



## Chapter 21

# CO2 Shell Car Mastercam X6 for SolidWorks Toolpaths



### A. Enable Mastercam for SolidWorks.

- Step 1. If necessary, turn on Mastercam for SolidWorks, click Tools Menu > Add-Ins.
- Step 2. In the dialog box scroll down to Mastercam for SolidWorks and place a check in the check box under Active Add-Ins and Start-Up, Fig. 1. Click OK.



Fig. 1

### B. Rotate Body.

- Step 1. Click Isometric  on the Standard Views toolbar. (Ctrl-7)
- Step 2. Click Insert Menu > Features > Move/Copy.
- Step 3. In the Property Manager set:  
under Options  
click Translate/Rotate button  
under Bodies to Move/Copy, Fig. 2  
click CO2 car body, Fig. 3

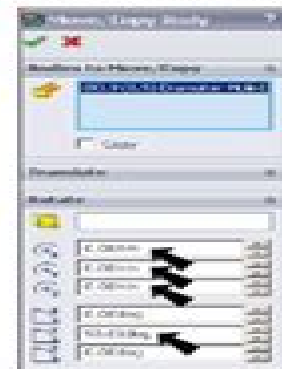


Fig. 2

under Rotate

X Rotation Origin  0

Y Rotation Origin  0

Z Rotation Origin  0

Y Rotation Angle  90

press Tab key on keyboard, Fig. 3

click OK .



Fig. 3

### C. Create Containment Sketch.

- Step 1. Click Front Plane  in the Feature Manager and click Sketch  from the Content toolbar, Fig. 4.

- Step 2. Click Normal To  on the Standard Views toolbar. (Ctrl-8)



Fig. 4

# Mastercam Chapter 6

**AW Chickering**



## **Mastercam Chapter 6:**

Computer Aided Manufacturing Fouad Sabry, 2025-01-03 Computer Aided Manufacturing is an indispensable resource for anyone involved in robotics engineering or manufacturing technology. As part of the Robotics Science series, this book provides a comprehensive look at the critical processes and tools that drive modern production. Whether you're a professional, undergraduate or graduate student, or an enthusiast, this book equips you with the knowledge to navigate the complexities of computeraided manufacturing (CAM) and its integration with robotics. With detailed explanations and clear connections to the broader field of robotics, it serves as an essential guide for mastering both the theoretical and practical aspects of CAM.

**Computeraided manufacturing** This chapter introduces the foundational concepts of CAM, explaining how technology optimizes production processes.

**Computeraided design** It explores the integration of CAD in CAM, highlighting the link between design and manufacturing efficiency.

**Mastercam** Learn about Mastercam's role in simplifying complex machining tasks and its relevance in robotics-driven manufacturing.

**Machinist** Understand the machinist's critical role in the CAM process, bridging the gap between design and execution in robotics environments.

**Numerical control** Delve into numerical control (NC) systems and their application in robotics for precise and automated machine operation.

**Tebis** This chapter introduces Tebis, a software solution that enhances the capabilities of CNC machines within the robotics framework.

**Tool and cutter grinder** Discover the significance of tool and cutter grinding in manufacturing and its crucial role in robotic automation.

**Cutter location** Explore the importance of accurate cutter location data for optimizing manufacturing processes in robotic systems.

**Rapid prototyping** Learn how rapid prototyping accelerates product development, integrating seamlessly with robotics for faster innovation.

**Vero Software** Understand Vero Software's contribution to the CAM industry, offering innovative solutions for robotic-based manufacturing processes.

**STEPNC** This chapter covers STEPNC, a modern standard for enhancing communication between CAD, CAM, and CNC systems in robotic applications.

**CNC router** Gain insights into CNC router technology, crucial for precision cutting in robotic manufacturing systems.

**Multiaxis machining** Explore the power of multi-axis machining, expanding the capabilities of robots in intricate manufacturing tasks.

**WorkNC** Learn about WorkNC's role in optimizing machining strategies for complex parts in the robotics industry.

**Guitar manufacturing** This unique chapter discusses the intersection of CAM and robotics in the niche field of guitar manufacturing.

