



Filament Manufacture

A core part of our business is the manufacture and repair of filaments for mass spectrometers. Since 1978 we have been the leader in providing quality filaments for mass spectrometers. We have repaired hundreds of different types of filaments and this experience has been used to design and develop new filaments for a variety of instrument manufacturers.



- *Experienced Personnel*
- *Custom Fixtures and Tooling*
- *Precision Assembly Equipment*
- *Prototypes to production*

Design and Manufacture of Filaments

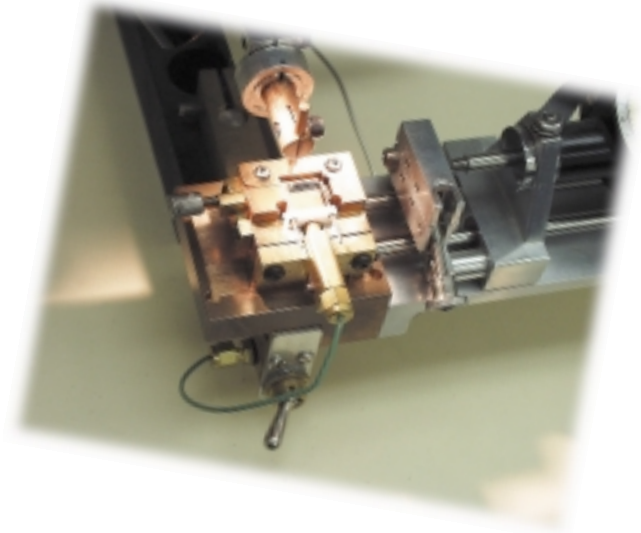
SIS manufactures a wide variety of filaments from many different materials. Materials such as tungsten, rhenium, platinum and others are routinely formed into coils and other shapes for use as filaments. These filaments are then accurately welded to various assemblies.



Precision spotwelders are combined with custom designed and manufactured electrodes and fixtures to maintain accuracy and precision on all the filaments we manufacture. Microscopes are mounted over many of our spotwelders to provide additional accuracy. In some cases video systems are utilized to assure accurate manufacture of our filaments.



These tools combined with the most experienced personnel in filament manufacture insure quality filaments from prototypes to production quantities of 10,000 or more per year.



Quality Assurance is the over riding aspect of all that we do. From design and manufacturing, to assembly and packaging, quality is built in to every part that we manufacture and assemble. Optical measurement systems, lasers, microscopes and other equipment are used to assure that you get the parts that you need.

