

Mastercam X⁴

QUICK REFERENCE CARD

Icon	Function	Keyboard Shortcut	Icon	Function	Keyboard Shortcut
	Analyze entities	F4		Mastercam version, SIM serial number	Alt+V
	AutoSave	Alt+A		Motion controller rotation point	Alt+F12
	C-Hook or user app	Alt+C		Pan	Arrow keys
	Configure Mastercam	Alt+F8		Paste from clipboard	Ctrl+V
	Copy to clipboard	Ctrl+C		Previous view	Alt+P
	Cut to clipboard	Ctrl+X		Redo an event that has been undone	Ctrl+Y
	Delete	F5		Regenerate screen	Shift+Ctrl+R
	Drafting global options	Alt+D		Repaint	F3
	Exit Mastercam	Alt+F4		Rotate	Alt+Arrow keys
	Fit geometry to screen	Alt+F1		Select all	Ctrl+A
	Gview-Back	Alt+3		Selection grid options	Alt+G
	Gview-Bottom	Alt+4		Shading on/off	Alt+S
	Gview-Front	Alt+2		Show/hide all axes (WCS, Cplane, Tplane)	Alt+F9
	Gview-Isometric	Alt+7		Show/hide coordinate axes	F9
	Gview-Left	Alt+6		Show/hide displayed toolpaths	Alt+T
	Gview-Previous	Alt+P		Show/hide Operations Manager pane	Alt+O
	Gview-Right	Alt+5		Undo the last creation or event	Alt+U, Ctrl+U, Ctrl+Z
	Gview-Top	Alt+1		Unzoom to 80% of original	Alt+F2
	Help	Alt+H		Unzoom to previous or 50% of original	F2
	Hide entities	Alt+E		Zoom around target point	Ctrl+F1
	Level Manager	Alt+Z		Zoom with window selection	F1
	Main attributes, set from entity	Alt+X		Zoom/unzoom by 5%	Page Up, Page Down

Customizing Mastercam

► Create your own keyboard shortcuts.

Choose **Settings > Key mapping**.

- Save sets of shortcuts to different key map files (.KMP).
- Open .KMP files in any text editor.

► Change toolbar layouts.

Choose **Settings > Customize**.

- Name sets of toolbars and save them to different toolbar files (.MTB).
- Choose **Toolbar States** to hide or display toolbars.

► Customize the right-click menu.

Choose **Settings > Customize > Dropdowns/Right mouse button** to add your own functions (.MTB file).

► Use drop-down menus.

Choose **Settings > Customize > Dropdowns** tab to add drop-down menus to toolbars.



Mastercam 4 Reference Guide

ML Morrison

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Mastercam 4 Reference Guide:

Subject Guide to Books in Print, 2001 Organizational Maintenance Manual, 1991 Diesel Engine Reference Book Bernard Challen, Rodica Baranescu, 1999 The Diesel Engine Reference Book Second Edition is a comprehensive work covering the design and application of diesel engines of all sizes The first edition was published in 1984 and since that time the diesel engine has made significant advances in application areas from passenger cars and light trucks through to large marine vessels The Diesel Engine Reference Book systematically covers all aspects of diesel engineering from thermodynamics theory and modelling to condition monitoring of engines in service It ranges through subjects of long term use and application to engine designers developers and users of the most ubiquitous mechanical power source in the world The latest edition leaves few of the original chapters untouched The technical changes of the past 20 years have been enormous and this is reflected in the book The essentials however remain the same and the clarity of the original remains Contributors to this well respected work include some of the most prominent and experienced engineers from the UK Europe and the USA Most types of diesel engines from most applications are represented from the smallest air cooled engines through passenger car and trucks to marine engines The approach to the subject is essentially practical and even in the most complex technological language remains straightforward with mathematics used only where necessary and then in a clear fashion The approach to the topics varies to suit the needs of different readers Some areas are covered in both an overview and also in some detail Many drawings graphs and photographs illustrate the 30 chapters and a large easy to use index provides convenient access to any information the readers requires **Novel Trends in Production Devices and Systems IV** Daynier Rolando Delgado Sobrino, Karol Velišek, 2018-04-10 NTPDS IV Special topic volume with invited peer reviewed papers only **Automobile Engineer's Reference Book** A. J. Coker, 1959 **Diesel Engine Reference Book** Leslie Ronald C. Lilly, 1984 Tool Engineers Handbook American Society of Tool and Manufacturing Engineers, 1959 USA Encyclopaedic textbook on the technical aspects of machine tool engineering operations in the manufacturing industry covers cost and quality control planning production processes job descriptions for tool engineers etc Diagrams and statistical tables *Applications of Design for Manufacturing* Samir Botros Billatos, Byoung Sung Kim, 1998 Comprises nine contributions which explore the tools and methodologies of DFM The contributions look at methods of design and manufacturing that have to be incorporated to effectively utilize resources and enhance competitiveness in the marketplace Specific topics include designing machine tools t **Transactions of the North American Manufacturing Research Institution of SME.**, 1991 **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

