

**Kurt J. Lesker**<sup>®</sup>  
Company

# Vacuum Mart<sup>™</sup> Division

OVERVIEW



**VACUUM MART**<sup>™</sup>  
DIVISION

## Enabling Technology for a Better World

As a leading global provider of high-quality vacuum products and systems, along with an established tradition of service and attention to detail, the Kurt J. Lesker Company<sup>®</sup> (KJLC<sup>®</sup>) has built a reputation for being “All Things Vacuum.”

Drawing from our comprehensive list of products and services, KJLC has long believed and behaved in ways that demonstrate industry-standard-setting responsibility and responsiveness to its customers. Every phone call is answered by a KJLC team member. Every product issue gets immediate and complete attention until it is resolved. Experienced employees continually make themselves available to those seeking information and guidance. KJLC sees every customer interaction as an opportunity to deepen valued relationships.

Founded in 1954, KJLC has grown from a regional manufacturer and distributor of vacuum components into today's worldwide marketplace, offering a full range of vacuum parts, products, systems, design technologies, innovative thinking, and responsive customer service. Working with an attentive eye toward quality, environmental stewardship of resources, and customer satisfaction, KJLC serves the research and development market at both the academic and commercial levels, as well as providing vacuum products and services to industry on a global scale. Following our successful expansions into Canada, the United Kingdom, and China, KJLC has continued to reach out globally, highlighted by our newest location in Hong Kong.

### Four Focused Divisions

As a manufacturer and distributor of all things vacuum, being focused is crucial. KJLC has developed the following divisions to better focus on the unique challenges each application provides.

#### **MANUFACTURING<sup>™</sup>** DIVISION

- Quality provider of standard & custom vacuum chambers
- Over thirty years of experience
- Expert manufacturing by Vacuum Experts

#### **MATERIALS<sup>™</sup>** DIVISION

- Extensive list of pure elements, compounds and alloys
- Advanced metal oxide ceramics materials and mixtures
- Full line of boats, crucibles, filaments and wires
- In-house bonding

#### **VACUUM MART<sup>™</sup>** DIVISION

- Full range of over 14,000 vacuum products
- Global stocking strategy for reliable delivery times
- Superior customer service

#### **PROCESS EQUIPMENT<sup>™</sup>** DIVISION

- Advanced single-chamber and cluster-chamber thin film deposition systems
- Intuitive and powerful computer control software
- Patented ALD reactant delivery system

### [www.lesker.com](http://www.lesker.com)

Our industry leading website is the most comprehensive e-commerce and vacuum science information portal available online. Lesker.com is a virtual encyclopedia of vacuum knowledge with technical information on general vacuum topics and our catalog of products. We make ordering online easy, whether it is one of our thousands of in-stock items or a custom configured vacuum chamber.



# Quality

Kurt J. Lesker Company provides a quality vacuum product delivered on time and produced by a qualified team committed to becoming our customer's primary vacuum supplier choice. To affirm this commitment we established a comprehensive Quality Management System, enabling KJLC to meet all the requirements of ISO 9001:2008 Quality Assurance Standard.

What does this mean to our customers? KJLC is committed to giving our customers a great experience. Whether it be an online order or a complex custom deposition system, our quality standards are always there to ensure accuracy and timeliness. Our customer service is unmatched in the industry through ongoing training initiatives and continual improvement efforts that streamline our processes and ultimately lead to what you want most in a supplier—consistent quality.

## Standards and Certifications

KJLC is ISO 9001 certified. Kurt J. Lesker Company knows that there is more to a quality certification than just a piece of paper.

