# M - Code

| Code | Description | Code | Description |
|------|-------------|------|-------------|
| M00 | PROGRAM STOP | M55 | CHUCK LOW PRESSURE * |
| M01 | OPTIONAL PROGRAM STOP | M56 | QUILL FORWARD |
| M02 | PROGRAM END | M57 | QUILL REVERS |
| M03 | SPINDLE CW | M58 | TAILSTOCK FORWARD* |
| M04 | SPINDLE CCW | M59 | TAILSTOCK REVERS* |
| M05 | SPINDLE STOP | M60 | BAR FEEDER* |
| M06 | TOOL CHANGE AT HOME POSITION (FOR SIEMENS) | M61 | PART CATCHER UP* |
| M07 | CTS(HIGH PRESSURE COOL) ON* | M62 - | PART CATCHER DOWN* |
| M08 | COOLANT ON | M63 | AUTO DOOR OPEN* |
| M09 | ALL COOL OFF | M64 | AUTO DOOR CLOSE* |
| M10 | SPAN FILTER ON* | M65 | QUILL/TAILSTOCK IN USE |
| M11 | SPAN FILTER OFF* | M66 | QUILL/TAILSTOCK NOT IN USE |
| M14 | AIR/OIL MIST ON* | M68 | AXIS MOVEMENT POSSIBLE WITH CHUCK DECLAMP ON |
| M15 | AIR/OIL MIST OFF* | M69 | AXIS MOVEMENT POSSIBLE WITH CHUCK DECLAMP OFF |
| M16 | TOOL CHANGE AT ANY POSITION (FOR SIEMENS) | M71 | SPINDLE BRAKE CLOSE (FOR TMC)* |
| M17 | SUB PROGRAM END | M72 | SPINDLE BRAKE OPEN (FOR TMC)* |
| M19 | MAIN SPINDLE ORIENTATION | M73 | AIR SEAT CONFIRMATION ON* |
| M20 | LIVE TOOL ORIENTATION (FOR TMC)* | M74 | AIR SEAT CONFIRMATION OFF* |
| M30 | PROGRAM END | M81 | STEADY REST CLAMP* |
| M32 | SHOPTURN PROGRAM END | M82 | STEADY REST DECLAMP* |
| M33 | TOOL PROBE DOWN* | M83 | JOB PROBE ON* |
| M34 | TOOL PROBE UP* | M84 | JOB PROBE OFF* |
| M41 | SPINDLE GEAR STAGE 1* | M91 | 2nd STEADY REST CLAMP* |
| M42 | SPINDLE GEAR STAGE 2* | M92 | 2nd STEADY REST DECLAMP* |
| M50 | CHUCK CLAMP | M94 | Steady Rest Engage/Unlock* |
| M51 | CHUCK DECLAMP | M95 | Steady Rest Disengage/lock* |
| M52 | CHIP CONVEYOR ON | M96 | Tailstock Engage/Unlock* |
| M53 | CHIP CONVEYOR OFF | M97 | Tailstock Disengage/lock* |
| M54 | CHUCK HIGH PRESSURE * | | * OPTIONAL |

# M Code Cnc Fanuc Manual Operations

**J Dewey**

**M Code Cnc Fanuc Manual Operations:**

**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 Theory & MCQ** Manoj Dole, CNC Theory MCQ is a simple Book for ITI Engineering Course CNC It contains CNC Theory covering all topics including all about the latest Important about CNC CNC Lathe operation turning operation including thread cutting CNC milling machine with extensive coverage of different operations viz plain face angular form gauge straddle milling square thread cutting and lots more We add new Theory with each new version Please email us in case of any errors omissions This is arguably the largest and best e Book for All engineering Theory As a student you can use it for your exam prep This e Book is also useful for professors to refresh material **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 *CNC SIMPLIFIED, Lab Manual* Arthur Gill Peter Smid Steve Krar,Stephen F. Krar,Arthur Gill,Peter Smid,2000 **Trends and Applications in Mechanical Engineering, Composite Materials and Smart Manufacturing** Padhi, Surya Narayan,2024-08-14 The fields of Mechanical Engineering Composite Materials and Smart Manufacturing find themselves at the heart of a pivotal predicament As these industries grapple with the demands for efficiency sustainability and innovation a need arises for a unified exploration of the transformative solutions within these domains At this crucial moment researchers academics and practitioners worldwide need to focus on understanding and solving the complex issues that are hindering progress Trends and Applications in Mechanical Engineering Composite Materials and Smart Manufacturing delves into solutions that propel industries economies and societies into a future defined by progress and resilience At its core this book strives to examine the disciplines of mechanical engineering composite materials and smart manufacturing With the collaborative efforts of diverse experts it attempts to create a comprehensive resource that not only identifies emerging trends but also unveils their impact on the real world By acting as a driving force for advancing current research bridging knowledge gaps and presenting innovative solutions the publication contributes significantly to the collective understanding of these disciplines The goal is to empower scholars educators and professionals with the knowledge and insights required to sculpt the future of these increasingly complex industries **CNC Programming Handbook** Peter Smid,2003 Comes with

a CD ROM packed with a variety of problem solving projects     *Machining For Dummies* Kip Hanson,2017-10-16 Start a successful career in machining Metalworking is an exciting field that s currently experiencing a shortage of qualified machinists and there s no time like the present to capitalize on the recent surge in manufacturing and production opportunities Covering everything from lathe operation to actual CNC programming Machining For Dummies provides you with everything it takes to make a career for yourself as a skilled machinist Written by an expert offering real world advice based on experience in the industry this hands on guide begins with basic topics like tools work holding and ancillary equipment then goes into drilling milling turning and other necessary metalworking processes You ll also learn about robotics and new developments in machining technology that are driving the future of manufacturing and the machining market Be profitable in today s competitive manufacturing environment Set up and operate a variety of computer controlled and mechanically controlled machines Produce precision metal parts instruments and tools Become a part of an industry that s experiencing steady growth Manufacturing is the backbone of America and this no nonsense guide will provide you with valuable information to help you get a foot in the door as a machinist     *Programming of Computer Numerically Controlled Machines* Kenneth W. Evans,2007 With its wide range of data about the selection of tools cutting speeds and the technology of machining this book would be a handy on the job reference for engineers programmers supervisors and machine operators besides serving as a proven and effective textbook for anyone learning CNC programming for the first time BOOK JACKET

   **SME Technical Paper** Society of Manufacturing Engineers,2002     **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     Introduction to Computer Numerical Control (CNC) James Valentino,Joseph 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     January 2023 - Surplus Record Machinery & Equipment Directory Thomas C. Scanlan,2023-01-01 SURPLUS RECORD is the leading independent business directory of new and used capital equipment machine tools machinery and industrial equipment listing over 110 000 industrial assets including metalworking and fabricating machine tools chemical and process equipment cranes air compressors pumps motors circuit breakers generators transformers turbines and more Over 1 100 businesses list with the SURPLUS RECORD March 2022 issue Vol 100 No 1     *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

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