

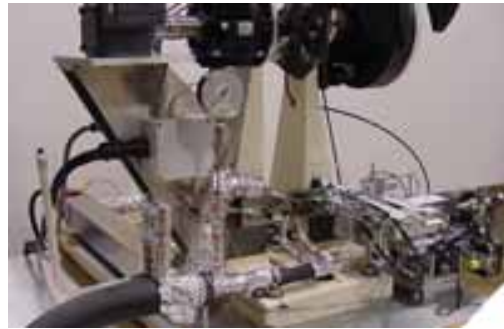
## In-Situ Heating & Cooling

# INTRODUCTION

MPM's patented In-situ Heating & Cooling System may be added to impact test machines (both pendulum and drop tower) for controlling the temperature of test specimens. The advantage of this technology is that test specimens are thermally conditioned right up to the moment of impact. Another advantage is that the test specimen can be more accurately centered prior to testing. The system replaces the practice of using external thermal baths.



*MPM In-situ Heating & Cooling - Large Capacity Machine Installation (U-Hammer)*



*MPM In-situ Heating & Cooling - Tabletop Machine Installation (C-Hammer)*

# SYSTEM FEATURES

The features of the system are given below:

- Test specimen temperatures from -190°C to 260°C (with the standard system)
- Test specimen temperatures up to 1000°C with add-on module to standard system
- The centering tool provides a factor of two improvement over the conventional approach of using tongs with a thermal bath transfer approach
- The requirement for rapid transfer of the specimen from a thermal bath is eliminated
- Full system includes:
  - supports and anvils
  - temperature control console with four thermocouple readouts

2161 Sandy Drive

State College, PA 16803-2283

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

USA

Office (814) 234-8860

FAX (814) 234-0248



- centering tool
- calibration specimen instrumented with thermocouples
- user friendly software stores calibration data and provides temperature set points
- hardware/software manual

---

## **FOR MORE INFORMATION**

If you would like a price quotation or additional information concerning MPM's services or products, please contact us at the below listed address:

Address:	<b>MPM Technologies, Inc.</b> 2161 Sandy Drive State College, PA 16803
Individual:	Dr. Michael P. Manahan, Sr.
Phone:	814-234-8860 (extension 121)
FAX:	814-234-0248
Website:	<a href="http://www.MPMTechnologies.com">www.MPMTechnologies.com</a>
Email:	<a href="mailto:MPManahan@MPMTechnologies.com">MPManahan@MPMTechnologies.com</a>

2161 Sandy Drive

State College, PA 16803-2283

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

USA

*Office (814) 234-8860*

*FAX (814) 234-0248*