Computer Integrated Manufacturing (Iccim '91): Manufacturing Enterprises Of The 21st Century - Proceedings Of The International Conference B S Lim,1991-10-02 In the 21st century computer integrated manufacturing CIM systems will not only be the economic development tools but will also be the essential means of achieving a higher level of flexibility cohesiveness and performance CIM systems are beginning to settle into our society and industries with greater emphasis on the integration of economic cultural and social aspects together with design planning factory automation and artificial intelligent systems This volume of proceedings brings together 10 keynote and invited speaker addresses and over 180 papers by practitioners from 28 countries It documents current research and in depth studies on the fundamental aspects of advanced CIM systems and their practical applications The papers fall into 3 main sections CIM Related Issues Industrial AI Applications Aspects and Concurrent Engineering Advanced Design Simulation and Flexible Manufacturing Systems

Handbook of Fixture Design American Society of Tool and Manufacturing Engineers,1962 THE Journal ,1992-08 *Tech Directions* ,1993 Forthcoming Books Rose Arny,1998

War Department Education Manual United States Armed Forces Institute,1944 *Wood & Wood Products* ,1990

Manufacturing Process Planning José V. Abellán-Nebot,Carlos Vila Pastor,Héctor Rafael Siller-Carrillo,2025-03-18

Comprehensive introduction to manufacturing process planning in the context of the latest techniques being used in industry Manufacturing Process Planning is a comprehensive guide to the intricacies of the manufacturing planning process that leads readers through each stage of planning while providing practical examples that illustrate the manufacturing activities taking place at every juncture Beginning with the fundamentals the book bridges the gap between technical documents and product specifications and how the information they contain can be effectively applied on the shop floor The focus of this book is honed around four key areas selection of manufacturing processes process planning in sand casting process planning in machining and process planning in inspection Each chapter highlights best practices for activities such as casting mold

design machining sequence identification geometrical validation CNC programming the preparation of inspection reports and more Special attention is paid to manufacturing cost estimation and pricing ensuring that the production process is not only feasible but also cost effective To enhance the learning experience the book comes complete with an active learning project brief and tutorial sessions covering casting simulation pattern design and CNC simulation using freely available software Manufacturing Process Planning includes information on Fundamentals of casting from heating the metal to pouring the molten metal to solidification and cooling to determining casting quality and performing cleaning operations Definition and selection of workholding systems covering principles of workholding types of workholding systems and general purpose of workholding devices for turning and milling Machine and cutting tool selection and process parameter selection covering specific guidelines in turning milling and drilling Documents for process planning including process flow charts routing sheets and operation and tooling lists Providing a hands on approach to mastering the principles of manufacturing process planning Manufacturing Process Planning is an ideal resource for undergraduate and graduate academic courses that incorporate a lab component as well as production planning supervisors and managers looking to hone their knowledge base

Aviation Service and Maintenance James G. Thompson,1937 Modern Machinery ,1903

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