

## NC LATHE M-CODE LIST

M-CODE	DESCRIPTION	REMARK	M-CODE	DESCRIPTION	REMARK
M00	PROGRAM STOP		M20	STEADY REST 1 UNCLAMP	OPTION
M01	OPTIONAL STOP		M40	GEAR CHANGE RETURN	
M02	PROGRAM END		M41	GEAR CHANGE LOW	
M03	MAIN-SPINDLE FORWARD		M42	GEAR CHANGE MIDDLE	
M04	MAIN-SPINDLE REVERSE		M43	GEAR CHANGE HIGH	
M05	MAIN-SPINDLE STOP		M46	PTS BODY UNCL & TRACTOR ADV	OPTION
M07	HIGH-PRESSURE COOLANT ON	OPTION	M47	PTS BODY CL & TRACTOR RET	OPTION
M08	COOLANT ON		M50	BAR FEEDER COMMAND 1	OPTION
M09	COOLANT OFF		M51	BAR FEEDER COMMAND 2	OPTION
M10	PARTS CATCHER ADVANCE	OPTION	M52	SPLASH GUARD DOOR OPEN	OPTION
M11	PARTS CATCHER RETRACT	OPTION	M53	SPLASH GUARD DOOR CLOSE	OPTION
M13	TURRET AIR BLOW	OPTION	M54	PARTS COUNT	OPTION
M14	MAIN-SPINDLE AIR BLOW	OPTION	M58	STEADY REST 2 CLAMP	OPTION
M15	AIR BLOW OFF	OPTION	M59	STEADY REST 2 UNCLAMP	OPTION
M17	MACHINE LOCK ACT	OPTION (NO)	M61	SWITCHING LOW SPEED (H/L)	OR RS
M18	MACHINE LOCK CANCEL	OPTION (H)	M62	SWITCHING HIGH SPEED (H/L)	OR RS
M19	MAIN-SPINDLE ORIENTATION	OPTION	M63	MAIN-SPDL ON & COOLANT ON	
M24	CHIP CONVEYOR RUN	OPTION	M64	MAIN-SPDL COFF & COOLANT OFF	
M25	CHIP CONVEYOR STOP	OPTION	M65	MAIN-SPDL & COOLANT OFF	
M30	PROGRAM END & REWIND		M68	DUAL CHUCKING LOW CLAMP	OPTION
M31	INTERLOCK BY PASS SPDL & T/S		M67	DUAL CHUCK HIGH CLAMP	OPTION
M32	INTERLOCK BY PASS SPDL & R/F	1443	M68	MAIN-CHUCK CLAMP	
M33	REV TOOL SPINDLE FORWARD	1443	M69	MAIN-CHUCK UNCLAMP	

Use All  
M-CODES  
In  
CNC  
Programming

# M Codes In Cnc Machines

**Jiyuan Zhang**



## M Codes In Cnc Machines:

**The Journeyman's Guide to Cnc Machines** Bryan Hurst,2006-06-01 The Guide provides instruction in ISO code programming for Turning included are examples that will give an understanding of the principles to apply to any machine and control also featured are GE Fanuc and Siemens Controls The Guide lists functions and codes under the reference JG and provides space to include data for specific machines and controls Extensive examples show how to programme the options and features Component drawings have metric and imperial dimensions simply substitute the dimensions with those of the system of your choice The Guide is your starting point use the instructions and suggestions to build your own unique evolvable folder from here creating an invaluable personal handbook **Fanuc CNC Custom Macros** Peter Smid,2004-01-11 CNC programmers and service technicians will find this book a very useful training and reference tool to use in a production environment Also it will provide the basis for exploring in great depth the extremely wide and rich field of programming tools that macros truly are **BOOK JACKET** **CNC Programming Handbook** Peter Smid,2003 Comes with a CD ROM packed with a variety of problem solving projects Rapid Prototyping and Engineering Applications Frank W. Liou,2007-09-26 More quality more flexibility and less costs seem to be the key to meeting the demands of the global marketplace The secret to success in this arena lies in the expert execution of the critical tasks in the product definition stage Prototyping is an essential part of this stage yet can be very expensive It must be planned well and use state o **CNC MACHINE (Operating and Programming)** ajay dhamande,2023-07-01 This book of CNC MACHINE operating and programming of machines it is useful to students of ITI DIPLOMA and DEGREE ENGINEERING and those are working in machining industries The book mainly divide in 4 parts 1 how to operate the machine 2 setting process of machine 3 cutting tool selection process 4 how to write programming according to the process carried out In support it has technical topics like Drawing reading About Geometric Dimension and tolerances Speed and feed calculations All topic has ended up with the possible question that can be raised will facing exam or interviews and the answers are accessible to each user by email notification more than 20 solved programs for each process that were carried out on CNC TURNING and VMC machines and assess will be for more solved exercises through scanning given at the end of each chapter the author has shared his 18 years of training and working experience while describing each topic looking at the need for freshers to well experienced fellows you can communicate with us through the given channel on book back covers for any assistance all the best CNC Machine Mastery: From Fundamentals to Technical and CNC Job Interview Q&A Chetan Singh,2024-08-20 CNC Machine Mastery From Fundamentals to Technical and CNC Job Interview Q A is your essential guide to CNC technology This CNC machining book covers the basics of CNC machines including their history types and applications Learn CNC programming techniques from beginner to advanced and acquire skills to edit and optimize programs It also features insights into CNC machine operator skills career paths and includes a section on technical common interview questions and answers to help

