

# 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	SHOFTURN 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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**Surplus Record**



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Power Plant Life Management and Performance Improvement John E Oakey,2011-09-28 Coal and gas based power plants currently supply the largest proportion of the world s power generation capacity and are required to operate to increasingly stringent environmental standards Higher temperature combustion is therefore being adopted to improve plant efficiency and to maintain net power output given the energy penalty that integration of advanced emissions control systems cause However such operating regimes also serve to intensify degradation mechanisms within power plant systems potentially affecting their reliability and lifespan Power plant life management and performance improvement critically reviews the fundamental degradation mechanisms that affect conventional power plant systems and components as well as examining the operation and maintenance approaches and advanced plant rejuvenation and retrofit options that the industry are applying to ensure overall plant performance improvement and life management Part one initially reviews plant operation issues including fuel flexibility condition monitoring and performance assessment Parts two three and four focus on coal boiler plant

gas turbine plant and steam boiler and turbine plant respectively reviewing environmental degradation mechanisms affecting plant components and their mitigation via advances in materials selection and life management approaches such as repair refurbishment and upgrade Finally part five reviews issues relevant to the performance management and improvement of advanced heat exchangers and power plant welds With its distinguished editor and international team of contributors Power plant life management and performance improvement is an essential reference for power plant operators industrial engineers and metallurgists and researchers interested in this important field Provides an overview of the improvements to plant efficiency in coal and gas based power plants Critically reviews the fundamental degradation mechanisms that affect conventional power plant systems and components noting mitigation routes alongside monitoring and assessment methods Addresses plant operation issues including fuel flexibility condition monitoring and performance assessment

**Materials for Ultra-Supercritical and Advanced Ultra-Supercritical Power Plants** Augusto Di Gianfrancesco, 2016-09-01 Materials for Ultra Supercritical and Advanced Ultra Supercritical Power Plants provides researchers in academia and industry with an essential overview of the stronger high temperature materials required for key process components such as membrane wall tubes high pressure steam piping and headers superheater tubes forged rotors cast components and bolting and blading for steam turbines in USC power plants Advanced materials for future advanced ultra supercritical power plants such as superalloys new martensitic and austenitic steels are also addressed Chapters on international research directions complete the volume The transition from conventional subcritical to supercritical thermal power plants greatly increased power generation efficiency Now the introductions of the ultra supercritical USC and in the near future advanced ultra supercritical A USC designs are further efforts to reduce fossil fuel consumption in power plants and the associated carbon dioxide emissions The higher operating temperatures and pressures found in these new plant types however necessitate the use of advanced materials Provides researchers in academia and industry with an authoritative and systematic overview of the stronger high temperature materials required for both ultra supercritical and advanced ultra supercritical power plants Covers materials for critical components in ultra supercritical power plants such as boilers rotors and turbine blades Addresses advanced materials for future advanced ultra supercritical power plants such as superalloys new martensitic and austenitic steels Includes chapters on technologies for welding technologies

**Finite Volumes for Complex Applications VI Problems & Perspectives** Jaroslav Fořt, Jiří Fürst, Jan Halama, Raphaële Herbin, Florence Hubert, 2011-07-21 Finite volume methods are used for various applications in fluid dynamics magnetohydrodynamics structural analysis or nuclear physics A closer look reveals many interesting phenomena and mathematical or numerical difficulties such as true error analysis and adaptivity modelling of multi phase phenomena or fitting problems stiff terms in convection diffusion equations and sources To overcome existing problems and to find solution methods for future applications requires many efforts and always new developments The goal of The International Symposium on Finite Volumes for Complex Applications VI is to bring

together mathematicians physicists and engineers dealing with Finite Volume Techniques in a wide context This book divided in two volumes brings a critical look at the subject new ideas limits or drawbacks of methods theoretical as well as applied topics   **Asiamac Journal** ,1992   *October 2023 - Surplus Record Machinery & Equipment Directory* Tom Scanlan, 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 since 1924 including metalworking and fabricating machine tools lathes cnc equipment machine centers woodworking equipment food equipment 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 October 2023 issue Vol 100 No 10

## Decoding **M Codes For Doosan**: Revealing the Captivating Potential of Verbal Expression

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