	sodo susta		Tab	le 2 (a) G code list
	code syste	i -	Group	Function
Α	В	C		D '' ' (D ' I I I
G00	G00	G00	-	Positioning (Rapid traverse)
G01	G01	G01		Linear interpolation (Cutting feed)
G02	G02	G02		Circular interpolation CW or helical interpolation CW
G03	G03	G03		Circular interpolation CCW or helical interpolation CCW
G02.2	G02.2	G02.2	01	Involute interpolation CW
G02.3	G02.3	G02.3		Exponential interpolation CW
G02.4	G02.4	G02.4		3-dimensional coordinate system conversion CW
G03.2	G03.2	G03.2		Involute interpolation CCW
G03.3	G03.3	G03.3		Exponential interpolation CCW
G03.4	G03.4	G03.4		3-dimensional coordinate system conversion CCW
G04	G04	G04		Dwell
G04.1	G04.1	G04.1		G code preventing buffering
G05	G05	G05	00	Al contour control (command compatible with high precision contour control), High-speed cycle machining, High-speed binary program operation
G05.1	G05.1	G05.1		Al contour control / Nano smoothing / Smooth interpolation
G05.4	G05.4	G05.4		HRV3, 4 on/off
G06.2	G06.2	G06.2	01	NURBS interpolation
G07	G07	G07		Hypothetical axis interpolation
G07.1	G07.1	G07.1		
(G107)	(G107)	(G107)		Cylindrical interpolation
G08	G08	G08		Al contour control (advanced preview control compatible command)
G09	G09	G09	00	Exact stop
G10	G10	G10		Programmable data input
G10.6	G10.6	G10.6		Tool retract and recover
G10.9	G10.9	G10.9		Programmable switching of diameter/radius specification
G11	G11	G11		Programmable data input mode cancel
G12.1	G12.1	G12.1		Polar coordinate interpolation made
(G112)	(G112)	(G112)	21	Polar coordinate interpolation mode
G13.1	G13.1	G13.1	21	Polar coordinate interpolation cancel mode
(G113)	(G113)	(G113)		r olar coordinate interpolation cancer mode
G17	G17	G17	16	XpYp plane selection
G17.1	G17.1	G17.1		Plane conversion function
G18	G18	G18	10	ZpXp plane selection
G19	G19	G19		YpZp plane selection
G20	G20	G70	06	Input in inch
G21	G21	G71	00	Input in mm
G22	G22	G22	09	Stored stroke check function on
G23	G23	G23	Uθ	Stored stroke check function off
G25	G25	G25	08	Spindle speed fluctuation detection off
G26	G26	G26	00	Spindle speed fluctuation detection on
G27	G27	G27		Reference position return check
G28	G28	G28		Return to reference position
G28.2	G28.2	G28.2	00	In-position check disable reference position return
G29	G29	G29		Movement from reference position
G30	G30	G30		2nd, 3rd and 4th reference position return
G30.1	G30.1	G30.1		Floating reference point return
G30.2	G30.2	G30.2		In-position check disable 2nd, 3rd, or 4th reference position return
G31	G31	G31		Skip function
G31.8	G31.8	G31.8		EGB-axis skip

	codo evete:	m	iab	le 2 (a) G code list
Α	code syster	m C	Group	Function
100 VIII	G33	200		Throading
G32 G34	G33 G34	G33 G34	-	Threading Variable lead threading
	G34 G35	G34 G35	-	Variable lead threading Circular threading CW
G35	GSS	G35	-	
G36	G36	G36		Circular threading CCW (When bit 3 (G36) of parameter No. 3405 is set to 1) or Automatic tool offset (X axis) (When bit 3
G36	G30	G30		(G36) of parameter No. 3405 is set to 0)
			-	Automatic tool offset (Z axis) (When bit 3 (G36) of parameter
G37	G37	G37	01	No. 3405 is set to 0)
200	~			Automatic tool offset (X axis) (When bit 3 (G36) of parameter
G37.1	G37.1	G37.1		No. 3405 is set to 1)
007.0	007.0	007.0		Automatic tool offset (Z axis) (When bit 3 (G36) of parameter
G37.2	G37.2	G37.2		No. 3405 is set to 1)
G38	G38	G38		Tool radius/tool nose radius compensation: with vector held
