

新型气压式精密排种器的试验研究

Experimental Study on a New Type Seed Meter

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中文摘要:

对最新研制的低压式精密排种器构造、工作原理和工作参数进行了理论分析, 试验研究排种盘转速、种子面高度和排种气压变化对排种性能的影响。对排种性能影响的主次因素顺序为排种气压、排种盘转速和种子面高度。在正常工作范围内, 种子面高度变化对排种性能综合指标的影响不大。气压式精密排种器, 已应用在2BQYF-6A气压式硬茬播种机上。

英文摘要:

A new type of seed meter using low air pressure was introduced; the structure, working principle and main parameters of the seed meter were expounded in this paper. And the effects on seeding performance were studied by experiments, which deal with the air pressure inside the seed meter, rotation speed of the disc and the height of the seeds' surface in seed-box. The results showed that the main factor is the air pressure inside the seed meter, and the height variation of the seeds' surface in seed-box almost doesn't affect the seeding performance. As a new type of seed meter, it has been employed in the direct seeder (model: 2BQYF-6A) successfully.

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