

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 Reference Guide

Padhraic Smyth

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

Mastercam Reference Guide:

SOLIDWORKS 2020 Reference Guide David Planchard, 2019-12 A comprehensive reference book for SOLIDWORKS 2020 Contains 260 plus standalone tutorials Starts with a basic overview of SOLIDWORKS 2020 and its new features Tutorials are written for each topic with new and intermediate users in mind Includes access to each tutorial's initial and final state Contains a chapter introducing you to 3D printing The SOLIDWORKS 2020 Reference Guide is a comprehensive reference book written to assist the beginner to intermediate user of SOLIDWORKS 2020 SOLIDWORKS is an immense software package and no one book can cover all topics for all users This book provides a centralized reference location to address many of the tools features and techniques of SOLIDWORKS 2020 This book covers the following System and Document properties FeatureManagers PropertyManagers ConfigurationManagers RenderManagers 2D and 3D Sketch tools Sketch entities 3D Feature tools Motion Study Sheet Metal Motion Study SOLIDWORKS Simulation PhotoView 360 Pack and Go 3D PDFs Intelligent Modeling techniques 3D printing terminology and more Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SOLIDWORKS 2020 software If you are completely new to SOLIDWORKS you should read Chapter 1 in detail and complete Lesson 1 Lesson 2 and Lesson 3 in the SOLIDWORKS Tutorials If you are familiar with an earlier release of SOLIDWORKS you still might want to skim Chapter 1 to become acquainted with some of the commands menus and features that you have not used or you can simply jump to any section in any chapter Each chapter provides detailed PropertyManager information on key topics with individual stand alone short tutorials to reinforce and demonstrate the functionality and ease of the SOLIDWORKS tool or feature The book provides access to over 260 models their solutions and additional support materials Learn by doing not just by reading Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables configurations and more The book is designed to complement the Online Tutorials and Online Help contained in SOLIDWORKS 2020 The goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs The author developed the tutorials by combining his own industry experience with the knowledge of engineers department managers professors vendors and manufacturers He is directly involved with SOLIDWORKS every day and his responsibilities go far beyond the creation of just a 3D model

SOLIDWORKS 2019 Reference Guide David Planchard, 2018-12-05 The SOLIDWORKS 2019 Reference Guide is a comprehensive reference book written to assist the beginner to intermediate user of SOLIDWORKS 2019 SOLIDWORKS is an immense software package and no one book can cover all topics for all users This book provides a centralized reference location to address many of the tools features and techniques of SOLIDWORKS 2019 This book covers the following System and Document properties FeatureManagers PropertyManagers ConfigurationManagers RenderManagers 2D and 3D Sketch tools Sketch entities 3D Feature tools Motion Study Sheet Metal Motion Study SOLIDWORKS Simulation PhotoView 360 Pack and Go 3D PDFs

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Reference Guide David Planchard, 2018-01-29 The SOLIDWORKS 2018 Reference Guide is a comprehensive reference book written to assist the beginner to intermediate user of SOLIDWORKS 2018 SOLIDWORKS is an immense software package and no one book can cover all topics for all users This book provides a centralized reference location to address many of the tools features and techniques of SOLIDWORKS 2018 This book covers the following System and Document properties FeatureManagers PropertyManagers ConfigurationManagers RenderManagers 2D and 3D Sketch tools Sketch entities 3D Feature tools Motion Study Sheet Metal Motion Study SOLIDWORKS Simulation PhotoView 360 Pack and Go 3D PDFs Intelligent Modeling techniques 3D printing terminology and more Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SOLIDWORKS 2018 software If you are completely new to SOLIDWORKS you should read Chapter 1 in detail and complete Lesson 1 Lesson 2 and Lesson 3 in the SOLIDWORKS Tutorials If you are familiar with an earlier release of SOLIDWORKS you still might want to skim Chapter 1 to become acquainted with some of the commands menus and features that you have not used or you can simply jump to any section in any chapter Each chapter provides detailed PropertyManager information on key topics with individual stand alone short tutorials to reinforce and demonstrate the functionality and ease of the SOLIDWORKS tool or feature The book provides access to over 250 models their solutions and additional support materials Learn by doing not just by reading Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables configurations and more The book is designed to complement the Online Tutorials and