000	000	000		Tool radius/tool nose radius compensation: corner rounding
G39	G39	G39		interpolation
G40	G40	G40		Tool radius/tool nose radius compensation : cancel
G41	G41	G41		Tool radius/tool nose radius compensation : left
G42	G42	G42		Tool radius/tool nose radius compensation : right
G41.2	G41.2	G41.2		3-dimensional cutter compensation : left (type 1)
G41.3	G41.3	G41.3		3-dimensional cutter compensation :
G41.3	G41.3	G41.3		(leading edge offset)
G41.4	G41.4	G41.4		3-dimensional cutter compensation : left (type 1)
041.4	G41.4	041.4		(FS16i-compatible command)
G41.5	G41.5	G41.5	07	3-dimensional cutter compensation : left (type 1)
			-	(FS16i-compatible command)
G41.6	G41.6	G41.6	-	3-dimensional cutter compensation : left (type 2)
G42.2	G42.2	G42.2	-	3-dimensional cutter compensation : right (type 1)
G42.4	G42.4	G42.4		3-dimensional cutter compensation : right (type 1)
				(FS16i-compatible command)
G42.5	G42.5	G42.5		3-dimensional cutter compensation : right (type 1)
C40.6	G42.6	C40.6	-	(FS16i-compatible command)
G42.6 G40.1	G42.6 G40.1	G42.6 G40.1	1	3-dimensional cutter compensation : right (type 2)
			19	Normal direction control cancel mode
G41.1	G41.1	G41.1	19	Normal direction control left on
G42 .1	G42 .1	G42 .1		Normal direction control right on  Tool length compensation +
G43	G43	G43		(Bit 3 (TCT) of parameter No. 5040 must be "1".)
			-	Tool length compensation -
G44	G44	G44		(Bit 3 (TCT) of parameter No. 5040 must be "1".)
			-	Tool center point control (type 1)
G43.4	G43.4	G43.4		(Bit 3 (TCT) of parameter No. 5040 must be "1".)
			-	Tool center point control (type 2)
G43.5	G43.5	G43.5	23	(Bit 3 (TCT) of parameter No. 5040 must be "1".)
G43.7	G43.7	G43.7		Tool offset
(G44.7)	(G44.7)	(G44.7)		(Bit 3 (TCT) of parameter No. 5040 must be "1".)
			1	Tool offset conversion
G44.1	G44.1	G44.1		(Bit 3 (TCT) of parameter No. 5040 must be "1".)
G49	G49	G49		Tool length compensation cancel
(G49.1)	(G49.1)	(G49.1)		(Bit 3 (TCT) of parameter No. 5040 must be "1".)
G50	G92	G92	- 00	Coordinate system setting or max spindle speed clamp
G50.3	G92.1	G92.1	00	Workpiece coordinate system preset

G	code syste	m		le 2 (a) G code list
A	В	С	Group	Function
-	G50	G50	18	Scaling cancel
-	G51	G51		Scaling
G50.1	G50.1	G50.1	-00	Programmable mirror image cancel
G51.1	G51.1	G51.1	22	Programmable mirror image
G50.2	G50.2	G50.2		Delenen tempira a consul
(G250)	(G250)	(G250)	20	Polygon turning cancel
G51.2	G51.2	G51.2	20	Polygon turning
(G251)	(G251)	(G251)		
G50.4	G50.4	G50.4		Cancel synchronous control
G50.5	G50.5	G50.5		Cancel composite control
G50.6	G50.6	G50.6		Cancel superimposed control
G51.4	G51.4	G51.4		Start synchronous control
G51.5	G51.5	G51.5	00	Start composite control
G51.6	G51.6	G51.6	00	Start superimposed control
G52	G52	G52		Local coordinate system setting
G53	G53	G53		Machine coordinate system setting
G53.1	G53.1	G53.1		Tool axis direction control
G53.6	G53.6	G53.6		Tool center point retention type tool axis direction control
G54	G54	G54		Workpiece coordinate system 1 selection
(G54.1)	(G54.1)	(G54.1)		Workpiece coordinate system 1 selection
G55	G55	G55		Workpiece coordinate system 2 selection
G56	G56	G56	14	Workpiece coordinate system 3 selection
G57	G57	G57		Workpiece coordinate system 4 selection
G58	G58	G58		Workpiece coordinate system 5 selection
G59	G59	G59		Workpiece coordinate system 6 selection
G54.4	G54.4	G54.4	26	Workpiece setting error compensation
G60	G60	G60	00	Single direction positioning