**SmartCAM** SmartCAM's role in streamlining manufacturing processes, particularly in robotic automation, is explored here.

**PowerMILL** Understand how PowerMILL software advances robotic machining, offering more precision and flexibility in production.

**Vericut** Learn about Vericut's simulation software, a vital tool for testing and optimizing robotic machining processes.

**Freeform surface machining** This chapter examines the technology behind freeform surface machining and its integration with robotic systems for high-precision tasks.

**Digital manufacturing** Discover how digital manufacturing ties together CAM, robotics, and automation to revolutionize production lines.

**NCSIMUL** The final chapter discusses NCSIMUL, highlighting its use in simulating and

optimizing CNC machining processes within robotics

### **Computer-Integrated Engineering Design and Manufacture**

Wilson R Nyemba, 2025-10-21 This book presents advanced concepts of computer aided design and computer aided manufacture through modelling and computer numerical control coupled with the simulation of production systems It dwells on the subtle and key features such as the applications and effective use of dynamic blocks in modelling subtractive and additive layer manufacturing flexible manufacturing systems and automation and robotics The text Discusses the principles of computer aided design in a comprehensive manner and applications of the AutoCAD interface programming language Covers aspects of product development and design together with accompanying principles of design for manufacture and assembly Explains the integrated approach to design and manufacture enhanced by modelling simulation and analysis software with capabilities for electronic transfer and interchange between the software packages Presents process planning and part programming with MasterCAM generating toolpaths and selecting machine tools for subtractive manufacturing and step by step worked examples to enhance the understanding of principles and concepts of engineering design and manufacture Explores sequential control and logical sequencing configuration of industrial robots and challenges in programming robots The integrated nature of this book and the examples therein are intended for senior undergraduates graduate students academic researchers and practising engineers in various fields of engineering such as but not limited to aeronautical civil electrical industrial manufacturing mechanical mechatronics and production engineering Learning

Mastercam Mill Step by Step James Valentino, Joseph Goldenberg, 2004 Demonstrates how to install and operate the latest version of the software program using illustrations and step by step instructions

### **Architectural Design with SketchUp**

Alexander C. Schreyer, 2023-05-26 ARCHITECTURAL DESIGN WITH SKETCHUP The most complete reference for anyone using SketchUp fully updated to cover the latest features with a new chapter on drawing preparation using LayOut This newly updated and revised Third Edition of Architectural Design with SketchUp covers all the topics that students and professionals use daily such as 3D modeling extensions photorealistic rendering and drawing preparation It features more than fifty easy to follow tutorials that first brush up on the basics of the program and then cover many advanced workflows including digital fabrication and scripting offering informative text and full color illustrations side by side to clearly convey the techniques and features any reader needs to excel The leading guide to SketchUp for architects interior designers construction professionals makers and many others Architectural Design with SketchUp is the key resource for students using SketchUp in a course or studio and professionals looking for a thorough desk reference that covers the latest SketchUp features Topics covered in Architectural Design with SketchUp include 3D modeling and design approaches with SketchUp such as conceptual massing geo based modeling component based assemblies point cloud and script based modeling Creating stunning photorealistic renderings and presentation ready illustrations from your SketchUp models and using LayOut for 2D graphics and construction documents Using extensions to enhance SketchUp s core toolset and provide

