

# Fanuc 10/11/12/15M Option Parameters

[CLICK HERE TO GO BACK TO MAIN PAGE](#)

PARAMETER	NOTE	BIT	76543210	DESCRIPTION
9100		0	00000001	EXPANSION OF SIMULTANEOUS AXIS
		1	00000010	2ND REFERENCE POINT (G30)
		2	00000100	HELICAL (G02,G03)
		3	00001000	SKIP G31
		4	00010000	MULTI SKIP G31.1 G31.3
		5	00100000	HIGH SPEED SKIP
		6	01000000	3RD, 4TH REFERENCE POINT (G30)
		7	10000000	HELICAL INTERPOLATION B

9101		0	00000001	SINGLE DIRECTION POSITIONING
		1	00000010	IMAGINARY COORDINATE OFFSET
		2	00000100	THREADING
		3	00001000	VARIABLE LEAD THREAD
		4	00010000	RADIUS CUTTING
		5	00100000	THREAD RETRACT
		6	01000000	FEED TIME TIMER
		7	10000000	F-1 DIGIT

9102		0	00000001	G10
		1	00000010	INCH/METRIC
		2	00000100	CANNED CYCLES
		3	00001000	TOOL POSITION OFFSET
		4	00010000	RADIUS COMPENSATION B
		5	00100000	RADIUS COMPENSATION C
		6	01000000	3 AXIS NOSE RADIUS
		7	10000000	

9103	0	00000001	CORNER OVERRIDE
	1	00000010	POLAR COORDINATE
	2	00000100	AUTO CORNER CHAMF/RADIUS
	3	00001000	PROGRAMMABLE MIRROR IMAGE
	4	00010000	G51 SCALING
	5	00100000	COORDINATE SYSTEM ROTATION
	6	01000000	EACH AXIS SCALING
	7	10000000	ORIENT PCODER

9104	0	00000001	G-CODE SYSTEM C
	1	00000010	DOUBLE TURRET MIRROR IMAGE
	2	00000100	G71
	3	00001000	DIRECT INPUT FROM DRAWING
	4	00010000	
	5	00100000	SPINDLE SPEED FLUCTUATION DETECTION
	6	01000000	IPR JOG

	7	10000000	ZR ERR THREAD
--	---	----------	---------------

9105	0	00000001	HANDLE INTERUPT
	1	00000010	MANUAL INTERUPT
	2	00000100	MPG 1
	3	00001000	MPG 2 AND 3
	4	00010000	ANGLE CUTTING
	5	00100000	MANUAL NUMBER SETTING
	6	01000000	MENU SWITCHES
	7	10000000	SOFT KEYS

9106	0	00000001	TAPE COMPARE
	1	00000010	PROGRAM RESTART
	2	00000100	BLOCK RESTART
	3	00001000	BLOCK SKIP 1-9
	4	00010000	PLAYBACK
	5	00100000	CYCLE RUNNING TIME
	6	01000000	FS3, FS6 INTERFACE
	7	10000000	N.C / P C WINDOW A

9107	0	00000001	SPINDLE ANALOG/BINARY OUTPUT
	1	00000010	G96 CONSTANT SURFACE SPEED
	2	00000100	SPINDLE ORIENTATION
	3	00001000	SPINDLE SPEED OUTPUT
	4	00010000	T-CODE 8 DIGIT
	5	00100000	TOOL LIFE
	6	01000000	2ND AUX FUNCTION
	7	10000000	AXIS MOVING SIGNAL OUTPUT

9108	0	00000001	EXTERNAL INPUT/OUTPUT
	1	00000010	EXTERNAL WORK #SEARCH
	2	00000100	AUTO TOOL LENGTH OFFSET
	3	00001000	TOOL LENGTH MEASUREMENT
	4	00010000	HIGH SPEED TOOL LENGTH MEASUREMENT
	5	00100000	RS232 C A
	6	01000000	RS232 C B
	7	10000000	RS232 C C

9109	0	00000001	EXTERNAL I/O DEVICE CONTROL
	1	00000010	EXTERNAL POSITION READ OUT
	2	00000100	999 TOOL OFFSETS
	3	00001000	OFFSET MEMORY B
	4	00010000	OFFSET MEMORY C
	5	00100000	99 TOOL OFFSETS
	6	01000000	200 TOOL OFFSETS
	7	10000000	499 TOOL OFFSETS