G61	G61	G61	15	Exact stop mode
G62	G62	G62		Automatic corner override mode
G63	G63	G63		Tapping mode
G64	G64	G64		Cutting mode
G65	G65	G65	00	Macro call
G66	G66	G66		Macro modal call A
G66.1	G66.1	G66.1	12	Macro modal call B
G67	G67	G67		Macro modal call A/B cancel
G68	G68	G68	04	Mirror image on for double turret or balance cutting mode
G68.1	G68.1	G68.1	17	Coordinate system rotation start or 3-dimensional coordinate system conversion mode on
G68.2	G68.2	G68.2		Tilted working plane indexing command
G68.3	G68.3	G68.3		Tilted working plane indexing command by tool axis direction
G68.4	G68.4	G68.4		Tilted working plane indexing command (incremental multi-command)
G69	G69	G69	04	Mirror image off for double turret or balance cutting mode cancel
G69.1	G69.1	G69.1	17	Coordinate system rotation cancel or 3-dimensional coordinate system conversion mode off

Table 2 (a) G code list				
A	B Code Syste	C	Group	Function
				Finishing avelo
G70	G70	G72	00	Finishing cycle
G71	G71	G73		Stock removal in turning
G72	G72	G74		Stock removal in facing
G73	G73	G75		Pattern repeating cycle
G74	G74	G76		End face peck drilling cycle
G75	G75	G77		Outer diameter/internal diameter drilling cycle
G76	G76	G78		Multiple-thread cutting cycle
G71	G71	G72		Traverse grinding cycle
G72	G72	G73	01	Traverse direct sizing/grinding cycle
G73	G73	G74		Oscillation grinding cycle
G74	G74	G75		Oscillation direct sizing/grinding cycle
<b>→</b> G80	G80	<b>▼</b> G80	10	Canned cycle cancel for drilling
000	000	000		Electronic gear box : synchronization cancellation
G81.1	G81.1	G81.1	00	Chopping function/High precision oscillation function
G80.4	G80.4	G80.4	28	Electronic gear box: synchronization cancellation
G81.4	G81.4	G81.4	20	Electronic gear box: synchronization start
G80.5	G80.5	G80.5	27	Electronic gear box 2 pair: synchronization cancellation
G81.5	G81.5	G81.5	21	Electronic gear box 2 pair: synchronization start
C01	C01	C01		Spot drilling (FS15-T format)
G81	G81	G81		Electronic gear box : synchronization start
G82	G82	G82		Counter boring (FS15-T format)
G83	G83	G83		Cycle for face drilling
G83.1	G83.1	G83.1	1	High-speed peck drilling cycle (FS15-T format)
G83.5	G83.5	G83.5	1	High-speed peck drilling cycle
G83.6	G83.6	G83.6	1	Peck drilling cycle
G84	G84	G84	10	Cycle for face tapping
G84.2	G84.2	G84.2	1	Rigid tapping cycle (FS15-T format)
G85	G85	G85	1	Cycle for face boring
G87	G87	G87	1	Cycle for side drilling
G87.5	G87.5	G87.5	1	High-speed peck drilling cycle
G87.6	G87.6	G87.6	1	Peck drilling cycle
G88	G88	G88		Cycle for side tapping
G89	G89	G89		Cycle for side boring
G90	G77	G20		Outer diameter/internal diameter cutting cycle
G92	G78	G21	01	Threading cycle
G94	G79	G24	, ,	End face turning cycle
G91.1	G91.1	G91.1	00	Maximum specified incremental amount check
G96	G91.1	G96		Constant surface speed control
G96 G97	G96 G97	G96 G97	02	Constant surface speed control cancel
G96.1	G96.1	G96.1		•
				Spindle indexing execution (waiting for completion)
G96.2	G96.2	G96.2	00	Spindle indexing execution (not waiting for completion)
G96.3	G96.3	G96.3		Spindle indexing completion check
G96.4	G96.4	G96.4		SV speed control mode ON
G93	G93	G93	O.E.	Inverse time feed
G98	G94	G94	05	Feed per minute
G99	G95	G95		Feed per revolution
-	G90	G90	03	Absolute programming
*	G91	G91		Incremental programming
-	G98	G98	11	Canned cycle : return to initial level
-	G99	G99		Canned cycle : return to R point level