

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

David M. Anderson



Design For Manufacturability Guidelines:

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

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 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 *Design for Manufacturability* Artur Balasinski,2016-08-23 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 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

Design for Manufacturability David Moss,2002 *Symposium on Manufacturing Systems - Design, Integration, and Control* ,1988 *Symposium on Manufacturing Systems--Design, Integration, and Control* George Chryssolouris,R. Von Turkovich,P. Francis,1988 **Proceedings of Manufacturing International '88: Symposium on manufacturing**

systems - design, integration, and control ,1988 **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

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Design For Manufacturability A Complete Guide - 2020 Edition Gerardus Blokdyk,2019-10-10 What are your customers expectations and measures How does design thinking help your business Identify the customer Who is the work for Did the manufacturing poc clearly communicate how your project would be processed Does the item have any design features that are not necessary Defining designing creating and implementing a process to solve a challenge or meet an objective is the most valuable role In EVERY group company organization and department Unless you are talking a one time single use project there should be a process Whether that process is managed and implemented by humans AI or a combination of the two it needs to be designed by someone with a complex enough perspective to ask the right questions Someone capable of asking the right questions and step back and say What are we really trying to accomplish here And is there a different way to look at it This Self Assessment empowers people to do just that whether their title is entrepreneur manager consultant Vice President CxO etc they are the people who rule the future They are the person who asks the right questions to make Design For Manufacturability investments work better This Design For Manufacturability All Inclusive Self Assessment enables You to be that person All the tools you need to an in depth Design For Manufacturability Self Assessment Featuring 958 new and updated case based questions organized into seven core areas of process design this Self Assessment will help you identify areas in which Design For Manufacturability improvements can be made In using the questions you will be better able to diagnose Design For Manufacturability projects initiatives organizations businesses and processes using accepted diagnostic standards and practices implement evidence

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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 S and abroad Discusses Quality Cost analysis and quality s impact on a company s bottom line Explains finding customer needs and designing the product using House of Quality Covers selection of product parameters using DOE and reliability principles Includes control charts to control processes to make the product right the first time Describes use of capability indices Cp and Cpk to meet customer needs Presents problem solving methodology and tools for continuous improvement Offers ISO 9000 Baldrige and Six Sigma as

templates for creating a quality system **Printed Circuits Handbook** Clyde F. Coombs,1996 The best selling printed circuits book in the world this definitive reference has provided unsurpassed coverage of all aspects of the design engineering fabrication and assembly of printed circuit boards PCBs for almost three decades Now completely revised to include advances in PCB fabrication and assembly technology the Fourth Edition provides the same type of practical problem solving information on component packaging and board and assembly engineering and design that has made it a standard for printed circuit fabrication and assembly professionals While maintaining its leadership in process information the book contains expanded sections that let you take advantage of new component packages and design in quality and reliability to create total solutions at optimum cost In addition there are new chapters that provide industry standard guidelines for inspecting and accepting boards and assemblies **ASM Handbook** ASM International. Handbook Committee,1997-12 This volume is a comprehensive reference on the basic concepts methodologies and information sources dealing with materials selection and its integration with engineering design processes Contents include contributions from 100 experts involved with design materials selection and manufacturing Addresses metals ceramics polymers and composites and provides many case histories and examples *Transactions of the North American Manufacturing Research Institution of SME*. Society of Manufacturing Engineers,1994 *Systems Quality/reliability Handbook* Intel Corporation,1988 Systems quality reliability overview Materials quality Reliability Manufacturing Product regulations Field activities Support Statistical process control tools Glossary

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