

中心传动强推式精密排种器设计 Design for Precision Metering Device with Center Transmission

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关键词: 精密排种器 推种轮齿 排种孔 设计

摘要: 针对机械式多功能精密排种器传动轴不在排种轮中心的问题, 采用新的推种轮齿形曲线, 使推种轮位置降低, 传动轴在排种轮中心。研究确定了不同种子对应排种轮孔径和数量的关系, 测定了排种器的排种量、种子破损率和可靠性, 设计了中心传动强推式精密排种器。Aimed to the problem that the transmission axis of the multiple functions of precision seed-drilled appliance is not in the center of the seed-drilled wheel, the new curve for seed pushing wheel was applied, to lower the location of seed pushing wheel, and locate the transmission axis in the center of the seed pushing wheel. Furthermore, the aperture and number of the seed pushing wheel for different seeds were investigated, and the seeds amount of per hole, the rates of broken seeds and the reliability were all measured. The new type precision seed-drilled appliance has been produced, and been applied in multiple types drills successfully in present.

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