



# M SERIES PROGRAMMABLE STAMPERS

INDENTING



*Automotive Parts  
Castings/Forgings  
Engines &  
Transmissions  
Steel Plate  
Pipe & Tube  
Assembly Stations  
Test Stations*

## **Fully automated marking for today's fast-paced production lines.**

The M Series Programmable Stamper uses micro percussion technology to produce precise and permanent marks on a variety of materials while exerting minimal force on your parts. Micro percussion marking is a non-stressing technique for marking materials such as metals, plastics and wood.

The M Series Programmable Stamper operates virtually anywhere in the manufacturing process, including production environments not conducive to laser marking systems. It can be configured as a fully integrated part of a production line, as a portable unit, or as a stand-alone marking station. The small head profile allows for integration into production lines where space is at a premium. The sliding shutter system, common to all Pannier programmable stampers, protects the stamper from contaminants.

The stamper can operate autonomously or with an external PC. Up to 100 different marking files can be stored in the controller. The PC interface program allows for uploading, modifying and archiving of marking files, and for graphics (.plt) file input for marking logos.

## SPECIFICATIONS

Marking Window	M8/M8-IP: 3.1" x 2.0" (80mm x 50mm) M10: 5.1" x 3.9" (130mm x 100mm)
Display	2 line, 40 character LCD display
Interface	RS-232 serial port and I/O connection
Languages	English, French, German, Italian, Spanish
Electric Supply	90-260 VAC / 50-60 Hz, 40W
Air Supply	90 PSI maximum, clean and dry
Memory	512 KB maximum (100 marking files)
Fonts	21 standard fonts

Weights	Controller: 4.1 lbs M8/M10 Head: 15.5 lbs M8-IP Head: 22 lbs
Controller Dimensions	8.7"W x 7.1"T x 5.1"D
Head Dimensions	M8: 6.9"W x 9.7"T x 5.7"D M8-IP: 7.7"W x 12.2"T x 6.4"D M10: 9.0"W x 7.8"T x 7.6"D
Character Height	.06" to maximum of window size
Marking Resolution	250 dpi maximum (.004" to .079" dot spacing in increments of .004")
Surface Irregularity	0.48" (± 0.24")

The M Series Programmable Stamper's generous marking window and integration and networking capabilities make it an ideal marking system for today's high speed production environments. The stamper can mark text, date codes and serial numbers using your choice of 21 fonts, which includes 2D Data Matrix. The standard software allows the addition of plot (.plt) graphic files to marking files, and archiving of marking files.

### Integration Made Easy

Each model comes standard with the following integration capabilities:

- I/O port for remote actuation of the start and stop functions, with an output signal when the marking cycle is complete
- RS-232 serial interface for data input from remote sources or for connection to a PC
- Integrator Protocol function that allows creation and modification of marking files through serial communication
- Built-in 2D font for marking Data Matrix codes

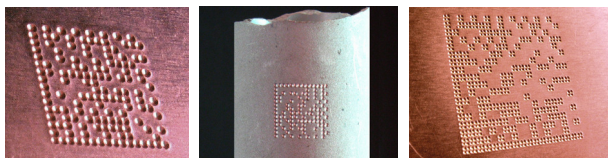
### Excellent Mark Quality

The stamper's marking stylus is guided on independent X and Y axes using high resolution stepper motors allowing 40 steps/mm. This ensures very accurate dot placement for the most consistent and legible characters and Data Matrix codes possible with a programmable stamper.

And mark quality won't diminish over time. Close tolerances on shafts and bearings result in precise dot control for high quality marks again and again.

### Long Life in the Manufacturing Environment

The M Series' superior design and construction ensure long life in even the most demanding conditions. The rigid aluminum box frame, shutter system, and interior exhaust protect the unit from harsh environments.



Data Matrix codes can be marked with 1, 4, or 9 dots per cell.

### MODEL M8

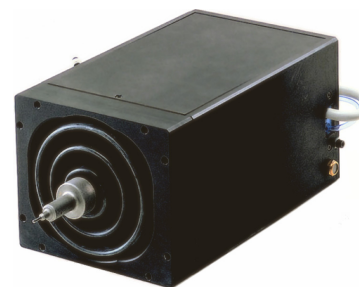
The base model consists of a marking head and control box connected with a standard 65-foot cable. The marking head can be mounted in any orientation as an integrated part of a production line or work center. The control box features a two-line scrolling LCD display for easy programming and marking file selection.



Actual Marking Window Size (80mm x 50mm)

### MODEL M8-IP

Extending the protection provided by our standard units, the M8-IP is fitted with an elastic boot and gasket to protect the unit in harsh manufacturing environments. This protection provides resistance to dirt and moisture in locations where other marking systems may fail.



### OPTIONS

- RS-485 connection and network management program kit for networking up to 32 stampers from one PC
- Bar code reader connection kit for direct input of bar code data
- Reporting function to record parameters of each completed marking job
- Custom interface programming
- Remote control with start/stop pushbuttons and ready/cycle indicator lights
- Columns, bases, and fixtures for stand-alone or portable use

### FIXTURING & SUPPORTS

Have a part marking challenge? Pannier has standard fixtures and supports for marking various shapes and sizes. Pannier also designs and manufactures custom fixtures to tackle any part marking need.

## PANNIER CORPORATION

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