# Air Pen Marking Machine
# VM2010
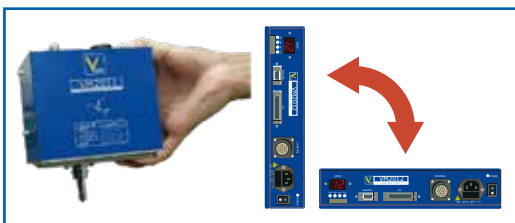
**VM2011**
**Mechanical Unit**

**VM2012**
**Control Unit**

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

VM2010 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.

## Mechanical Unit features light weight and small size / Control Unit can mount in vertical direction

The Mechancal Unit (VM2011) achieves a smaller size (Width 130mm/Height 114.5mm/Depth 92.5mm) and light weight (1.4kg). The Control Unit (VM2012) can be placed in both holizontal and vertical layouts. You can easily install these units in every place.

## Wide Marking Range - 50×20mm

The Marking Range of VM2010 is approx. 6.5 times as wide as our old compact model.

## Various options and extentions

You can connect a standatd commercial lubricator that can extend the meintenance interval. Also, you can operate any data by VM7891 Operating Unit and can add various options whenever you need.
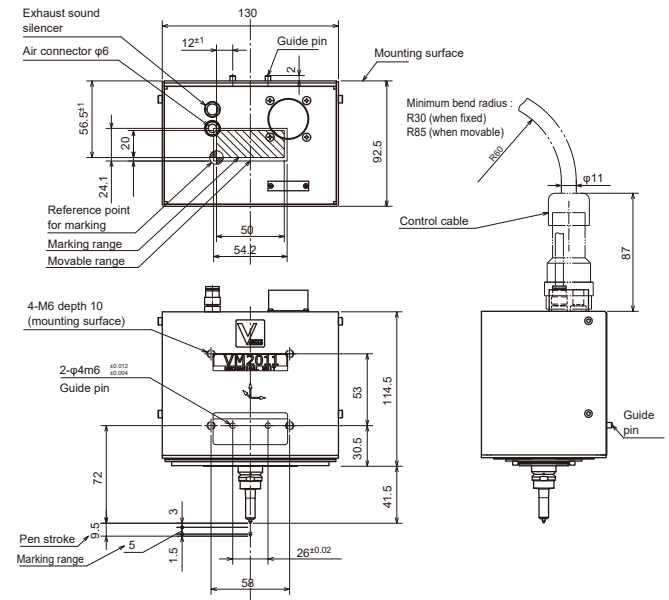
Lubricator    Operating Unit    Mount

## Specifications

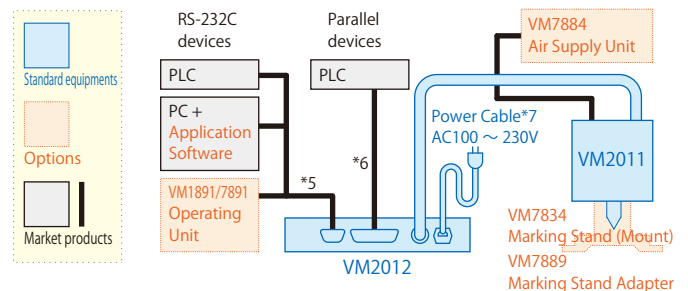| | |
|---|---|
| Pen type | Air Pen |
| Marking range (X×Y) | 50 ×20 mm |
| Pen stroke | Approx. 9.5mm（Z-axis Marking Range: 5mm） |
| Marking speed | 100~5000mm/min（in increments 100mm/min） |
| Available characters | Alphabet Uppercase 26 types<br>Lowercase 26 types<br>Symbol 18 types<br>Number 10 digits |
| Character size (= height) | 2 ~20 mm（in increments 0.1 mm） |
| Font | 3 types (Vector's original font) |
| Job registered number (J No.) | 15 Jobs（J1 ～J15 ） |
| String length | 1 ～36 characters |
| Marking function | |
| - Increment | 1 ～10 digits |
| - Calendar | Year. Month. Day. Hour. Minute. Second<br>（E.g. 09. 02. 28. 12. 10. 16 ） |
| - Circular arc marking | None |
| - 2D code | None |
| - Special character | Supported（ROM change） |
| Interface | I/O（Parallel）：25pin、NPN/PNP connect<br>RS- 232C（Serial）：9pin |
| Power suppry | Single-phase AC100V～240V±10%<br>50 / 60 Hz , approx. 95 VA |
| Air suppry | 0.3~0.5MPa, 40 L / min (A.N.R.) *1<br>Dry clean air（below atmospheric dew point -17℃） |
| Environmental condition | Operating temperature: 0 ～40 ℃<br>Storage temperature: −5 ～＋50 ℃<br>Relative humidity: 90 %RH or less(no condensation) |
| Dimensions（W×H×D ） | Mechanical Unit: approx.130 ×114.5 ×92.5 mm *2<br>Control Unit:approx.297 ×65 ×210 mm *3 |
| Weight | Mechanical Unit: approx. 1.4kg<br>Control Unit: approx. 1.9Kg |
| Mounting orientation | Mechanical Unit: Gravity direction~Holizontal direction<br>Control Unit: Vertical/Holizontal layout |
| Structure | Mechanical Unit - Control Unit separate type |
| Option | VM7884 Air Supply Unit<br>VM7834 Marking Stand (Mount)<br>VM7889 Adapter for Marking Stand<br>VM1891/7891 Operating Unit |
| Accessories | - Application Software<br>（for Windows XP/7, CD-ROM）*4<br>- 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.
*4 Windows XP and Windows 7 are a registered trademark of Microsoft Corporation
    in United States and other countries.

■ 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）



## Block Diagram



*5 Spec. of serial (RS-232C) cable is as follows.
    Vector's VM7822 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 VM7870 Cable (5m) meets the specifications.

Marking Machine ——（25-conductor）—— External devices
    D−sub25P

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