advanced functionality Making physical objects from your designs with common digital fabrication tools such as 3D printing CNC fabrication or laser cutting Differences between SketchUp Pro web and iPad versions and integrating SketchUp into workflows with other BIM software and various Trimble products and services such as Trimble Connect This Third Edition of Architectural Design with SketchUp includes hundreds of full color images that show SketchUp features many example projects and cookbook style approaches to common tasks which is supplemented with additional tutorials and sample files on a companion web site Cam Design and Manufacture Frederic Burnham Jacobs,1921 3D Scanning for Advanced Manufacturing, Design, and Construction Gary C. Confalone,John Smits,Thomas Kinnare,2023-03-21 3D Scanning for Advanced Manufacturing Design and Construction Learn how 3D scanning technology drives advanced manufacturing and modern construction 3D scanning technology allows non contact scanning of objects for unprecedented data collection analysis and modeling 3D models created this way are valuable at every stage of the design and build process and they have become a staple in additive manufacturing or 3D printing As 3D printing transforms global industry at every scale there has never been a better time for engineers and industrial professionals to be competitive in the area of 3D scanning a multibillion dollar market that continues to grow 3D Scanning Technology for Advanced Manufacturing Design and Construction provides a comprehensive introduction to 3D scanning and its applications in both the AEC and manufacturing industries After establishing the history and basic principles of 3D scanning it includes discussions of the various scanner types and software interfaces the use of 3D point clouds for analysis and reverse engineering and much more It covers the full range of technology and processes that engineers architects and manufacturing professionals use to increase accuracy and quality while reducing project timelines Readers of 3D Scanning Technology for Advanced Manufacturing Design and Construction will also find Case studies that highlight techniques useful for specific real world applications Comparisons of various scanning devices and software that aid in choosing the proper technologies for a specific project Resources and references for online learning organizations and certifications Perfect for engineers technicians students and industry professionals new to laser scanning 3D Scanning Technology for Advanced Manufacturing Design and Construction will earn its place in libraries of technical vocational and continuing education audiences seeking to improve their knowledge of 3D scanning

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Goldenberg,2008 Putting all the elements together this book addresses CNC Computer Numerical Control technology in a comprehensive format that offers abundant illustrations examples and exercises It includes a strong foundation in blue print reading graphical descriptions of CNC machine tools a chapter on right triangle trigonometry and programming that uses Fanuc Controllers It emphasizes program pattern recognition and contains completely solved programming examples and self contained programming examples Thoroughly updated for this edition it includes two new chapters four new appendices and is bundled with Predator Simulation and Kwik Trig software For CNC Programmers Operators Machinists Process Engineers Industrial Engineers Shop Operators Managers Planners Coordinators Sales Personnel **E-manufacturing** K. Cheng,2005 This book begins by presenting the concepts of and an engineering oriented approach to e manufacturing Next the enabling technologies and implementation issues for e manufacturing including topics such as Java programming database integration client server architecture web based 3D modelling and simulations and open computing and interaction design are reviewed There is then an exploration of application perspectives through a number of application systems Designed for final year undergraduate elective courses on e manufacturing and introductory courses on e manufacturing at postgraduate level this book can also be used as a textbook for teaching e engineering in general It will also provide a useful reference for design and manufacturing engineers company managers e business e commerce developers and IT professionals and managers Book Jacket *Automation, Production Systems, and Computer-integrated Manufacturing* Mikell P. Groover,2008 This exploration of the technical and engineering aspects of automated production systems provides a comprehensive and balanced coverage of the subject It covers cutting edge technologies of production automation and material handling and how these technologies are used to construct modern manufacturing systems *The Design of Cam Mechanisms and Linkages* Samuel Molian,1968 *Automated Fabrication* Marshall Burns,1993 Based on extensive research this reference shows how automated fabrication also known as desktop manufacturing and rapid prototyping may be used to increase productivity A popular writer and speaker Burns is founder of Ennex Fabrication Technologies which concentrates on research development and marketing in automated fabrication Burns edited and coauthored Rapid Prototyping System Selection and Implementation Guide **Novell's Guide to NetWare? 5 Networks** Jeffrey F. Hughes,Blair W. Thomas,1999-02-17 Renowned NetWare consultants Jeffrey Hughes and Blair Thomas have compiled the master NetWare 5 reference Novell s Guide to NetWare 5 Networks With more than 1 500 pages of NetWare 5 coverage Novell s Guide to NetWare 5 Networks touches all the bases including Pure IP Novell Directory Services Novell Distributed Print Services NetWare 4 11 migration Z E N works and Netscape FastTrack Server for NetWare Hughes and Thomas both of whom are master CNEs and Senior Consultants for Novell Consulting Services also explain how to implement a security infrastructure using NICI configure your NetWare clients tune the NetWare 5 operating system design an effective NDS tree and troubleshoot partition operations Three CD ROMs accompany Novell s Guide to NetWare 5 Networks with complete NetWare

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