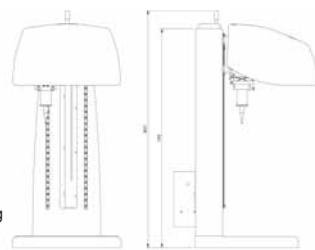# PRYOR
### MARKING TECHNOLOGY

## Technical Specifications
(For more technical details please see our website)

**Weight:**  *Marking head/table/column:* 34kg  *Controller:* 10kg

**Electrical Supply:**  220v 50Hz, 110v 60Hz

**Marking Area:**  60x60mm / 100x100mm / 150x150mm / 300x150mm

Max. stylus pin to base distance is 415mm (Using 50mm stylus)

## Options/accessories

**Stylus options:**
Solid carbide stylii, with 50, 100 & 150mm lengths and tip angles of 60, 90 & 120 degrees as standard. All stylii are available with sharp tips for standard set-ups or with custom radius to minimise stress on materials and comply with IAQG standards.  Other types & sizes can be made to order if required.

**Circumferential (Rotary) axis:**
Rotary attachment to allow marking around shafts, tubes and other circular components.

**Automatic tag/plate feeder:**
Electric or pneumatic fixture for automatically loading, clamping, marking and ejecting name plates and labels.

**Standard Label Fixture:**
Simple manually operated label fixturing.

**Magnetic Bed Fixture:**
Manually activated magnetic base plate, for holding ferrous items.

**Data Matrix readers and verifiers:**
hand held, modular or station readers and verifiers complying to all established standards of data matrix coding

**Bar-code reader:**
For retrieving marking information or commands from bar-codes.  Directly connected to 3000 controller on embedded systems or PC when using MarkMaster™.

**Cold colour foil feeder:**
For high contrast coloured marking on plastics & other suitable materials

**T-slotted tables:**
Extruded or machined aluminium T-slotted base

**TCP/IP Ethernet connection:**
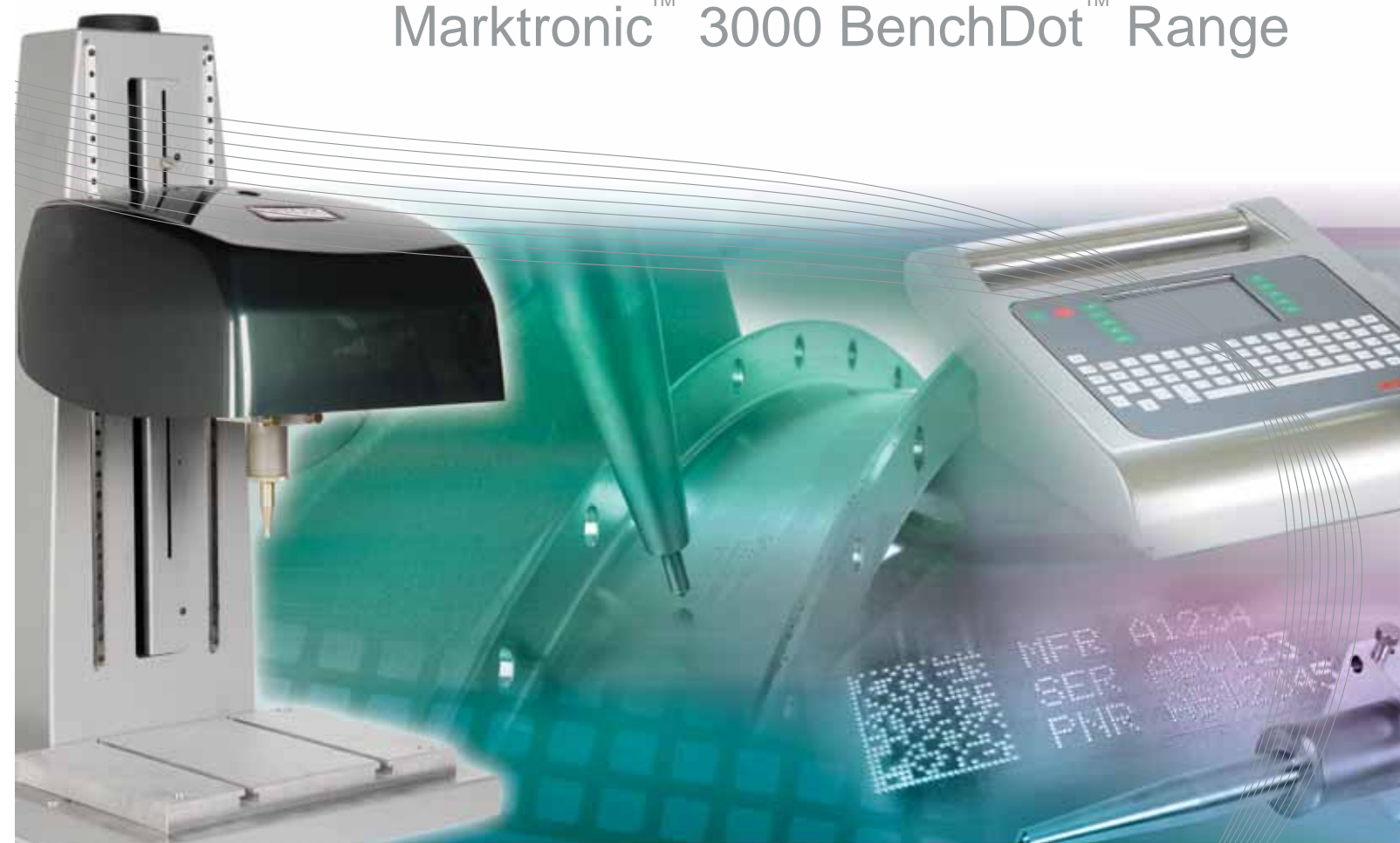10 BASE-T Ethernet port for connection to networks & PLC systems over long distances.