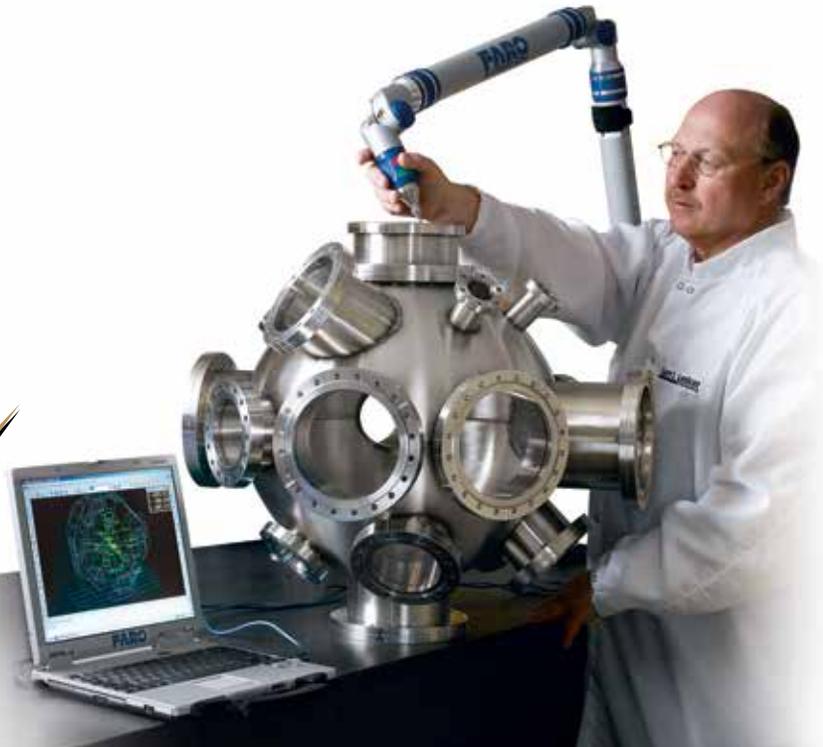
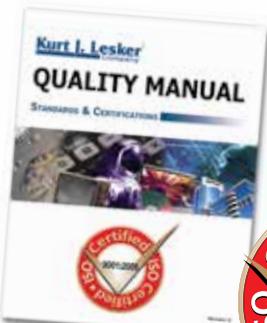
In order to really reach our goals we implemented KJLC continuous improvement (Kaizen). Our employees are always looking for ways to initiate: lean practices, 5S, preventative actions, cellular manufacturing, KanBan material replenishment and visual work instructions. We work together to make your products better, safer, and faster.

**Kurt J. Lesker Company is an ITAR Compliant Company.**



## Product Development

Helping you become the best at what you do, KJLC is committed to developing new products that integrate the latest technology available, as well as improving existing products so you can compete at the highest levels.



# Vacuum Mart™ Division Product Lines

## Pumps

At KJLC we make it our priority to offer a wide range of vacuum pumps from many of the top manufacturers in the world. Rotary vane, scroll, piston, turbo, diffusion and many more pumps are available as new or remanufactured models for immediate delivery.

Our staff relies on over 60 years of vacuum experience to help our customers with pump selection and with pump repair problems. One more way KJLC keeps you and your process up and running.



## Fluids and Greases

KJLC provides a wide variety of specialty vacuum chemicals and greases for mechanical and diffusion pumps, including heat transfer fluids.

## Vacuum Gauging and Instrumentation

The Kurt J. Lesker Company's line of vacuum gauging and instrumentation is one of the most comprehensive in the industry. We offer everything from simple dial gauges to flexible multigauge controllers, combination wide range gauges, and full pressure control set-ups for either upstream or downstream pressure control. KJLC also provides replacement nude and glass ionization gauge tubes, thermocouple gauge tubes, and capacitance manometers.



# Hardware Components

Vacuum components are the building blocks of the industry, and KJLC offers the widest selection of internationally compatible CF, ISO, KF, and ASA flanged components from a single source. We have the largest, strategically managed, global inventory to provide your parts quickly and accurately from our distribution centers around the world right to your lab floor or production facility.



# Valves

Supplying valve solutions for semiconductor processes, industrial vacuum, HV, UHV and R&D applications, the Kurt J. Lesker company has your application covered.

