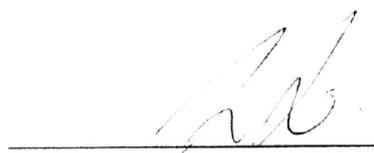


Montree Luengudomsinlapa 2007: Design of Sala Pulper-Finisher. Master of Engineering (Food Engineering), Major Field: Food Engineering, Department of Food Engineering. Thesis Advisor: Assistant Professor Chouw Inprasit, D.Eng. 226 pages.

This research was intended to design and test the sala pulper-finisher. The physical properties of sala and the factors that effect to the efficiency of sala pulp separation were studied. Besides, the efficiency of sala pulper-finisher was tested and also the quality (size) of the separated sala juice was studied.

The results showed that the geometric mean diameters of peeled sala and seed were 28.5 and 14.1 mm respectively. The weight of peeled sala and seed were 12.07 and 2.04 g respectively. Yield of sala was 61.68 %. The factors that effect to the efficiency of sala pulp separation had investigated by the test of pulper-finisher. The statistical analysis with correlations showed that the revolutionary speed of pulper-finisher was the most effect to the efficiency of sala pulp separation. The sala pulper-finisher with the diameter of screen opening 0.6 mm and the revolutionary speed 500 rpm was the maximum efficiency of sala pulp separation ($99.23 \pm 0.83\%$). The particle size of sala juice from pulper-finisher with the diameters of screen opening of 0.4, 0.6 and 0.8 mm and sala juice that separated by conventional method were measured. The average particle sizes of sala sediment were $20.746 \pm 2.378a$, $29.244 \pm 5.564a$, $23.611 \pm 10.202a$ and $4.487 \pm 0.702b$ μm respectively.


Student's signature


Thesis Advisor's signature

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