ABSTRACT

Assembling holds a vital role in manufacturing. It is at the assembling process that we are able to see whether all the components can be attached fitly to each other or not. It is also at this phase that all mistakes made in previous processes become visible. Thus, the assembling process can be used as a performance indicator of a product’s manufacturability.

Design for Assembly (DfA) is a technique of designing a product with simple and easy assembling process. Its basic principle is to minimize the number of components to be used, hence giving advantages of reducing time and, more important, reducing cost. Cost reduction figure will stand from 15% up to 70%.

Assembly Sequence is a technique developed to arrange an optimal sequence of assembling process. It starts with creating Liaison Diagram, continued with applying Winnowing, and ends with assembly sequence establishment.

Key words: assembly, components, design, cost, Liaison Diagram, Winnowing