

## HAAS C.N.C. LATHE PREPARATORY FUNCTIONS

MODAL  
NON-MODAL  
DEFAULT \*  
OPTION\*\*

G00*	RAPID POSITIONING MOTION (X,Y,Z,U,W,V) (SETTING: 10, 10%)	G70	REGULAR PATH STOCK REMOVAL CYCLE (P,Q,U,W) (X,Y,Z,U,V) (SETTING: 10, 10%)
G01	LINEAR INTERPOLATION MOTION (X,Y,Z,U,W,V) (SETTING: 10, 10%)	G71	FACE GROOVING - HIGH SPEED/PECK DRILL CYCLE (X,Y,Z,U,W,X,Q,U,V) (SETTING: 10, 10%)
G02	CHAMFERING AND CORNER ROUNDOFF (X,Y,Z,U,W,X,Q,U,V) (SETTING: 10, 10%)	G72	O.D. I.D. PECK GROOVING CYCLE (X,Y,Z,U,W,X,Q,U,V) (SETTING: 10, 10%)
G03	CW CIRCULAR INTERPOLATION MOTION (X,Y,Z,U,W,X,Q,U,V) (SETTING: 10, 10%)	G73	THREAD CUTTING CYCLE, MULTIPLE PASS (X,Y,Z,U,W,X,Q,U,V) (SETTING: 10, 10, 10, 10)
G04	CW CIRCULAR INTERPOLATION MOTION (X,Y,Z,U,W,X,Q,U,V) (SETTING: 10, 10%)	G74	PLATTING CYCLE (X,Y,Z,U,W,X,Q,U,V) (SETTING: 10, 10, 10, 10)
G05	DWELL (P) (P=seconds) (P=milliseconds)	G75	CANCEL CANNED CYCLE (SETTING: 10)
G06*	PIVOT SPINDLE CONTROL MOTION (X,Y,Z,U,W,V) (LIVE TOOLING)	G76	DRILL CANNED CYCLE (X,Y,Z,U,W,V) (SETTING: 10, 10)
G07	EXACT STOP NON-MODAL	G77	SPOT DRILL / COUNTERTAP CANNED CYCLE (X,Y,Z,U,W,V) (SETTING: 10, 10)
G08	PROGRAMMABLE OFFSET SETTING (X,Y,Z,U,W,V) (SETTING: 10, 10)	G78	PECK DRILLING CANNED CYCLE (X,Y,Z,U,W,X,Q,U,V) (SETTING: 10, 10)
G09	MAIN SPINDLE SHIFT TO SUB-SPINDLE	G79	TAPPING CANNED CYCLE (X,Y,Z,U,W,V) (SETTING: 10, 10)
G10	MAIN SPINDLE SHIFT TO SUB-SPINDLE CANCEL	G80	BORE IN, BORE OUT CANNED CYCLE (X,Y,Z,U,W,X,Q,U,V) (SETTING: 10, 10)
G11	CIRCULAR MOTION BY PLANE SELECTION (G02-G03) (LIVE TOOLING)	G81	BORE IN, STOP, RAPID OUT CANNED CYCLE (X,Y,Z,U,W,X,Q,U,V) (SETTING: 10, 10)
G12	CIRCULAR MOTION BY PLANE SELECTION (G02-G03) (LIVE TOOLING)	G82	BORE IN, STOP, MANUAL RETRACT CANNED CYCLE (X,Y,Z,U,W,X,Q,U,V) (SETTING: 10, 10)
G13	CIRCULAR MOTION BY PLANE SELECTION (G02-G03) (LIVE TOOLING)	G83	BORE IN, DWELL, MANUAL RETRACT CANNED CYCLE (X,Y,Z,U,W,X,Q,U,V) (SETTING: 10, 10)
G14	VERIFY X/Y/Z COORDINATE POSITIONING (SETTING: 10 needs to be ON)	G84	BORE IN, DWELL, BORE OUT CANNED CYCLE (X,Y,Z,U,W,X,Q,U,V) (SETTING: 10, 10)
G15	VERIFY X/Y/Z COORDINATE POSITIONING (SETTING: 10 needs to be ON)	G85	O.D. I.D. TURNING CYCLE, MODAL (X,Y,Z,U,W,V) (SETTING: 10, 10)
G16	MACHINE ZERO RETURN THRU REF. POINT (X,Y,Z) (P=mm)	G86	THREADING CYCLE, MODAL (X,Y,Z,U,W,V) (SETTING: 10, 10)
