![Monode MARKING PRODUCTS, INC.]

# BenchScribe



# BenchScribe

Convert standard BenchDot machines to scribe mark on parts. Choose between diamond or carbide tipped stylus.

### Applications Include:
- Programmable Marking • Component Identification • Component Traceability • Serial Numbering
- Logo Marking • Security Marking • Health & Safety Appliance Marking • Certification Marking
- Decorative Trophy & Award Marking • Time & Date Marking • Part Numbering
- Batch & Shift Coding • Calibration Systems • Label & Tag Marking

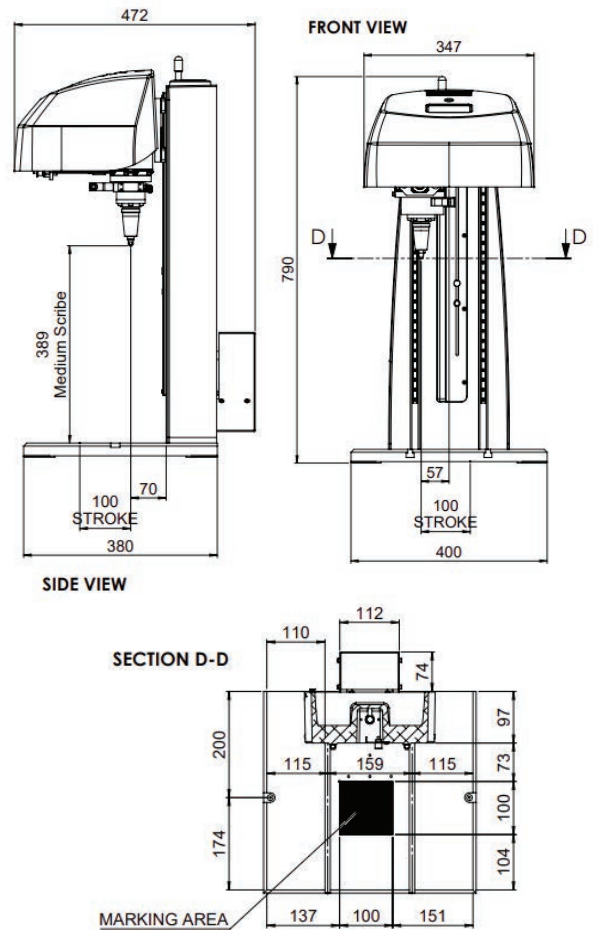intelligent marking solutions

# TECHNICAL SPECIFICATIONS

## BenchScribe

| | |
|---|---|
| **Marking Area** | 100mm x 100mm (standard)<br>150mm x 150mm (optional)<br>300mm x 150mm (optional) |
| **Dimensions** | W: 400mm, H: 790mm, D:433mm<br>With digital z-axis(optional) W: 400mm, H: 790mm, D:471mm<br>Note: 300 x 150 head cover is wider than the base W: 515mm |
| **Supply Requirements** | 240V 50Hz / 100V 60Hz<br>6 bar (87psi) non-lubricated, dry |
| **Weight** | >40kg depending on size and options |
| **Operating Temp.** | 0°C-80°C (32°F-176°F) |
| **Nosepiece & Stylus** | Diamond-tipped or tungsten carbide stylus, 110º |
| **Marking Type** | 5 x 7, 7 x 9, Varidot, HPGL, BMP Logos |
| **Construction** | Cast aluminum column and base, metal internals and plastic cover |
| **Workpiece hardness** | Max. 62 HRC (800HV) |
| **Controller** | 4000 |
| **Character Sizes** | 0.15mm-99.9mm in 0.15mm increments (standard)<br>0.15mm-150mm in 0.15mm increments (optional)<br>0.15mm-300mm in 0.15mm increments (optional) |

BenchScribe 100-100



## Features

- 4000 Embedded Controller
- Pneumatically driven scribe marking
- 110º, diamond-tipped or tungsten carbide stylus
- Flat, machined base for easy fixture mounting
- Ball-screw mechanism ensures high precision
- Motorised z-axis to allow quick and simple setup

