**Banana Chip Making Machine With 2 in 1 Integrated System (Slicing And Frying) Equipped With Thermocontrol**

Raniya Nur Ningsih, Hima Nurwidya Timur, Bagus Dwi Pratama, Sha’id Khana’Fi, Roby Ferdian, Agung Prijo Budijono

State University of Surabaya

[Raniyanur36@gmail.com](mailto:Raniyanur36@gmail.com)

[himanurwidyatimur@gmail.com](mailto:himanurwidyatimur@gmail.com)

[shaidkuadrat87@gmail.com](mailto:shaidkuadrat87@gmail.com)

[robyferdian46@gmail.com](mailto:robyferdian46@gmail.com)

[agungbudijono@unesa.ac.id](mailto:agungbudijono@unesa.ac.id) \*(correspondence author)

**ABSTRACT**

**The purpose** This research is to create a prototype of Banana Chip Making Machine with 2in1 integrated system (slicing and frying) with thermocontrol, so that oil temperature during frying time is more awake and gas efficient.

**Methodology** This study was conducted by designing Banana Chip Making Machine with 2in1 integrated system (slicing and frying) equipped with thermocontrol, where the slicing process is done by using a moving knife with eccentric system. Then the sliced ​​banana will go straight into the frying pan with a controlled cooking temperature to produce a banana chip with a better maturity level.

**Result,** this research resulted in a prototype of Banana Chip Machine making machine with 2in1 integrated system (slicing and frying), after testing machine performance, it was found that this machine has a capacity of 4 kg / hr where, 20 minutes for incision and 40 minutes for frying with the frying temperature reaching 250 degrees Celsius.

**The findings,** This study found the design and prototype of Banana Chip Machine Maker with 2in1 integrated system (slicing and frying), where the machine produces better banana maturity.

***Keywords:*** *slicing machine, banana, thermocontrol, frying pan*