9110	0	00000001	100 PROGRAMS
------	---	----------	--------------

	1	000000 10	200 PROGRAMS
	2	000001 00	400 PROGRAMS
	3	000010 00	PPS 1 32FT
	4	000100 00	PPS262/200FT
	5	001000 00	GRAPHIC B
	6	010000 00	SEMI-CONVERSATIONAL GRAPHICS
	7	100000 00	CONVERSATIONAL GRAPHICS

9111		0	000000 01	MACRO B
		1	000000 10	MACRO INTERRUPT
		2	000001 00	PRG ENC PASSWORD
		3	000010 00	TAPE EDITING EXPANSION
		4	000100 00	COM VARIABLES 200
		5	001000 00	COM VARIABLES 300
		6	010000 00	COM VARIABLES 600
		7	100000 00	

9112		0	000000 01	2ND OVERRIDE
		1	000000 10	ACC/DEC BFR IPL
		2	000001 00	EXTERNAL DECELERATION
		3	000010 00	FEED STOP
		4	000100 00	.1u DETECTOR
		5	001000 00	WORK ZERO MEASURE
		6	010000 00	EXPAND CUSTOM MACRO
		7	100000 00	CALL KEY

9113	0	00000001	STORED STROKE 2,3
	1	00000010	STORED STROKE 1
	2	00000100	
	3	00001000	
	4	00010000	PITCH ERROR COMPENSATION
	5	00100000	ANGLE COMPENSATION
	6	01000000	SQUARE COMPENSATION
	7	10000000	

9114	0	00000001	PARALLEL AXES CONTROL
	1	00000010	DUAL DRV AXS CTRL
	2	00000100	HIGHBRED CONTROL
	3	00001000	DUAL FEEDBACK AXIS MONITOR
	4	00010000	BALANCE CUT
	5	00100000	INTERFERENCE CHECK
	6	01000000	OSI ETHERNET FUNCTION
	7	10000000	INDEX TABLE

9115	0	00000001	
	1	00000010	
	2	00000100	
	3	00001000	

	4	00010000	PASCAL PR GRM
	5	00100000	
	6	01000000	
	7	10000000	

9116	0	00000001	PART COUNTER
	1	00000010	KEY IN BY PMC
	2	00000100	MULT BIFFER
	3	00001000	HIGH SPD MACHINING
	4	00010000	TLM TOOL GROUP
	5	00100000	FANUC TP CNTR.D
	6	01000000	ABSLT POS DETC
	7	10000000	P.C.B. DRILL

9117	0	00000001	NC/PC WINDOW B
	1	00000010	SYNC/IND AX CTRL
	2	00000100	REW FOR 232C TR
	3	00001000	GRAPHIC DISPLAY A
	4	00010000	HIGH SPD REMOTE BUFFER
	5	00100000	TURRET CONTROL
	6	01000000	CYLINDRICAL INTERPOLATION
	7	10000000	POLAR INTERPOLATION

9118	0	00000001	CIRCLR THRED B
	1	00000010	ARBITRARY CMR
	2	00000100	WORK OFS 48 SET
	3	00001000	EXPONENTIAL INTERPOLATION
	4	00010000	FLOPPY DIRECTORY
	5	00100000	TRANSFER MACHINE
	6	01000000	A-AXIS SPINDLE SWITCH
	7	10000000	C NORMAL CONTROL

9119	0	00000001	GAS/LASER
	1	00000010	RETRACE
	2	00000100	AUTO EXACT STOP CHECK
	3	00001000	TOOL POSITION OFFSET B
	4	00010000	GRADUAL CURVE CT
	5	00100000	TORCH ROTATION
	6	01000000	ACC/DEC OUTPUT
	7	10000000	

9120	0	00000001	40M PPS/E
	1	00000010	80M PPS/E
	2	00000100	160M PPS/E
	3	00001000	320M PPS/E
	4	00010000	480M PPS/E
	5	00100000	640M PPS/E
	6	01000000	

	7	10000000	GEAR HOB
--	---	----------	----------

9121	0	00000001	F3000 C FOR MAT
	1	00000010	F200A B FORMAT
	2	00000100	HIGH SPEED DIRECT B
	3	00001000	MULTI JOG RETRACT
	4	00010000	FEEDRATE 10 TIMES
	5	00100000	CUT TIME C ON CHANGE
	6	01000000	SPINDLE / SUR SWITCH
	7	10000000	JIG GRINDER

