

## BMP-1 / BMP-1-S / BMP-3



MG-Products B.V.  
Rijkevoortsedijk 27A  
5447 BD, Rijkevoort (NL)  
Phone: +31 (0)485 382 133  
www: [www.designedfortest.com](http://www.designedfortest.com)  
E-mail: [Info@designedfortest.com](mailto:Info@designedfortest.com)

**Mechanical**

Recommended Travel: .050 (1.27)  
Full Travel: .062 (1.57)  
Direction of Rotation: Counter clock wise  
Scribed Diameter: .050 (1.27)  
Special diameters available.

**Spring Force in oz. (grams)**

	Preload	Rec. Travel
Standard	4.41 (125)	5.19 (147)

**Electrical (Static Conditions)**

Current Rating: 50 mA  
Voltage Rating: 15VDC  
Recommended Duty Cycle: 1 sec. On (min.)  
5 sec. Off

**Materials and Finishes**

Plunger Tip: Carbide  
Receptacle: Stainless Steel

**Mounting**

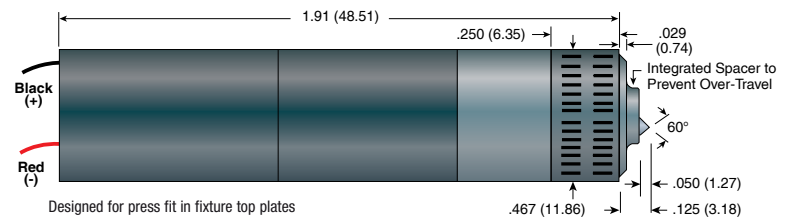
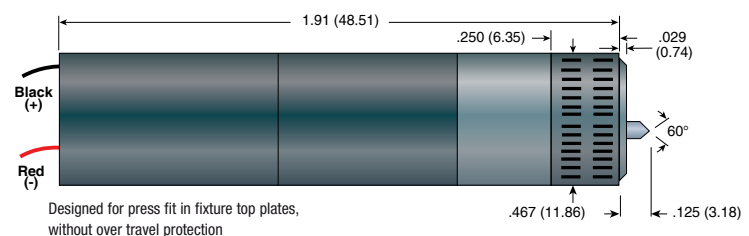
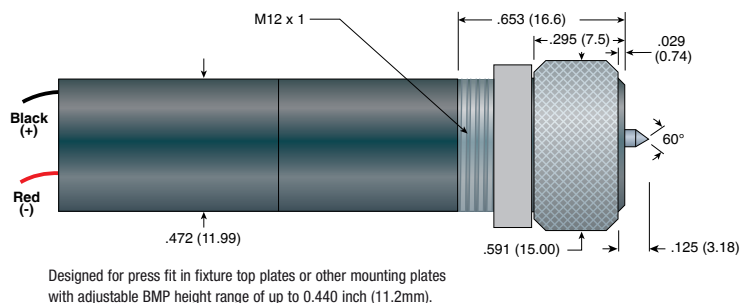
BMP-1 / BMP-1-S  
Hole diameter: Ø .468 (11.89)  
Suggested drill: 15/32 (in.) or 11.90 mm  
BMP-3  
Hole diameter: Ø .610 (15.50)  
Suggested drill: 39/64 (in.) or 15.50 mm

**Order Number**

Board Marker: BMP-1  
BMP-1-S  
BMP-3  
Spare Receptacle: BMR-1  
BMR-3  
Replacement Tip: BMT-1

**Tools**

Insertion tool for BMR-1: RIT-BMP  
Extraction tool for BMR-1: EXT-BMP

**BMP-1****BMP-1-S****BMP-3****Applications**

The BMP Board Marker Probe patented design is for installation on bare board or loaded board test fixtures. When your tester is equipped with the appropriate electronics and software, the BMP scribes a permanent .050" circle on every "passed" PCB or device tested. Boards that fail the test are not marked. The risk of human error is eliminated in PCB testing and sorting.

