

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

Rudolph Frederick Stapelberg



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Design for Manufacturability David M. Anderson, 2020-05-11 Achieve any cost goals in half the time and achieve stable production with quality designed in right the first time Design for Manufacturability How to Use Concurrent Engineering to Rapidly Develop Low Cost High Quality Products for Lean Production is still the definitive work on DFM This second edition extends the proven methodology to the most advanced product development process with the addition of the following new unique and original topics which have never been addressed previously These topics show you how to Cut cost from 1 2 to 1 10 in 9 categories with ways to remove that much cost from product charges and pricing Commercialize innovation starting with Manufacturable Research and learning from the new section on scalability you will learn how to design products and processing equipment to quickly scale up to any needed demand or desired growth Design product families that can be built on demand in platform cells that also mass customize products to order Make Lean production easier to implement with much more effective results while making build to order practical with spontaneous supply chains and eliminating forecasted inventory by including an updated chapter on Designing Products for Lean Production The author s 30 years of experience teaching companies DFM based on pre class surveys and plant tours is the foundation of this most advanced design process It includes incorporating dozens of proven DFM guidelines through up front concurrent engineering teamwork that cuts the time to stable production in half and curtails change orders for ramps rework redesign substituting cheaper parts change orders to fix the changes unstable design specs part obsolescence and late discovery of manufacturability issues at periodic design reviews This second edition is for the whole product development community including Engineers who want to learn the most advanced DFM techniques Managers who want to lead the most advanced product development Project team leaders who want to immediately apply all the principles taught in this book in their own micro climate Improvement leaders and champions who want to implement the above and ensure that the company can design products and versatile processing equipment for low volume high mix product varieties Designing half to a tenth of cost categories can avoid substituting cheap parts which degrades quality and encourages standardization and spontaneous supply chains which will encourage Lean initiatives Using cellular manufacturing to shift production between lines for mixed production of platforms and build to order to offer the fastest order fulfillment can beat any competitors delivery time **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 Handbook James G. Bralla,1998-08-22 From raw materials to machining and casting to assembly and finishing the Second Edition of this classic guide will introduce you to the principles and procedures of Design for Manufacturability DFM the art of developing high quality products for the lowest possible manufacturing cost Written by over 70 experts in manufacturing and product design this update features cutting edge techniques for every stage of manufacturing plus entirely new chapters on DFM for Electronics DFX Designing for all desirable attributes DFM for Low Quality Production and Concurrent Engineering *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 **Design for Manufacturability** Artur Balasinski,2013-10-06 This book explains integrated circuit design for manufacturability DfM at the product level packaging applications and applies engineering DfM principles to the latest standards of product development at 22 nm technology nodes It is a valuable guide for layout designers packaging engineers and quality engineers covering DfM development from 1D to 4D involving IC design flow setup best practices links to manufacturing and product definition for process technologies down to 22 nm node and product families including memories logic system on chip and system in package *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 **Design for Manufacturability** David Moss,2002 **Symposium on Manufacturing Systems--Design, Integration, and Control** George Chryssolouris,R. Von Turkovich,P. Francis,1988 **Advances in Manufacturing System Engineering - 1988** American Society of Mechanical Engineers. Winter Annual Meeting,1988 Symposium on Manufacturing Systems - Design, Integration, and Control ,1988 **Proceedings of Manufacturing International '88: Symposium on manufacturing systems - design, integration, and control** ,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

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