



## Custom Probe Development and Fabrication

Revolution NMR complements the high performance standard born probe line provided by our partner company, PhoenixNMR, with design and fabrication services for custom solid state wide bore NMR probes. In addition to unique products including our collaboration with Prof. Eric Munson of Purdue University on a new version of the Multi-Sample Solids (MSS) probe and our collaboration with Dr. Robert Tycko of the National Institutes of Health on his cryogenic MAS probe, Revolution can supply a wide range of standard and custom solid state NMR probes incorporating Revolution's unique compact spinning modules.



Shown here is a 500 MHz 7.5mm HXY probe intended exclusively for high pressure high temperature (HPHT) studies. This probe was recently delivered to Dr. Jerry Hu of the University of California Santa Barbara. The Vespel spinning module provides a temperature range of -150C to 250C to take full advantage of the performance of the HPHT rotor technology licensed exclusively to Revolution NMR by Battelle Pacific Northwest National Laboratory. The system also includes a custom VT stack, 7.5mm HPHT rotors and rotor handling tools.

**Please contact us to discuss your probe design and fabrication requirements**

## Revolution NMR, LLC



Equipment you trust  
from people you know



Shown here is a wideline probe developed for Prof. Robert Schurko at the University of Windsor. The probe includes 3 RF channels and is designed for operation over a temperature range from  $<20^{\circ}\text{K}$  to  $250^{\circ}\text{C}$ . The 5mm sample coil is designed to accommodate high pulsed RF power.



Revolution NMR is currently collaborating with Professor Philip Grandinetti of Ohio State University to develop a next-generation dynamic angle spinning (DAS) probe. The new design will have a novel module positioning mechanism for improved speed and accuracy as well as redesigned RF circuitry for high frequency operation and higher spinning speed. We plan to have a commercial version of the probe available in 2020.