

**PRODUCT IMPROVEMENT BY USING DESIGN
FOR ASSEMBLY: A CASE STUDY ON HEAVY
DUTY STAPLE GUN**

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**B. ENG. (HONS.) MANUFACTURING
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Report submitted in partial fulfillment of the requirements
for the award of the degree of
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LIST OF SYMBOLS

mm	Millimetre
s	Second
E_{ma}	Design efficiency
N_{min}	Theoretical minimum number of parts
T_a	Basic assembly time
E_d	Functional efficiency
T_{ma}	Estimated time to complete the assembly of the product
α	Rotational symmetry of a part about an axis perpendicular to its axis of insertion
β	Rotational symmetry of a part about its axis of insertion

LIST OF ABBREVIATIONS

DFA	Design for assembly
DFM	Design for Manufacture
DFMA	Design for manufacturing assembly
AEM	Assemblability evaluation method
RM	Ringgit Malaysia
NM	Total Theoretical minimum part
CM	Total assembly cost
TM	Total assembly time