

An Assembly Line Designing Study for a Refrigeration Industry

Authors : Emin Gundogar, Burak Erkayman, Aysegul Yilmaz, Nusret Sazak

Abstract : When considering current competition conditions on the world, satisfying customer demands on time has become an important factor that enables the firms take a step further. Therefore, production process must be completed faster to take the competitive advantage. A balanced assembly line is the one of most important factors affecting the speed of production lines. The aim of this study is to build an assembly line to balance the assembly line and to simulate it for different scenarios through a refrigerator factory. The times of the operations is analyzed and grouped by the priorities. First, a Kilbridge & Wester heuristics is put to the model then a simulation approach is implemented to the model and the differences are observed.

Keywords : assembly line design, assembly line balancing, simulation modelling, refrigeration industry

Conference Title : ICIPE 2014 : International Conference on Industrial and Production Engineering

Conference Location : Toronto, Canada

Conference Dates : June 16-17, 2014