you succeed in CNC machinist and operator job interviews Explore various types of CNC machines and their applications in modern manufacturing Understand the fundamentals of CNC programming with clear explanations of both basic and advanced techniques and learn how to edit and modify programs for precision and efficiency This CNC machine book equips you with the knowledge and tools needed to succeed and advance in your CNC machinist and operator career Ideal for students professionals and those new to the field     Managing Computer Numerical Control Operations Mike Lynch,1995 Provides the ideas guidelines and techniques you need to capture the full potential of your CNC equipment Nearly every aspect of CNC operations is addressed and the book is organized so you can use it as a step by step guide to efficient CNC utilization or as a shop floor reference for continuous improvement Hundreds of specific utilization boosting techniques are detailed     Operator Advanced Machine Tool (Theory) - II Mr. Rohit Manglik,2024-05-18 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels     **Rapid Prototyping and Engineering Applications** Fuewen Frank Liou,2019-02-06 Since the publication of the first edition several Additive Manufacturing technologies have been invented and many new terminologies have been formalized Each chapter has been brought up to date so that this book continues with its coverage of engineering procedures and the application of modern prototyping technologies such as Additive Manufacturing AM and Virtual Prototyping VP that quickly develops new products with lower costs and higher quality The examples practice exercises and case studies have also been updated Features Gears toward rapid product prototyping technologies Presents a wide spectrum of prototyping tools and state of the art additive manufacturing technologies Explains how to use these rapid product prototyping tools in the development of products Includes examples and case studies from the industry Provides exercises in each chapter along with solutions     TEXTBOOK OF PRODUCTION ENGINEERING, SECOND EDITION JAIN, K. C. ,CHITALE, A. K. ,2014-02-03 This thoroughly revised book now in its second edition gives a complete coverage of the fundamental concepts and applications of Production Engineering Divided into six parts the text covers the various theoretical concepts design and process of metal cutting the design and mechanism of various machine tools and various aspects of precision measurement and manufacturing The concepts and processes of metal working and the design of press tools various modern methods of manufacturing such as ultrasonic machining USM electrochemical deburring ECD and hot machining are also covered A variety of worked out examples and end of chapter review questions are provided to strengthen the grasp as well as to test the comprehension of the underlying concepts and principles The text is extensively illustrated to aid the students in gaining a thorough understanding of various production processes and the principles behind them The text is intended to serve the needs of the undergraduate students of Mechanical Engineering and Production Engineering The postgraduate students of Mechanical Engineering and Production

Engineering will also find the book highly useful Key Features Incorporates a new chapter on Grinding and other Abrasive metal removal processes Includes new sections on Electric motors for machine tools in Chapter 18 Production of screw threads in Chapter 22 Linear precision measurement surface finish and machine tools in Chapter 23 Presents several new illustrative examples throughout the book *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

*Resistant Materials* Lesley Cresswell,Barry Lambert,2003 The student friendly format and specification matched content makes this a vital tool for achieving success at AS and A2 level **Manufacturing Automation** Mr. Rohit

Manglik,2024-06-20 Automated manufacturing is covered Guides students to analyze robotic systems fostering expertise in industrial engineering through practical demonstrations and theoretical analysis **Exploring Advanced Manufacturing**

**Technologies** Stephen F. Krar,Arthur Gill,2003 Features 45 of the latest manufacturing technologies

*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 *Additive Manufacturing of Metals* John O. Milewski, 2017-06-28 This engaging volume presents the exciting new technology of additive manufacturing AM of metal objects for a broad audience of academic and industry researchers manufacturing professionals undergraduate and graduate students hobbyists and artists Innovative applications ranging from rocket nozzles to custom jewelry to medical implants illustrate a new world of freedom in design and fabrication creating objects otherwise not possible by conventional means The author describes the various methods and advanced metals used to create high value components enabling readers to choose which process is best for them Of particular interest is how harnessing the power of lasers electron beams and electric arcs as directed by advanced computer models robots and 3D printing systems can create otherwise unattainable objects A timeline depicting the evolution of metalworking accelerated by the computer and information age ties AM metal technology to the rapid evolution of global technology trends Charts diagrams and illustrations complement the text to describe the diverse set of technologies brought together in the AM processing of metal Extensive listing of terms definitions and acronyms provides the reader with a quick reference guide to the language of AM metal processing The book directs the reader to a wealth of internet sites providing further reading and resources such as vendors and service providers to jump start those interested in taking the first steps to establishing AM metal capability on whatever scale The appendix provides hands on example exercises for those ready to engage in experiential self directed learning **Virtual Machining Using CAMWorks 2016** Kuang-Hua Chang, 2018-01-04 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 concept and commands introduced include extracting machinable features such as 2 5 axis features selecting machine and tools defining machining parameters such as feedrate generating and simulating toolpaths and post processing CL data to output G codes for support of CNC machining The concept 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

**Machining Simulation Using SOLIDWORKS CAM 2021** Kuang-Hua Chang, 2021-07 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 2021 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

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**Machining Simulation Using SOLIDWORKS CAM 2020** Kuang-Hua Chang, 2020-07-15 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 2020 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

*Parametric Programming for Computer Numerical Control Machine Tools and Touch Probes* Mike Lynch,1997 Until now parametric programming has been the best kept secret of CNC This new book demystifies this simple yet sophisticated programming tool in an easy to understand tutorial format and presents a comprehensive how to of parametric programming from a user s point of view Focusing on three of the most popular versions of parametric programming Fanuc s custom macro B Okuma s user task 2 and Fadal s macro the book describes what parametric programming is what it can do and how it does it more efficiently than manual programming Along with a host of program simplifying techniques included in the book you re treated to descriptions of how to write set up and run general subprograms simulate the addition of control options and integrate higher level programming capabilities at G code level

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### **M Codes In Cnc Machines Introduction**

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