

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

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

G00	RAPID POSITIONING MOTION (X,Z,U,W,R) (SETTING 14, 15)	G70	IRREGULAR PATH STOCK REMOVAL CYCLE (P,Q,U,W,R,D,S,T,F) (SETTING 12, 13)
G01	LINEAR INTERPOLATION MOTION (X,Z,U,W,R,F) (SETTING 14, 15)	G71	FACE GROOVING & HIGH SPEED-PECK DRILL CYCLE (X,Z,U,W,R,K,D,F) (SETTING 22)
G02	CHAMFERING AND CORNER ROUNDOFF (X,Z,U,W,R,K,L,F) (SETTING 14, 15)	G72	O.D. I.D. PECK GROOVING CYCLE (X,Z,U,W,R,K,D,F) (SETTING 22)
G03	CW CIRCULAR INTERPOLATION MOTION (X,Z,U,W,R,K,L,F) (SETTING 14, 15)	G73	THREAD CUTTING CYCLE, MULTIPLE PASS (X,Z,U,W,R,K,A,D,F) (SETTING 16, 18, 19, 20)
G04	DWELL (P) (P=seconds) (SETTING 14, 15)	G74	FLATTING CYCLE (X,Z,U,W,R,S,R) (SETTING 14, 15)
G05	FINE SPINDLE CONTROL MOTION (X,Z,U,W,R,F) (LIVE TOOLING)	G75	CANCEL CANNED CYCLE (SETTING 16)
G06	EXACT STOP NON-MODAL	G76	DRILL CANNED CYCLE (X,Z,U,W,R,F)
G07	PROGRAMMABLE OFFSET SETTING (X,Z,U,W,R,F,G,H)	G77	SPOT DRILL / COUINTERBORE CANNED CYCLE (X,Z,U,W,R,F)
G08	MAIN SPINDLE SHIFT TO SUB-SPINDLE	G78	PECK DRILLING CANNED CYCLE (X,Z,U,W,R,K,L,Q,P,R,F) (SETTING 16, 18)
G09	MAIN SPINDLE SHIFT TO SUB-SPINDLE CANCEL	G79	TAPPING CANNED CYCLE (X,Z,U,W,R,F)
G10	CIRCULAR MOTION BY PLANE SELECTION (G02-G03) (LIVE TOOLING)	G80	BORE IN, BORE OUT CANNED CYCLE (X,Z,U,W,R,L,F)
G11	CIRCULAR MOTION IN PLANE SELECTION (G04-G05) (SETTING 14)	G81	BORE IN, STOP, RAPID OUT CANNED CYCLE (X,Z,U,W,R,L,F)
G12	CIRCULAR MOTION YZ PLANE SELECTION (G06-G07) (LIVE TOOLING)	G82	BORE IN, STOP, MANUAL RETRACT CANNED CYCLE (X,Z,U,W,R,L,F)
G13	VERIFY X/Y/Z COORDINATE POSITIONING (SETTING 2 needs to be ON)	G83	BORE IN, DWELL, MANUAL RETRACT CANNED CYCLE (X,Z,U,W,R,L,F)
G14	VERIFY METRIC COORDINATE POSITIONING (SETTING 2 needs to be OFF)	G84	O.D. I.D. TURNING CYCLE, MODAL (X,Z,U,W,R,F)
G15	MACHINE ZERO RETURN FROM REF. POINT (X,Z,U,W,R,S) (Fixed)	G85	THREADING CYCLE, MODAL (X,Z,U,W,R,F) (SETTING 16, 18)
G16	MOVE TO LOCATION THROUGH G28 REF. POINT (X,Z) (Fixed)	G86	END FACE LIVE TOOLING RIND TAP (X,Z,U,W,R,F)
G17	FEED-LIMIT, SWP FUNCTION (X,Z,U,W,R,F)	G87	CONSTANT SURFACE SPEED, CS# ON (S)
G18	THREAD CUTTING WITH MODAL (X,Z,U,W,R,F)	G88	CONSTANT SURFACE SPEED, CS# OFF (S) (SETTING 16)
G19	TOOL NOSE COMPENSATION CANCEL (G40) (X,Z,U,W,R,K) (SETTING 16)	G89	FEED PER REV/REV (F) (SETTING 16)
G20	TOOL NOSE COMPENSATION, LEFT (X,Z,U,W,R) (SETTING 16, 18, 19)	G90	FEED PER REVOLUTION (F) (SETTING 16)
G21	TOOL NOSE COMPENSATION, RIGHT (X,Z,U,W,R) (SETTING 16, 18, 19)	G91	MIRROR IMAGE CANCEL, G21
G22	SPINDLE SPEED MAXIMUM RPM LIMIT (S)	G92	MIRROR IMAGE (X,Z) (SETTING 16, 18)
G23	RETURN TO MACHING ZERO, CANCEL, OFFSET (Fixed)	G93	PROGRAMMABLE OUTPUT TO RS-232 (X,Z)
G24	WORK-OFFSET COORDINATE POSITIONING (Fixed)	G94	LIMIT BLOCK LOOKAHEAD (P,Q-S) (max. for number control blocks ahead)
G25	GLOBAL WORK COORDINATE SYSTEM SHIFT (Fixed)	G95	SERVO-BAK CORRECTION
G26	MACHINE COORDINATE POSITIONING, NON-MODAL (X,Z) (S)	G96	WORK-OFFSET COORDINATE POSITIONING #1-#5
G27	WORK-OFFSET COORDINATE POSITIONING #1 (SETTING 16)	G97	CARTESIAN TO POLAR TRANSFORMATION
G28	WORK-OFFSET COORDINATE POSITIONING #2	G98	CARTESIAN TO POLAR TRANSFORMATION CANCEL
G29	WORK-OFFSET COORDINATE POSITIONING #3	G114-G125	WORK-OFFSET COORDINATE POSITIONING #6-#24
G30	WORK-OFFSET COORDINATE POSITIONING #4	G126	BACKGROUND PECK/PISTON RETURN
G31	WORK-OFFSET COORDINATE POSITIONING #5	G127	APL, AXIS COMMAND MODE ON
G32	WORK-OFFSET COORDINATE POSITIONING #6	G128	APL, AXIS COMMAND MODE OFF
G33	EXACT STOP, MODAL (X,Z)	G129	REVERSE TAPPING CANNED CYCLE (X,Z,U,W,R,F) (SETTING 16)
G34	EXACT STOP G41 CANCEL (SETTING 16)	G130	ACCURACY CONTROL FOR HIGH SPEED MACHINING (S) (SETTING 16)
G35	MACRO-SUBROUTINE CALL	G131	SUB-SPINDLE / TAPPING CANNED CYCLE
G36	FRESHING CYCLE (F,G)	G132	LIVE TOOLING VECTOR TAPPING (X,Z)
G37	O.D. I.D. STOCK REMOVAL CYCLE (P,Q,U,W,R,K,D,S,T,F) (SETTING 12, 13)	G133	LIVE TOOLING VECTOR TAPPING REVERSE (X,Z)
G38	END FACE STOCK REMOVAL CYCLE (P,Q,U,W,R,K,D,S,T,F) (SETTING 12, 13)	G134	INDEX ON THE FLY (X,Z,U,W,T)

