

MasterCAM 9.1 – 3D MODEL CREATION

Source = <http://www.gsd.harvard.edu/Guide/cad/cam/mastercam/>

This tutorial will assist in:

1. Importing a 3D Model into MasterCAM
2. Prepare the model for creating a usable tool path
3. Set machining parameters
4. Design a tool path (for both rough and finish cuts)
5. Export the tool path g-code as a machine ready *.nc file

BACKGROUND:

MasterCAM is a powerful software able to both design 3-D models and prepare files for machining. This tutorial will focus exclusively on the latter capabilities. More specifically, this tutorial will enable you to create a machine-ready file (for example, a *.nc file) from an imported 3-D model. The file this tutorial will help you create will be usable with a variety of g-code based machines including the TCM1000 mill and AXY2400S router here at the GSD. To use this tutorial, you will need a 3-D model that you have saved using any one of the following formats:

STL
VDA
SAT
ProEASCII

STEP
Autodesk
IGES
Parasid

Note: Mastercam can read both surfaces and solid models, but they must be originally drawn in environments that produce "watertight" models. FORM Z IS NOT SUITED TO PRODUCING THESE MODELS.

Note: We have had very good luck using an .igs or .iges file format in particular, and recommend that you use this format unless you have a compelling reason to use a different type.

Free Manual Mastercam 9 Surface

L Reisser

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Free Manual Mastercam 9 Surface:

Machining Simulation Using SOLIDWORKS CAM 2018 Kuang-Hua Chang, 2019-02 This book will teach you all the important concepts and steps used to conduct machining simulations using SOLIDWORKS CAM SOLIDWORKS CAM is a parametric feature based machining simulation software offered as an add in to SOLIDWORKS It integrates design and manufacturing in one application connecting design and manufacturing teams through a common software tool that facilitates product design using 3D solid models By carrying out machining simulation the machining process can be defined and verified early in the product design stage Some if not all of the less desirable design features of part manufacturing can be detected and addressed while the product design is still being finalized In addition machining related problems can be detected and eliminated before mounting a stock on a CNC machine and manufacturing cost can be estimated using the machining time estimated in the machining simulation This book is intentionally kept simple It s written to help you become familiar with the practical applications of conducting machining simulations in SOLIDWORKS CAM This book provides you with the basic concepts and steps needed to use the software as well as a discussion of the G codes generated After completing this book you should have a clear understanding of how to use SOLIDWORKS CAM for machining simulations and should be able to apply this knowledge to carry out machining assignments on your own product designs In order to provide you with a more comprehensive understanding of machining simulations the book discusses NC numerical control part programming and verification as well as introduces applications that involve bringing the G code post processed by SOLIDWORKS CAM to a HAAS CNC mill and lathe to physically cut parts This book points out important practical factors when transitioning from virtual to physical machining Since the machining capabilities offered in the 2018 version of SOLIDWORKS CAM are somewhat limited this book introduces third party CAM modules that are seamlessly integrated into SOLIDWORKS including CAMWorks HSMWorks and Mastercam for SOLIDWORKS This book covers basic concepts frequently used commands and options required for you to advance from a novice to an intermediate level SOLIDWORKS CAM user Basic concepts and commands introduced include extracting machinable features such as 2 5 axis features selecting a machine and cutting tools defining machining parameters such as feedrate spindle speed depth of cut and so on generating and simulating toolpaths and post processing CL data to output G code for support of physical machining The concepts and commands are introduced in a tutorial style presentation using simple but realistic examples Both milling and turning operations are included One of the unique features of this book is the incorporation of the CL data verification by reviewing the G code generated from the toolpaths This helps you understand how the G code is generated by using the respective post processors which is an important step and an excellent way to confirm that the toolpaths and G code generated are accurate and useful Who is this book for This book should serve well for self learners A self learner should have basic physics and mathematics background preferably a bachelor or associate degree in science or engineering We

assume that you are familiar with basic manufacturing processes especially milling and turning And certainly we expect that you are familiar with SOLIDWORKS part and assembly modes A self learner should be able to complete the fourteen lessons of this book in about fifty hours This book also serves well for class instruction Most likely it will be used as a supplemental reference for courses like CNC Machining Design and Manufacturing Computer Aided Manufacturing or Computer Integrated Manufacturing This book should cover five to six weeks of class instruction depending on the course arrangement and the technical background of the students

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incorporation of the CL data verification by reviewing the G code generated from the toolpaths This helps you understand how the G code is generated by using the respective post processors which is an important step and an excellent way to confirm that the toolpaths and G code generated are accurate and useful Who is this book for This book should serve well for self learners A self learner should have basic physics and mathematics background preferably a bachelor or associate degree in science or engineering We assume that you are familiar with basic manufacturing processes especially milling and turning And certainly we expect that you are familiar with SOLIDWORKS part and assembly modes A self learner should be able to complete the fourteen lessons of this book in about fifty hours This book also serves well for class instruction Most likely it will be used as a supplemental reference for courses like CNC Machining Design and Manufacturing Computer Aided Manufacturing or Computer Integrated Manufacturing This book should cover five to six weeks of class instruction depending on the course arrangement and the technical background of the students

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Table of Contents Free Manual Mastercam 9 Surface

1. Understanding the eBook Free Manual Mastercam 9 Surface
 - The Rise of Digital Reading Free Manual Mastercam 9 Surface
 - Advantages of eBooks Over Traditional Books
2. Identifying Free Manual Mastercam 9 Surface
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Free Manual Mastercam 9 Surface
 - User-Friendly Interface
4. Exploring eBook Recommendations from Free Manual Mastercam 9 Surface
 - Personalized Recommendations
 - Free Manual Mastercam 9 Surface User Reviews and Ratings
 - Free Manual Mastercam 9 Surface and Bestseller Lists
5. Accessing Free Manual Mastercam 9 Surface Free and Paid eBooks

- Free Manual Mastercam 9 Surface Public Domain eBooks
 - Free Manual Mastercam 9 Surface eBook Subscription Services
 - Free Manual Mastercam 9 Surface Budget-Friendly Options
6. Navigating Free Manual Mastercam 9 Surface eBook Formats
 - ePub, PDF, MOBI, and More
 - Free Manual Mastercam 9 Surface Compatibility with Devices
 - Free Manual Mastercam 9 Surface Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Free Manual Mastercam 9 Surface
 - Highlighting and Note-Taking Free Manual Mastercam 9 Surface
 - Interactive Elements Free Manual Mastercam 9 Surface
 8. Staying Engaged with Free Manual Mastercam 9 Surface
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Free Manual Mastercam 9 Surface
 9. Balancing eBooks and Physical Books Free Manual Mastercam 9 Surface
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Free Manual Mastercam 9 Surface
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Free Manual Mastercam 9 Surface
 - Setting Reading Goals Free Manual Mastercam 9 Surface
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Free Manual Mastercam 9 Surface
 - Fact-Checking eBook Content of Free Manual Mastercam 9 Surface
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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