

**PENGEMBANGAN *PROTOTYPE JIG AND FIXTURE ATTACHMENT*
UNTUK MENAMBAH *AXIS* MESIN BUBUT**

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ABSTRAK

Penelitian ini dilakukan untuk mengetahui proses pengembangan *Prototype Jig and Fixture Attachment*, dan mengetahui tingkat kelayakan serta kepraktisan *Prototype Jig and Fixture Attachment*. Metode pengembangan penelitian menggunakan *Research And Development R&D*. Model pengembangan yang digunakan pada penelitian ini yaitu model pengembangan *4-D (Four-D)*. Jenis data pada penelitian ini yaitu berupa data kuantitatif. Dari uji *survey* pendahuluan yang dilakukan terhadap 10 orang responden, dinyatakan bahwa perlu adanya pengembangan *Prototype Jig and Fixture Attachment* untuk menambah *Axis* mesin bubut. Pada uji ahli desain didapatkan hasil persentase 100% yang berarti pengembangan *Prototype Jig and Fixture Attachment* untuk menambah *Axis* mesin bubut digolongkan sangat layak. Selanjutnya dilakukan uji ahli manufaktur didapatkan hasil persentase 100% yang digolongkan sangat layak. Dapat disimpulkan bahwa pengembangan *Prototype Jig and Fixture Attachment* untuk menambah *Axis* mesin bubut sangat layak dan praktis untuk dikembangkan.

Kata Kunci : Mesin bubut, Pengembangan, *Prototype*

UNDIKSHA

DEVELOPMENT OF PROTOTYPE JIG AND FIXTURE ATTACHMENT TO ADD THE AXIS OF THE LATHE MACHINE

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ABSTRAK

This research was conducted to determine the process of developing the Prototype Jig and Fixture Attachment, and to determine the level of feasibility and practicality of the Prototype Jig and Fixture Attachment. The research development method uses Research And Development R&D. The development model used in this study is the 4-D (Four-D) development model. The type of data in this study is in the form of quantitative data. From the preliminary survey test conducted on 10 respondents, it was stated that it was necessary to develop a Prototype Jig and Fixture Attachment to add to the Axis of the lathe. In the test, the design expert obtained a proportion of 100% which means the development of the Prototype Jig and Fixture Attachment to add to the machine axis but is considered very feasible. Then the manufacturing expert test was carried out to obtain a 100% proportion result which was classified as very feasible. It can be interpreted that the development of the Prototype Jig and Fixture Attachment to add to the lathe axis is very feasible and practical to develop.

Keywords: Lathe, Development, Prototype

