

Syrma Technology Successfully Produces Miniature Coil Used for Measurement of Plasma Magnetic Fields at Princeton Lab

Chennai India; October 9, 2008: Syrma Technology has successfully produced a miniature magnetic coil product that creates the critical pick-up sensor in a probe that measures the magnetic field between two plasma streams as part of the Magnetic Reconnection Experiment (MRX) at the Princeton Plasma Physics Lab (PPPL). Earlier versions of the probe and pick-up sensor coils were built in the PPPL laboratory, but the MRX research team sought outside manufacturers with the capability to produce such a small size precision magnetic coil in higher volumes. They turned to Syrma technology as Syrma demonstrated the ability to meet the specifications with many years of experience producing precision coils for the demanding requirements of the disk drive industry, and for a myriad of other electronic / magnetic applications.

The MRX experiment, where the probes are used, studies the fundamental physics of magnetic reconnection, the results of which will advance the fundamental understanding of solar physics, astrophysics, magnetospheric physics, and fusion energy research. New coils will be assembled in to a probe array that is inserted into the plasma stream in the MRX to measure the magnetic reconnection phenomena between the plasma flows. Additional information about these experiments can be found at the MRX website (<http://mrx.pppl.gov/>).

The coil sensor pick-up measures just 1/15 inch in diameter and uses a very fine gage (0.0016 inch) enameled copper wire that is wound around a fine core (1/32 inch in diameter) special thermoplastic bobbin that is electrically and magnetically non-conductive. Syrma technology successfully overcame the challenges in making the small plastic bobbins that have wall thickness of the order of 0.008 inches and in using the fine wire to fabricate the precision coils to the critical requirements.

Syrma is a leading global manufacturer of precision coils, who can custom manufacture coils in almost any shape, size and tolerance. Our advanced coil winding manufacturing facilities include capability to custom wind coils using coils of wire gauge from 4 to 52 awg. These are produced on state of the art CNC coil winding machines in a clean room environment. Syrma's precision coils find application in:

- Hard Disk / Optical / Removable Disk Drives
- Smart Cards
- Sensors
- Inductors / Transformers

“This success demonstrates the strength of our engineering team to overcome the challenges of designing the product and the production processes to produce such a small size coil, to the level tight tolerances requested,” said Jaideep Tandon, CEO of Syrma Technology, “We are excited to be chosen by the PPPL team, and proven capable of supporting their advanced plasma physics research projects.”

About Syrma Technology

Syrma Technology (www.syrmatech.com), a Tandon Group company, provides global OEM's unique opportunities to reduce product development costs and deliver globally competitive manufacturing services through leveraging Syrma's contract engineering and manufacturing services. Syrma has a 30 year legacy of creating innovative electronics manufacturing and fulfillment solutions for global end markets, and to enable OEM's to grow their presence in the rapidly expanding India market. We specialize in collaborative design (CDM) and electronic manufacturing services of med/high mix and flexible volume electronic products, RFID tags and magnetic products, for branded OEM customers in the Industrial, Medical, Telecommunications, and Defense sectors.

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