Air Pen Marking Machine

VM1210A
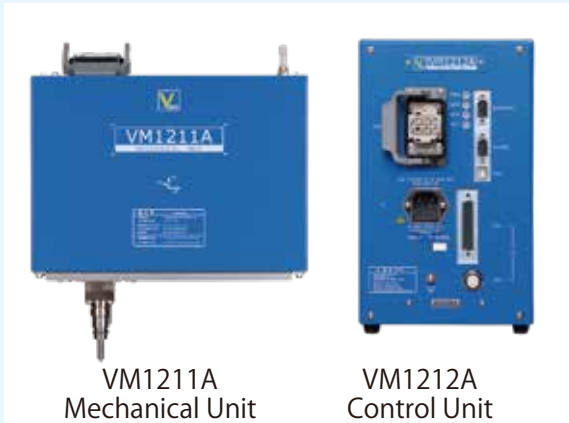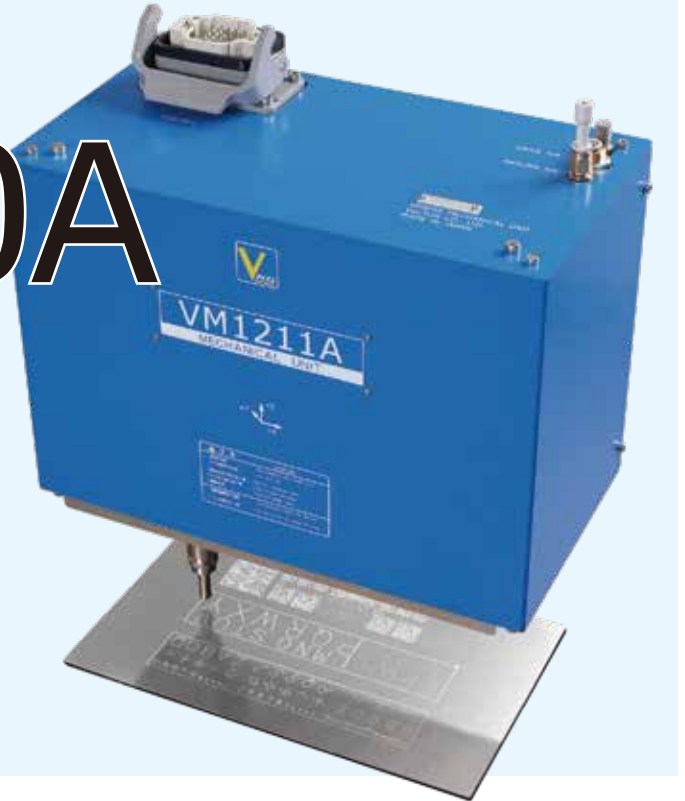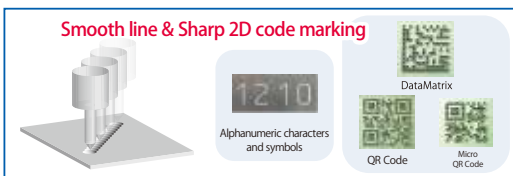
VM1211A
Mechanical Unit

VM1212A
Control Unit

VM1210A Air Pen Marking Machine delivers semi-permanent marking on a wide range of metals, including steel, stainless-steel and aluminum, as well as plastics and other nonmetallic metals. It is designed to handle marking needs for production management, quality assurance, product-liability countermeasures, ISO measures, distribution management and more.

Smooth line & Sharp 2D code marking

DataMatrix

Alphanumeric characters and symbols

QR Code

Micro QR Code

High-torque Motor

Button Battery (for memory)

· Making backup data
· Error history check

USB

· Sending marking parameters
· Sending special font data

Wide marking area : 160×30mm - Twice as large as VM1210

VM1210

VM1210A

x2

Smooth line & sharp dot marking

Compared to older models, VM1210A can mark more smooth line and sharp dots because of CPU speed enhancement, etc.

High reliability and maintainability

VM1211A can withstand high mechanical load by adopting high torque motor and renewed motor control system. Also, VM1212A achieves good maintainability by adopting button battery, etc.
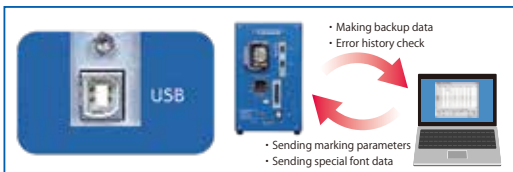
USB interface

Via USB interface, you can send marking parameters from PC to Marking Machine and make backup data used in Marking Machine on the PC.
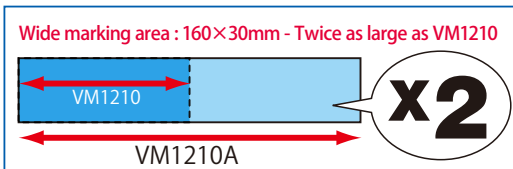
Wide marking area

VM1210A features wide marking area (160×30mm), twice as large as VM1210. Multiple texts and 2D codes can be marked on a large workpiece at a time without using external mechanism.

