

Natthakorn Chuenkham 2009: The Development and Comparison of Centrifugal Type Sunflower Seed Hullers. Master of Engineering (Agricultural Engineering), Major Field: Agricultural Engineering, Department of Agricultural Engineering. Thesis Advisor: Assistant Professor Siwalak Pathveerat, Ph.D. 158 pages.

This experiment was study the effect of efficiency and comparison centrifugal type sunflower feed hullers to design and develop sunflower feed hullers. Three factor were as followed feeding rate, the effect of impact surface, impeller speed.

The results showed that the centrifugal type sunflower feed huller, horizontal axle. The husking efficiency of mild steel impact surface increased and the percentage of whole kernels, optimum feeding rate and impeller speed were 100 kg./hr. and 1,400 rpm(peripheral rate 21.99 m/sec), respectively. Feed efficiency of sunflower kernel was 36.52 % ,commercial kernel was 76.61% which from complete kernel 68.02 % and quarter kernel 8.59%

Centrifugal type sunflower feed huller, vertical axle. The husking efficiency of mild steel impact surface increased and the percentage of whole kernels, optimum feeding rate and impeller speed were 125 kg./hr. and 1,600 rpm(peripheral rate 25.13 m/sec), respectively. Feed efficiency of sunflower kernel was 24.36 % ,commercial kernel was 88.68 % which from complete kernel 84.83 % and quarter kernel 3.85 %

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Student's signature

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Thesis Advisor's signature

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