Online Help contained in SOLIDWORKS 2018 The goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs The author developed the tutorials by combining his own industry experience with the knowledge of engineers department managers professors vendors and manufacturers He is directly involved with SOLIDWORKS every day and his responsibilities go far beyond the creation of just a 3D model

SOLIDWORKS 2017 Reference Guide David Planchard,2017 The SOLIDWORKS 2017 Reference Guide is a comprehensive reference book written to assist the beginner to intermediate user of SOLIDWORKS 2017 SOLIDWORKS is an immense software package and no one book can cover all topics for all users This book provides a centralized reference location to address many of the tools features and techniques of SOLIDWORKS 2017 This book covers the following System and Document propertiesFeatureManagersPropertyManagersConfigurationManagersRenderManagers2D and 3D Sketch toolsSketch entities3D Feature toolsMotion StudySheet MetalMotion StudySOLIDWORKS SimulationPhotoView 360Pack and Go3D PDFsIntelligent Modeling techniques3D printing terminology and more Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SOLIDWORKS 2017 software If you are completely new to SOLIDWORKS you should read Chapter 1 in detail and complete Lesson 1 Lesson 2 and Lesson 3 in the SOLIDWORKS Tutorials If you are familiar with an earlier release of SOLIDWORKS you still might want to skim Chapter 1 to become acquainted with some of the commands menus and features that you have not used or you can simply jump to any section in any chapter Each chapter provides detailed PropertyManager information on key topics with individual stand alone short tutorials to reinforce and demonstrate the functionality and ease of the SOLIDWORKS tool or feature The book provides access to over 250 models their solutions and additional support materials Learn by doing not just by reading Formulate the skills to create modify and edit sketches and solid features Learn the techniques to reuse features parts and assemblies through symmetry patterns copied components design tables configurations and more The book is designed to compliment the Online Tutorials and Online Help contained in SolidWorks 2017 The goal is to illustrate how multiple design situations and systematic steps combine to produce successful designs The author developed the tutorials by combining his own industry experience with the knowledge of engineers department managers professors vendors and manufacturers He is directly involved with SOLIDWORKS every day and his responsibilities go far beyond the creation of just a 3D model

Mastercam X5 Training Guide - Mill 2D&3D ,2010 *Mastercam Post Processor User Guide* C N C Software, Incorporated,1997-09-01

Mastercam Instructor Guide X2 Mariana Lendel,2006 **Mastercam X2 Training Guide Mill 2D** Matthew Manton,Duane Weidinger,2007 *Diesel Engine Reference Book* Leslie Ronald C. Lilly,1984 **Mastercam X2 Training Guide Mill** Matthew Manton,Duane Weidinger,2007 **Mastercam X2 Training Guide Mill 2D/Lathe Combo** Matthew Manton,Duane Weidinger,2007 **Evolutionary Design and Manufacture** I.C. Parmee,2012-12-06 The fourth evolutionary adaptive computing conference at the University of Plymouth again explores the utility of various evolutionary

adaptive search algorithms and complementary computational intelligence techniques within design and manufacturing The content of the following chapters represents a selection of the diverse set of papers presented at the conference that relate to both engineering design and also to more general design areas This expansion has been the result of a conscious effort to recognise generic problem areas and complementary research across a wide range of design and manufacture activity There has been a major increase in both research into and utilisation of evolutionary and adaptive systems within the last two years This is reflected in the establishment of major annual joint US genetic and evolutionary computing conferences and the introduction of a large number of events relating to the application of these technologies in specific fields The Plymouth conference remains a long standing event both as ACDM and as the earlier ACEDC series The conference maintains its policy of single stream presentation and associated poster and demonstrator sessions The event retains the support of several UK Engineering Institutions and is now recognised by the International Society for Genetic and Evolutionary Computation as a mainstream event It continues to attract an international audience of leading researchers and practitioners in the field