9122	0	00000001	EXPAND AXIS NAME
	1	00000010	EXPAND TOOL LIFE MANAGEMENT
	2	00000100	MAP INTERFACE
	3	00001000	
	4	00010000	RIGID TAPPING
	5	00100000	GRAPHIC COPY
	6	01000000	3RD COORDINATE PERMUTATION
	7	10000000	APPLICATION SOFTWARE

9123	0	00000001	OVERRIDE PLAYBACK
	1	00000010	CHECK TAILSTOCK BARRIER
	2	00000100	TOOL RETRACT RETURN
	3	00001000	MACHINE TIME STP
	4	00010000	MEANDER COMPENSATION
	5	00100000	
	6	01000000	POLYGON CUTTING
	7	10000000	FLOATING REFERENCE POINT

9124	0	00000001	AXIS PERMUTATION
	1	00000010	AUTO CORNER DECELERATION
	2	00000100	MPG FEED DIR
	3	00001000	DELETE SCAN
	4	00010000	ZERO OFFSET
	5	00100000	TRAVERSE INHIBIT
	6	01000000	AUTO SPEED LIMIT CIRC
	7	10000000	IN CUT SIGNAL OUTPUT

9125	0	00000001	INTERFERENCE CHECK
	1	00000010	SPEC JOG OVERRIDE
	2	00000100	TOOL LENGTH OFFSET VECTOR
	3	00001000	PARAMETER CHANGE BY PROGRAM
	4	00010000	GM FLOPPY FORMAT
	5	00100000	LNACCEL/DECEL FOR CONT
	6	01000000	
	7	10000000	OFS MSUR INPUT B

# Fanuc 16/18/21-M Option Parameters

[CLICK HERE TO GO BACK TO MAINPAGE](#)

PARAMETER	NOTE	BIT	76543210	DESCRIPTION
9920		0	00000001	G73-G76 CANNED CYCLES
		1	00000010	G10 PARAMETER, OFFSET OVERRIDE
		2	00000100	MECHANICAL HANDLE FEED
		3	00001000	ONE MANUAL PULSE GENERATOR CONTROL
		4	00010000	ANALOG SPINDLE CONTROL
		5	00100000	INCH / METRIC CONVERSION
		6	01000000	SPECIAL G-CODE
		7	10000000	

9921		0	00000001	TAPE MEM ADDITION 640M
		1	00000010	TAPE MEM ADDITION 320M
		2	00000100	TAPE MEM ADDITION 160M
		3	00001000	TAPE MEM ADDITION 80M
		4	00010000	TAPE MEM ADDITION 40M
		5	00100000	CHAMFERING, CORNER RADIUS
		6	01000000	READER/PUNCHER INTERFACE CONTROL
		7	10000000	ATC CYCLE

9922		0	00000001	2/3 MANUAL PULSE GENERATOR CONTROL
		1	00000010	
		2	00000100	CONSTANT SURFACE SPEED CONTROL
		3	00001000	SPINDLE SPEED FLUCTUATION DETECTION
		4	00010000	PATTERN DATA INPUT
		5	00100000	STORED PITCH ERROR COMPENSATION
		6	01000000	MACRO A
		7	10000000	PLAYBACK

9923		0	00000001	
		1	00000010	X AXIS MIRROR IMAGE
		2	00000100	ACTUAL SPINDLE SPEED OUTPUT
		3	00001000	TOOL PRESETTER OPTION/DIRECT INPUT OF OFFSET B
		4	00010000	
		5	00100000	NUMBER OF PROGRAMS 125
		6	01000000	EXTERNAL KEY INPUT
		7	10000000	BACK GROUND EDIT

9924	0	00000001	JAPANESE
	1	00000010	GERMAN/FRENCH MESSAGE
	2	00000100	
	3	00001000	
	4	00010000	
	5	00100000	
	6	01000000	
	7	10000000	

9925	0	00000001	
	1	00000010	
	2	00000100	
	3	00001000	
	4	00010000	
	5	00100000	
	6	01000000	
	7	10000000	

9926	0	00000001	
	1	00000010	

	2	00000100	
	3	00001000	ADDITIONAL OFFSET MEMORY 64
	4	00010000	99 TOOL OFFSETS
	5	00100000	TOOL LENGTH MEASUREMENT (INPUT C KEY)
	6	01000000	AUTOMATIC TOOL LENGTH MEASUREMENT
	7	10000000	EXTERNAL TOOL OFFSET

