

Applications and Fundamentals of CAD/CAM in Forging Industry: A Review

Abstract— Forging is an age-old manufacturing process in which desired shape of component is obtained by applying impact load on the metal. Most of the small and medium scale industries work on traditional trial-and-error method to design dies and forged components. With the advent of CAD/CAM in forging industry, process modelling has greatly reduced the lead time and errors to produce the product. The cost of CAD/CAM interface in the long run is very less as compared to actual failures of the die and shutdowns in the shop floor. Small and medium scale industries must gracefully accept this change and progress with technological advancements to keep pace with global market, otherwise it may be too late for such industries to sustain at global level.

Keywords— *Forging, CAD/CAM, Lead time, Flash less forging, Die stresses.*