

自走式棉秆联合收获机设计与试验 Exploiture and Experiment of Self-walking Cotton-stalk Combine Harvester

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关键词: 棉秆联合收获机 自走式 喂入切碎机构 设计 试验

摘要: 阐述了自走式棉秆联合收获机的基本结构及工作原理,对总体结构、底盘配置及喂入切碎机构进行了设计和参数计算,采用纵向对称配置、简化喂入机构、交错对称布置切碎滚筒动刀等方法,实现了棉秆收割、切碎、集箱、自卸的一体化。试验结果表明作业流程安排合理,适用性较好,是棉秆资源规模化工业利用的适用设备。The basic structure and principle of cotton-stalk combine harvester were introduced. Whole configuration, chassis structure and feed cutter mechanism were designed. The automation in harvest, cut up, collection load, unload, was achieved, by adopting the following methods: principle of lengthways symmetric configuration simplification of feed mechanism, and configuration of the roller cutter by cross symmetry in left and right. The result indicate that the process is reasonable with the good applicability, which accelerates the development of cotton-stalk large-scale utilization.

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