

Thesis Title	Computer - Aided Strip Layout for Blanking Dies
Thesis Credits	12
Candidate	Mr. Pichet Trakarnchaisiri
Supervisors	Dr. Suksun Prombunpong Dr. Djitt Laovattana
Degree of Study	Master of Engineering
Department	Production Engineering
Academic Year	1997

Abstract

Computer - Aided Design and Computer - Aided Manufacturing has played an important role nowadays. However, computer applications in strip layout design are only in a small number. Therefore, this research aims to develop a computer program to increase efficiency on the design of strip layout for blanking dies which taking an account for various design factors and user requirement. A number of design algorithms and techniques have been developed and applied to attain a solution based on user specifications (ie. minimum total cost, maximum utilization percent etc.). These developed techniques are unique and specially design for this program.

This program was tested by a number of actual workpieces and the results are compared with actual designs by professional engineer. In addition, one of outstanding features of this program is that users can investigate alternative results when some factors or targets of production change.

Keywords : Computer Application / Strip Layout / Blanking Dies