

APPENDIX A

INDEX

G CODES

G CODE	FUNCTION	PAGE
0	Rapid traverse	5-4
1	Linear interpolation (feed)	5-4
2	Circular interpolation CW	5-5
3	Circular interpolation CCW	5-5
4	Dwell	5-11
12	Helical interpolation CW	5-8
13	Helical interpolation CCW	5-8
17	XY plane selection	5-3
18	ZY plane selection	5-3
19	YZ plane selection	5-3
22	Circular interpolation, fillet input CW	5-10
23	Circular interpolation, fillet input CCW	5-10
30	Mirror image off	4-18
31	Mirror image X on	4-18
32	Mirror image Y on compensation	4-18
40	Cutter diameter off	7-3
41	Cutter compensation left	7-3
42	Cutter compensation right	7-3
44	Cutter compensation, normal feedrate	8-3
45	Cutter compensation, modify feedrate	8-3
70	Input/inch	5-13
71	Input/metric	5-13
72	Transformation off	4-13
73	Transformation/rotation, scaling	4-13
74	Multi quadrant circle input off	5-6
75	Multi quadrant circle input on	5-6
77	Zig zag mill cycle	
78	Pocket mill cycle	
79	Bore mill cycle	
80	Drill cycle off	6-2
81	Z cycle, drill (feed in, rapid out)	6-3
82	Z cycle, spot face (feed in, rapid out)	6-3

INDEX

83	Z cycle, deep hole (peck, rapid out)	6-8
84	Z cycle, tap (feed in, feed out)	6-4
85	Z cycle, bore (feed in, feed out)	6-5
86	Z cycle, bore (feed in, stop-wait, rapid out)	6-5
87	Z cycle, chip break (peck, rapid out)	6-8
89	Z cycle, bore (feed in, dwell, feed out)	6-6
90	Absolute programming	4-10
91	Incremental programming	4-10
92	Preset part programming zero point	5-11
96	Restore base part program coordinate system	4-17
97	Set work coordinate system	4-17
99	Deceleration override	8-2
170	Outside frame mill	6-16
171	Inside frame mill	6-16
172	Pocket frame mill	6-17
173	Outside face mill	6-18
174	Inside face mill	6-18
175	Outside circle mill	6-20
176	Inside circle mill	6-20
179	Slot mill	6-22
181-189	Z cycle (same as G81-G89) multi-hole	6-11
191-199	Z cycle (same as G81-G89) frame of holes	6-13

MISCELLANEOUS FUNCTIONS

M CODE	FUNCTION	PAGE
M0	PROGRAM STOP (NON-MODAL)	9-3
M1	OPTIONAL PROGRAM STOP (NON-MODAL)	9-4
M2	END OF PROGRAM (NON-MODAL)	9-4
M6	TOOL CHANGE (NON-MODAL)	9-4
M7	COOLANT/MIST (MODAL)	9-5
M8	COOLANT/FLOOD (MODAL)	9-5
M9	COOLANT OFF (MODAL)	9-5
M20	PROGRAM STOP, GOTO CLEAR PT (NON-MODAL)	9-5
M21	OPTIONAL PROGRAM STOP, GOTO CLEAR PT (NON-MODAL)	9-5
M22	END OF PROGRAM, GOTO CLEAR PT (NON-MODAL)	9-5
M25	QUILL HOME (NON-MODAL)	9-6
M26	TOOL CHANGE, GOTO CLEAR PT (NON-MODAL)	9-5
M51	ADVANCE INDEX TABLE (NON-MODAL)	9-6

M30