



Pin Marking System Selection Guide

FEATURES	TMP6100	TMM5100	TMP3200	TMP7000	TMM7200
	Versatile Tabletop Marker for Batch Processes/Job Lots or On-Line Processes	Rapid, On-Line, Hand-Held, or Automated Marking, VIN Numbers	Cost-Effective On-Line High Speed Marking	Heavy-Duty, Large Character, Deep Penetration Marking	Heavy-Duty, Large Character, Deep Penetration Marking
Controller	TMC470	TMC470	TMC470	TMC470	TMC470
Hand-Held Applications	No	No	Consult Factory	Consult Factory	No
Mark Depth (Based on Rb53 Material Hardness)	0.001-0.013 in. (0.03-0.33 mm)	0.001-0.013 in. (0.03-0.33 mm)	0.001-0.013 in. (0.03-0.33 mm)	0.001-0.022 in. (0.03-0.56 mm)	0.001-0.022 in. (0.03-0.56 mm)
Noise Level	Moderate	Moderate	Moderate	Moderate	Moderate
Computer Host Interface	Yes	Yes	Yes	Yes	Yes
Computer Required	No	No	No	No	No
Marking Speed - MAX	Up to 3 Char./Sec.	Up to 6 Char./Sec.	Up to 6 Char./Sec.	Up to 2 Char./Sec.	Up to 21 Char./ 1.5 sec.
Maximum Marking Window Size	6.0 x 12.0 in. (152.0 x 304.0 mm)	0.625 x 4.5 in. (16.0 x 114.0 mm)	4.0 x 6.0 in. (100.0 x 150.0 mm)	4.0 x 6.0 in. (100.0 x 150.0 mm)	64.0 sq. in. (413.0 sq. mm)
Maximum Character Height	6.0 in. (152.0 mm)	0.63 in. (16.0 mm)	4.0 in. (100.0 mm)	4.0 in. (100.0 mm)	1.75 in. (44.5 mm)
Programmable "Z" Axis	Optional	No	Optional	Consult Factory	No
Maximum No. of Pins	1	6	1	1	21
Multiple Line Marking	Yes	Yes	Yes	Yes	Yes
Arc Text	Yes	Yes	Yes	Yes	No
Continuous Characters	Yes	Yes	Yes	Yes	Yes
Logos	Optional Software	Optional Software	Optional Software	Optional Software	Optional Software
2-D Codes	Yes	No	Yes	Yes	Yes
Serialization	Yes	Yes	Yes	Yes	Yes
Date Codes	Yes	Yes	Yes	Yes	Yes
Surface Irregularities	Up to 0.25 in. (6.0 mm)	Up to 0.25 in. (6.0 mm)	Up to 0.25 in. (6.0 mm)	Up to 0.25 in. (6.0 mm)	Up to 0.25 in. (6.0 mm)
Number of Std. Fonts	3	2	3	3	3
User Defined Custom Fonts	Optional Software	Optional Software	Optional Software	Optional Software	Optional Software
Circumferal Marking	Optional	No	Optional	No	No
Resolution	Up to 200 dpi (79 d/cm)	Up to 200 dpi (79 d/cm)	Up to 200 dpi (79 d/cm)	Up to 200 dpi (79 d/cm)	Up to 200 dpi (79 d/cm)
Power	115 or 220 VAC	115 or 220 VAC	115 or 220 VAC	115 or 220 VAC	115 or 220 VAC
Air Supply	60-100 PSIG (4.1-6.9 Bars)	60-100 PSIG (4.1-6.9 Bars)	60-100 PSIG (4.1-6.9 Bars)	60-100 PSIG (4.1-6.9 Bars)	60-100 PSIG (4.1-6.9 Bars)



