

ABSTRACT

Manufacturing Process Laboratory is one of a laboratory in Telkom University Industrial Engineering major. One of activities in this laboratory is establishing practicum activities supporting the Manufacture Process and Practicum subject (IEG2G3). One of the practicum activities in this laboratory is doing learning activities using Haas Control Simulator machine. This practicum is done in group of three, one group practices with one machine. It is held in four shifts per day, three hours for each shift, and there are five groups participated in each shift who are doing the practicum in an 11.89 meters x 4.90 meters laboratory room. The Haas Control Simulator machines are only placed in hexagonal tables with maximum length 215 cm, width 122 cm and height 75 cm. In its practice, this practicum activity makes the students who are practicing fatigue because the tables for placing the Haas Control Simulator machines are not ergonomic and makes the posture of the operator is clumsy.

In order to create an ergonomic product of the table and holder for the machine and also to make sure that the machine operators are safe in the practicum activity, the technical specifications and product design which designed a specific Haas Control Simulator machine's table and holder are needed. In relation to this matter, this research will present a product plan of the table and holder for Haas Control Simulation machine, so the technical specification of the machine's table and holder can be made and a concept for the machine's table and holder is chosen.

After the stage of product planning using the generic product plan method is done, the result shows that the concept of ergonomic and safe table and holder for the operators is the table and holder which has rectangular shape, enable the operator of the machine to sit when operating the machine, there are holder and clamp for the machine, permanent holder, knockdown mechanism, the table should also has place for writing, and the table's feet should be in form of footrest. This chosen concept will later be suggestions for the second researcher who will do the details of this concept

Keywords: *Product planning, ergonomic, Haas Control Simulator, concept, technical specification, Haas Control Simulator holder.*