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

**BM King**



## **Haas G Code Reference Manual:**

*Haas VF2 CNC Machine Setup and Operation Guide* Riley Mechson, 2026-01-26 Whether you're a beginner stepping into CNC machining or an experienced operator looking to refine accuracy, efficiency, and performance, this comprehensive guide gives you everything you need to confidently set up, operate, calibrate, and maintain the Haas VF2 Vertical Machining Center. Unlike generic manuals that assume prior knowledge, this book breaks down complex CNC concepts into clear, step-by-step instructions, making it easy to follow, practical to apply, and powerful in real-world shop environments.

**What You'll Learn Inside This Book:**

- Complete Haas VF2 installation and setup from uncrating to final checks
- Electrical, pneumatic, and control panel configuration explained clearly
- Safe and efficient tool setup, workholding, and probing techniques
- Accurate machine calibration, leveling, and alignment procedures
- G code basics, Haas control navigation, and programming insights
- Proven methods for improving accuracy, surface finish, and cycle time
- Troubleshooting common VF2 issues before they become costly problems
- Preventive maintenance routines to extend machine life and reliability

**Who This Book Is For:** CNC beginners and students learning vertical machining; Machinists transitioning to the Haas VF2 CNC mill; Shop owners and technicians seeking consistent, repeatable results; Manufacturing professionals who want higher productivity and fewer errors.

**Anyone looking for a clear, independent alternative to factory manuals.**

**Why This Guide Stands Out:** Written in plain, practical language with no unnecessary theory. Focuses on real shop workflows, not just specifications. Covers both setup AND long-term operation, not just basics. Designed to save time, reduce mistakes, and protect your investment.

**By the end of this guide, you won't just understand the Haas VF2; you'll know how to run it accurately, safely, and efficiently in real production environments.** If you want a trusted hand on a resource that helps you get the most out of your Haas VF2 CNC machine, this book belongs in your digital library.

*FreeCAD 1.0 User Manual for Beginners* Thomas Berg, 2025-12-13 Master the power of professional 3D design with FreeCAD 1.0, the leading open-source CAD solution trusted by engineers, architects, and designers worldwide. Whether you're a complete beginner taking your first steps in 3D modeling or an experienced user transitioning from commercial CAD platforms, this comprehensive guide provides everything you need to create professional-quality designs.

