IJARSCT



International Journal of Advanced Research in Science, Communication and Technology

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

9001:2015

Impact Factor: 7.67

Volume 5, Issue 5, June 2025

Dual Side Shaper Machine

Dr K Yakoob¹, V Venu², K. Vyshnavi³, A Ravi Shastry⁴, M Vinay⁵

¹Associate Professor, Department of Mechanical Engineering ^{2,3,4,5}UG Student, Department of Mechanical Engineering Christu Jyothi Institute of Technology & Science, Jangaon, Telangana, India

Abstract: Most of the industries are having various types of reciprocating machines for performing machine operations on the small size of work. Usually, the shaper, broaching machine, and planner are used for machining a small area of work with less quantity. These machines are used for machining very small areas of a plain surface, vertical surface, angular surface, grooving, etc. It removes the materials from the job only at forward stroke. So it takes more machining time to complete the product. To overcome this problem, a small dual shaper machine is developed for machining two workpieces at the same time. This machine has both the direction of ram movement and removes material from two workpieces simultaneously.

So, the machining time will be reduced and the production rate will be increased. Most of the industries are having various types of reciprocating machines for performing machine operation on small size of work. A shaping machine is mainly used for shaping the tools, which may be horizontal, vertical or inclined. In a dual shaper machine, materials are shaped from both sides, which makes it more advantageous than usual shaper. Dual Shaper machine helps industries to achieve high production rate at a minimal amount of time and cost. Dual Shaper machine reduces the production cost as well as the time.

Keywords: Dual side cutting, Double ram shaping, Simultaneous machining, Reciprocating motion, Tool holder





