



PMA-1000 Probe Material Analyzer

The ChemInstruments PMA-1000 Probe Material Analyzer is a versatile, user-friendly, carefully designed instrument that allows you to characterize various materials including viscoelastic polymers, adhesives and compounds through the insertion, dwell, and retraction of custom probe sensors.

Characteristics of the Probe Material Analyzer:

- Selectable testing speeds from 0.02 to 75 inches per minute (0.5 to 190 mm/m)
- Over 9 inches of available probe travel distance
- User-selectable data acquisition area
- Control speed, dwell and travel distance parameters
- Measures in tensile and compression simultaneously
- Separate speed control for all three test parameters (insertion, dwell, & retraction)
- 10 lb load cell standard
- Operating temperature 0 to 70 Celsius
- **Warning! Equipment needs to be completely free of condensation inside and out, before applying power!**

- Determine insertion test parameter by force or distance
- Current test status and data collection constantly displayed
- Measures in; kilograms, grams, newtons, pounds and ounces
- Automatic overload protection
- Preset jog speed of 15 inches per minute (38.1 cm/m)
- Automatic return to test start position
- Probes and fixtures not included.

EZ-Lab Included:

Remote operation control and enhanced data collection are possible with the EZ-Lab System. Requires external PC. See EZ-Lab System product sheet.

Dimensions (approx.)

Height	22" (56cm)
Width:	14" (36cm)
Depth:	18" (48.7cm)
Weight:	55 lbs. (25 Kg)

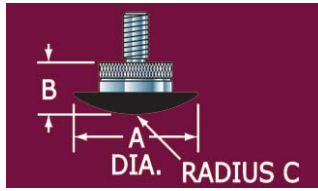
Options

- Probes
- Sample Fixture.
- Heated Fixture
- Load cells 2, 5 & 25 lb

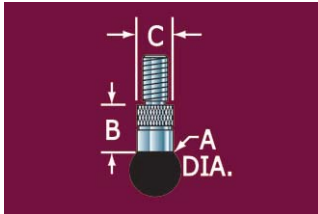
•240 VAC

PMA-1000 Probes

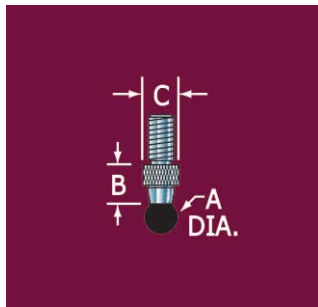
PMA-1000 Probes



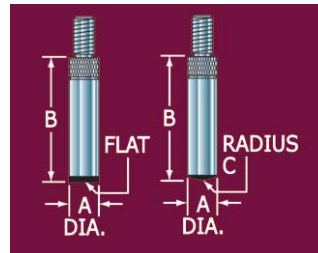
A Diameter	B Length	C Radius	Order Number
.250"	.250"	.250"	310
.375"	.156"	.437"	306
.500"	.187"	.562"	311
.625"	.187"	.813"	316
.750"	.218"	1.00"	319



.125"	.250"	.187"	405
.1875"	.250"	.187"	407
.250"	.250"	.218"	409
.3125"	.250"	.250"	411
.375"	.312"	.205"	412
.437"	.343"	.250"	413
.500"	.375"	.250"	414

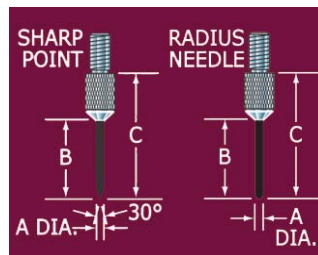


3mm	.250"	.187"	400-3
4mm	.250"	.187"	400-4
5mm	.250"	.187"	400-5
6mm	.250"	.218"	400-6
7mm	.250"	.234"	400-7
8mm	.250"	.250"	400-8
9mm	.312"	.250"	400-9
10mm	.312"	.250"	400-10
11mm	.343"	.250"	400-11
12mm	.343"	.250"	400-12



.187"	.750"	.187"	808
.187"	.750"	.187"	308
.250"	.250"	Flat	361
.375"	.156"	Flat	358
.500"	.187"	Flat	317
.625"	.187"	Flat	365

A Diameter	B Length	C Length	Order Number
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.060"	.500"	.800"	525&526
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A Diameter	B Length	Order Number
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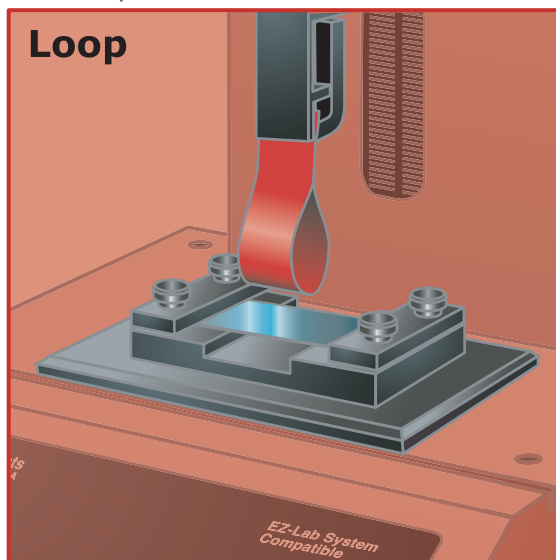


.750"	.218"	366
1.000"	.218"	367

PMA-1000 Fixtures

The ChemInstruments PMA-1000 Probe Material Analyzer's versatility allows multiple test to be performed with the addition of the optional test fixtures.

