

MX# = AXIS PARAMETERS 8055 / 8040 (Bold are Defaults)

To assume new values: // = press SHIFT-RESET or turn CNC off & on, /= press RESET, unmarked = do nothing

METER	MEANING	VALUE
P0 - AXISTYPE	DEFINES AXIS TYPE CNC OR PLC	0 - 9 [0]
P1 - DFORMAT	DISPLAY FORMAT	0 - 3 [M] 6[L] [0]
P2 - GANTRY	GANTRY ASSOCIATED WITH AXIS	0 - 9 [0]
P3 - SYNCHRO	SLAVE AXIS BY PLC WITH OTHER	0 - 9 [0]
P4 - DROAXIS	NORMAL OR DRO AXIS	NO, YES
P5 - LIMIT+	SOFTWARE TRAVEL LIMIT POSITIVE	± 3937.00787 “[0]
P6 - LIMIT-	SOFTWARE TRAVEL LIMIT NEGATIVE	± 3937.00787 “[0]
P7 - PITCH	DISTANCE FOR REVOLUTION OF ENCODER	0.0001 3937.0078” [5]
P8 - NPULSES	NUMBER OF PULSES OF ENCODER	0 - 65535
P9 - DIFFBACK	FEEDBACK DIFFERENTIAL SIGNAL	YES, NO
P10 - SINMAGNI	MULTIPLYING FACTOR FOR SINE-WAVE SIGNALS	0 - 255
P11 - FBAKAL	FEEDBACK ALARM	OFF, ON
P12 - FBALTIME	MAX. TIME TO THE AXIS TO RESPOND FOR ANALOG OUT.	0 - 65535 ms
P13 - AXISCHG	CHANGE COUNTING DIRECTIONS	YES, NO
P14 - BACKLASH	INDICATES THE AMOUNT OF BACKLASH (0 FOR SCALES)	± 3937.00787 “[0]
P15 - LSCRWCOM	LEADSCREW COMPENSATION	OFF, ON
P16 - NPOINTS	NUMBER OF POINTS FOR LEADSCREW ERROR	0 - 255
P17 - DWELL	DWELL BETWEEN ENABLE AND ANALOG OUT	0 - 65535 ms
P18 - ACCTIME	ACCELERATION TIME (DECELERATION THE SAME)	0 - 65535 ms
P19 - INPOSW	IN POSITION ZONE (DEAD BAND)	0 - 3937.008 “[0.01]
P20 - INPOTIME	TIME REMAIN IN POSITION ZONE TO CONFIRM IN POSITION	0 - 65535 ms
P21 - MAXFLWE1	MAXIMUM FOLLOWING ERROR FOR AXIS IN MOTION	0 - 3937.008 “[30]
P22 - MAXFLWE2	MAXIMUM FOLLOWING ERROR FOR AXIS STOPS	0 - 3937.008 “[0.01]
P23 - PROGAIN	PROPORTIONAL GAIN	0 - 65535
P24 - DERGAIN	DERIVATIVE GAIN	0 - 65535
P25 - FFGAIN	FEED-FORWARD GAIN	0 - 100 %
P26 - LOOPCHG	SIGN OF ANALOG OUTPUT	YES, NO
P27 - MINANOUT	MINIMUM ANALOG OUTPUT (MAX 10V)	0 - 32767
P28 - SERVOFF	OFFSET VALUE TO ANALOG OUTPUT FOR THE DRIVE	0 - ±32767
P29 - BAKANOUT	ADDITIONAL ANALOG PULSE FOR BACKLASH	0 - 32767
P30 - BATIME	DURATION OF BACKLASH ANALOG PULSE	0 - 65535 ms
P31 - DECINPUT	INDICATES HOME SWITCH	NO, YES
P32 - REFPULSE	TYPE OF FLANK FOR REFERENCE PULSE	+ or -
P33 - REFDIREC	INDICATES THE DIRECTION OF THE HOME SEARCH	+ or -
P34 - REFEED1	FEEDRATE FOR REFERENCE SEARCH	0.00001 - 3937.0 “/min [40 “/min]
P35 - REFEED2	FEEDRATE FOR REFERENCE AFTER HITTING HOME SWITCH	0.00001 - 3937.0 “/min [4 “/min]
P36 - REFVALUE	REFERENCE VALUE	± 3937.00787 “[0]
P37 - MAXVOLT	MAXIMUM ANALOG VOLTAGE FOR G00	0 - 9999 mV [9.5 V]
P38 - G00FEED	MAXIMUM FEEDRATE FOR G00	0.00001 - 3937.0 “/min [400 “/min]
P39 - UNIDIR	INDICATES THE DIRECTION OF UNIDIRECTIONAL APPROACH	+ or -
P40 - OVERRUN	INDICATES DISTANCE TO BE KEPT BETWEEN UNIDIRECT.	0.00001 - 3937.0 “[0]
P41 - UNIFEED	FEEDRATE FOR UNIDIRECTIONAL APPROACH	0.00001 - 3937.0 “/min [0 “/min]
P42 - MAXFEED	MAXIMUM PROGRAMMABLE FEEDRATE	0.00001 - 3937.0 “/min [200 “/min]
P43 - JOGFEED	FEEDRATE IN JOG MODE	0.00001 - 3937.0 “/min [40 “/min]
P44 - PRBFEEED	PROBING FEEDRATE	0.00001 - 3937.0 “/min [4 “/min]
P45 - MAXCOUPE	MAXIMUM COUPLING ERROR (FOR PLC OR GANTRY)	0.00001 - 3937.0 “[1]

