Specification

Specification			P		10 1 0	10.0							
Type	PJ-1B-0, PJ-1B-1, PJ-1B-2												
Type of character	• Numberais:	5: 10 • AlphabetsLetters (upper/lower case): 26 • Symbols: 28kinds • Special letters: 100 kinds (can be registered)											
Size of character	size	Dot Constitution	Size of character (Height-×Width mr Tall character Standard character						n) Wide character				
		H×W					1	1					
	Small	7 × 5 dot	Type-0 21×15	Type-1 15×11	Type-2 9 × 7	Type-0 21×23	Type-1 15×17	Type-2 9 ×11	Type-0 21×30	Type-1 15×22	Type-2 9 ×14		
	Medium1	10 × 8	30×24	21×17	9 × 7 13×11	30×36	21×26	13×17	21×30 30×48	21×34	13×22		
	Medium2	12 × 8	36×24	21×17 26×17	16×11	36×36	21×20 26×26	16×17	36×48	21×34 26×34	16×2		
	Large	14 ×10	42×30	30×21	18×14	42×45	20×20 30×32	18×21	42×60	20×34 30×42	18×28		
	Ext. large	16 ×12	42×30 48×36	34×25	21×16	42×43 48×54	34×38	21×24	42×00 48×72	34×50	21×32		
		-	40×30	1.0	21×10	40×34	1.5	21/24	40×12	2.0	21×32		
Marking speed					145	120	276	194	160				
Marking speed		Auto repeat •Numbering •Tow lines •Time codes •Character size selection •Inverse character											
Marking function	Long space • Reverse (PIO specify) • Block marking • DataMatrix												
Number of Marking character	The maximum text data shall be within 2,048 byte (including control codes)												
Capability	Can be marked with Extra large characters with 4L paint (approximately) Type-0: 250,000 Type-1: 350,000 Type-2: 500,000												
Marking head	3mm pitch/16 nozzles (Actual dot pitch: Type-0 : 3.0mm, Type-1: 2.1mm, Type-2 : 1.3mm)												
Marking distance	Distance between head face and objective surface. (Type-0 and Type-1: <20mm Type-2: <10mm)												
Alarm function	Paint/Remover shortage, Air pressure, Memory error, Communication error, Voltage abnormal, Fuse breaking shall be indicated with single LED indicator on the front panel. Substance of Error shall be confirmed with Handy-Terminal or output signal receiving.												
Operation I/F	Input (photo isolated 24V) 6 points: Marking start , Wash, Test shot, Reverse marking, Auto, Reset (Alarm reset and marking reset) Output (open collector) 5 points: On auto, Alarm, On marking, Paint shortage, Remover shortage												
Comm. I/F	RS232C serial interface (within 19,200 bps), Ethernet												
Encoder input	DC24V, For open collector. (For external synchronization, Dual phase/Single phase) , Line driver												
Power	AC100V (50·60Hz) 5A or AC220V (50·60Hz) 3A												
Air	>0.4MPa (Recommend: 0.5MPa), 0.2Nm ³ /min												
Temperature	Service condition shall be within normal temperature (5-40°C) and dry condition.												
Standard Composition	Marking Machine	Marking For type-0 : 2HGSB001-016 Coating: Stainless steel without coating For type-1 : 2HGSB001-116 Measurement: 169H x 162W x 186D (about 2 6kg)											
	Controller	Type : IC4-1016 (AC100)Coating: Stainless steel without coatingType : IC4-2216 (AC200)Measurement: 168H x 450H x 386D (about 10kg)											
	Pump Unit	Type: IU43-PCBA-SS Coating: Stainless steel without coating Measurement: 625H x 450W x 525D (about 25kg)											
	Special cables												
	Special tubes	Marking Machine – Pump Unit (5 tubes bandied): 3m or 10m											
	Standard accessory •Paint / Remover filter: 1pc for each •Special tools : 1pc												
Option	Handy-Terminal: For marking data preparation / transmission, text data storage up to 100 items, controller status confirmation, operation parameter setting and transmission												

* At maximum marking speed, Auto-repeat function and Duty cycle shall be regulated.

* Combination of marking function shall be regulated.

