

Evaluation of medium scale IPHT maize thresher

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Research and Development Center, Institute of Postharvest Technology, Jayanthi Mawatha, Anuradhapura 50000, Sri Lanka.

This study aims to evaluate a power driven maize thresher developed by Institute of Post Harvest Technology to optimize the threshing efficiency while reducing the cost of processing and time consumption for threshing. At optimum machinery settings (i.e. speed of 550 rpm), the machine capacity was 456.71 kg/h giving maximum threshing efficiency of 99% under 12% average moisture content of cobs. The optimum cleaning efficiency was 75% and power consumption for processing one kg of maize cobs was 0.48 kW/h. After threshing, percent broken grains, cracked grains and bruised grains were 3.06 ,6.26 and 4.62 respectively flour was 0.06 LKR.