

G-Code Reference List

G Code	Function
G00	Positioning at rapid travel;
G01	Linear interpolation using a feed rate;
G02	Circular interpolation clockwise;
G03	Circular interpolation, counterclockwise;
G04	Dwell
G17	Select X-Y plane;
G18	Select Z-X plane;
G19	Select Z-Y plane;
G20	Imperial units;
G21	Metric units;
G27	Reference return check;
G28	Automatic return through reference point;
G29	Move to a location through reference point;
G31	Skip function;
G32	Thread cutting operation on a Lathe;
G33	Thread cutting operation on a Mill;
G40	Cancel cutter compensation;
G41	Cutter compensation left;
G42	Cutter compensation right;
G43	Tool length compensation;
G44	Tool length compensation;
G50	Set coordinate system (Mill);
G50	Maximum RPM (Lathe);
G52	Local coordinate system setting;
G53	Machine coordinate system setting;
G54	Set Datum;
G55	Set Datum;
G56	Set Datum;
G57	Set Datum;

G Code	Function
G58	Set Datum;
G59	Set Datum;
G70	Finish cycle (Lathe);
G71	Rough turning cycle (Lathe);
G72	Rough facing cycle (Lathe);
G73	Chip break drilling cycle;
G74	Left hand tapping (Mill);
G74	Face grooving cycle;
G75	OD groove pecking cycle (Lathe);
G76	Boring cycle (Mill);
G78	Screw cutting cycle (Lathe);
G80	Cancel cycles;
G81	Drill cycle;
G82	Drill cycle with dwell;
G83	Peck drilling cycle;
G84	Tapping cycle;
G85	Bore in, bore out;
G86	Bore in, rapid out;
G87	Back boring cycle;
G90	Absolute programming;
G91	Incremental programming;
G92	Reposition origin point (Mill);
G92	Screw thread cutting cycle (Lathe);
G94	Per minute feed;
G95	Per revolution feed;
G96	Constant surface speed (Lathe);
G97	Constant surface speed cancel;
G98	Feed per minute (Lathe);
G99	Feed per revolution (Lathe);

G Code Reference Manual

S Ashworth



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PTIPS Database Applications Users Guide and Reference Manual ,1996 CNC Programming Handbook Peter Smid,2003 Comes with a CD ROM packed with a variety of problem solving projects TeX Reference Manual David Bausum,2002-03-31 TeX is a software program for computerized typesetting of professional publications such as reports and directories This reference alphabetically lists 325 primitive control sequences accompanied by descriptions examples and modes The descriptions are annotated discussions gleaned from Knuth s Texbook The opening chapter organizes the primitives into families and types that perform specific tasks Closing chapters discuss macros for typesetting verbatim and two column material and for working with PostScript fonts Annotation copyrighted by Book News Inc Portland OR

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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 2023 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 defining machining parameters such as feed rate spindle speed depth of cut and so on generating and simulating toolpaths and post processing CL data to output G code for support of physical machining The concepts and commands are introduced in a tutorial style presentation using simple but realistic examples Both milling and turning operations are included One of the unique features of this book is the incorporation of the CL data verification by reviewing the G code generated from the toolpaths This helps you understand how the G code is generated by using the respective post processors which is an important step and an excellent way to confirm that the toolpaths and G code generated are accurate and useful

Machining Simulation Using SOLIDWORKS CAM 2021 Kuang-Hua Chang, 2021-07 Teaches you how to prevent problems reduce manufacturing costs shorten production time and improve estimating Covers the core concepts and most

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in science or engineering We assume that you are familiar with basic manufacturing processes especially milling and turning And certainly we expect that you are familiar with SOLIDWORKS part and assembly modes A self learner should be able to complete the fourteen lessons of this book in about fifty hours This book also serves well for class instruction Most likely it will be used as a supplemental reference for courses like CNC Machining Design and Manufacturing Computer Aided Manufacturing or Computer Integrated Manufacturing This book should cover five to six weeks of class instruction depending on the course arrangement and the technical background of the students

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Altova® UModel® 2008 User & Reference Manual , **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

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