MASTERCAM X : HANDBOOK VOLUME1 CHARLES AUTOR DAVIS,2005 Mastercam X2 with SolidWorks Training Guide Mill 2D Matthew Manton,Duane Weidinger,2007 *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 Subject Guide to Books in Print ,2001 *Mastercam Handbook Vol 2 X* ,2006 *MASTERCAM X7* Emre Günaydın,2014 Sizler i in haz rlanm bu eser MasterCam yaz l m n kullanarak CNC torna ve freze tezg hlar ile imalat yapabilece iniz b t n bilgileri i ermektedir Tasar m komutlar anlat m 2 boyutlu izim zellikleri ile ba lay p 3D tel kafes al malar y zey ve kat modelleme ile devam etmektedir Frezeleme zellikleri anlat m Mastercam in en h zl ekilde cevap verdi i 2D tak m yollar ile ba lay p 3D i leme ve oklu eksen i leme zellikleri ile devam etmektedir Tornalama zellikleri anlat m 2D tel kafes ve veya 3D model zerinden ba lanm ve C eksen zellikleri ile devam edilmi tir Program zellikleri en iyi ekilde anlat ld gibi uygulamalar ile b t n bu zellikler peki tirilmi tir Programdaki bir zelli in anlat lmas zerine bu zelli in imalatta nas l avantaja evrilece inden de bahsedilmi tir Ayr ca CAD CAM yaz l mlar ndan elde edilen CNC kt lar n n yorumlar yap lm t r G n m zde pek ok CAD CAM kullan c s NC kodlar n bilmeden yaz l m deste i ile program yapmaktad r NC kodlar n n anlamlar n bilmek ve yorum yapabilmek size CAD CAM kullan c s olarak de er katacakt r renmek istedi iniz MasterCam yaz l m d nyadaki en eski CAD CAM yaz l d r ve b t n d nyaya kendisini ispatlam t r Bu yaz l m rendi inizde d nyan n herhangi bir yerinde imalat yapabilir ve al abilirsiniz Ayr ca kitab n yan nda hediye verilen DVD ile sesli ve g r nt l bir e itim deste i bulacaks n z Kitap hakk nda baz konu ba l klar CAD CAM yaz l mlar ile imalata giri Mastercam aray z tan mlamalar B t n Mastercam komutlar n n zeti izim l lendirme Frezeleme Tornalama C eksen 5 eksen Mastercam tasar ma giri 2D izim komutlar zellikleri al ma d zlemi zellikleri Analiz komutlar Budama uzatma komutlar

