

啤酒花筛选原理与实验研究

Mechanism and Experimental Research on Hops Separation With Vibrating Screen

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中文摘要:

阐述了用振动筛分选啤酒花的基本原理,对筛上物运动学特性进行了分析,结合实验结果确定了提高啤酒花分选质量的相关参数,研究结果为啤酒花摘花机的设计提供了参考,在啤酒花的机械采收中有实用价值

英文摘要:

Separating hops with vibrating screen can greatly downsize the separation part of hops picking machine and reduce the manufacturing cost of the hops picking machine. The basic principles of hops separation with vibrating screen was discussed and the kinematical property of material on the screen was analyzed in this paper. Experiments showed that the separation quality was mainly influenced by the angle of vibrating direction, the angle of inclination of the vibrating screen and the revolution speed of the crank. Based on the experiments a mathematical model was established. It can be used to simulate the separation quality and optimize the parameters to improve separation process.

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