

# MARKS PRYOR

MARKING TECHNOLOGY

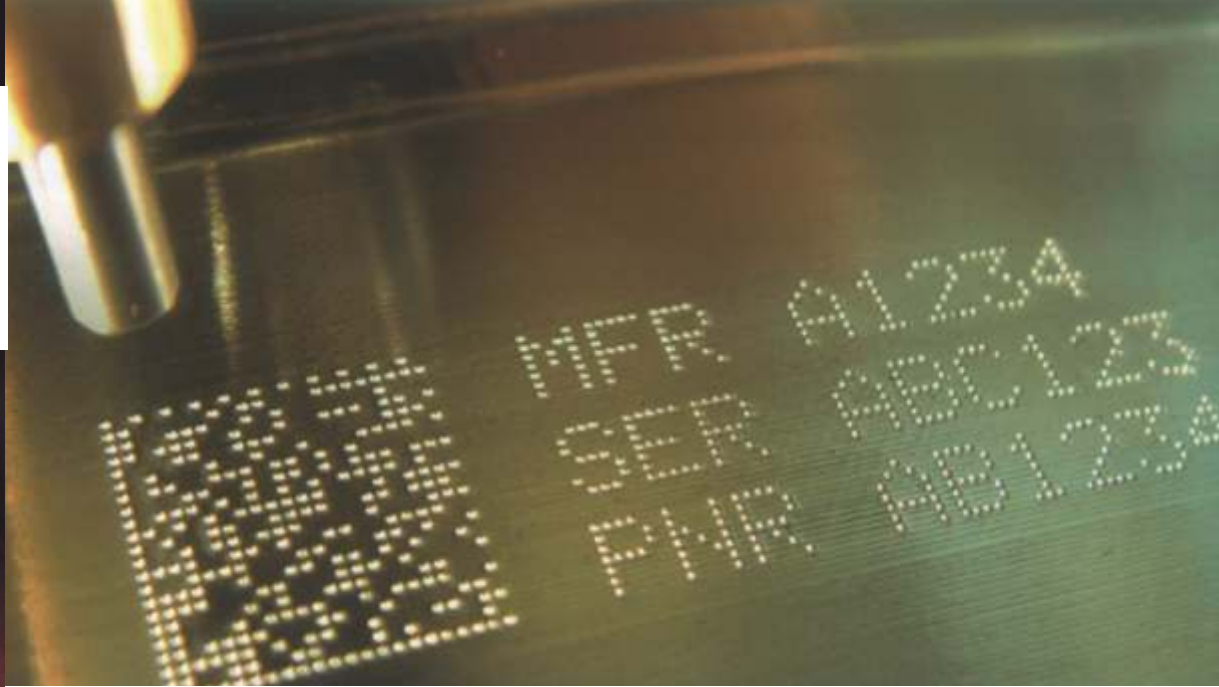
**Dedicated  
Industrial  
Coding Engineers**

**Turnkey Integrated  
Solutions**

**Expert Technical  
Support**

**Global Coverage**

**Vision Solutions**



INTELLIGENT MARKING SOLUTIONS

# 2-D DataMatrix

## Machine Readable Identification

Permanent Direct Part Marking technology bringing machine-readable identification codes into industrial manufacturing environments.

Pryor Marking Technology is able to combine the technologies of Direct Part Marking and Machine Vision to produce a totally integrated 2-D DataMatrix solution.

### Benefits of Direct Part Marking with DataMatrix:

- Unique, permanent component identification
- In-service tracking of parts
- Work-in-progress tracking
- Effective Supply Chain Management
- Deter counterfeiting
- Increased security of data
- Variable data range
- Elimination of human Transcription errors



*DataMatrix is an approved technology within aerospace and is also used in other industries.*

[www.markspryor.com](http://www.markspryor.com)

# Technical Specification

## What is a 2-D DataMatrix Code?

- A two-dimensional, (2-D) machine-readable code capable of a higher data capacity than a standard 1-D linear barcode
- A public domain code and a recognised international standard (BS ISO16022)
- An approved code for use within Aerospace (ATA Spec2000) and ISO/IEC 15434)

## Why use a 2-D DataMatrix Code?

- Considerably more information can be stored in a smaller area
- Automatic data acquisition/transfer with high accuracy and reliability
- Elimination of human transcription errors through use of automatic data collection

## Where is a 2-D DataMatrix Code used?

DataMatrix is used in many industries including:

- Aerospace
- Automotive
- Medical / Pharmaceutical
- Electronics
- General Engineering
- Retail

## How can a 2-D DataMatrix Code be marked?

- Controlled Dot-Peen
- Laser
- Electro-chemical etching
- Ink-jet
- Printing

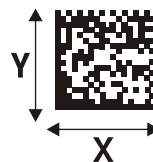
## Typical Size Comparison Between 1-D and 2-D Codes

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1-D Linear Barcode

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2-D DataMatrix Code

- Increased data capacity
- Adjustable matrix size
- Square or rectangular format

## Services and Areas of Expertise

- Industrial and standard bar coding for metals, plastics, ceramics, rubber, paper and other materials
- 2-D codes including dot matrix symbologies
- Marking equipment including indenting, embossing, electro-chemical etching, laser (Co2 and Nd:YAG), precision controlled dot-peening, ink-jet and others
- Consultancy, research and evaluation
- Advice on ATA Spec2000 & ISO/IEC15434 requirements

**MARKS  
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MARKING TECHNOLOGY

AN ISO 9001-2008  
COMPANY



QAC / R81 / 1520

**MARKS PRYOR MARKING TECHNOLOGY PVT. LTD.**

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