G17	BORE TO LOCATION THROUGH G28 REF. POINT (X,Y,Z) (P=mm)	G87	END FACE LIVE TOOLING RISED TAP (X,Y,Z,U,W,V) (SETTING: 10, 10)
G18	FEED-UP/LV, SKIP FUNCTION (X,Y,Z,U,W,V) (SETTING: 10, 10)	G88	CONSTANT SURFACE SPEED, CSM ON (X) (SETTING: 10, 10)
G19	THREAD CUTTING PATH, MODAL (X,Y,Z,U,W,V) (SETTING: 10, 10)	G89	CONSTANT SURFACE SPEED, CSM OFF (X) (SETTING: 10, 10)
G20	TOOL NOSE COMPENSATION CANCEL, G90/G91 (X,Y,Z,U,W,V) (SETTING: 10, 10)	G90	FEED PER MINUTE (F) (SETTING: 10, 10)
G21	TOOL NOSE COMPENSATION, LEFT (X,Y,Z,U,W,V) (SETTING: 10, 10, 10)	G91	FEED PER REVOLUTION (F) (SETTING: 10, 10)
G22	TOOL NOSE COMPENSATION, RIGHT (X,Y,Z,U,W,V) (SETTING: 10, 10, 10)	G92	MIRROR IMAGE CANCEL, G93
G23	SPINDLE SPEED MAXIMUM RPM LIMIT (S) (SETTING: 10, 10)	G93	MIRROR IMAGE (X,Y,Z) (SETTING: 10, 10)
G24	RETURN TO MACHINE ZERO, CANCEL OFFSET (P=mm)	G94	PROGRAMMABLE OUTPUT TO RS-232 (X,Y,Z) (SETTING: 10, 10)
G25	WORK-OFFSET COORDINATE POSITIONING (P=mm)	G95	LIMIT BLOCK LOOKAHEAD (P=1-10 mm, for number control look ahead)
G26	GLOBAL WORK COORDINATE SYSTEM SHIFT (P=mm)	G96	SERVO-BAK COMMAND
G27	MACHINE COORDINATE POSITIONING, NON-MODAL (X,Y,Z) (SETTING: 10, 10)	G97	G11-G13 WORK-OFFSET COORDINATE POSITIONING #1-#3
G28	WORK-OFFSET COORDINATE POSITIONING #1 (SETTING: 10)	G98	G14-G15 WORK-OFFSET COORDINATE POSITIONING #4-#5
G29	WORK-OFFSET COORDINATE POSITIONING #2 (SETTING: 10)	G99	BACKGROUND-PECK/UP PART RETURN
G30	WORK-OFFSET COORDINATE POSITIONING #3 (SETTING: 10)	G100	APL, AXIS COMMAND MODE ON
G31	WORK-OFFSET COORDINATE POSITIONING #4 (SETTING: 10)	G101	APL, AXIS COMMAND MODE OFF
G32	WORK-OFFSET COORDINATE POSITIONING #5 (SETTING: 10)	G102	REVERSE TAPPING CANNED CYCLE (X,Y,Z,U,W,V) (SETTING: 10, 10)
G33	EXACT STOP, MODAL (X,Y,Z) (SETTING: 10)	G103	ACCURACY CONTROL FOR HIGH SPEED MACHINING (S) (SETTING: 10)
G34	EXACT STOP, G41 CANCEL (SETTING: 10)	G104	SUB-SPINDLE TAPPING CANNED CYCLE (X,Y,Z,U,W,V) (SETTING: 10, 10)
G35	MACRO SUBROUTINE CALL	G105	LIVE TOOLING VECTOR TAPPING (X,Y) (SETTING: 10, 10)
G36	FINISHING CYCLE (P,Q)	G106	LIVE TOOLING VECTOR TAPPING REVERSE (X,Y) (SETTING: 10, 10)
G37	O.D. I.D. STOCK REMOVAL CYCLE (P,Q,U,W) (X,Y,Z,U,V) (SETTING: 10, 10)	G107	INDEX ON THE FLY (X,Y,Z,U,W,V) (SETTING: 10, 10)
G38	END FACE STOCK REMOVAL CYCLE (P,Q,U,W) (X,Y,Z,U,V) (SETTING: 10, 10)		