**MarkMaster™ Windows® software:**
MarkMaster™ Advanced Windows® software (see inside)

**Customised solutions:**
Pryor have extensive mechanical and software resources dedicated to custom marking and traceability

### Also available from Pryor Marking Technology:

PortaDot™ Series | InDot™/InScribe™ Series | Laser Series | Electro-Chemical Etch Series | Manual and Press Marking

## Marktronic™ 3000 BenchDot™ Range

*Pryor provide a single source of supply for marking products, services and support. Manufacturers of a complete portfolio of marking goods, Pryor's success is built on providing solutions for all types of marking applications ranging from those requiring only a simple hand operated punch through to fully integrated computer controlled turnkey marking systems. Supported by a network of distributors worldwide, Pryor offer a total commitment to quality and service.*

**The difference is Pryor knowledge**

# www.pryormarking.com

MADE IN SHEFFIELD

## Marktronic™ Bench-Top Dot Marking Range
BenchDot 60-60E / BenchDot 100-100E / BenchDot 150-150E / BenchDot 300-150E
BenchDot 60-60EZA / BenchDot 100-100EZA / BenchDot 150-150EZA / BenchDot 300-150EZA
BenchDot 100-100EZAV / BenchDot 150-150EZAV / BenchDot 300-150EZAV
BenchDot 60-60DP / BenchDot 100-100DP / BenchDot 150-150DP / BenchDot 300-150DP

SPEC2000

UID

intelligent marking solutions

**PRYOR**
MARKING TECHNOLOGY

### Marktonic™ BenchDot™ Range

BenchDot™ series are robust dot marking machines designed for accuracy, speed, power and reliability. All models include a high quality ball screw mechanism with unique twin linear rails and twin linear bearings on each axis and a rigid cast column and base.

### Wide range of marking windows

BenchDot™ series are available with standard marking windows of 60x60mm, 100x100mm, 150x150mm and 300x150mm.

