

Design for Manufacturability Guidelines – Sheetmetal

This is an example of DFM guidelines for sheetmetal fabrication.

Bends

Bends should be toleranced plus or minus one-half degree at a location adjacent to the bends.
For the ease of manufacturing, multiple bends on the same plane should occur in the same direction.
Avoid large sheet metal parts with small bent flanges.
In low carbon steel sheet metal, the minimum radius of a bend should be one-half the material thickness or 0.80 mm (0.03 inch), whichever is larger.

Counterbores

The minimum distance between two counterbores is eight times the material thickness.
The minimum distance from a counterbore to an edge is four times the material thickness.
The minimum distance from a counterbore to a bend is four times the material thickness plus the bend radius.

Countersinks

The maximum depth is 3.5 times the material thickness at an angle of the hardware.
A minimum of 50% contact between the hardware and the countersink is required.
The minimum distance between two countersinks is eight times the material thickness.
The minimum distance from one countersink and an edge is four times the material thickness.
The minimum distance from a countersink and a bend is four times the material thickness plus the bend radius.

Curls

The minimum radius is two times the material thickness with an opening to a minimum of one material thickness.
The minimum distance between a curl and the edge of a hole is the radius of the curl plus the material thickness.
The minimum distance a curl should be from an internal bend is six times the material thickness plus the radius of the curl.
The minimum distance a curl should be from an external bend is nine times the material thickness plus the radius of the curl.

Dimples

The maximum diameter should be six times the material thickness, and a maximum depth of one-half the inside diameter.
The minimum distance that a dimple should be from a hole is three times the material thickness plus the radius of the dimple.
The minimum distance that a dimple should be from the edge is four times the material thickness plus the inside radius of the dimple.
The minimum distance that a dimple should be from a bend is two times the material thickness plus the inside radius of the dimple plus the radius of the bend.
The minimum distance between one dimple and another is four times the material thickness plus the inside radius of each dimple.

Prepared: 7/2/2022

Design For Manufacturability Guidelines

Biman Das, Waldemar Karwowski



Design For Manufacturability Guidelines:

Tool and Manufacturing Engineers Handbook: Design for Manufacturability Thomas J. Drozda, Charles Wick, Philip Mitchell, Ramon Bakerjian, John T. Benedict, Raymond F. Veilleux, 1983 Addresses important topics of DFM including how it relates to concurrent engineering management issues getting started in DFM how to justify using DFM applying quality tools and how DFM is affecting computer technology and vice versa Covers topics starting with the creative thinking process to combining DFM with geometric dimensioning and tolerancing Also includes product design information that designers should know when committing pen to paper or mouse to mat Design for Manufacturability ,1993

Design for Manufacturability Handbook James G. Bralla, 1999 Offers a blueprint for various stages of the manufacturing process This handbook provides directions for solid and practical design including a quick check of do's and don'ts as well as specific tips for developing the most producible design It also includes the details needed to forecast a successful design project **Design for Manufacturability** David M. Anderson, 2014-02-04 Design for Manufacturability How to Use Concurrent Engineering to Rapidly Develop Low Cost High Quality Products for Lean Production shows how to use concurrent engineering teams to design products for all aspects of manufacturing with the lowest cost the highest quality and the quickest time to stable production Extending the concepts of design for manufacturability to an advanced product development model the book explains how to simultaneously make major improvements in all these product development goals while enabling effective implementation of Lean Production and quality programs Illustrating how to make the most of lessons learned from previous projects the book proposes numerous improvements to current product development practices education and management It outlines effective procedures to standardize parts and materials save time and money with off the shelf parts and implement a standardization program It also spells out how to work with the purchasing department early on to select parts and materials that maximize quality and availability while minimizing part lead times and ensuring desired functionality Describes how to design families of products for Lean Production build to order and mass customization Emphasizes the importance of quantifying all product and overhead costs and then provides easy ways to quantify total cost Details dozens of design guidelines for product design including assembly fastening test repair and maintenance Presents numerous design guidelines for designing parts for manufacturability Shows how to design in quality and reliability with many quality guidelines and sections on mistake proofing poka yoke Describing how to design parts for optimal manufacturability and compatibility with factory processes the book provides a big picture perspective that emphasizes designing for the lowest total cost and time to stable production After reading this book you will understand how to reduce total costs ramp up quickly to volume production without delays or extra cost and be able to scale up production rapidly so as not to limit growth *Design for Manufacturability Through Design-process Integration* Alfred Kwok-Kit Wong, Vivek K. Singh, 2007 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality

conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

Handbook of Manufacturing Automation and Integration ,1990 *Handbook of Reliability, Availability, Maintainability and Safety in Engineering Design* Rudolph Frederick Stapelberg,2009-02-17 The Handbook of Reliability Availability Maintainability and Safety in Engineering Design studies the combination of various methods of designing for reliability availability maintainability and safety as well as the latest techniques in probability and possibility modeling mathematical algorithmic modeling evolutionary algorithmic modeling symbolic logic modeling artificial intelligence modeling and object oriented computer modeling The book encompasses both a depth of research into engineering design methods and techniques and a breadth of research into the concept of integrity in engineering design These topics add significant value to the theoretical expertise and practical experience of process chemical civil mechanical electrical and electronic engineers by considering process engineering design from the point of view of what should be achieved to meet criteria for designing for reliability availability maintainability and safety

Symposium on Manufacturing Systems - Design, Integration, and Control ,1988 Symposium on Manufacturing Systems--Design, Integration, and Control George Chryssoulouris,R. Von Turkovich,P. Francis,1988

Proceedings of Manufacturing International '88: Symposium on manufacturing systems - design, integration, and control ,1988 Advances in Manufacturing System Engineering - 1988 American Society of Mechanical Engineers. Winter Annual Meeting,1988

A First Course in Quality Engineering K.S. Krishnamoorthi,V. Ram Krishnamoorthi,2018-09-03 This book is the leader among the new generation of text books on quality that follow the systems approach to creating quality in products and services the earlier generations focused solely on parts of the system such as statistical methods process control and management philosophy It follows the premise that the body of knowledge and tools documented by quality professionals and researchers when employed in designing creating and delivering the product will lead to product quality customer satisfaction and reduced waste The tools employed at the different stages of the product creation cycle are covered in this book using real world examples along with their theoretical bases strengths and weaknesses This textbook can be used for training from shop floor personnel to college majors in business and engineering to practicing professionals Graduate students training as researchers in the quality field will also find useful material The book has been used as the text for a Professional Series Massive Open Online Course offered by the Technical University of Munich on edX org through which tens of thousands of participants from all over the world have received training in quality methods According to Professor Dr Holly Ott who chose the book for the course the text is one of the main factors contributing to success of this MOOC The Third Edition has been fully revised to be friendly for self study reflects changes in the standards referenced such as ISO 9000 and includes new examples of application of statistical tools in health care industry Features Reviews the history of quality movement in the U

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Handbook of Industrial Engineering Gavriel Salvendy, 2001-05-25 Unrivalled coverage of a broad spectrum of industrial engineering concepts and applications The Handbook of Industrial Engineering Third Edition contains a vast array of timely and useful methodologies for achieving increased productivity quality and competitiveness and improving the quality of working life in manufacturing and service industries This astoundingly comprehensive resource also provides a cohesive structure to the discipline of industrial engineering with four major classifications technology performance improvement management management planning and design control and decision making methods Completely updated and expanded to reflect nearly a decade of important developments in the field this Third Edition features a wealth of new information on project management supply chain management and logistics and systems related to service industries Other important features of this essential reference include More than 1 000 helpful tables graphs figures and formulas Step by step descriptions of hundreds of problem solving methodologies Hundreds of clear easy to follow application examples Contributions from 176 accomplished international professionals with diverse training and affiliations More than 4 000 citations for further reading The Handbook of Industrial Engineering Third Edition is an immensely useful one stop resource for industrial engineers and technical support personnel in corporations of any size continuous process and discrete part manufacturing industries and all types of service industries from healthcare to hospitality from retailing to finance Of related interest HANDBOOK OF HUMAN FACTORS AND ERGONOMICS Second Edition Edited by Gavriel Salvendy 0 471 11690 4 2 165 pages 60 chapters A comprehensive guide that contains practical knowledge and technical background on virtually all aspects of physical cognitive and social ergonomics As such it can be a valuable source of information for any individual or organization committed to providing competitive high quality products and safe productive work environments John F Smith Jr Chairman of the Board Chief Executive Officer and President General Motors Corporation From the Foreword

Advances in Occupational Ergonomics and Safety 1997 Biman Das, Waldemar Karwowski, 1997

Reviewing **Design For Manufacturability Guidelines**: Unlocking the Spellbinding Force of Linguistics

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