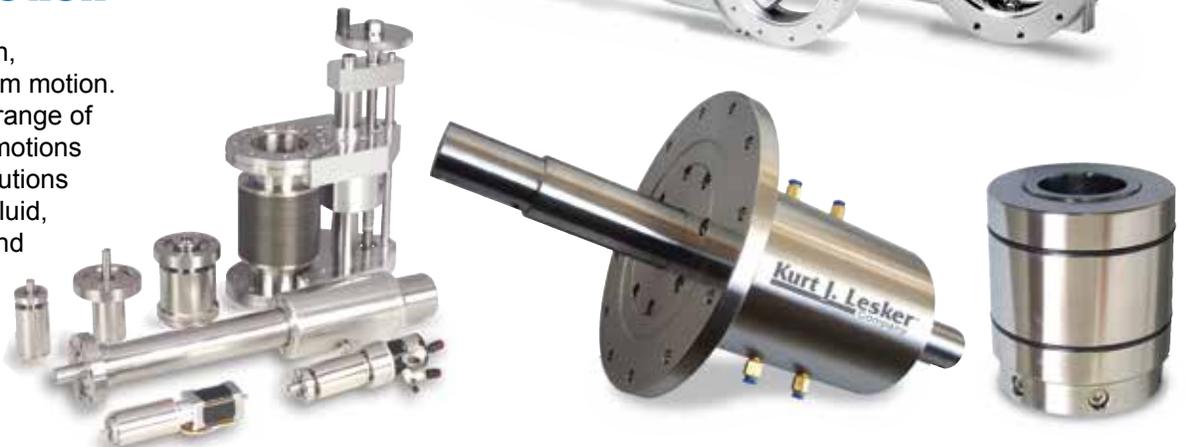
We have the most diverse offering of valve types including: automated conductance control; rectangular and circular gate valves; and door, angle, inline and butterfly valves—all available in both stainless steel and aluminum materials.

We are now a global distributor of the extensive range of valves from **VAT**.



# In Vacuum Motion

KJLC provides clean, production driven vacuum motion. Devices include a wide range of XYZ, linear, and rotary motions along with multi-axis solutions utilizing ferro-magnetic fluid, magnetically coupled, and edge-welded bellows technologies for HV and UHV applications.



# Supply Chain Logistics

An important aspect of every successful business is the ability to partner with quality organizations. Our customers demand faster, timelier delivery of orders, reliable components and systems, and superior customer service. At KJLC we identify business partners and work with them to provide the highest quality products and services to our customers at competitive prices.

KJLC's supply chain initiatives continually monitor on time delivery to our customers' facilities from our various distribution centers throughout the world. As important as timely delivery, we evaluate and monitor the quality and reliability of our products and ultimately measure our customers' opinions on the overall "Lesker Experience."



The world continues to change and demands for our products reach further every year. To that end we have the most comprehensive inventory at strategically positioned Distribution Centers around the globe. This has provided great benefits to our customers who are able to "buy locally" from a global supplier. It's our goal to provide a seamless process for orders shipped to various regions while adhering to global import/export guidelines and global compliance initiatives.

**Let KJLC provide streamlined solutions to your complex supply chain and logistic issues.**

# Vacuum Services

## Pump Repair

Kurt J. Lesker Company's Vacuum Services are designed to make servicing your current pumps quick and easy. Our factory-trained technicians are equipped to handle the maintenance and repair of virtually any brand and type of vacuum pump.

We pride ourselves on our ability to rebuild pumps to their original operating specifications by using OEM service procedures and manuals. KJLC ensures that your process downtime is minimized by offering a fast turnaround with our expansive parts inventory and pump exchange program. All the vacuum pumps we service are backed by a 12-month warranty.



## Valve Repair

Our trained technicians utilize our in-house facilities and inventory of spare parts for timely complete valve overhaul, or just retrofitting of seals. All valves are performance tested and helium leak checked.

## Fluid Recycling

The Kurt J Lesker Company is dedicated to providing our customers with quality products and services to enhance their process. The Kurt J. Lesker Company has been reclaiming inert PFPE and silicone fluids for over 25 years. Our propriety recycling process typically offers yields over 90% for most applications. Recycling your waste fluids provides a significant savings and helps protect our environment by drastically reducing the amount of waste contributed to the waste stream.

## VacuCAD<sup>SM</sup>

VacuCAD is a free library containing thousands of 2D CAD drawings (in DXF format) and 3D Models (in STP format) for many of our standard vacuum components and chambers. The Vacuum Mart section of our website contains an ordering table with pricing on each page as well as the downloadable engineering files. This service can be invaluable for ensuring the product you are looking at is the right one for you. Just register at [www.lesker.com](http://www.lesker.com) and once verified you have unlimited access to downloadable drawings.



## Lesker Viewport

Visit [www.lesker.com](http://www.lesker.com) to sign up for the Lesker Viewport — KJLC's enhanced online shopping experience. Gain control of your account and enjoy the benefits of enhanced secure online ordering. Lesker Viewport enables you to: view online ordering history, request quotes, save carts, and view customer specific information.

