

1.3 G Code List

Code	Group	Description	Modal	Page
G00	1	Rapid Move	Y	10
G01	1	Linear Feed Move	Y	10
G02	1	Clockwise Arc Feed Move	Y	11
G03	1	Counter Clockwise Arc Feed Move	Y	11
G04	0	Dwell	N	14
G09	0	Exact stop	N	14
G10	0	Fixture and Tool Offset Setting	N	15
G12	1	Clockwise Circle	Y	18
G13	1	Counter Clockwise Circle	Y	18
G15	11	Polar Coordinate Cancel	Y	18
G16	11	Polar Coordinate	Y	18
G17	2	XY Plane Select	Y	20
G18	2	ZX Plane Select	Y	20
G19	2	YZ Plane Select	Y	20
G20	6	Inch	Y	20
G21	6	Millimeter	Y	20
G28	0	Zero Return	N	21
G30	0	2 nd , 3 rd , 4 th Zero Return	N	22
G31	1	Probe function	N	22
G32	1	Threading*	N	23
G40	7	Cutter Compensation Cancel	Y	23
G41	7	Cutter Compensation Left	Y	25
G42	7	Cutter Compensation Right	Y	25
G43	8	Tool Length Offset + Enable	Y	25
G44	8	Tool Length Offset - Enable	Y	25
G49	8	Tool Length Offset Cancel	Y	25
G50	9	Cancel Scaling	Y	25
G51	9	Scale Axes	Y	25
G52	0	Local Coordinate System Shift	Y	26

G Code Reference Manual

Peter Smid

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PTIPS Database Applications Users Guide and Reference Manual ,1996 *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 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 *Lightburn User Manual for Beginners* Mark Patterson,2025-11-01 Master LightBurn Software and Transform Your Laser Cutting Skills from Beginner to Professional Whether you've just purchased your first laser cutter or you're looking to maximize your existing setup this comprehensive guide provides everything you need to master LightBurn software and achieve professional quality results What You'll Learn Complete installation and setup procedures for any laser system Essential design tools and techniques for creating stunning projects Material specific settings for wood acrylic leather fabric and more Advanced cutting and engraving operations that save time and materials Professional workflow strategies used by commercial laser shops Troubleshooting solutions for common problems and technical issues

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