9927	0	00000001	QUASI-PMC
	1	00000010	2ND AUXILIARY FUNCTION B-DIGIT BINAR
	2	00000100	
	3	00001000	ADDITIONAL AXIS CONTROL
	4	00010000	RUN HOUR AND PARTS COUNTER
	5	00100000	
	6	01000000	CUTTER COMP C (TOOL NOSE RADIUS COMP)
	7	10000000	CUTTER COMPENSATION B

9928	0	00000001	HANDLE INTERRUPTION
	1	00000010	
	2	00000100	FEED STOP
	3	00001000	JOG OVERRIDE
	4	00010000	POSITIONAL SIGNAL OUTPUT
	5	00100000	SOFTWARE OPERATOR'S PANEL GENERAL PURPOSE
	6	01000000	SOFTWARE OPERATOR'S PANEL
	7	10000000	

9929	0	00000001	GRAPHICS DISPLAY
	1	00000010	CONVERSATIONAL TYPE PROGRAMMING WITH FIG
	2	00000100	EXPANDED STORED STROKE CHECK
	3	00001000	STROKE LIMIT EXTERNAL SETTING
	4	00010000	THREADING CYCLE RETRACT
	5	00100000	
	6	01000000	EXTERNAL MESSAGE
	7	10000000	

9930	0	00000001	PGM RESTART
	1	00000010	WORK OFFSETS G54-G59
	2	00000100	EXTERNAL DATA INPUT
	3	00001000	HELICAL INTERPOLATION
	4	00010000	THREAD CUTTING AND SYNCHRONOUS FEED
	5	00100000	AXIS CONTROL BY PMC
	6	01000000	AUTO. CORNER OVERRIDE
	7	10000000	HOBBIING FUNCTION/C-F-AXIS CONTROL

	5	00100000	AXIS CONTROL BY PMC
	6	01000000	AUTO. CORNER OVERRIDE
	7	10000000	HOBGING FUNCTION/C-F-AXIS CONTROL

9931	0	00000001	G60 SINGLE DIRECTION POSITIONING
	1	00000010	ATC FOR DRILL MATE
	2	00000100	M29 RIGID TAPPING
	3	00001000	CLOCK FUNCTION
	4	00010000	
	5	00100000	400 OFFSETS
	6	01000000	DIRECTORY DISPLAY OF FLOPPY CASSETTE
	?	7	10000000

9932	0	00000001	3RD/4TH REFERENCE POINT RETURN
	1	00000010	G50,G51 SCALING
	2	00000100	G68 ANGULAR ROTATIONAL OFFSET
	3	00001000	F15 TAPE FORMAT
	4	00010000	TOOL LIFE MANAGEMENT
	5	00100000	200 OFFSETS
	6	01000000	ADDITIONAL OPTIONAL BLOCK SKIP 9
	7	10000000	MACRO EXECUTER

9933	0	00000001	SEPARATE HEIGHT AND DIAMETER OFFSETS C-GEOMETRY AND WEAR
	1	00000010	G15,G16 POLAR COORDINATE SYSTEM
	2	00000100	
	3	00001000	F1 DIGIT FEED
	4	00010000	I/O DEVICE EXTERNAL CONTROL
	5	00100000	
	6	01000000	INTERRUPTION TYPE MACRO
	7	10000000	MACRO B

9934	0	00000001	
	1	00000010	REMOTE BUFFER STORAGE
	2	00000100	HIGH SPEED REMOTE BUFFER STORAGE A
	3	00001000	HIGH SPEED REMOTE BUFFER STORAGE B
	4	00010000	READER PUNCHER INTERFACE CONTROL 2
	5	00100000	MAP INTERFACE
	6	01000000	LINEAR ACCEL / DECEL AFTER INTERPOLATION
	7	10000000	

9935	0	00000001	HIGH SPEED MACHINING
	1	00000010	TOOL OFFSET MEMORY B
	2	00000100	EXT. MACHINE ZERO POINT SHFT.
	3	00001000	14'/10" DISPLAY
	4	00010000	EXTERNAL DECELERATION
	5	00100000	DYNAMIC GRAPHIC DISPLAY
	6	01000000	400 REGISTERABLE PROGRAMS
	7	10000000	200 REGISTERABLE PROGRAMS

