

M - Code

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

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R Barnett

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Designing Small Weapons Jose Herrera-Ramirez,Luis Zuñiga-Aviles,2022-06-09 This book focuses on developing small weapons following the lifecycle of a firearm from design to manufacture It demonstrates how modern technologies can be used at every stage of the process such as design methodologies CAD CAE CAM software rapid prototyping test benches materials heat and surface treatments and manufacturing processes Several case studies are presented to provide detailed considerations on developing specific topics Small weapons are designed to be carried by one person examples are pistols revolvers rifles carbines shotguns and submachine guns Beginning with a review of the history of weapons from ancient to modern times this book builds on this by mapping out recent innovations and state of the art technologies that have advanced small weapon design Presenting a comprehensive guide to computer design tools used by weapon engineers this book demonstrates the capabilities of modern software at all stages of the process looking at the computer aided design engineering and manufacturing It also details the materials used to create small weapons notably steels engineering polymers composites and emerging materials Manufacturing processes both conventional and unconventional are discussed for example casting powder metallurgy additive manufacturing and heat and surface treatments This book is essential reading to those in the field of weapons such as designers workers in research and development engineering and design students students at military colleges sportsmen hunters and those interested in firearms Dr Jose Martin Herrera Ramirez is a military engineer with experience in the field of weapon and ammunition development After receiving his PhD in Materials Science and Engineering from the Paris School of Mines in France he was the head of the Applied Research Center and Technology Development for the Mexican Military Industry CIADTIM He now researches the development of metallic alloys and composites at the Research Center for Advanced Materials CIMAV in Chihuahua Mexico Dr Luis Adrian Zuiga Aviles is a military engineer with wide experience in the field of weapon and ammunition development He was head of the prototypes and simulation departments at the Applied Research Center and Technology Development for the Mexican Military Industry CIADTIM and head of engineering of the Production directorate He received his PhD in Science and Technology on Mechatronics from the Center for Engineering and Industrial Development CIDESI in Queretaro Mexico He now researches the new product design and development for military application machinery robotics and medical devices in the Faculty of Medicine at the Autonomous University of Mexico State UAEMex and the Faculty of Engineering at UAEMex as part of the Researchers for Mexico program CONACYT

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Rapid One of a kind Product Development discusses research in the development of new enabling technologies for small and medium companies Scientific advancements presented include a novel product data modelling scheme to model product design manufacturability and knowledge under a common data object customised product development in a distributed environment and new adaptive scheduling methods for the optimal production of a wide variety of customised products taking into consideration all of the possible changes from customers and the uncertainties in manufacturing The book also includes research towards a computer aided customer interface which allows customer requirements and changes to be processed and integrated with technical designs in real time adaptive and concurrent CAD methods and algorithms and product modelling and system integration technologies The reader will learn how to translate customer requirements to technical attributes develop new and innovative products to meet customer requirements and expectations evaluate and optimise a project design design production systems and use them efficiently and manage a variety of customised products Rapid One of a kind Product Development demonstrates how to develop new methods tools and algorithms to address the problems in a mass customisation environment It is a valuable source of information for researchers and engineers in the fields of design and manufacturing

Metals Abstracts ,1995 **Machine Tool Practices** Richard R. Kibbe,John E. Neely,Roland O. Meyer,Warren T. White,1999 Introduction to all common manual machine tool operations with an introduction to computer numerical control operations *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 **Thomas Register of American Manufacturers** ,2003 Vols for 1970 71 includes manufacturers catalogs

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