The unit requires less than .500" of fixture area. It is designed to mark board areas of bare glass (FR4), solder mask over glass or copper, or bare tinned copper.

The BMP includes a mounting receptacle and a motor/transmission assembly. It can be easily removed from the receptacle for use in other fixtures. Spare receptacles and tip replacement assemblies are available. The thread between receptacle and housing is 7/16-20 UNF.

**Application Examples**

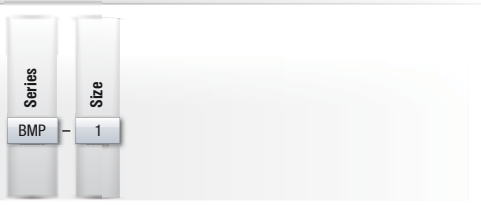
- Bare Board Test
- Loaded Board Test
- Connector / Wire Harness

**Benefits**

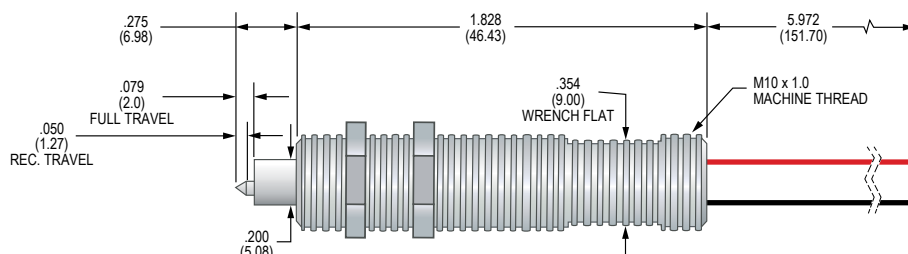
- Hands Free Operation
- No Hazardous Consumables
- Durable
- > 50,000 Cycles before Tip Replacement
- Easy to Fixture

**Features**

- Permanent Mark
- Controllable Mark Intensity
- Driven by Test Program
- MicroGrain Carbide Tip
- Replaceable Tip



## BMP-4

**Mechanical**

Recommended Travel:	.050 (1.27)
Full Travel:	.079 (2.00)
Direction of Rotation:	Counter clock wise
Scribed Diameter:	.050 (1.27)

**Spring Force in oz. (grams)**

	Preload	Rec. Travel
Standard	2.43 (68.9)	5.0 (141.7)

**Electrical (Static Conditions)**

Current Rating:	20 mA
Voltage Rating:	12VDC
Recommended Duty Cycle:	2 sec. On (min.) 3 sec. Off

**Materials and Finishes**

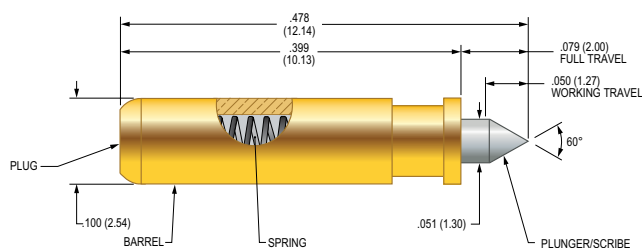
Plunger Tip:	Carbide
Receptacle:	Stainless Steel

**Mounting**

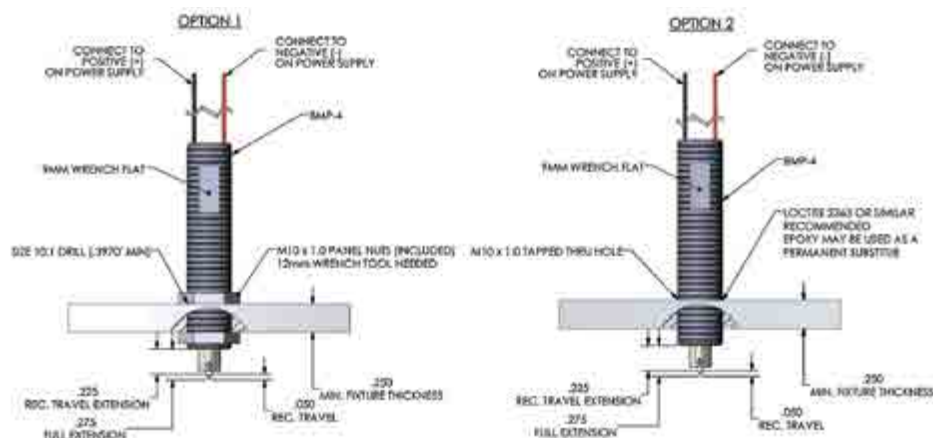
	BMP-4
Hole diameter:	Ø .398 (10.1) or M10 x 1.0 threaded hole