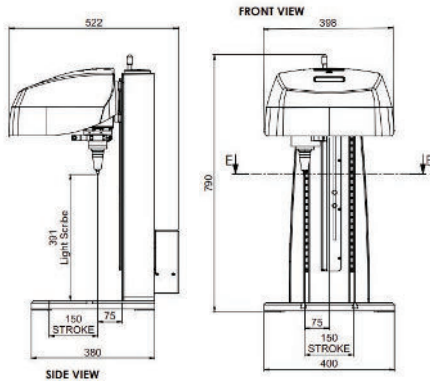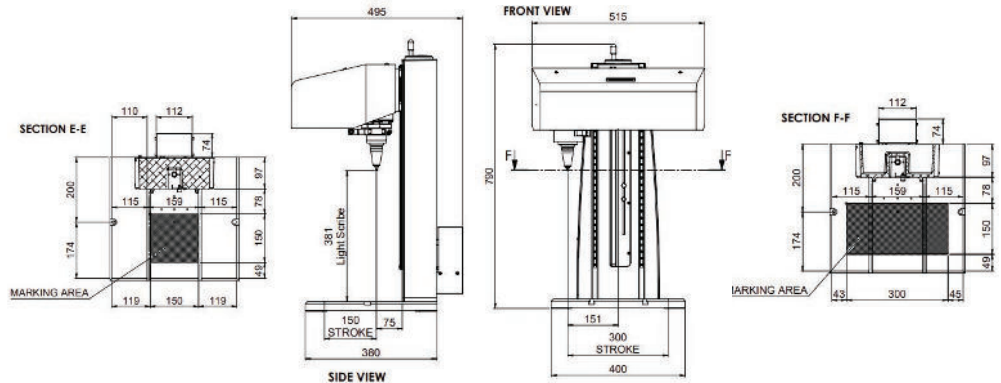| COMPATIBLE ACCESSORIES | DESCRIPTION | PRODUCT CODE |
|---|---|---|
| **T-slotted Base - Extruded** | For attaching fixtures to the base; extruded aluminum 45mm pitch | ACCBDTB01 |
| **Single Label Fixture** | For right angled labels/parts 35-100mm x 20-75mm x .05-2.0mm | ACCBDFX |

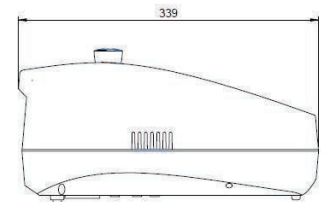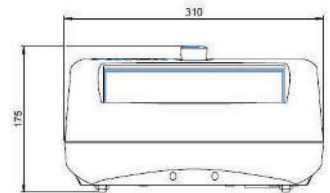| OPTIONAL VERSIONS | BENEFITS / REQUIREMENTS | OPTION CODE |
|---|---|---|
| **150 x 150mm marking area** | Larger marking head for increased markable area | MCYBS1515E |
| **300 X 150mm marking area** | Larger marking head for increased markable area | MCYBS3015E |
| **PC-based Software** | Drag and drop editor, user admin rights, connectivity | OPTM2019A |
| **Column Extension - 110mm** | Increases column height and mox component height by 110mm | OPTBDCE110 |
| **Column Extension - 200mm** | Increases column height and mox component height by 200mm | OPTBDCE200 |
| **Integrated Camera** | Verification of mark quality; requires PC and software<br>Automatic alignment of mark against existing features | OPTVISRS/VS<br>OPTVISMS |

BenchScribe 150-150

BenchScribe 300-150



# TECHNICAL SPECIFICATIONS

| 4000 Embedded Controller | |
|---|---|
| **Dimensions** | W: 310mm, H: 175mm D:339mm |
| **Supply Requirements:**<br>**Standard**<br>**Optional** | 240V 50HZ / 100V 60HZ<br>36V 3.0AH LI-Ion battery, or External power supply |
| **Weight** | 5kg |
| **Screen** | 10.4" resistive touchscreen - can be used with gloves |
| **Operating Temp.** | 0°C-80°C (32°F-176°F) |
| **Marking Type** | 5 x 7, 7 x 9, Varidot, Angled, Arc, Logos, Data Matrix, Serial Numbers, Reverse Marking, Variables, etc. |
| **Languages** | English, German, French, Italian, Spanish, Portuguese, Swedish, Finnish, Russian, Polish, Czech, Dutch, Chinese |
| **Connections:**<br>**Standard**<br>**Optional** | X-Y Axis Control, USB-A, USB-B, RS232, Start/Stop Box,<br>External E-Stop, Z-C Axis Control, TCP/IP Ethernet, Anybus |



## Embedded Features

- USB type A, USB type B and RS232 ports, for connecting to optional USB drive, barcode scanner, USB keyboard and PC. Firmware updates via USB drive.
- 2 axis control (X-Y marking directions), with robust high power motor drivers
- Live view of layout during jogging/drag and drop repositioning of layout.
- Duplicate check of last 100 marks within 1 of 5 different logs of marks.
- Data logging to .csv file on USB stick or internal memory
- Animated demonstrations of common functions
- Password security for all menu items
- Built in emergency stop

**Monode**
## MARKING PRODUCTS, INC.

*Quality Marking Equipment with Integrated Machine Vision Solutions*