

2BMG-24型小麦免耕播种机设计 Design of 2BMG-24 No-till Wheat Planter

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摘要: 在内蒙古、新疆等大型农场,随着大马力拖拉机的增加,中小型小麦免耕播种机已经不能满足动力发展的需要,限制了保护性耕作的推广实施,急需研究与大马力拖拉机配套的大型免耕播种机。本文设计了2BMG-24型小麦免耕播种机,采用控制式密齿型排种器、波纹圆盘和双圆盘组合式开沟施肥播种单体,实现了精少量排种、破茬开沟和种肥分施的小麦免耕播种。田间试验表明:播种深度合格率为91%;排种均匀性变异系数为28%;种子破损率为0.1%。初步田间试验表明该机作业性能与国外同类产品相当。Medium-small no-till wheat planter hasn't already satisfy power need with the development of high-power tractor in the Mongolia and Sinkiang large farms, which restricted the application of conservation tillage. Therefore, it is necessary to study the large no-till planter matching with high-power tractor. Adopted the controlled flume dense dentiform seed meter to perform precision metering, the 2BMG-24 no-till wheat planter was designed. Furthermore, the wavy disc coulters were used to cut stubble for sowing, and the double disc coulters were used to open furrow for fertilizing. The results of field test showed that the eligibility ratio of seed depth, the variance coefficient of metering equality and the seed damaged rate were 91%, 28% and 0.1%, respectively. The operating performance of this machine was equal to that of the overseas machines. At the same time, the cost was much lower than them, reduced by 60%~70%. Its application can save 16 kg/hm² fuels and increase 15%~20% incomes. Thus, the 2BMG-24 no-till wheat planter can meet with the need of large farms, which is an indispensable equipment for the development of the China conservation tillage.

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