

## APTECH NOW OFFERS A REBUILD SERVICE FOR FEG TYPE SOURCES!

The rebuilding process covers several steps:

- Disassemble and inspect all parts, apertures, and ceramic/metal bonds.
- Polish and clean individual parts as needed.
- Remove and replace the emitter with new FEI Schottky emitter.
- Install emitter in suppressor to original geometrical specifications or to measurements taken during inspection.
- Install and align emitter into pre-aligned gun module.
- Evacuate refurbished FEG module, bake, and outgas system.
- High voltage condition gun module and flange.
- Obtain new filament I(V) data.
- Turn on source, stabilize emission, and record extraction voltages for several angular intensity values.
- Record all data on source rebuild sheet to be sent with refurbished FEG.



Example of one FEG rebuild style.

Our facilities include clean room for all module work and we use state-of-the-art alignment techniques for all source, suppressor, and extractor positions. Testing is done under exacting conditions and a full data sheet is supplied with each rebuilt FEG refurbished.

Parts that are broken or in need of replacement will be evaluated on a case by case basis.

PLEASE CONTACT APPLIED PHYSICS TECHNOLOGIES AT  
**APTSALES@A-P-TECH.COM** FOR MORE INFORMATION OR TO REQUEST AN RMA TO  
SUBMIT YOUR FEG MODULE FOR EVALUATION AND REBUILD.