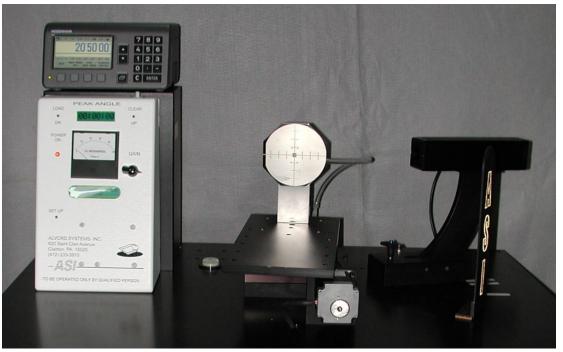


# ASI

ALVORD SYSTEMS, INC. 620 St. Clair Avenue Clairton, PA 15025 (412) 233-3910 FAX: (412) 233-4991 www.Alvordsystems.com

# Low Energy X-ray Custom Fixtures Precision measurements +/- 5 Arc Sec Automated Peak detection or Manual Applications (Production Floor measurements/ QA inspections)

# Crystal Diffraction Goniometer X-RAY SYSTEM



## **Model 45 Automation**



A crystal sample is mounted on the goniometer and rotated about an axis while being irradiated or illuminated by a monochromatic X-ray beam generated by an additional crystal called the reference or collimating crystal used to provide a highly directional beam, with a high level of resolution, accuracy and repeatability achieved.

Computer control provides full control over angular position and rotation of the goniometer as well as real-time feedback from the detection circuitry. By utilizing the computer and specialized software, multiple and simultaneously measurements of the goniometer position and detector output can be obtained. Serial data output via USB. Employing this type of computer diffraction system allows for resolution accuracy of ±5 arc seconds.



The Model M45 is a single operator precision X-ray diffraction system for cores, slabs, and ingots, designed to provide years of accurate and reliable service in today's high-tech production environment.

### **Model 45 Manual**



#### **Custom Enclosures**



Manual scan with Analog display provides basic diffraction capabilities for lower production applications while maintaining the high level of resolution, accuracy and repeatability

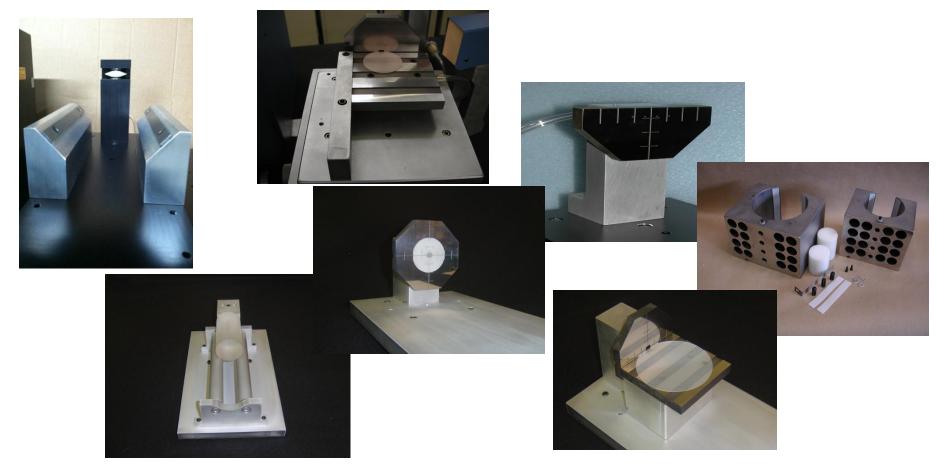


Alvord Systems M45 System Provides the Technology for Integrating Crystal Diffraction

Measurements into Your Production Process

# **Model 45 Fixtures**





Flexibility for X-Ray Diffraction Measurements on Production and Final Crystal Products

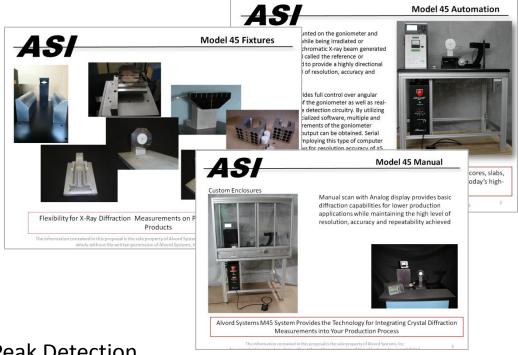


# **ALVORD SYSTEMS INC.**

#### **Custom Design & Assembling of X-ray Diffraction Systems**

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## Custom Design

- Automated Scanning and Peak Detection
- Operational Flexibility Production / QA Applications
- Precision Diffraction Measurements +/- 5 Arc Sec

Alvord Systems Provides the Technology and Flexibility for Crystal X-Ray Orientation within your Production Process