zellikleri De i tirme komutlar zellikleri 3D ta ma D nd rme 2D tak m yollar zellikleri Makine se imi K t k tan mlama Parametrik tak m yolu se imi ve zellikleri Frezelemede kesme h z devir ilerleme hesab Kesici tan mlama ve k t phaneye kaydetme Kesme parametrelerini tan mlanmas 2D tel kafes zerinden Contour tak m yollar olu turma Kesicinin i par as na giri k ayarlar Delik delme zellikleri ve G evrimleri H zl oklu delik delme zelli i Y ksek h zl y zey temizleme zelli i Cep bo altma zelli i ve giri k ayarlar Cep bo altmada y ksek h zl i leme Operasyon sayfas y netimi Tak m yollar n n sim lasyon yap lmas zellikleri NC kod retme ve makine kontrol nitesi se imleri Tornalamaya giri Tornalamada kesme h z devir ilerleme hesab Tornalamada k t k tan mlama ve k t k zerinden al ma Tornalamada ayna ve punta se imi Kaba ve final tornalama zellikleri Tornalamada kesici u ve tutucu tan mlama Kesici s f r noktas n n belirlenmesi ve kesici u rady s telafisi Sa Sol ayna ve taret tan mlama Kesicinin i par as na giri k ayarlar Tek ift y nl kesme Al n d ap i ap tornalama Dalma parametrelerini d zenlenmesi fig r i leme K t k tan mlanmas ve optimize edilmesi Tornalamada final tornalama zellikleri Tornalamada di ekme evrimleri Tornalamada fig r i leme zellikleri Tornalamada geli tirilmi kaba tornalama i lemi Tornalamada hareketli kaba tornalama i lemi Tornalamada y zey tornalama Tornalamada biten par ay kesme zelli i Tornalamada delik evrimleri zellikleri G kodlar Tornalamada noktadan noktaya tak m yolu retme H zl tornalama komutlar zellikleri evrimlerle tak m yolu olu turma zelli i G71 G75 G73 v b 3D tel kafes tasar m olu turma Y zey olu turma komutlar n n tamam Kat model olu turma zellikleri Teknik resim kartma 3D model zerinden kaba tak m yolu olu turma 3D kaba frezeleme kesme parametreleri zellikleri 3D kaba frezeleme parametreleri zellikleri Kat model y zey se imleri 3D model zerinden final tak m yolu olu turma 3D model final i leme parametreleri zellikleri Y ksek h zl i leme 3D tak m yollar zellikleri Y ksek h zl i leme kaba ve final i leme zellikleri Y ksek h zl i leme kaba ve final tak m yollar parametreleri Y ksek h zl i lemede orta kaba i lem zelli i oklu eksen i leme komutlar Parametrik oklu eksen i leme tak m yolu se imleri oklu eksen i leme tak m yollar zellikleri oklu eksen i lemede kesici u kontrol oklu eksende s rekli ve pozisyon lamal al ma oklu eksende h zl delik delme Tornalamada C eksen uygulamalar Tornalamada C eksen ile al n frezeleme Tornalamada C eksen ap frezeleme Tornalamada C eksen ap zerinde fig r i leme Tornalamada C eksen apta delik evrimleri Tornalamada C eksen al nda delik evrimleri

MODUL CNC MILLING MASTERCAM X9 AHMAD PUTRA AFANDI, Modul CNC Milling Mastercam X9 ini dikembangkan sesuai dengan kurikulum K 13 Materi dalam buku ini disusun berdasarkan kompetensi inti kompetensi dasar mata pelajaran Teknik Permesinan NC CNC dan CAM Kompetensi Keahlian Teknik Permesinan Program Keahlian Teknik Mesin tingkat SMK Modul ini memiliki 7 kegiatan pembelajaran Kegiatan Belajar 1 Konsep dasar dan fungsi perintah CAM Milling Kegiatan Belajar 2 Jenis alat potong dan parameter pemotogan Kegiatan Belajar 3 Toolpath 2D dan 3D Contour Kegiatan Belajar 4 Toolpath Drill Facing Pocket Kegiatan Belajar 5 Toolpath Surface Roughing dan Finishing Kegiatan Belajar 6 Simulasi dan Analisis Program CAM Milling Kegiatan Belajar 7 Evaluasi Program dan Perintah G Code Berdasarkan hasil validasi ahli modul ini sangat sistematis bermakna mudah dipelajari dan mudah diimplementasikan dalam pembelajaran di kelas Ditinjau dari aspek isi modul ini cukup membantu peserta didik dalam

memperkaya dan mendalami materi Dengan hadirnya modul ini diharapkan dapat membantu peserta didik untuk mencapai kompetensi pada mata pelajaran CNC di Jurusan Teknik Pemesinan **A Commands Guide Tutorial for SolidWorks**
2007 David C. Planchard, Marie P. Planchard, 2007

Embracing the Track of Term: An Emotional Symphony within **Mastercam Reference Guide**

In a global used by screens and the ceaseless chatter of instant transmission, the melodic elegance and mental symphony produced by the published word often diminish into the background, eclipsed by the relentless sound and disruptions that permeate our lives. Nevertheless, nestled within the pages of **Mastercam Reference Guide** a charming literary treasure brimming with fresh emotions, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, this charming masterpiece conducts viewers on a psychological trip, well unraveling the concealed tunes and profound influence resonating within each carefully constructed phrase. Within the depths of this emotional examination, we can explore the book is central harmonies, analyze its enthralling writing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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