- 0 - Normal linear
- 1 - Rapid position. linear
- 2 - Normal rotary
- 3 - Rapid position. rotary
- 4 - Rotary HIRTH
- 5 - Normal linear PLC
- 6 - Rapid position. lin. PLC
- 7 - Normal rotary PLC
- 8 - Rapid position. rot. PLC
- 9 - Rotary HIRTH PLC

- 0 - FREE
- 1 - X axis
- 2 - Y axis
- 3 - Z axis
- 4 - U axis
- 5 - V axis
- 6 - W axis
- 7 - A axis
- 8 - B axis
- 9 - C axis

MX# = AXIS PARAMETERS 8055 / 8040 (Bold are Defaults)

To assume new values: // = press SHIFT-RESET or turn CNC off & on, /= press RESET, unmarked = do nothing

P46 - ACFGAIN	AC-FORWARD FOR DERGAIN	NO, YES
P47 - REFSHIFT	REFERENCE POINT SHIFT FOR REINSTALLING FEEDBACK	± 3937.00787 “[0]”
P48 - STOPTIME	TIME FOR USING FUNCTION G52	0 - 65535 ms
P49 - STOPMOVE	AXIS STOP WHEN MOVEMENTS DO NOT EXCEED	0.00001 - 3937.0 “[0]”
P50 - STOPAOUT	USED WITH G52 (RESIDUAL ANALOG OUTPUT)	0 - 9999 mV [0 V]”
P51 - INPOSW2	IN POSITION WIDTH WITH G50 (CONTROL. ROUND CORNER)	0 - 3937.008 “[0.01]”
P52 - IOTYPE	TYPE OF I _o SIGNAL	0 - 2
P53 - ABSOFF	FOR CODED I _o	0 - 3937.008 “[0]”
P54 - MINMOVE	AXIS MOVE SMALLER THAN PARAMETER O/P ANTI-6 IS HIGH	0- 3937.008” [0]”
P55 - ROLLOVER	ROTARY AXIS ROLLOVER OR NOT	YES, NO
P56 - SERCOSID	SERCOS ADDRESS ASSOCIATED WITH THE AXIS	0, 1-8
P57 - EXTMULT	CODED I _o , (MECH. PITCH / ELECTRICAL PITCH =EXTMULT)	1, ,1 5 [0]”
P58 - SMOTIME	DURATION OF A FILTER IN ms	[0] ms
P59 - ACCTIME2	POSSIBILITY TO USE DIFFERENT ACCELERATIONS	0 - 65535ms [0]”
P60 - PROGAIN2	POSSIBILITY TO USE DIFFERENT PROGAINS	0 - 65535mV [0]”
P61 - DERGAIN2	POSSIBILITY TO USE DIFFERENT DERGAINS	0 - 65535mV [0]”
P62 - FFGAIN2	POSSIBILITY TO USE DIFFERENT FEEDFORWARD	0 - 100 %
P63 - SERCOSLE	INDICATES THE TYPE OF SERCOS COMMUNICATION	0, 1 [0]”
P64 - POSINREF	SERCOS FEEDBACK, POSITION OF ABSOLUTE ENCODER	[0]”
P65 - SWITCHAX	SWITCHED AXIS	[0] - 9
P66 - SWINBACK	SWITCHED INPUT FEEDBACK	[0] or 1 (external)
P67 - JERKLIM	JERK LIMITATION	[0] -99999.9999m/s ³
P68 - I0CODI1	PITCH BETWEEN TWO DISTANCE-CODED FIXED I0 MARKS	[0] -65535
P69 - I0CODI2	PITCH BETWEEN TWO DISTANCE-CODED VARIABLE I0 MARKS	[0] -65535

0 = normal I_o
1= A type of coded I_o
2= B type of coded I_o

0- analog axis
1-8 sercos address

Cos,Covs,Movs,Fos=1
Coc,Covc,Movc,Foc=1
Cox,Covx,Movx,Fot=5

0=axis feedback input through a connector
1=axis feedback is sent through sercos

0 = none
1 = with X axis
2 = with Y axis
3 = with Z axis
4 = with U axis
5 = with V axis
6 = with W axis
7 = with A axis
8 = with B axis
9 = with C axis