

## MPS-1D Series

### Magnetic Probe Stations for Testing in in-plane fields

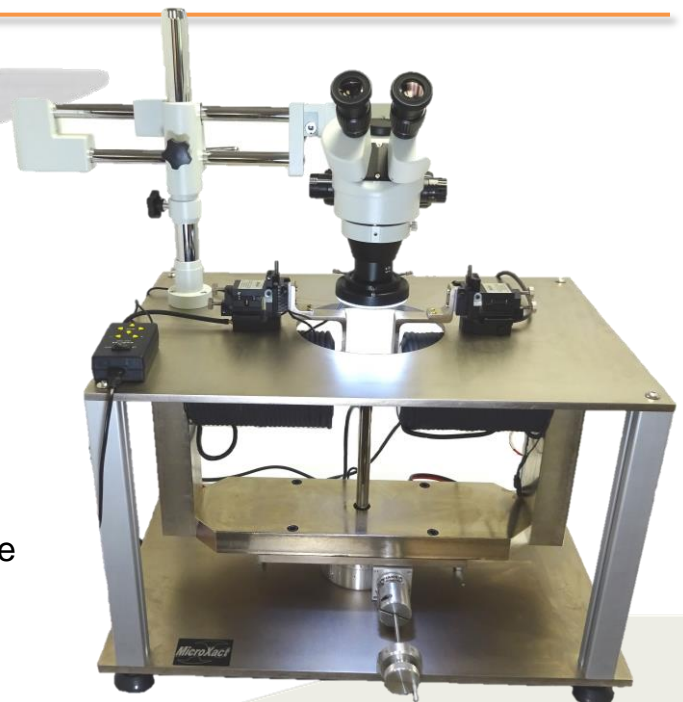
Data Sheet

**microXact, inc.**

*The MPS-1D systems are entry-level probe stations capable of DC or RF testing. The system achieves an arbitrarily oriented in-plane magnetic field by rotating the C-magnet around the sample and probes. MicroXact's unique design enables stable, accurate and fast testing of spintronic devices, nanoscale electronics and many other materials and devices where magnetic fields are required for test and measurement.*

## Features

- Arbitrary orientation of in-plane magnetic field with respect to sample orientation.
- Up to 0.6T field strength available.
- Up to 50mm diameter samples.
- Wide range of microscopes available
- Capable of DC or RF probing
- Optional Hall sensor for active magnetic field feedback control.
- 1% field uniformity over the sample area
- Large platen for holding up to 10 vacuum base micropositioners
- Optional thermal testing capability
- Optional environmental or dark shield enclosure
- Highly customizable per customer needs



# Specifications

## Chuck

Sample size  
Number of vacuum zones

Up to 50mm\*  
1 standard

## Magnetic Field

Field Orientation  
Maximum  
Orientation Accuracy  
Uniformity across 20mm diameter area  
Stability

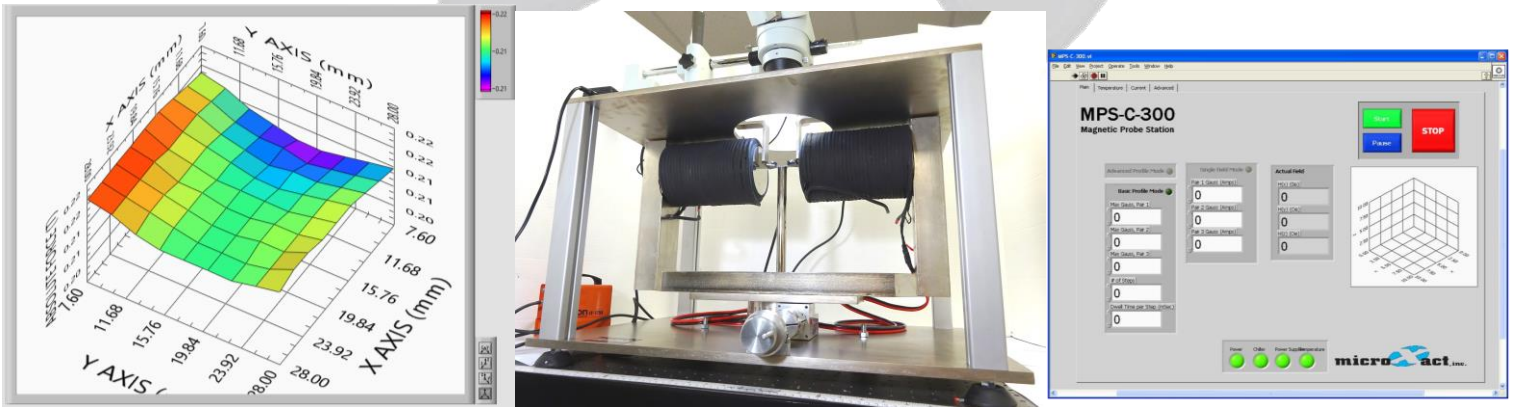
Arbitrary in-plane  
3kOe (0.3T) or 6kOe (0.6T)  
+/-1.0°  
+/- 2%  
Better than 1%

## Microscope

Trinocular or digital  
microscopes available

## Frequency Range

DC to 67GHz (Higher frequency measurements  
are available)



Magnetic field uniformity in the sample position

System control software

## MPS-1D

[www.microxact.com](http://www.microxact.com)  
Phone: 540-394-4040  
Fax: 1-866-588-0908