



M CODE LIST

Mコード一覧表

CNC精密自動旋盤
CNC Precision Automatic Lathe

BW128E-II

CUSTOMER: NIVAROX-FAR S.A.
MACHINE SERIAL No.17001A

PRECISION TSUGAMI

M Codes

M code	Function	Path			S/N:17001A
		1	2	3	
M00	Program stop	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
M01	Optional stop	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M02	End of program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M03	Main spindle rotation CW	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>
M04	Main spindle rotation CCW	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>
M05	Main spindle stop	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>
M08	Coolant ON	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M09	Coolant OFF	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M10	Main spindle chuck clamp	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>
M11	Main spindle chuck unclamp	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>
M12	Main spindle speed arrival check	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>
M13	Main spindle rotation CW and coolant ON	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>
M14	Main spindle rotation CCW and coolant ON	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>
M17	Work catcher advance	[OP]	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M18	Work catcher retraction	[OP]	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M20	Back spindle chuck clamp		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M21	Back spindle chuck unclamp		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M23	Cross drill rotation CW (independent command code)	<input type="radio"/>			<input type="radio"/>
M24	Cross drill rotation CCW (independent command code)	<input type="radio"/>			<input type="radio"/>
M25	Cross drill stop	<input type="radio"/>			<input type="radio"/>
M26	Z2 axis air blow ON	[OP]	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M27	Z2 axis air blow OFF	[OP]	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M28	Z2 axis air blow (Timer)	[OP]	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M29	Rigid tapping		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M30	End of tape		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M32	Error detection ON		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M33	Error detection OFF		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M34	Chamfering ON		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M35	Chamfering OFF		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M36	Cutting-off detection (electric switch & touch switch)	[OP]	<input type="radio"/>		<input type="radio"/>
M42	Cutting-off detection (differential speed detection type)		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M48	Override invalid		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M49	Override valid		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M50	Main spindle C-axis mode ON		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M51	Main spindle C-axis mode OFF		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M52	Back spindle speed arrival confirmation		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
M53	Main/back spindle speed arrival confirmation		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

M code	Function	Path			S/N:17001A
		1	2	3	
M54	Main/back -spindle phase synchronization control ON	○	○	○	○
M55	Main/back-spindle phase sync. control OFF	○	○	○	○
M56	Main/back -spindle rotation synchronization control ON	○	○	○	○
M57	Main/back -spindle rotation synchronization control OFF	○	○	○	○
M58	Main/back -spindle torque down	○	○	○	○
M59	Main/back -spindle torque normal	○	○	○	○
M60	Bar feeder torque OFF	[OP]	○	○	○
M61	Bar feeder torque ON	[OP]	○	○	○
M62	Bar feeder stock replacing start	[OP]	○	○	○
M64	Bar feeder stock feeding start (on Piece Feeder)	[OP]	○	○	
M65	Bar feeder tracing crutch OFF	[OP]	○	○	
M72	Back spindle air blow ON	[OP]	○	○	○
M73	Back spindle air blow OFF	[OP]	○	○	○
M74	Air blow 1 ON	[OP]	○	○	○
M75	Air blow 1 OFF	[OP]	○	○	○
M76	Air blow 2 ON	[OP]	○	○	○
M77	Air blow 2 OFF	[OP]	○	○	○
M78	Work forward discharge advance	[OP]	○	○	○
M79	Work forward discharge retraction	[OP]	○	○	○
M82	Main spindle brake ON		○	○	○
M83	Main spindle brake OFF		○	○	○
M88	Coolant through back spindle ON	[OP]		○	○
M89	Coolant through back spindle OFF	[OP]		○	○
M91	Bar stock feeding program call O9001		○	○	○
M92	Bar stock feeding program call O9002		○	○	○
M93	Bar stock feeding program call O9003		○	○	○
M95	Bar feeder program start for stock length check	[OP]	○	○	○
M96	Bar feeder program end for stock length check	[OP]	○	○	○
M97	Work counter count & Tool life management counter ON		○		○
M98	Subprogram call		○	○	○
M99	Subprogram end		○	○	○
M103	Back spindle rotation, CW		○	○	○
M104	Back spindle rotation, CCW		○	○	○
M105	Back spindle stop		○	○	○
M108	High pressure pump start	[OP]	○	○	○
M109	High pressure pump stop	[OP]	○	○	○
M123	Back drill rotaion CW		○		○
M124	Back drill rotaion CCW		○		○
M125	Back drill stop		○		○
M129	Cross & back drill rigid tapping	[OP]	○	○	

