

4YF-1300型大方捆打捆机设计与试验 Design and Experiment of 4YF-1300 Large Rectangular Baler

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摘要: 针对玉米秸秆的打捆压缩特性和直燃发电对秸秆燃料规则捆型上料系统的要求,对打捆机的传动系统、物料捡拾和喂入系统、机械式预压缩室、压缩机以及液压密度控制系统进行了设计和参数计算。采用合理的捡拾喂入参数、二级预压缩原理和双液压油缸及其反馈控制系统保证了机器作业的可靠性。试验结果表明:4YF-1300型大方捆打捆机样机的打捆率达到了97.2%,规则捆包率为94.4%,捆包密度达到了190~210 kg/m<sup>3</sup>。The basic structure and work principle of large rectangular baler were introduced. To satisfy the bundling compression property of maize straw and the load system require of burning straw generate electricity, gearbox, materiel collect and feed system, mechanical pre-compressing unit, baler plunger and hydraulic control system were design and computed. Collect and feed parameter, second pre-compressing principle and hydraulic control system were reasonably adopted to ensure the work dependability. The result indicated that the fully bale rate of 4YF-1300 large rectangular baler can achieve 97.2%, the regular bale percent is 94.4%, and bale density can achieve 190~210 kg/m<sup>3</sup>, which can satisfy the performance request of large rectangular baler.

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