

ABSTRACT

Router machines are one of the most common machines used in woodworking. The functions possessed by machine profiles vary greatly, from cutting, creating profile, joinery and so on. To operate it, there are several procedures to go through. One of them is to adjust the height of the router bits. In the design object which is the router height adjustment system, there are constraints that generate opportunities for a redesign. The SCAMPER method is used to assist in the creative analysis of previously existing products. Any points that exist in the method, can be used to simplify the process of design analysis. By substitution, combination, adaptation, modification, other uses, elimination, and reverse, it can simplify the design of system profile height settings from the form, system or technical use, and component determination. In the SCAMPER method there are other considerations that play an important role in the product's effectiveness in terms of time, personnel required, and appropriate usage techniques to help manage adjusting the height of the router bits.

Keywords: adjust, machine, router, effectiveness, SCAMPER, height