### BenchDot™ E series: Electromagnetic dot marking

- Runs on standard mains current – no air supply required
- High consistency of marking depth
- Fully controlled number of dots per character and dot location
- Quieter than pneumatically operated machines

**Models:**
60-60E    100-100E    150-150E    300-150E

Data matrix code using BenchDot™ series machine

### BenchDot™ EZA series: Electromagnetic dot marking, digital Z axis with AutoSense™

- Based on "E" series
- Powered programmable Z digital axis (marking head height adjustment)
- AutoSense™ system allowing self adjustment to variation of part batch height with the best precision, repeatability and consistency (especially well suited to Data Matrix marking)
- Mark different part levels with no manual adjustment

**Models:**
60-60EZA    100-100EZA    150-150EZA    300-150EZA

AutoSense™ Unit

### BenchDot™ EZAV series: Electromagnetic dot marking, digital Z axis, AutoSense™ and VeriSmart™

- Based on "EZA" series
- Integrated in-process Data Matrix verification system (VeriSmart™)
- International standards: AS9132, JES131, AIM-DPM-Guideline, MIL-STD-130, ISO15434, ISO16022
- 5 mega-pixel sensor allows the verification of a wide range of codes
- Mark2Verify™ Windows© software provides simple traffic light feedback to the operator, verification results and advanced features

**Models:**
100-100EZAV    150-150EZAV    300-150EZAV

Traffic light feeback screen in Mark2Verify™

### BenchDot™ DP series: Deep Pneumatic dot marking

- Pneumatic very deep marking: up to 1.5 mm in mild steel

**Models:**
60-60 DP    100-100DP    150-150DP    300-150DP

Deep mark with BenchDot™ DP series machine

### Dot Marking Technology

Dot marking creates the mark by indenting a series of dots into materials to form alphanumeric characters, logos or 2D Data Matrix codes.

### Marking software features

- Multilingual user interface
- Straight, angled, arc & reverse marking
- Programmable character height and width: 0.15mm to 99.9mm in increments of 0.15mm
- Adjustable marking force (marking depth)
- Basic range of machine fonts (5x7, 7x9, Varidot + OCR versions) on embedded systems and full range of installed True Type fonts available in MarkMaster™ PC Systems)
- Time and Date marking in various formats
- Variable and serial number marking
- Data Matrix coding
- Vector graphics & logos (.plt file format on embedded systems and .plt & .dxf on MarkMaster™ PC Software)

### Applications

- Permanently mark almost all engineering materials up to 62 HRc (cast iron, stainless steel, aluminium and titanium alloys, plastics…)
- Serial numbers, date codes, product reference, company logo, shift code, material batch…
- Identify small to large batches of components
- Marking on flat to uneven surfaces
- Circumferential marking device available (see options)

### 3000 Controller and interface

- No need for a PC
- Full Qwerty membrane keyboard (possibility of external keyboard)
- Very large and high contrast graphical screen allowing easy programming & previewing of marks
- Up to 1350 layouts (files)
- 2 x RS232 communication port
- Digital I/O (8 Input, 6 Output)
- Ethernet TCP/IP (optional)
- Vector graphics/logo import facility (.plt/.hpgl)

### MarkMaster™ PC software (Optional)

Optional Windows© based software. PC connected to 3000 controller
Among extensive features:
- Drag and drop graphical interface
- Advanced trial run
- Graphics tools
- Vector graphic/logo import facility (.hpgl/.plt & .dxf)

### MarkMaster™ Advanced (Optional)

- Supports all Windows true type fonts
- Database connectivity for marking data queries
- Database connectivity for duplicate data checking
- Security Password features
- Data logging for marking report generation

3000 series controller

User interface in MarkMaster™ (Advanced) software

Mark using rotary axis and BenchDot™ series machine

Marks Using BenchDot™ with 3000 Controller

BenchDot™ systems are extremely versatile with the ability to mark almost any shape part