Specifications

Pen type	Air Pen
Marking range (X×Y)	160 ×30 mm
Pen stroke	Approx.9mm (Z-axis Marking Range: 6mm)
Marking speed	100~4000mm/min (in increments 100mm/min)
Available characters	Alphabet Uppercase 26 types / Lowercase 26 types / Symbol 18 types / Number 10 types
Character size (=height)	1~30 mm (in increments 0.1mm)
Font	3 types (Vector's original font)
Job registered number（J No.)	255 jobs (J1～J255)
Sequence registered number (S No.)	255 sequences (S1～S255)
String length	1~36 characters
Marking function	
- Increment	1~10 digits
- Calendar	Year. Month. Day. Hour. Minute. Second (E.g. 11. 02. 28. 12. 10. 16)
- Circular arc marking	Available
- 2D code	DataMatrix, QR Code, Micro QR Code
- Special character	Supported (by using PC software)
Interface	I/O (Parallel)：50pin, NPN/PNP connect / RS- 232C (Serial)：9pin / USB (for operation by PC)： USB B
Power supply	Single-phase AC100V~230V±10% 50 / 60 Hz, approx. 80VA
Air supply	0.3~0.5MPa, 40 L / min（A.N.R.) *1 / Dry clean air (below atomospheric dew point -17℃)
Environmental Condition	Operating temperature: 0~40 ℃ / Storage temperature: -5 ~ +50 ℃ / Relative humidity: 90%RH or less (no condensation)
Dimensions (W×H×D)	Mechanical Unit: approx. 284×213×153 mm *2 / Control Unit: approx. 180×294×269mm *3
Weight	Mechanical Unit: approx. 8.0Kg / Control Unit: approx. 4.6kg
Mounting orientation	Mechanical Unit: Gravity direction~holizontal direction / Control Unit: Vertical layout
Structure	Mechanical Unit - Control Unit separate type
Option	VM7884 Air Supply Unit / VM7834 Marking Stand (Mount) / VM1891 Operating Unit
Accessories	- Application Software (for Windows XP/7/8/8.1/10, CD-ROM) *4 / - Manual

*1   The rate varies according to character size, font and marking speed settings.
    For details, please consult our sales depertment.
*2   Pen units and connectors are not included.
*3   Connectors are not included.

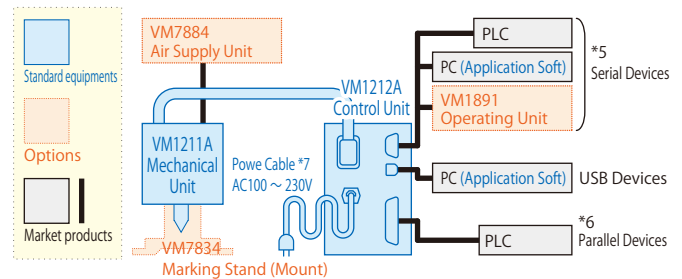■ Specifications and design are subject to modify without notice.
■ This product (incl. technologies) is a target of catch-all controls. Export of this product out of Japan may require permission of minister of economy, trade and industry pursuant to foreign exchange law.

External Dimensions (Unit: mm)
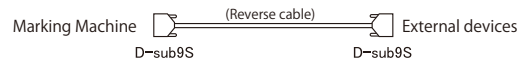
## VM1211A Mechanical Unit
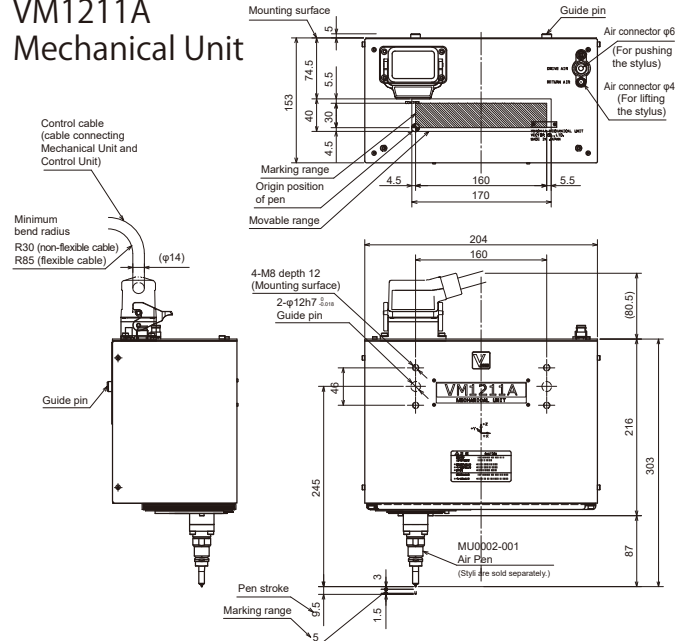
Block Diagram

*4   Windows XP, Windows 7, Windows 8, WIndows 8.1 and Windows 10 are either registered trademarks of Microsoft Corporation in United States and other countries.

*5   Spec. of serial (RS-232C) cable is as follows.
    Vector's VM7872 Cable (5m) meets the specifications.

    Marking Machine —(Reverse cable)— External devices
    D−sub9S   D−sub9S

*6   Spec. of parallel (I/O) cable is as follows.
    Vector's VM8679 Cable (5m) meets the specifications.

    Marking Machine —(50-conductor)— External devices
    D−sub 50P
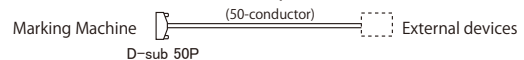
*7   Attached power cable is available in Japan only.
    To use the marking machine out of Japan, please use the compatible cable.