

Title Design and development of semi-automatic cutting machine for young coconut

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Abstract

Semi-automatic cutting machine for young coconut was designed, fabricated and performance tested. The machine consists of 5 main parts: 1) machine frame 2) cutting base 3) knife set 4) pneumatics system 5) tanks for coconut juice and fruit. All food contact parts of machine made from food grade stainless steel. The machine is worked by placing a young coconut on the cutting base, then pressing a pneumatics control switch. The coconut is moved automatically into pressing unit and cutted half by a knife set. Coconut juice pours down into the tank and separated husks moves into the bin. The experiment found that the machine was safed and operated without destroy of the fruit. Total operating cost is about 0.083 baht/fruit.