

牧草复壮促生破土切根机设计 Design of Rejuvenation and Acceleration Root-cutting Machine

杨加庆 郭玉明

山西农业大学

关键词: 牧草 切根机 直切刀 设计

摘要: 针对典型草场板结严重且横走根茎错节致使自繁促生能力下降等问题, 设计了牧草切根机具。该机采用凸轮机构驱动直切刀对牧草进行垂直切根, 减小了切根阻力和切缝宽度, 通过简单操作可实现对不同间距、不同深度牧草进行切根作业, 从而达到切断亚表层下的横走根茎、改良草地, 扩繁促生的效果。经速度、加速度和受力分析证明, 该机满足了设计要求, 是比较理想的牧草切根机械。 In order to counter the problem of reduced health promotion ability in typical grass with compacted roots, a root-cutting machine was designed for pasture. The machine used cam-driven of direct cutter to cut root vertically, greatly reducing resistance and perturbations of soil surface while cutting the root, which reached easy work in varies of forage. The machine destroyed solid soil, improved grassland, and increased grass yield. As proven by analyzing the velocity, acceleration and force of the machine was able to meet the needs of designing. It is a more ideal agricultural machine for forage grass.

[查看全文 \(请使用Adobe Acrobat 6.0版本浏览\)](#) [返回首页](#)

[引用本文](#)