

小麦免耕播种机防堵装置性能对比试验 Comparative Experiment on Anti-blocking Mechanism for Wheat No-till Planter

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摘要: 驱动链式、驱动圆盘式和带状旋耕式3种小麦免耕播种机防堵装置具有不同性能和适应性。通过田间性能对比试验,分析了装有不同防堵装置的小麦免耕播种机通过性、土壤扰动量、单位油耗、返青期小麦苗情和产量。试验结果表明:3种防堵装置在不同秸秆覆盖量的免耕地均能满足通过性要求,但在100%秸秆覆盖量情况下,带状旋耕式防堵装置通过性最好,驱动链式和驱动圆盘式防堵装置存在轻微堵塞;在土壤扰动量、单位油耗、小麦返青期苗情以及产量上,驱动链式防堵装置效果要优于驱动圆盘式防堵装置和带状旋耕式防堵装置。 Three kinds of anti-blocking mechanism, i.e. powered-chain, powered-disc and strip-rotating, for wheat no-till planting had different performance and adaptability, the passing ability, soil disturbance, fuel consumption, yield, etc., were analysed through field experiment. The experimental results indicated that all the three mechanism have the passing ability when the corn stalk is chopped and returned to the field. But the strip-rotating exceeds the others when 100% corn stalks residue covers the soil surface. Compared with strip-rotating and powered-disc, powered-chain has a less soil disturbance, fuel efficiency, better plant performance and yield.

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