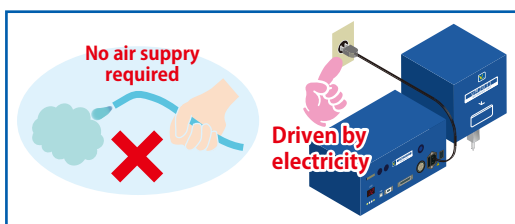## Ultrasonic Pen Marking Machine

VM2030

VM2031
Mechanical Unit

VM2032
Control Unit

*Marking Stand (a mount for the marking machine) is sold separatery

VM2030 Ultrasonic Pen Marking Machine delivers semi-permanent marking of characters and 2D codes on a wide range of metals, including steel, stainless-steel and aluminum, as well as plastics and other nonmetallic metals. VM2030 is useful for production management, quality assurance, product-liability countermeasures, ISO measures, distribution management and more.

No air suppry required
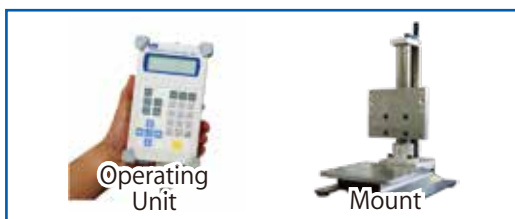
✗

Driven by electricity

No air supply required & Easy to install

The stylus of this machine is vibrated by electromagnetic force. No pneumatic power is required and installation of the machine is very easy.

Silent!

Low noise

Because the noise of ultrasonic pen marking is lower than that of air pen, this machine can be used in strict noise standard locations.

Operating Unit

Mount

Various options and extentions

We prepare not only main bodies of making machine, but many optional units such as handy operating unit (VM1891), styli of various angle, mounts, etc.
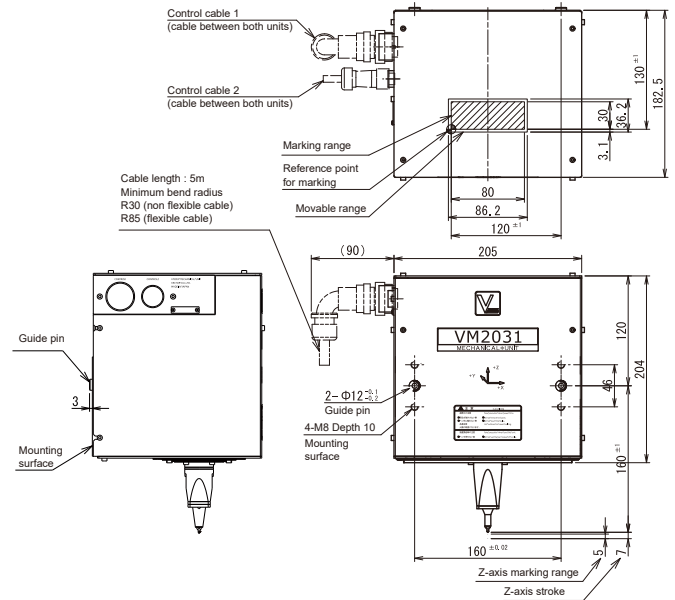
Specifications

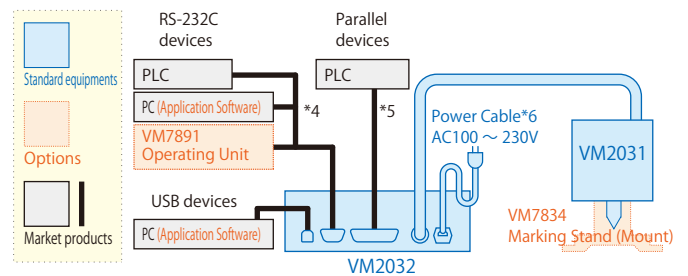|	
Pen type	Ultrasonic Pen
Marking range (X×Y)	80 ×30 mm
Pen stroke	Approx.7mm (Z-axis Marking Range: 5mm)
Marking speed	100~4000mm/min (in increments 100mm/min)
Available characters	Alphabet Uppercase 26 types / Lowercase 26 types / Symbol 18 types / Number 10 types
Character size (=height)	1~30 mm (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 2.0(for operation by PC)： USB B
Power supply	Single-phase AC100V~230V±10% 50 / 60 Hz, approx. 220VA
Air supply	Not used
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.205×204×182.5 mm *1 / Control Unit: approx. 297×120×247 mm *2
Weight	Mechanical Unit: approx. 5.2Kg / Control Unit: approx. 3.7kg
Mounting orientation	Mechanical Unit: Gravity direction~holizontal direction / Control Unit: Vertical/Holizontal layout
Structure	Mechanical Unit - Control Unit separate type
Option	VM7834 Marking Stand (Mount) / VM7891 Operating Unit
Accessories	- Application Software (for Windows XP/7/8/8.1/10, CD-ROM) *3 / - Manual

*1　Pen units and connectors are not included.
*2　Connectors are not included.
*3　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.

External Dimensions (Unit: mm)

VM2031 Mechanical Unit

Block Diagram

*4　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

*5　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

*6　Attached power cable is available in Japan only.
　　To use the marking machine out of Japan, please use the compatible cable.