

种子玉米机械脱粒最佳施力方式试验 Experiment on Optimal Forcing Method for Seed-corn Thresher

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关键词: 种子玉米 脱粒 最佳施力方式 纵向弯曲力

摘要: 为深入研究种子玉米脱粒特性和脱粒损伤机理,改进玉米脱粒机,降低脱粒损伤,提高脱粒效率,以隆迪401玉米种子为对象,应用LDS微机控制电子拉压试验机进行了脱粒试验,研究了玉米种子品种、含水率、作用部位及不同约束性质下的种子玉米脱粒力学特性。结果表明:在同样试验条件下,玉米穗大端籽粒脱粒较容易,小端次之,中部较难;纵向弯曲力小于侧向弯曲力,侧向弯曲力小于压力;种子玉米脱粒时的最佳施力方式为纵向弯曲力。

In order to research threshing seed-corn identity and damage mechanism, improve threshing principle, reduce damage and enhance efficiency, the threshing experiments for Longdi 401 seed-corn were carried out by using the LDS microcomputer control and electron draw press test machine, to investigate the effects of variety, moisture condition, force position and restriction property. The results show that under the same condition, it's easiest at corn bottom fringe to thresh, the second is at top fringe and the last is middle fringe; the longitudinal bending force is the optimal forcing method for threshing.

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