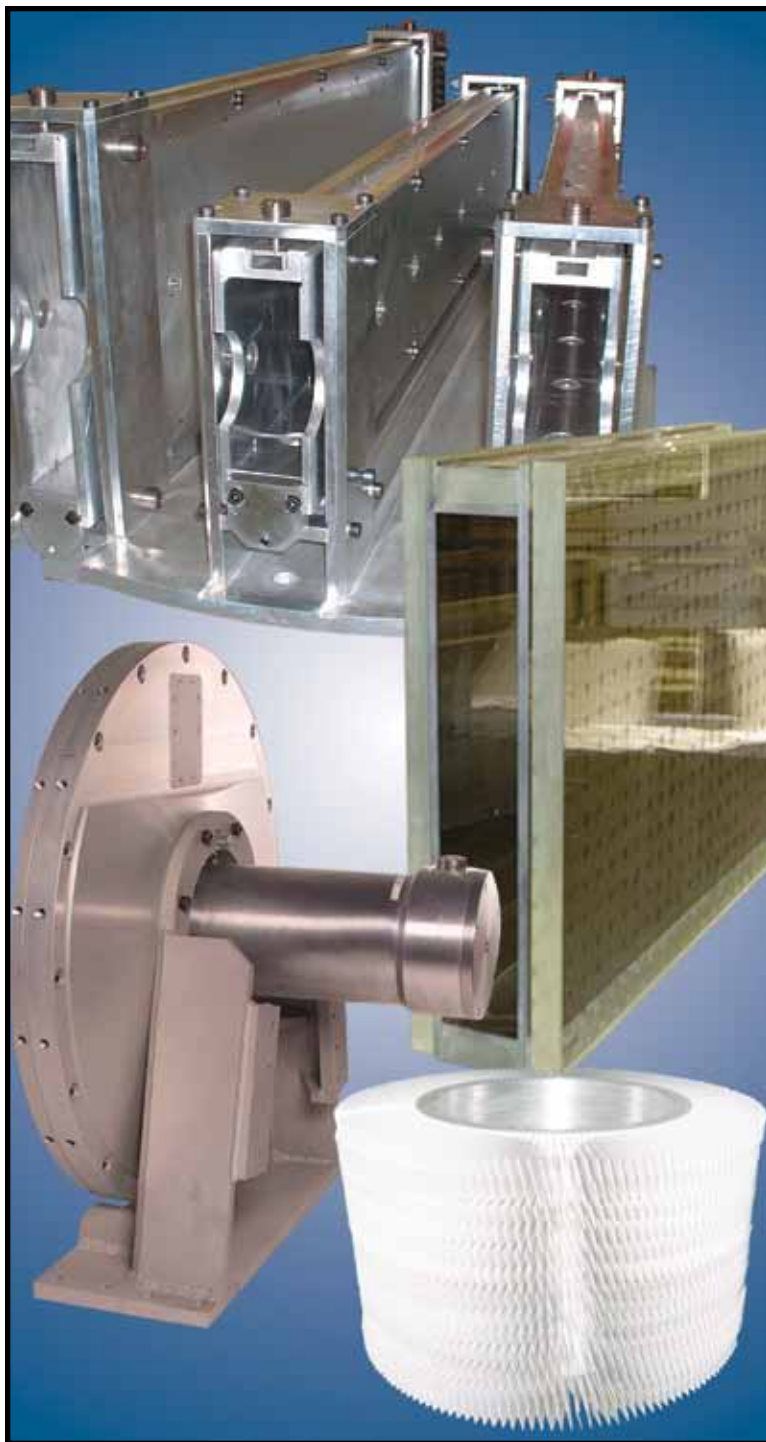


MIRROTRON LTD

MULTILAYER LABORATORY
Partners in Neutron Science



Kurt J. Lesker
Company

VACUUM MART
DIVISION

Guides

- Large Capacity Sputter Coating Capability
- Super Mirror Coatings $m=2.0$ to $m=4.0$
- 100% Quality Inspection on Each Guide Section on Neutron Reflectometer
- Specialized Guide Designs, Converging/Focusing

Guide Systems

- Complete Guide System Design
- Specialized Shielding, Support Structure & Vacuum Housing
- Expert Installation & Alignment Teams
- Shutter Guides, In Pile Guides, Choppers & Chopper Housings
- Worldwide On-Site Installation Capabilities

Choppers

- BWL Choppers
- Femmi Choppers
- T θ Choppers
- Single & Dual Blade Chopper Systems
- Customized Sizes & Geometries
- Magnetic Bearing Designs

Standard Velocity Selector

- Multi-Disc Rotor System
- Transmission (σ_{max}) = 75%
- Resolution ($\eta_0=\Delta\lambda/\lambda$) = 13%
- Wavelengths (λ) = 2.7Å - 45Å
- 14 Systems in Service
- Demonstrated 50,000 Hours Operation

High Resolution Velocity Selector

- Multi-Blade Rotor System
- Transmission (σ_{max}) = 90%
- Resolution ($\eta_0=\Delta\lambda/\lambda$) = 8%
- Wavelengths (λ) = 2.4Å - 25Å
- Integrated Control System

Detectors

- 3He 2-D Proportional Counters
- Standard Size 200mm x 200mm
- Large Area 600mm x 800mm
- Resolution 32 x 32 to 1024 x 1024
- Spacial Resolution to 1.5mm x 1.5mm
- Detection Efficiency 50 to 85%
- Single Neutron Detection
- Time Resolution < 2 μ sec

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