CUTTING MACHINE ENGINEERING CASSAVA BY USE OF METHOD CAM FOLLOWER

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Abstract

Home industry flaky cassava producer at this moment still use simple slice method, which is by use manual cutter, so require a lot of energy and long time. One of alternative to add efficiency and productivity which is make cutting machine by cam follower method.

This cutting machine makings is began from design knife drive mechanism. Count began by looks for the large of force at machine elements used (shaft, pin, belt, pulley), the large of motor power, and resulting capacity by cutting machine. Before making machine, look for the large of cutting force at cassava via attempt.

From test was gotten cassava cutting force rate as big as 7,6 kgf. Drive utilizes motor as big as 1 HP were resulted circle disk 128,9 rpm. Resulting capacity by machine as big as 55 kg/hours (for cassava Ø 6 mm with thick 2 mm).

Key word: cassava, cam follower, cassava cutter, flaky, crosscut thickness
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