorts of plow body width is calculated and drawn by this software. The speed of drawing and expending plow body surface is 20 times faster than normal design, and the precision is high. Depending on the CAD system, NO. 34 plow body has been trial produced and tested. This article describes the comparative test results between No. 34 and BT-30 plow body in detail. Through all sorts of trial manufacture and tests, it has proved that performance of No. 34 plow body is better than BT-30, with resistance reduced by 10 percent.

[查看全文](#)

[关闭](#)

[下载PDF阅读器](#)

您是第606958位访问者

主办单位: 中国农业工程学会 单位地址: 北京朝阳区麦子店街41号

服务热线: 010-65929451 传真: 010-65929451 邮编: 100026 Email: [tcsae@tcsae.org](mailto:tcsae@tcsae.org)

本系统由北京勤云科技发展有限公司设计