Adding the PMA-LTF loop tack fixture allows you to perform standard loop tack tests meeting the ASTM, TLMI, and FINAT test method standards. Custom loop tack tests become possible with the versatile controls of the speed, dwell, distance, and force provided in the PMA-1000 software.

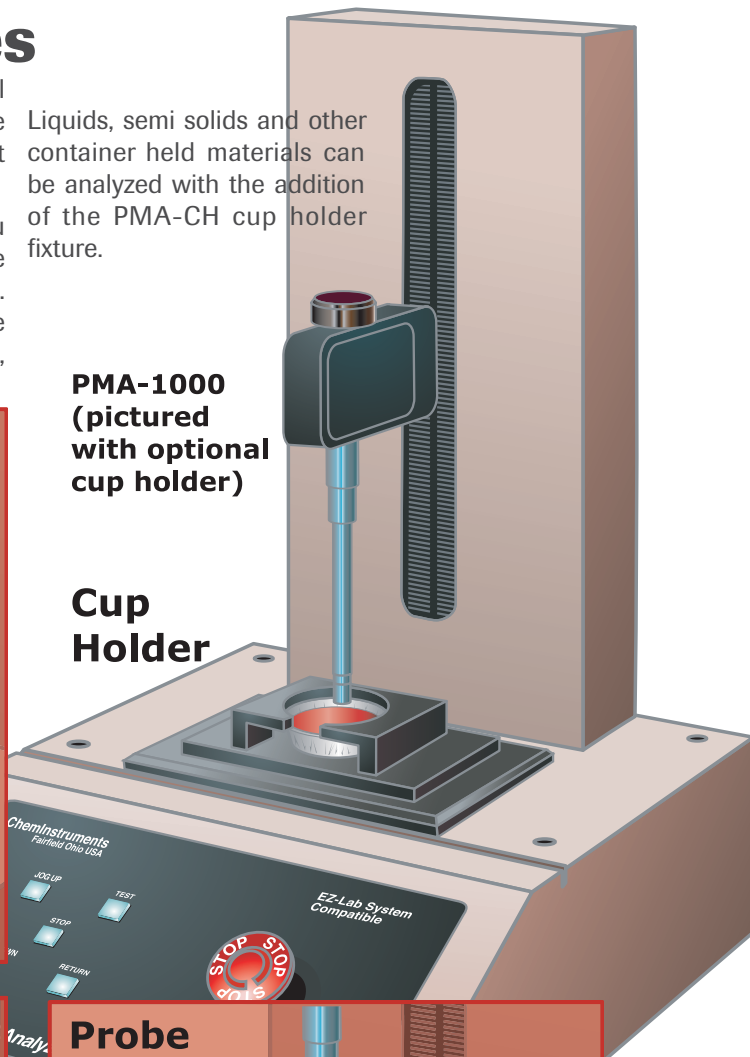


Loop

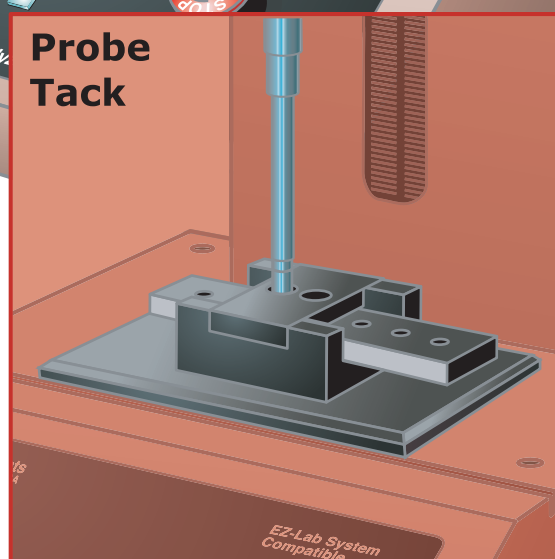
Liquids, semi solids and other container held materials can be analyzed with the addition of the PMA-CH cup holder fixture.

**PMA-1000
(pictured
with optional
cup holder)**

**Cup
Holder**



**90°
Peel**



**Probe
Tack**

Conventional 90 degree peel and release test are easily performed with the ChemInstruments PMA-PF 90 peel fixture. Test methods such as PSTC's 101 F and numerous others are easily performed on your PMA-1000 with the addition of the PMA-PF 90 peel fixture.

Adding the PMA-PT probe fixture provides the ability to perform the conventional ASTM D2979 probe tack test. You are also able to do non-conventional probe tack test with this unique test fixture that has both an unbacked and backed sample station.