Special paint and remover for PJ-1B

		Alcohol type	Eco type		
	Туре	PSA75	PSG		
Paint	Major solvent	Ethyl alcohol	Ethyl alcohol, Ethylene glycol di-alkyl ether		
	Color	White	White, Blue, Red, Green		
Remover	Туре	Remover A	Remover G		
neiilover	Major solvent	Ethyl alcohol	Ethyl alcohol, Ethylene glycol di-alkyl ether		

The specifications are subject to change for improvement without notice.

Integrated supplier of Non-Destructive Testing and Marking



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MARKTEC

CLEAR MARKING is PJ-1B from MARKTEC

PJ-1B the new Paint Marking Machine of MARKTEC offers a high quality marking at reasonable price. Optimum type can be selected from 3-types (0,1 and 2) of PJ-1B corresponding to the character size requirement.

Every unsatisfactory result of the IJP marking as less contrast, less weather/light resistance, low visibility of the character, hypersensitivity to the dusty condition of the machine, too much consumables and high maintenance can be solved with PJ-1B.

Machine Component

PJ-1B is composed of Marking Machine, Controller, Pump Unit and Special Tubes/Cables for components interconnection.

Marking Machine

Marking Machine is the device which actually discharges paint from 16 nozzles to indicate characters. Its weight is only 2.6kg, and is easy to adapt to the line facility.

Connecting cables/tubes can be easily adapted and removed beside the machine case with one-touch connectors.

Controller

It performs marking condition setting and controls Marking Machine and Pump Unit in accordance with the marking data transmitted from master computer.

Pump Unit

It pressurizes and supplies paint, remover and supplies air to Marking Machine.





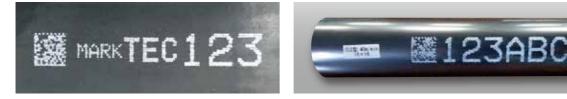
Controller (Back)

Pump Unit (Front)

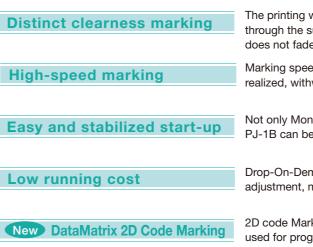


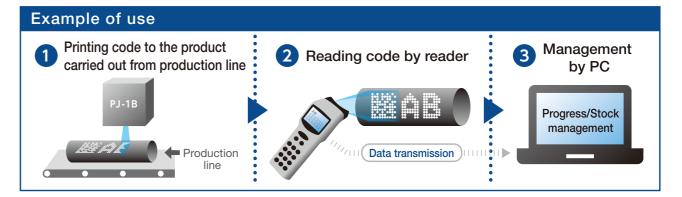
Pump Unit (Back)

Example of printing on steel plate and pipe using PJ-1B

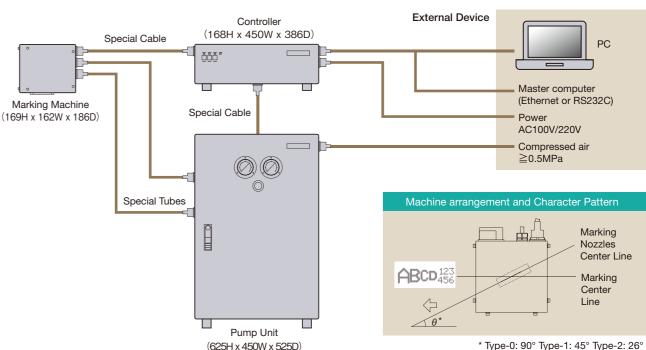








-System-connection and configuration





Marking Machine

The printing with special paint provides good contrast and does not show through the surface of the ground. It is also highly weather resistant and does not fade easily even outdoors.

Marking speed 276mpm with type-0 and 160mpm with type-2 can be realized, withwide character.

Not only Monday start-up but also the start-up after one week holidays, PJ-1B can be started up with simple operation.

Drop-On-Demand does not need excess paint nor thinner for proper adjustment, means low running cost.

2D code Marking has been implemented as a standard function. It can be used for progress control of production processes and inventory control.

* Type-0: 90° Type-1: 45° Type-2: 26°