9936	0	00000001	TOOL OFFSET G45-G48
	1	00000010	
	2	00000100	OPTIONAL ANGLE CHAMFER / CORNER ROUNDING
	3	00001000	SIMPLE SYNCHRONOUS CONTROL
	4	00010000	HIGH SPEED SKIP
	5	00100000	
	6	01000000	2 DRIVE FLOPPY CONTROL
	7	10000000	EXTENDED EDIT COPY / PASTE

9937	0	00000001	CYLINDRICAL INTERPOLATION
	1	00000010	SERIAL SPINDLE INTERFACE
	2	00000100	POLAR COORDINATE INTERPOLATION
	3	00001000	Cs - AXIS CONTOUR CONTROL
	4	00010000	ADDITIONAL MACRO VARIABLES 149-199 531-999
	5	00100000	NORMAL DIRECTION CONTROL
	6	01000000	TOOL LIFE MANAGE MANAGEMENT 512 PAIRS
	7	10000000	INPUT/OUTPUT SIMULTANEOUS OPERATION

9938	0	00000001	
	1	00000010	
	2	00000100	
	3	00001000	
	4	00010000	
	5	00100000	
	6	01000000	
	7	10000000	

9939	0	00000001	NC FORMAT CONVERSION
	1	00000010	
	2	00000100	
	3	00001000	
	4	00010000	
	5	00100000	
	6	01000000	

	7	10000000	MACRO EXECUTOR FOR CAP
9940	0	00000001	DNC 1 CONTROL
	1	00000010	PROGRAM FILE MATE
	2	00000100	POSITION SWITCH
	3	00001000	4 AXIS SIMULTANEOUS PROGRAMMING
	4	00010000	
	5	00100000	INFEE D CONTROL
	6	01000000	GRINDING CANNED CYCLE
	7	10000000	SPINDLE SYNCHRONOUS CONTROL
9941	0	00000001	1ST SPINDLE ORIENTATION
	1	00000010	
	2	00000100	1ST SPINDLE OUTPUT SWITCH
	3	00001000	
	4	00010000	
	5	00100000	
	6	01000000	
	7	10000000	
9942	0	00000001	2ND SPINDLE ORIENTATION
	1	00000010	
	2	00000100	2ND SPINDLE OUTPUT SWITCH
	3	00001000	
	4	00010000	
	5	00100000	
	6	01000000	
	7	10000000	
9943	0	00000001	SEQUENCE NUMBER COLLATE & STOP
	1	00000010	INCLINATION AXIS CONTROL
	2	00000100	CONTINOUS DRESSING FUNCTION
	3	00001000	CONTROLLABLE AXES EXPANSION
	4	00010000	SIMULTANEOUS CONTROL AXES EXPANSION
	5	00100000	1000 REGISTERED PROGRAMS
	6	01000000	PROGRAM MEMMORY 1200m
	7	10000000	G54.1 P1-P48 ADDITIONAL WORK OFFSETS

	5	00100000	1000 REGISTERED PROGRAMS
	6	01000000	PROGRAM MEMMORY 1200m
	7	10000000	G54.1 P1-P48 ADDITIONAL WORK OFFSETS

9944	0	00000001	2ND FEEDRATE OVERRIDE
	1	00000010	
	2	00000100	AXIS CONTROL DETACH
	3	00001000	
	4	00010000	
	5	00100000	
	6	01000000	PROGRAMMABLE MIRROR IMAGE
	7	10000000	

9945	0	00000001	G08 P1 / P0 HPCC LOOK AHEAD
	1	00000010	
	2	00000100	
	3	00001000	
	4	00010000	
	5	00100000	INV. TIME FEED G93
	6	01000000	
	7	10000000	

9946	0	00000001	
	1	00000010	
	2	00000100	PMC-RC
	3	00001000	
	4	00010000	

	5	00100000	
	6	01000000	PMC-RC 0/PASCAL
	7	10000000	

9952	0	00000001	BELL SHAPE ACC/DEC IN RAPID
	1	00000010	
	2	00000100	
	3	00001000	
	4	00010000	
	5	00100000	
	6	01000000	
	7	10000000	

9962	0	00000001	
	1	00000010	
	2	00000100	
	3	00001000	
	4	00010000	CUTTING RETRACT & RESTART
	5	00100000	
	6	01000000	
	7	10000000	

9972	0	00000001	
	1	00000010	
	2	00000100	
	3	00001000	
	4	00010000	
	5	00100000	
	6	01000000	
	7	10000000	G05.1 Q1/ Q0 AICC SIMPLE CONTOUR CONTROL