

# G-Code Explained

G-Code is the essential programming language that directs CNC machines and 3D printers. It translates digital designs into precise physical movements and operations.

## Core Functions & Commands



### Positioning

Moves tool to specific X, Y, Z coordinates.  
G0, G1



### Speed Control

Sets spindle speed & movement velocity.  
S, F



### Tool Selection

Selects a specific tool from the carousel.  
T, M06



### Spindle Control

Starts and stops the spindle rotation.  
M03, M04, M05



### Feed Rates

Sets rate of motion for cutting operations.  
F

## Key Benefits



Automation



Versatility



Precision



Standardization

## Historical Background

- **Late 1950s:** Developed at MIT's Servomechanics Lab.
- **1960s:** Standardized by the Electronic Industries Alliance.

# G Code Guide

**S Baum**



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