

IMPLEMENTATION OF ENGINEERING PRODUCT DESIGN FOR SMALL-SCALED MECHANICAL WORKSHOP : A STUDY IN PURBALINGGA, CENTRAL JAVA, INDONESIA

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Abstract	<p>Engineering product design can be understood simply as a collection of engineering activities that must be followed to produce good industrial products. In the simplest form it can be constructed from three major stages, i.e. specification of design requirements, drawing and prototyping. In order to give an overview of its implementation related to small-scaled mechanical workshop a prototype of plate bending machine is built completely from its design requirements. The machine is considered important because it supports standard manufacturing processes, i.e. plate forming, of muffler industries in Purbalingga, Central Java, Indonesia. During prototyping, communication among designer, drafter and manufacturer has been identified as the major responsible factor for producing design errors on the machine for each the stages. Thus, the proposed strategies, e.g. implementation of engineering software design and development of engineering design center in university, to minimize them based on quantitative approach are briefly discussed as well. Keywords : engineering design, prototype, bending machine, Purbalingga</p>
Publisher Name	UMP
Publish Date	2015-10-10
Publish Year	2015
Doi	
Citation	
Source	Techno Jurnal Ilmu Teknik
Source Issue	Vol 16, No 2 (2015): Jurnal Techno Volume 16 No 2 Oktober 2015
Source Page	
Url	http://techno.ump.ac.id/index.php/Vol13No1/article/view/86
Author	Dr.-Ing SUGENG WALUYO, S.T, M.Sc.