# GLOBAL VACUUM PRODUCT LINES

## VACUUM MART™ DIVISION

### Vacuum Valves & Hardware

- Flanges, Components, Fasteners, & Seals
- Gate & Angle Valves
- OFHC Copper & Other Variety of Gaskets
- Bellows, Tubing, & Weld Fittings
- Semiconductor, PV, & FPD Process Valves
- Full Line of VAT® Valves

### Feedthroughs

- Power & High Voltage
- Viewports (Optical Feedthrough)
- USB, Coaxial & Instrumentation
- Thermocouple
- Ceramic Breaks
- Liquid, Gas & Cryogen (LN<sub>2</sub>)

### Vacuum Pumps & Accessories

- New & Remanufactured
- Rotary Vane & Piston
- Scroll & Diaphragm
- Screw & Roots
- Turbo & Diffusion
- Cryogenic & Ion
- Traps & Filters
- Complete Offering of Pump Repair Services

### Vacuum Fluids

- Full Line of Mechanical Pump Oils
- Fomblin® PFPE - Inert PFPE
- Galden® PFPE - Heat Transfer Fluid
- Vacuum Greases, Sealants, & Solvents
- Pump Oil with R/O Additives
- Silicon Diffusion Pump Oils
- Pump Oil Recycling

### Pressure Measurement

- Analog & Digital Active Gauges
- Pressure Indicators & Controllers
- Wide-Range Gauges
- Multi-Gauge Controllers
- Replacement Gauge Tubes

### Sample Manipulation & Motion

- Rotary & Linear Motion
- Linear Positioners
- Wobble Sticks & Port Aligners
- XYZ Manipulators
- Multi-Axis Manipulators
- Sample Transfer Probes
- Sample Heating & Rotation
- Motion Control
- Sample Distribution Center

### Vacuum Services

- Full Line Pump Repair/Rebuild Services
- Pump Oil Recycling
- Technical Information
- Technical Consulting
- Decontamination
- Magnetron Cathode Service
- Contract Manufacturing

## PROCESS EQUIPMENT™ DIVISION

### Deposition Sources

- TORUS® Magnetron Sputtering Sources
- HiPIMS Sputtering Sources
- Electron Beam Evaporation
- Organic Material Evaporation
- Electron Beam Sources
- Ion Sources
- Thermal Evaporation Sources
- Pulsed Filtered Cathodic Arc Source
- Inverted Cylindrical Magnetron Sputtering Sources

### Process Instrumentation

- Film Thickness
- Mass Flow Controllers
- Capacitance Manometers
- RF & DC Power Supplies
- Pulsed DC Power Supplies
- HiPIMS Power Supplies
- Power Supplies for Evaporation

### System Components & Custom Engineered Solutions

- Turnkey & Partial Build Solutions
- Comprehensive Engineering Design Support
- Chambers, Frames, & Mounting Structures
- High Temperature & Bakeout Heater Assemblies
- Heater Power Supplies
- Substrate Load Locks & Transfer Vessels

### Vacuum Systems

- Thin Film Deposition Systems:  
Sputtering Systems, Evaporation Systems
- Cluster Tools
- Box Coaters
- PVD 75 PRO Line
- LAB Line
- Combinatorial Systems
- Organic Material Deposition Systems
- Atomic Layer Deposition (ALD)
- PEALD
- Drum Coaters
- In-line Coating Systems
- Isoflux Systems

## MATERIALS™ DIVISION

### Deposition Materials

- Sputtering Targets
- Precious Metals & Reclaim
- Evaporation Pieces
- Thermal Evaporation Sources
- E-Beam Crucible Liners
- Bonding Service
- Backing Plates

## MANUFACTURING™ DIVISION

### Vacuum Chambers & Components

- Standard SS Cylindrical, D-Shaped, Spherical, & Box Chambers
- Standard Pyrex® Glass Bell Jars & Cylinders
- Standard Building Blocks to Customize Your System
- Custom Chambers
- Array of Finishes & Materials
- Easily Build Your Own Chamber with the Custom Chamber Builder™ Online
- Cooling Options including Hydra-Cool™

### Manufacturing & Fabrication

- State-of-the-Art CNC Machining
- Mechanical, Manufacturing, & Industrial Engineering
- Computer Based Scheduling & Routing
- CAD, CAM, & FEA Software
- Coordinate Measuring Machine Inspection (CMM)
- UHV Compatible Cleaning Process

We have a network of representatives around the world ready to service the international vacuum community.

Visit our website to find the representative nearest you, or contact our International Sales Department.

[www.lesker.com/locations](http://www.lesker.com/locations)

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# Kurt J. Lesker®

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