

Basic G-codes

G-Codes vary from machine to machine)

G00 RAPID POSITIONING MOTION (X,Z,U,W,B)-(SETTING 10, 104)
G01 LINEAR INTERPOLATION MOTION (X,Z,U,W,B,F)
G01 CHAMFERING AND CORNER ROUNDING (X,Z,U,W,B,I,K,R,A,F)
G02 CW CIRCULAR INTERPOLATION MOTION (X,Z,U,W,I,K,R,F)
G03 CCW CIRCULAR INTERPOLATION MOTION (X,Z,U,W,I,K,R,F)
G04 DWELL (P) (P=seconds... milliseconds)
G05 FINE SPINDLE CONTROL MOTION (X,Z,U,W,R,F) (LIVE TOOLING)
G09 EXACT STOP, NON-MODAL
G10 PROGRAMMABLE OFFSET SETTING (X,Z,U,W,I,L,P,Q,R)
G14 MAIN-SPINDLE SHIFT TO SUB-SPINDLE
G15 MAIN-SPINDLE SHIFT TO SUB-SPINDLE CANCEL
G17 CIRCULAR MOTION XY PLANE SELECTION (G02-G03) (LIVE TOOLING)
G18 CIRCULAR MOTION ZX PLANE SELECTION (G02-G03) (SETTING 56)
G19 CIRCULAR MOTION YZ PLANE SELECTION (G02-G03) (LIVE TOOLING)
G20 VERIFY INCH COORDINATE POSITIONING (SETTING 9 needs to be INCH)
G21 VERIFY METRIC COORDINATE POSITIONING (SETTING 9 needs to be METRIC)
G22 SPINDLE STOP, LEFT TOOL-HEEL FIRST (X,Z,U,W,I,L,P,Q,R)
G23 SPINDLE STOP, RIGHT TOOL-HEEL FIRST (X,Z,U,W,I,L,P,Q,R)
G24 SPINDLE STOP, BOTH TOOL-HEELS FIRST (X,Z,U,W,I,L,P,Q,R)
G40 TOOL NOSE COMPENSATION CANCEL G41/G42 (X,Z,U,W,I,K,R) (SETTING 54)
G41 TOOL NOSE COMPENSATION, LEFT (X,Z,U,W) (SETTING 43, 44, 58)
G42 TOOL NOSE COMPENSATION, RIGHT (X,Z,U,W) (SETTING 43, 44, 58)
G50 SPINDLE SPEED MAXIMUM RPM LIMIT (S)
G51 RETURN TO MACHINE ZERO, CANCEL OFFSET (Yasnac)
G52 WORK OFFSET COORDINATE POSITIONING (Yasnac)
G52 GLOBAL WORK COORDINATE SYSTEM SHIFT (Fanuc)
G53 MACHINE COORDINATE POSITIONING, NON-MODAL (X,Z,B)
G54 WORK OFFSET COORDINATE POSITIONING #1 (SETTING 50)
G55 WORK OFFSET COORDINATE POSITIONING #2
G56 WORK OFFSET COORDINATE POSITIONING #3
G57 WORK OFFSET COORDINATE POSITIONING #4

G154 REV
G157 ACB
(SETTING
G154 SUB
G155 LIVE
G156 LIVE
G200 INDI

Basic M-c:
M00 PROG
M01 OPTI
M02 END

<http://www.machinehelp.com>

M04 SPIN
M05 SPIN
M06 COO
M09 COO
M10 CHU
M11 CHU
M12 UT
M13 UT
M14 MAP
M15 MAP
M17 ROT
M18 ROT
M19 ORG
M21 TAIL
M22 TAIL
M23 ANG
M24 ANG
M25 PROG
M21 CHF
M22 CHF

Haas Cnc Milling Reference Guide

Kuang-Hua Chang



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Mastercam X5 Training Guide - Mill 2D&3D ,2010 Machining Simulation Using SOLIDWORKS CAM 2025

Kuang-Hua Chang, Teaches you how to prevent problems reduce manufacturing costs shorten production time and improve estimating Covers the core concepts and most frequently used commands in SOLIDWORKS CAM Designed for users new to SOLIDWORKS CAM with basic knowledge of manufacturing processes Incorporates cutter location data verification by reviewing the generated G codes Includes a chapter on third party CAM Modules 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 2025 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 feed rate 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

