

玉米全膜覆盖双垄沟播机直插式播种装置设计与仿真 Design and Simulation of Direct Insert Corn Planting Device of Furrow-Seeder with Whole Plastic-film Mulching on Double Ridges

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关键词: 玉米播种机 全膜覆盖 直插机构 设计 仿真

摘要: 设计了旱地玉米全膜覆盖双垄沟播机直插式玉米播种装置, 采用凸轮和曲柄组合机构控制成穴器, 实现播种时间段成穴器水平绝对速度为零。在ADAMS/View中用相对轨迹曲线生成实体的方法设计了凸轮, 对直插式播种装置进行仿真分析, 测试了成穴器的位移、速度、加速度, 结果表明该装置满足设计要求。 A direct insert corn planting device with whole plastic-film mulching was designed on double ridges in dry land. The horizontal absolute velocity of hole-former was made zero at seeding time by using cam and crank combination mechanism to control it. The direct insert planting device was simulated to measure the hole-former's displacement, velocity and acceleration, with the cam designed based on relative path curves in the ADAMS/View. The simulation results showed that the seeding device met the requirement of design.

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