

钢辊外卷式圆捆打捆机设计与试验 Design and Experiment on Round Baler with Revolute Steel Roller

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关键词: 圆捆打捆机 钢辊外卷式 设计 试验

摘要: 设计了由传动系统、牵引装置、捡拾器、喂入机构、成捆室、捆绳机构、液压系统以及卸草器等组成的钢辊外卷式圆捆打捆机, 简述了圆捆打捆机的工作原理以及关键部件的结构设计等。对圆捆打捆机的运动参数进行了设计计算, 对喂入机构的运动轨迹进行了描述, 分析了螺线型成捆室的特点。为检验圆捆打捆机的可靠性和适应性, 在不同的作业环境和条件下进行了性能试验和生产考核, 结果证明该机结构能够适应各种不同的作业环境。A round baler with revolute steel roller was designed. Based on the structure of the machine, the operating process and structural design of the key components of the machine were described simply. The baler was composed of driven system, drafting device, pickup, feeder, bale chamber, tying mechanism, hydraulic system and bale discharger, and so on. The movement parameters for the round baler were designed and computed. The motion trajectory of the feeder was described and the characteristics of the spiral-type bale chamber were analyzed simultaneously. In order to test the reliability and adaptability of the round baler, performance experiments and production evaluation were carried out under different operation conditions.

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