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FEATURES	SC3500	SC5000	BenchMark®200	BenchMark®320	BenchMark®460
	Nearly Silent Moderate Penetration Scribe Marking	Nearly Silent Deep Penetration Scribe Marking	Stand-Alone Benchtop Applications	Stand-Alone Benchtop Applications	Stand-Alone Handheld Applications
Controller	TMC470	TMC470	BM 470	BM470	BM 470
Hand-Held Applications	Consult Factory	Consult Factory	No	No	Yes
Mark Depth (Based on Rb53 Material Hardness)	Varies	Varies	0.001-0.010 in. (.03-.25 mm)	0.001-0.010 in. (.03-.25 mm)	0.001-0.010 in. (.03-.25 mm)
Noise Level	Very Low	Very Low	Moderate	Moderate	Moderate
Computer Host Interface	Yes	Yes	No	No	No
Computer Required	No	No	No	No	No
Marking Speed - MAX	Up to 2 Char/Sec.	Up to 2 Char/Sec.	Up to 5 Char/Sec.	Up to 5 Char/Sec.	Up to 5 Char/Sec.
Maximum Marking Window Size	4.0 x 6.0 in. (100.0 x 150.0 mm)	2.5 x 7.5 in. (63.5 x 190.5mm)	4.0 x 4.0 in (100.0 x 100.0 mm)	4.0 x 6.0 in. (100.0 x 150.0 mm)	1.0 x 4.0 in. (25.0 x 100.0 mm)
Maximum Character Height	4.0 in. (100.0 mm)	2.5 in. (63.5 mm)	4.0 in. (100.0 mm)	4.0 in. (100.0 mm)	1.00 in. (25.0 mm)
Programmable "Z" Axis	No	No	No	No	No
Maximum No. of Pins	1	1	1	1	1
Multiple Line Marking	Yes	Yes	Yes	Yes	Yes
Arc Text	Yes	Yes	Yes	Yes	Yes
Continuous Characters	Yes	Yes	Yes	Yes	Yes
Logos	Optional Software	Optional Software	Optional Software	Optional Software	Optional Software
2-D Codes	Yes	Yes	Yes	Yes	Yes
Serialization	Yes	Yes	Yes	Yes	Yes
Date Codes	Yes	Yes	Yes	Yes	Yes
Surface Irregularities	Up to 0.3 in. (7.0 mm)	Up to 0.5 in. (12.5 mm)	Up to 0.10 in.(2.5 mm)	Up to 0.10 in.(2.5 mm)	Up to 0.10 in.(2.5mm)
Number of Std. Fonts	2	2	3	3	3
User Defined Custom Fonts	Optional Software	Optional Software	Optional Software	Optional Software	Optional Software
Circumferential Marking	No	No	Optional	Optional	No
Resolution	Continuous	Continuous	Up to 80 dpi (31 d/cm)	Up to 80 dpi (31 d/cm)	Up to 80 dpi (31 d/cm)
Power	115 or 220 VAC	115 or 220 VAC	115 or 220 VAC	115 or 220 VAC	115 or 220 VAC
Air Supply	60-100 PSIG (4.1-6.9 Bars)	60-100 PSIG (4.1-6.9 Bars)	None	None	None



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TMM4200/4215	TMP4210	TMP4500E	TMM4250	TMP1700	TMM5400
High Speed Lightweight Hand-Held Marking or Fixtured Applications with Severe Spacial Constraints	Hand Held Marking or Fixtured Applications with Severe Spacial Constraints	Portable Hand-Held Deep Marking	Fixtured Applications in Wet or Dry Environments	Extremely Cost Effective On-Line High Speed Marking	8-Pin Marking Head for Extremely High Speed On-Line Applications
TMC470	TMC470	TMC470	TMC470	TMC470	TMC470
No	Yes	Yes	No	Yes	Consult Factory
0.001-0.013 in. (0.03-0.33mm)	0.001-0.013 in. (0.03-0.33 mm)	0.001-0.018 in. (0.03-0.46 mm)	0.001-0.013 in. (0.03-0.33 mm)	0.001-0.013 in. (0.03-0.33 mm)	0.001-0.010 in. (0.03-0.25 mm)
Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
Yes	Yes	Yes	Yes	Yes	Yes
No	No	No	No	No	No
4200 - Up to 8 Char./Sec. 4215 - Up to 4Char./Sec.	Up to 8 Char./Sec.	Up to 4 Char./Sec.	Up to 8 Char./Sec.	Up to 6 Char./Sec.	Up to 32 Char./ 1.5 sec.
0.5 x 4.0 in. (13.0 x 100.0 mm)	0.5 x 2.0 in. (12.7 x 50.8mm)	1.0 x 4.0 in. (25.4 x 101.6 mm)	0.5 x 2.0 in. (12.5 x 50.8 mm)	1.5 x 2.5 in. (38.1 x 63.5 mm)	0.5 x 3.78 in. (12.7 x 96.0 mm)
0.5 in (12.7 mm)	0.5 in. (12.7 mm)	1.0 in. (25.4 mm)	0.5 in. (12.7 mm)	1.5 in. (38.1 mm)	0.5 in. (12.7 mm)
No	No	No	No	Optional	No
4200 - 4 pins 4215 - 2 pins	1	1	4	1	8
Yes	Yes	Yes	Yes	Yes	Yes
No	No	Yes	No	Yes	No
Yes	Yes	Yes	Yes	Yes	Yes
Optional Software	Optional Software	Optional Software	Optional Software	Optional Software	Optional Software
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Up to 0.25 in. (6.0 mm)	Up to 0.25 in. (6.0 mm)	Up to 0.1 in. (6.0 mm)	Up to 0.25 in. (6.0 mm)	Up to 0.25 in. (6.0 mm)	Up to 0.25 in. (6.0 mm)
3	3	3	3	3	3
Optional Software	Optional Software	Optional Software	Optional Software	Optional Software	Optional Software
No	No	No	No	Optional	No
Up to 200 dpi (79 d/cm)	Up to 200 dpi (79 d/cm)	Up to 80 dpi (31 d/cm)	Up to 200 dpi (79 d/cm)	Up to 200 dpi (79 d/cm)	Up to 200 dpi (79 d/cm)
115 or 220 VAC	115 or 220 VAC	115 or 220 VAC	115 or 220 VAC	115 or 220 VAC	115 or 220 VAC
60-100 PSIG (4.1-6.9 Bars)	60-100 PSIG (4.1-6.9 Bars)	None	60-100 PSIG (4.1-6.9 Bars)	60-100 PSIG (4.1-6.9 Bars)	60-100 PSIG (4.1-6.9 Bars)