

CHAPTER 2

LITERATURE REVIEW

Yustisia (2009) conducted research about making chocolate mold, case study on CV Anugerah Mulia. This research objective was to develop Chocolate Monggo design, CV Anugerah Mulia's chocolate brand, in order to make it more attractive and have the uniqueness of Java. The design was developed based on market research which was done toward Chocolate Monggo's customers. The CAD/CAM process was done using ArtCAM Pro 9.

Hananti (2009) conducted research about making several chocolate souvenirs using ArtCAM Pro9 technology. This research objective was to obtain several chocolate souvenir samples using ArtCAM including their packaging, production cost and market experiment. This research was used PDPC, Arrow Diagram and Fishbone Diagram as its method.

This thesis is about making the biggest rapid prototype 3D Borobudur stupa chocolate mold, which in accordance with CV Anugerah Mulia requirements, using the existing CAD/CAM solution and machines in ADTC. The chocolate mold design is developed based on 2D drawing from CV Anugerah Mulia. The CAD/CAE phase is done using PowerShape 8.2.14, the CAM phase is done using PowerMill 8.0.09 and the machining process is done using Roland MDX-40. The master mold is made of ebalta and the chocolate mold is made of polyethylene (PE). Rapid Prototyping (RP) method is used in this thesis.

Table 2.1 Comparison of Current Research and Previous Research

Description	Researcher		
	Yustisia (2009)	Hananti(2009)	Current
Case study	Yes	No	Yes
Research object	Chocolate Monggo souvenir's prototype with Java identity	Chocolate design prototype, packaging, production cost and market experiment	Rapid Prototyping of Borobudur stuppa chocolate mold
Research Objective	Obtain chocolate appearance of Chocolate Monggo based on customer choice	Obtain chocolate souvenir prototypes using ArtCAM including their packaging, production cost and market experiment.	Obtain the biggest rapid prototyped Borobudur stuppa master mold, chocolate mold and RP cost
Tools/Method	Survey Method (customer polling)	PDPC, Arrow Diagram, Fishbone Diagram	Rapid Prototyping Method
Research Output	Prototype result of Chocolate Monggo as Java souvenir	Chocolate design prototypes, packaging, production cost and market experiment	The biggest rapid prototyped Borobudur stuppa master mold, chocolate mold and RP cost