

## xtronix AT-cut Crystal Quality Control Checklist

Look at various AT-cut crystals and they all seem to look alike. Not so! Here's a checklist of strict, self-imposed quality guidelines that have helped establish **xtronix** as a key source of the most consistent, reliable, and accurate AT-cut crystals in the industry.



### ✓ Adhesion

Using a strict regimen of materials and procedures, **xtronix** Quality Quartz Crystals are vacuum-coated using optimum formulas, temperatures, and durations.

### ✓ Finish

Cultivated and cleaved using only the highest quality control procedures, **xtronix**'s AT-cut Quality Quartz Crystals feature a surface roughness two points below the industry standard. Surface roughness has proven to cause more frequent misreading and to negatively impact QCM sensitivity and performance.

### ✓ Cut

Cut with consistent standards, **xtronix** Quality Quartz Crystals are manufactured and cut using the perfect blend of selectivity and technique. Improperly cut crystals can cause premature shear wave decay and Q-factor instability. Inconsistently cut crystals produce unreliable readings and unpredictable failure rates.

### ✓ Electrode Configuration & Integration

A team of skilled technicians uses a proprietary electrode application method that improves product consistency and facilitates less "noisy" readings. Consistency of results and crystal-life predictability are what distinguish a superior crystal from an inferior crystal.

### ✓ Narrow Differentiation of Frequency

Another factor contributing to greater product consistency, **xtronix** AT-cut Quality Quartz Crystals come with a tighter frequency window than other crystal manufacturers.

## The CryoLab MSG for 75 Kelvin

NEW

"The CryoLab MSG is a very promising technology for cooling of high-Tc SQUIDs in practical applications."

Ass. Prof. A. Kalaboukhov  
Chalmers University of Technology, Sweden



### Controlled, simple and fast cryogenic measurements

The plug-n-play tabletop CryoLab is designed to perform rapid SQUID (or other) sample characterization measurements from ambient temperature down to cryogenics in a fully automated manner.

Doing such measurements does not require any experience or know-how on cryogenics, vacuum technology or thermodynamics from the user.

The CryoLAB system can be used to perform measurements for various applications including:

- ✚ SQUID characterization
- ✚ Superconducting films
- ✚ Material characterization measurements
- ✚ Seebeck coefficient

➔ We also cater to applications requiring temperatures down to 4 K ◀