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G-ZERO LATHE Version 4.1

CAM Software www.g-zero.com

Quick Reference Card

- 1) Point	File Management	
r 2) Radius	📮 File Open 🛛 Open an existi	ing source file. OR start a new source file
/ 3) Line	File Save Current source file	
 4) Comp	File Save As Create new source file with same data	
늘 5) Uncomp	File Backup Backup current file (to floppy disk)	
💒 6) Tool	File Export Macro Create macro file (.u) with selected source line codes	
≓ 7) Bar op	File Print Print ToolList Print current source lie directly to default printer	
📑 8) Face	Edit Purge Permanently r	emove deleted lines & Resequence source lines
 9) Rough		entove deleted intes a resequence source intes
10) Groove	Function Keys	Shortouts
Thread	E1 Holp	Ctrl+M mm O in (□ Metric)
12) Drill	FI neip	Ctrl+M in O mm (☑ Metric)
💻 13) Bore	F2 Rediaw Pail (Viewport)	TT Ctrl+T Triangle (Mainwin Calculator)
= 14) Stock	F3 Rediaw Tool (Viewport)	🗾 Ctrl+F Edit Find
15) Repeat	E5 Dodraw SideView (Viewport)	Ltrl+S Edit Find Next
16) Rotate	E6 Dodraw Solid (Viewport)	
17) Mat'l	E7 Show/Hido Viewport	Input Math Calculation
19) Redraw	E9 Skotch	1st priority: R Examples:
4. 20) Post		2nd priority: fl \pounds 5+6/2 = 5+3 = 8
21) Print	E11 Mouse Pough	4th priority: 7 I Note: Different in version 3.x
22) Alter	E12 Dost Drocess	Degree to Decimal: $35^{\circ}10'30'' \cap$ type 35 1030'
23) Insert		
24) Delete	Editing	
👄 25) Move	Click value - Type O	Replaces with new value typed
26) UnEdit	Click value - Right click value O	Changes sign (+ or -) of value
27) Basic	Alt+Click RADIUS type2 0	Converts to POINT
28) Boltcrc	Alt+Click RADIUS type0 0	Converts to RADIUS type1
29) Deadtap	Alt+Click LINE unknown angle O	Converts to LINE known angle
	Viewport	
1 Partoff	Single step (space bar)	Move viewport
32) Scale	Ctrl+I Zoom In (Viewport)	Dock viewport
33) Tail	Ctrl+O Zoom Out (Viewport)	(Portrait or Landscape: depend: on shape of viewport)
1 34) Pipe	Ctrl+P Zoom Previous (Viewp	ort) 💼 💼 Copy to Clipboard
as 35) Letter	Ctrl+R Refresh (Viewport)	💼 💼 Make graphical thumbnail
36) Type	(works with G-ZERO WinLauncher incremental search)	
1 37) Mill	Show Toolbar: Right click on viewport System Show Toolbar	
39) EGroove	Snow Litle: Right Click on Viewpo Full Screen: Right click on viewpo	ori System Snow Litte <i>(Undocked)</i> ort System Full Screen <i>(Undocked</i>)
40) Takeover	Sizeable Screen: Right click on viewport System Sizeable Screen (undocked)	
10) Takeover	Resize viewport: Drag edge(s) of viewport	

CAD Reader - G-ZERO CAD Import Interface F9



12. Close CAD Reader

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7. 🚅 6)Tool - Select Tool



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Quick Reference Card - Tips

Groove



Example 1:

Make a groove (rough and finish) .75" deep, 1" wide, with left edge in 10° angle and right edge against a shoulder. GROOVE

...dp-.75 w1 skip2 r.05 ir.1 a10...

Example 2:

Make a dovetail groove (rough only) .75" deep, 1" wide, with left and right edges in 10° angle. GROOVE ...dp-.75 w1 skip10 r.05 ir.1 a-10...

SuperRough

Multiple Undercut Roughing

One SuperRough comment line and one ROUGH command to cut up to 99 subpocketed areas.

SUPERG71 for horizontal roughing SUPERG72 for vertical roughing

Options:

DEPTH - to change depth of cut in sub-pockets FACE - to rapid away from the part in Z before X

Example1: SUPERG71 DEPTH.05 ROUGH...

Example 2: SUPERG72 DEPTH.055 FACE ROUGH...



Rest Area Roughing

Stack **two tools** and **one comment** line before the ROUGH command to rough the "unreachable" areas





Pipe Threading - Reading your blueprint

Major and minor OD as the thread ends: PIPE ret0 tpf.**75** x2.2 z-3 THREAD maj2.2 tpi8 min2.1 S300 z.2 zfin-3 num5 a60



Major and minor OD slightly past where the thread ends: PIPE ret0 tpf.75 x2.2 z-3 THREAD maj2.2 tpi8 min2.1 S300 z.2 zfin-3.2 num5 a60



Major and minor OD at start point:

PIPE ret0 tpf.75 x**1.7** z**0** THREAD maj**1.7** tpi8 min**1.6** S300 z.2 zfin-3 num5 a60



34) PIPE

- ret: 0=straight retraction, 1=chamfer (45°)
- tpf: taper inches per foot (angle of a thread)
- X: pitch diameter
- Z: gauge length
- clr: clearance as tool pulls away (how far away in x)
- leads: number of leads for a multi-lead thread

11) THREAD

- maj: major diameter of the thread
 - tpi: threads per inch
 - min: minor diameter of the thread
 - S: rpm spindle speed
 - z: z start point
 - zfin: z thread end point
- num: number of passes to cut the thread
- a: thread angle



Major and minor OD inside the thread: Incremental values:PIPEret0 tpf.75 x1.85 z-1.5THREAD maj.05 tpi8 min-.05 S300 z.2 zfin-3 num5 a60