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		1	2	3	
M150	Back spindle Cs-axis mode ON		○	○	○
M151	Back spindle Cs-axis mode OFF		○	○	○
M160	Oil blow(X1) ON	[OP]	○	○	○
M161	Oil blow(X1) OFF	[OP]	○	○	○
M162	Oil blow(X3) ON	[OP]	○	○	○
M163	Oil blow(X3) OFF	[OP]	○	○	○
M164	Oil blow(Z2) ON	[OP]	○	○	○
M165	Oil blow(Z2) OFF	[OP]	○	○	○
M182	Back spindle brake ON	[OP]		○	○
M183	Back spindle brake OFF	[OP]		○	○
M188	ID coolant ON	[OP]	○	○	○
M189	ID coolant OFF	[OP]	○	○	○
M223	Cross drill rotation (rear tool post), CW		○	○	○
M223	Cross drill rotation (rear tool post), CCW		○	○	○
M225	Cross drill rotation (rear tool post), stop		○	○	○
M312	Cross drill speed arrival confirmation		○		○
M314	Back drill speed arrival confirmation		○		○
M333	Whirling unit rotation, CW	[OP]		○	
M334	Whirling unit rotation, CCW	[OP]		○	
M500 to 699	Waiting M code		○	○	○
M500 to 699 P_L_IP	Designation position of waiting M code		○	○	○
M704	Z axes synchronization cancel		○	○	○
M705	Z axes synchronization start		○	○	○
M740	Z1/Z3-axis superposition control cancel		○		○
M741	Z1/Z3-axis superposition control start		○		○
M764	Z1/Z3-axis composite control (Z3 → Z1)		○		○
M765	Z1/Z3-axis composite control (Z1 → Z3)		○		○
M774	Z2/Z3-axis composite control (Z3 → Z2)			○	○
M775	Z2/Z3-axis composite control (Z2 → Z3)			○	○
M2****	Program search and start for path NC2		○		○
M3****	Program search and start for path NC3		○		○

Special M Codes

M code	Function	Path			S/N:17001A
		1	2	3	
M166	Guide bush refueling ON	○	○	○	○
M167	Guide bush refueling OFF	○	○	○	○
M170	Oil blow Rear Tool ON	○	○	○	○
M171	Oil blow Rear Tool OFF	○	○	○	○
M260	M code output 1 ON	○	○	○	○
M261	M code output 1 OFF	○	○	○	○
M262	M code output 2 ON	○	○	○	○
M263	M code output 2 OFF	○	○	○	○
M264	M code output 3 ON	○	○	○	○
M265	M code output 3 OFF	○	○	○	○
M266	M code output 4 ON	○	○	○	○
M267	M code output 4 OFF	○	○	○	○
M268	M code output 5 ON	○	○	○	○
M269	M code output 5 OFF	○	○	○	○
M413	Brushless motor (cross1) CW rotation	○	○	○	○
M414	Brushless motor (cross1) CCW rotation	○	○	○	○
M415	Brushless motor (cross1) STOP rotation	○	○	○	○
M423	Brushless motor (cross2) CW rotation	○	○	○	○
M424	Brushless motor (cross2) CCW rotation	○	○	○	○
M425	Brushless motor (cross2) STOP rotation	○	○	○	○
M433	Brushless motor (front1) CW rotation	○	○	○	○
M434	Brushless motor (front1) CCW rotation	○	○	○	○
M435	Brushless motor (front1) STOP rotation	○	○	○	○
M443	Brushless motor (front2) CW rotation	○	○	○	○
M444	Brushless motor (front2) CCW rotation	○	○	○	○
M445	Brushless motor (front2) STOP rotation	○	○	○	○
M453	Brushless motor (rear) CW rotation	○	○	○	○
M454	Brushless motor (rear) CCW rotation	○	○	○	○
M455	Brushless motor (rear) STOP rotation	○	○	○	○