

纵轴流脱粒分离-清选试验台设计 Development on Test-bed of Longitudinal Axial Threshing-separating-cleaning Unit

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关键词: 纵轴流 脱粒装置 清选装置 试验台

摘要: 设计的纵轴流式脱粒分离【CD*2】清选试验台以切流与纵轴流组合式脱粒分离装置、风筛式清选装置为核心,采用可组合的模块化结构,工作部件结构和运动参数的调整简单、方便,可获得多个工况下脱粒分离、清选性能指标以及脱出物的分布规律。试验台以工控机和信号采集卡作为硬件控制系统的核心,采用VC++编写的测控软件系统可以对试验过程中工作部件的转速、频率、扭矩和功率等参数进行实时采集、显示、处理与分析,为纵轴流联合收获机脱粒分离、清选装置等关键部件的设计提供了依据。 An axial threshing-separating-cleaning test-bed with easily adjustable working parts and parameters was developed based on the modularization design. The threshing-separating-cleaning index mark and the distribution of materials after rethreshing was acquired under different working conditions. With industrial computer and acquisition cards as control center, a measurement and control software were programmed to collect, display and analysis data of motional parameters such as rotational speed, vibration frequency, torque and power consumption, et al. The experiments on the test-bed can provide the data for the optimization of cleaning mechanism structure and working parameters for axial combine harvester.

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