**From fundamental sketching techniques to advanced assembly workflows, each chapter builds your skills systematically with clear, step-by-step instructions.** Inside this guide, you'll discover:

- Foundational Skills:** Navigate the FreeCAD interface confidently, master essential tools, and understand the powerful workbench system that makes FreeCAD uniquely versatile.
- Core Modeling Techniques:** Create precise parametric designs using Part Design workbench, develop complex sketches with advanced constraints, and build sophisticated 3D features including pads, pockets, revolutions, and lofts.
- Professional Workflows:** Generate complete assemblies with proper constraints, produce manufacturing-ready technical drawings with dimensions and annotations, and prepare models for 3D printing and CNC machining.
- Advanced Capabilities:** Implement surface modeling for complex organic shapes, utilize spreadsheets for parametric control, and automate repetitive tasks with

Python scripting and perform structural analysis using FEM tools Industry Applications Apply architectural modeling with the Arch workbench create CAM toolpaths for manufacturing exchange data seamlessly with other CAD platforms and optimize designs based on engineering analysis Each technique is explained in practical real world context with complete examples you can follow along You ll build actual projects including mechanical brackets assemblies and complete technical documentation packages The guide addresses common challenges with dedicated troubleshooting sections and best practices developed from professional experience FreeCAD 1 0 represents a major milestone with improved stability enhanced assembly capabilities and solutions to long standing parametric modeling challenges This guide is specifically written for version 1 0 ensuring every instruction workflow and feature description is current and accurate No prior CAD experience required If you can follow step by step instructions you can master FreeCAD Transform your design capabilities today Scroll up and click Buy Now to begin your journey to professional 3D construction and engineering mastery [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 im portant 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 em phasis on scientific visualization In addition Peter Shirley presented a survey about future rends in rendering techniques **Reference Catalogue of Current Literature** ,1906 **San Francisco Blue Book and Club Directory, the Social Reference Book** ,1925 **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 [Symposium on Vehicle Crashworthiness Including Impact Biomechanics](#) Pin Tong,1986 *Reference Book Review Index, 1970-1972* Shirley M. Smith,1975 [Energy Research Abstracts](#) ,1990 *Journal of Electricity ...* ,1918 *Author-catalogue of printed books in European languages. With a supplementary list of newspapers. 1904. 2 v* ,1904 [Book Bulletin](#) ,1915 ["Code of Massachusetts regulations, 1994"](#) ,1994 Archival snapshot of entire

looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020     **"Code of Massachusetts regulations, 2000"** ,2000 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020     "Code of Massachusetts regulations, 1987" ,1987 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020     "*Code of Massachusetts regulations, 2006*" ,2006 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020

The Top Books of the Year Haas G Code Reference Manual The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. Haas G Code Reference Manual :

Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Haas G Code Reference Manual : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic :

Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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## FAQs About Haas G Code Reference Manual Books

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web dec 29 2021 lianne mcLeod dvm is a small animal and exotic pet expert with over a decade of experience writing about veterinary care after caring for animals in her veterinarian practice lianne went on to study biology and research water

quality and chronic disease at the university of saskatchewan

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web gerbil subfamily gerbillinae any of more than 110 species of african indian and asian rodents including sand rats and jirds all of which are adapted to arid habitats one mongolian species meriones unguiculatus is a gentle and hardy animal that has become a popular pet natural history all gerbils have long hind feet and fairly large ears and eyes

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web la gerbille n est ni un animal nocturne ni un animal diurne elle dort selon des phases qui peuvent durer jusqu'à 5 heures ainsi elle alterne entre des phases d'éveil et de sommeil il s'agit d'un rongeur très sociable et grégaire qui supporte peu la solitude

**gerbil english meaning cambridge dictionary** - Jun 01 2022

web gerbil definition 1 a small animal similar to a mouse with long back legs that is often kept as a pet 2 a small learn more *the gerbils com everything about the gerbil home* - Apr 30 2022

web the gerbil is a very nice little rodent they are as interesting to watch as your t v they interact with each other by playing boxing jumping chewing and climbing you don't like rats the gerbil is a totally different animal their bushy tails make them more appealing to most people who don't like rat or mouse tail

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web İngilizce türkçe online sözlük tureng kelime ve terimleri çevir ve farklı aksanlarda sesli dinleme gerbil ani hızlanma veya fren nedeniyle tekerlek içinde dönmek ne demek

**gerbil definition meaning merriam webster** - Dec 07 2022

web jun 14 2021 gerbil noun any of numerous old world burrowing desert rodents gerbillus and related genera with long hind legs adapted for leaping

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web nov 5 2007 suna et jean luc world

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**gerbille wikipédia** - May 12 2023

web les gerbilles gerbillinae sont des mammifères qui forment une sous famille de petits rongeurs de la famille des muridés on regroupe sous le nom vernaculaire de gerbille 16 genres distincts notamment les genres gerbillus et meriones

gerbilles youtube - Feb 26 2022

web aug 17 2023 provided to youtube by digital music marketinggerbilles venerate trassgreen party 2023 venerate trassreleased on 2023 08 03composer shira ozbunauto gene

great gerbil wikipedia - Aug 15 2023

web great gerbils live in family groups and occupy one burrow per family 3 their burrows can be fairly extensive with separate chambers for nests and food storage great gerbils spend considerably more time in the burrows during winter but do not hibernate they are predominantly diurnal

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web aug 2 2023 scattering food is easier for you and better for your gerbils as it encourages their natural instinct to forage while discouraging fighting 2 equip the bowl with a water bottle get one with a nice metal spout it helps if the body is composed of clear plastic so you can see how full it is with a glance

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