Machining Simulation Using SOLIDWORKS CAM 2023 Kuang-Hua Chang, 2023 Teaches you how to prevent problems reduce manufacturing costs shorten production time and improve estimating Covers the core concepts and most frequently used commands in SOLIDWORKS CAM Designed for users new to SOLIDWORKS CAM with basic knowledge of manufacturing processes Incorporates cutter location data verification by reviewing the generated G codes Includes a chapter on third party CAM Modules 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 2023 version of SOLIDWORKS CAM are somewhat limited this book introduces third party CAM

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Manton, Duane Weidinger, 2007 **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

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This book points out important practical factors when transitioning from virtual to physical machining. Since the machining capabilities offered in the 2019 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.

Army Sustainment, 2015. The Department of the Army's official professional bulletin on sustainment, publishing timely authoritative information on Army and Defense sustainment plans, programs, policies, operations, procedures, and doctrine for the benefit of all sustainment personnel.

Mastercam X2 Training Guide Mill 2D Matthew Manton, Duane Weidinger, 2007. *Product Manufacturing and Cost Estimating using CAD/CAE* Kuang-Hua Chang, 2013-07-01. This is the second part of a four part series that covers discussion of computer design tools throughout the design process. Through this book, the reader will understand basic design principles and all digital design paradigms, understand CAD/CAE/CAM tools available for various design related tasks, understand how to put an integrated system together to conduct All Digital Design (ADD), understand industrial practices in employing ADD, and tools for product development. Provides a comprehensive and thorough coverage of essential elements for product manufacturing and cost estimating using the computer aided engineering paradigm. Covers CAD/CAE in virtual manufacturing, tool path generation, rapid prototyping, and cost estimating. Each chapter includes both analytical methods and computer aided design methods, reflecting the use of modern computational tools in engineering design and practice. A case

study and tutorial example at the end of each chapter provides hands on practice in implementing off the shelf computer design tools Provides two projects at the end of the book showing the use of Pro ENGINEER and SolidWorks to implement concepts discussed in the book Virtual Machining Using CAMWorks 2023 Kuang-Hua Chang,2023-08 Teaches you how to prevent problems reduce manufacturing costs shorten production time and improve estimating Designed for users new to CAMWorks with basic knowledge of manufacturing processes Covers the core concepts and most frequently used commands in CAMWorks Incorporates cutter location data verification by reviewing the generated G codes This book is written to help you learn the core concepts and steps used to conduct virtual machining using CAMWorks CAMWorks is a virtual machining tool designed to increase your productivity and efficiency by simulating machining operations on a computer before creating a physical product CAMWorks is embedded in SOLIDWORKS as a fully integrated module CAMWorks provides excellent capabilities for machining simulations in a virtual environment Capabilities in CAMWorks allow you to select CNC machines and tools extract or create machinable features define machining operations and simulate and visualize machining toolpaths In addition the machining time estimated in CAMWorks provides an important piece of information for estimating product manufacturing cost without physically manufacturing the product The book covers the basic concepts and frequently used commands and options you ll need to know to advance from a novice to an intermediate level CAMWorks user Basic concepts and commands introduced include extracting machinable features such as 2 5 axis features selecting machine and tools defining machining parameters such as feed rate generating and simulating toolpaths and post processing CL data to output G codes for support of CNC 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 cutter location data verification by reviewing the G codes generated from the toolpaths This helps you understand how the G codes are generated by using the respective post processors which is an important step and an ultimate way to confirm that the toolpaths and G codes generated are accurate and useful This book is intentionally kept simple It primarily serves the purpose of helping you become familiar with CAMWorks in conducting virtual machining for practical applications This is not a reference manual of CAMWorks You may not find everything you need in this book for learning CAMWorks But this book provides you with basic concepts and steps in using the software as well as discussions on the G codes generated After going over this book you will develop a clear understanding in using CAMWorks for virtual machining simulations and should be able to apply the knowledge and skills acquired to carry out machining assignments and bring machining consideration into product design in general Who this book is for This book should serve well for self learners A self learner should have a basic physics and mathematics background We assume that you are familiar with basic manufacturing processes especially milling and turning In addition we assume you are familiar with G codes A self learner should be able to complete the ten lessons of this book in about forty hours This book also serves well for class instructions

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