免耕播种机玉米根茬处理装置破茬性能试验

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摘 要： 在有玉米根茬的未耕地上免耕播种时存在玉米根茬影响播种质量的问题，为此在播种机上设计了处理玉米根茬的装置。采用4种结构类型的切挖刀和切刀进行室内土槽单刀试验和组合试验，研究其阻力矩和破茬质量。试验结果表明，A4型刀和切刀组合时破茬质量最好，玉米根茬切茬率达92%、清除率达96%，可以创造基本无玉米根茬的种床条件，有利于种子生长发芽。 In order to directly plant in the no-tillage fields with corn rootstalks, a new type on-tillage planter equipped with cutting and digging corn rootstalk mechanism has been developed. The working performance of the mechanism and single blade resistance torque were been experimented in the soil bin using four different kinds of digging blades and a kind of cutting blade. The testing results showed that the performance of dealing with rootstalks is the best using combination blades of digging blade A4 with cutting blade and the rate of cutting and clearing rootstalks away from the seeding bed is approximately 92% and 96% respectively. The mechanism can creat better condition for seeds that there is nearly no rootstalks in the seeding bed.

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