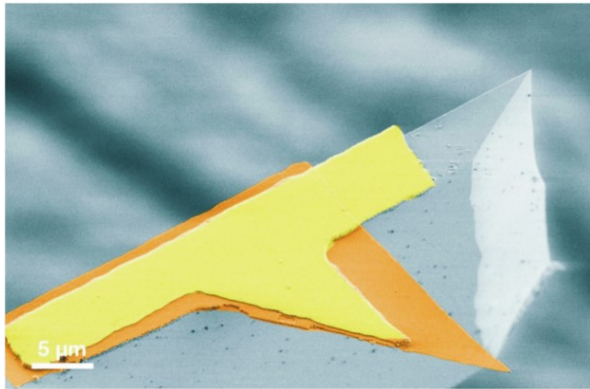


## MEMS Solution for SmartTip

### High Resolution MFM Probe



### Product description

The CC-35-M magnetic force probe, developed by the SMI group of the MESA+ Institute for Nanotechnology, has been specifically designed for high resolution magnetic imaging. The magnetic tip shape and high Q-factor enable imaging of magnetic features < 25 nm. It is the ideal tool to image magnetic data storage media and heads. The high shape anisotropy of the magnetic coating allows imaging of high coercivity magnetic materials.

### Ideal Tip Shape

The etched silicon cantilever carries a SiN tip plane. The magnetic coating is of this plane. Thus the closest approximation of the ideal magnetic bar shape is achieved. Patent pending.

### Product specifications

- Resonant Frequency 50-80 kHz
- Magnetic Coating Co based
- Reflective Coating Al
- Cantilever Si
- Tip Plane SiN
  
- Cantilever
  - Length 320 μm
  - Width 50 μm
  - Thickness 4 - 5 μm
  
- Tip Plane
  - Length 20 μm
  - Thickness 35 nm
  - Orientation Corrected for tilt angle  
Perpendicular to sample



### SmartTip BV

SmartTip BV is specialized in the design and production of special purposes SPM probes. Our mission is to provide corporate and academic laboratories research with "Smart" probes for innovative Scanning Probe Application.

If we cannot serve you with one of our "standard" probe solutions, we can design and engineer a solution for you.

SmartTip BV is a spin-off of the MESA+ Institute for Nanotechnology at the University of Twente in the Netherlands.

We build on its extensive experience and innovation in Scanning Probe Microscopy. Our location next to MESA+'s up-to-date Cleanroom and analysis labs guarantees the production of high quality, reproducible and reliable probes.

[www.smarttip.nl](http://www.smarttip.nl)

Read more on <https://mems.lionix-international.com>

## ● LIONIX INTERNATIONAL

### LioniX International

LioniX International is a leading global provider of customized microsystem solutions in scalable production volumes.

We provide customized solutions for OEM's and System Integrators, from design to fully assembled modules, by vertical integration and in scalable production volumes. We maintain our technology leadership secured by a strong IP position.

LioniX International core competences are in Photonic Integrated Circuits (PIC), customized MEMS, and opto-fluidics.

Our chips drive your business

#### LioniX International

PO Box 456

7500 AL Enschede

The Netherlands

Email: [info@lionix-int.com](mailto:info@lionix-int.com)

Phone: +31 53 20 30 053

[www.lionix-international.com](http://www.lionix-international.com)



[www.lionix-international.com](http://www.lionix-international.com)