Note: These G and M codes are useful reference information, on a desk, or at the machine. They're great to have laminated with G codes on one side and M codes on the other. As a suggestion; get some white 90lb. cardstock and print G-codes on one side and M-codes on the other. Cut out the square section and go to Kinko's copies or local printer to get them laminated.

# Haas G Code Reference Manual

**T.F. Fwa**



## Haas G Code Reference Manual:

*Scientific and Technical Aerospace Reports*, 1977      *Photorealistic Rendering Techniques* Georgios Sakas, Peter Shirley, Stefan Müller, 2012-12-06 This book contains the final versions of the proceedings of the fifth EUROGRA PHICS Workshop on Rendering held in Darmstadt Germany between 13 15 June 1994 With around 80 participants and 30 papers the event continued the successful tradition of the previous ones establishing the event as the most important meeting for persons working on this area world wide After more than 20 years of research rendering remains an partially unsolved interesting and challenging topic This year 71 papers have been submitted from Europe North America and Asia The average quality in terms of technical merit was impressive showing that substantial work is achieved on this topic from several groups around the world In general we all gained the impression that in the mean time the technical quality of the contributions is comparable to that of a specialised high end full scale conference All papers have been reviewed from at least three members of the program committee In addition several colleagues helped us in managing the reviewing process in time either by supporting additional reviews or by assisting the members of the committee We have been very happy to welcome eminent invited speakers Holly Rush meier is internationally well known for her excellent work in all areas of rendering and gave us a review of modelling and rendering participating media with emphasis on scientific visualization In addition Peter Shirley presented a survey about future trends in rendering techniques      **The Handbook of Highway Engineering** T.F. Fwa, 2005-09-28 Modern highway engineering reflects an integrated view of a road system's entire lifecycle including any potential environmental impacts and seeks to develop a sustainable infrastructure through careful planning and active management This trend is not limited to developed nations but is recognized across the globe Edited by renowned authority      *Reference Catalogue of Current Literature*, 1906      [The Reference Catalogue of Current Literature](#), 1913      **Course Notes**, 1995      **Guide to the Study and Use of Reference Books**, 1908      **The United States Catalog**, 1924      *Monthly Catalog of United States Government Publications*, 1996-07      **Nurse Anesthesia - E-Book** Sass Elisha, John J. Nagelhout, Karen Plaus, 2013-02-08 Take your understanding to a whole new level with Pageburst digital books on VitalSource Easy to use interactive features let you make highlights share notes run instant topic searches and so much more Best of all with Pageburst you get flexible online offline and mobile access to all your digital books Written specifically for nurse anesthetists Nurse Anesthesia 5th Edition provides comprehensive coverage of both scientific principles and evidence based practice It offers a complete overview of anatomy physiology pharmacology and pathophysiology and offers practical coverage of equipment and anesthesia management This edition includes updated information on pharmacokinetics clinical monitoring drug delivery systems and complications and revises chapters on airway management and anesthesia for cardiac surgery Written by leading nurse anesthesia experts John Nagelhout and Karen Plaus this perennial bestseller prepares anesthesia students and CRNAs for today's clinical anesthesia practice Over 650 figures of

anatomy nurse anesthesia procedures and equipment depict complex concepts and information An easy to use organization covers basic principles first and builds on those with individual chapters for each surgical specialty UPDATED references make it quick and simple to find the latest and most important research in the field Over 700 tables and boxes highlight the most essential information in a quick easy to reference format Expert CRNA authors provide the current clinical information you ll use in daily practice UPDATED pharmacology information includes pharmacokinetics drug delivery systems opiate antagonists and key induction drugs Over 100 NEW photos and illustrations enhance your understanding of difficult anesthesia concepts UPDATED Airway Management and Anesthesia for Cardiac Surgery chapters are thoroughly revised NEW coverage includes robotics screening applications and non operating room best practices The Medical Device R&D Handbook Theodore R. Kucklick,2005-11-21 The Medical Device R D Handbook presents a wealth of information for the hands on design and building of medical devices Detailed information on such diverse topics as catheter building prototyping materials processes regulatory issues and much more are available in this convenient handbook for the first time The Medical Device R D Ha *Fusion Energy Update* ,1986 Handbook of Research on Novel Soft Computing Intelligent Algorithms: Theory and Practical Applications Vasant, Pandian M.,2013-08-31 This book explores emerging technologies and best practices designed to effectively address concerns inherent in properly optimizing advanced systems demonstrating applications in areas such as bio engineering space exploration industrial informatics information security and nuclear and renewable energies Provided by publisher *Book Bulletin* ,1915 **Energy Research Abstracts** ,1994 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes **Mathematical Modeling and Simulation of Systems (MODS'2020)** Serhiy Shkarlet,Anatoliy Morozov,Alexander Palagin,2020-08-29 This book contains works on mathematical and simulation modeling of processes in various domains ecology and geographic information systems IT industry and project management The development of complex multicomponent systems requires an increase in accuracy efficiency and adequacy while reducing the cost of their creation The studies presented in the book are useful to specialists who are involved in the development of real events models analog management and decision making models production models and software products Scientists can get acquainted with the latest research in various decisions proposed by leading scholars and identify promising directions for solving complex scientific and practical problems The chapters of this book contain the contributions presented on the 15th International Scientific Practical Conference MODS June 29 July 01 2020 Chernihiv Ukraine **Nuclear Science Abstracts** ,1975-11 **Third Many-core Applications Research Community (MARC) Symposium** Diana Göhringer,Michael

Hübner,Jürgen Becker,2011

**Monthly Catalogue, United States Public Documents ,1980**

**Machining**

**Simulation Using SOLIDWORKS CAM 2018** Kuang-Hua Chang,2019-02 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 2018 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 feedrate 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 Who is this book for This book should serve well for self learners A self learner should have basic physics and mathematics background preferably a bachelor or associate degree 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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web the dol starter connects the 3 phase voltage supply i e r phase y phase and b phase to the induction motor terminals there are two types of circuits in the dol starter diagram given above the control circuit and the power circuit

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web features and benefits the starter features a tesys lc1kxx contactor 1 tesys lr2k thermal relay depending on model 1 green on button 1 red stop reset button and an indicator light d o l starters le1 le2 range contactor overload relay up to 37

kw available in reversing and non reversing starters conforms to standards iec 60947 4 1

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