**Order Number**

Board Marker:	BMP-4
Replacement Tip kit:	BMT-4



BMT-4

**Mounting Options**

Dimensions in inches (millimeters). Specifications subject to change without notice.  
Consult factory for other temperature requirements, and applications below -40°C.  
Stocking Disclaimer: Stocking levels for part numbers listed in this catalog are subject to change.  
Availability is based on current levels of usage and demand.

# BMP-5



MG-Products B.V.  
 Rijkevoortsedijk 27A  
 5447 BD, Rijkevoort (NL)  
 Phone: +31 (0)485 382 133  
 www: [www: www.designedfortest.com](http://www.designedfortest.com)  
 E-mail: [Info@designedfortest.com](mailto:Info@designedfortest.com)

## Mechanical

Recommended Travel: .050 (1.27)  
 Full Travel: .079 (2.00)  
 Direction of Rotation: Counter clock wise  
 Scribed Diameter: .050 (1.27)

## Spring Force in oz. (grams)

	Preload	Rec. Travel
Standard	2.43 (68.9)	5.0 (141.7)

## Electrical (Static Conditions)

Current Rating: 20 mA  
 Voltage Rating: 12VDC  
 Recommended Duty Cycle: 2 sec. On (min.)  
 3 sec. Off

## Materials and Finishes

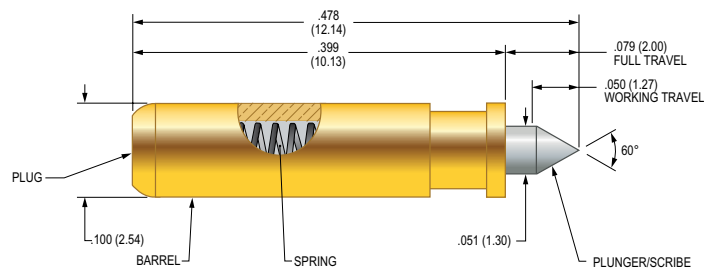
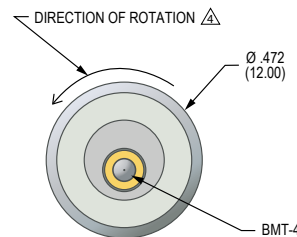
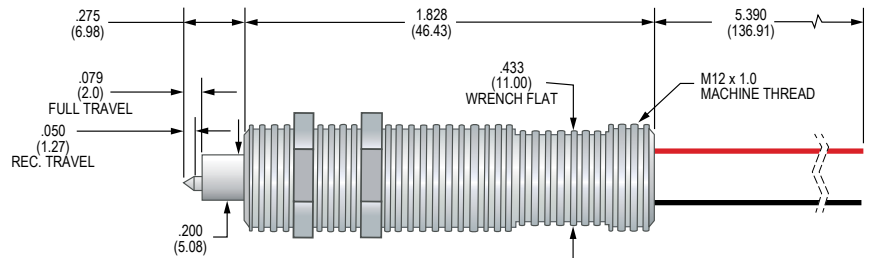
Plunger Tip: Carbide  
 Receptacle: Stainless Steel

## Mounting

Hole diameter: BMP-5  
 Ø .472 (12.1)  
 or M12 x 1.0 threaded hole

## Order Number

Board Marker: BMP-5  
 Replacement Tip kit: BMT-4



## Mounting Options

