

自走式棉秆捡拾收获机设计与试验 Design and Experiment of Self-propelled Cotton-stalk Combine Harvester

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关键词: 棉花秸秆 捡拾装置 输送装置 联合收获机

摘要: 针对我国长江、黄河流域棉秆收获问题, 设计了适用于冠状交织木质化秸秆的捡拾输送装置和自适应弹性夹持喂入结构, 并将棉秆的捡拾输送、切碎、抛送装箱和自动卸料功能集于一体。经试验验证, 平均喂入量为1.52 kg/s, 切碎长度合格率为92.11%, 平均生产率为0.94 hm²/h, 可以达到棉秆收获机械化作业的要求。 In view of the present situation regarding cotton-stalk harvest in the Yangtze valley and the Huanghe valley, a collecting and adaptive spring holding feed mechanism for interweave cotton-stalks was developed. This combine harvester integrated pick-up, cutting, collection loading and unloading. The results indicated that a feed quantity of 1.52 kg/s, average cut length of cotton-stalk of 92.11%, and average throughput of 0.94 hm²/h could be achieved by the experiment, which satisfied the automatic request of cotton-stalk combine harvester.

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