



DEVELOPMENT OF AN ADJUSTABLE GRIPPER FOR ROBOTIC PICKING AND PLACING OPERATION

A. Che Soh, S.A. Ahmad, A.J. Ishak and K. N. Abdul Latif
Department Electrical and Electronic of Engineering,
Universiti Putra Malaysia, 43400 Serdang
Selangor, Malaysia

Emails: azura@eng.upm.edu.my, sanom@eng.upm.edu.my, asnorji@eng.upm.edu.my

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Abstract- Adjustable gripper for robotic system that is capable in identifying shape and size of an object is needed in many applications especially for picking and placing operation. This is due to some of the grippers' design are limited only to one specific shape or size that make picking and placing operation difficult. To hold different size or shape, the user needs to replace gripper which are more time consuming and more expensive. To address this problem, an adjustable gripper for robotic system has been proposed for picking and placing operation. The main objective is to design a robust gripper that can perform easier and faster picking and placing operation for multiple shapes and sizes objects. This adjustable gripper for robotic system can to improve the picking and placing operation in manufacturing field in producing more outputs without the needs to.

Index terms: Adjustable gripper, picking operation, placing operation, robotic system