

The future of
medical & life science
equipment starts here.



Miniature technology that advances your design.

Next-gen medical technology will be *smaller, lighter, faster.*



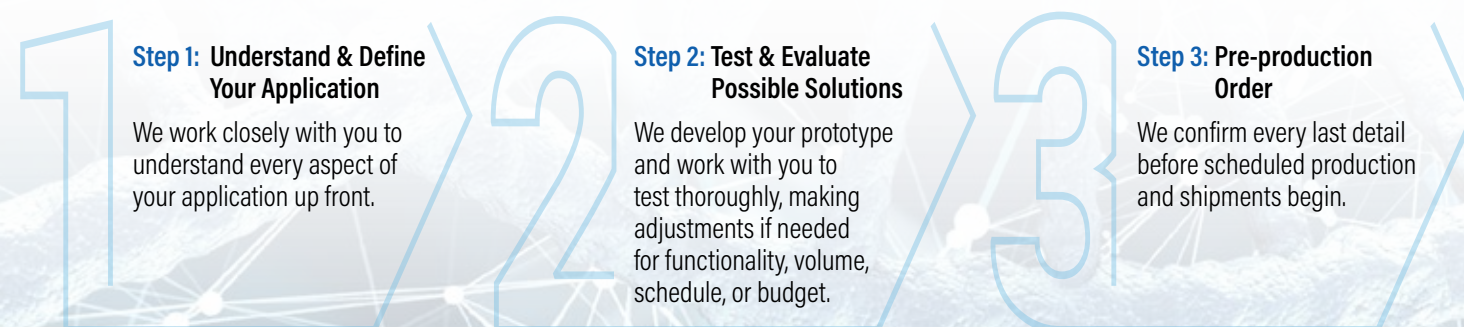
How do you differentiate your product in a market of more than 500,000 medical technologies? The devices of the future will be more compact and portable, fitting more easily into patients' lives. Tomorrow's instruments will do more using less power, delivering precision performance at hospitals, labs, and in the field.

Reducing component size is critical to bringing this increased functionality into tighter spaces and more easily transportable equipment. However, miniaturization can present serious challenges to traditional manufacturing and automation, material handling, and packaging systems.

No one understands miniaturization better than KOGANEI. For more than 85 years, we've helped customers design and build game-changing equipment with miniature components. Let us put our innovation and expertise to work for your medical or life science design!

Accelerate your development process.

With years of experience, our application engineers have created solutions for most design challenges. Our proven process optimizes your design for usability and manufacturability from day one.



We listen, collaborate, and deliver the best result.



OEMs rely on KOGANEI for advanced pneumatic, fluid-handling, and electrical automation components and assemblies.

The capacity and flexibility to deliver.

Our engineering team in Japan can work while the US is asleep to provide answers the following day. Our expansive manufacturing capabilities allow us to make your components quickly once designs are finalized. We'll even stock your final product for you and carry custom assemblies as a single part number.



Tap into our global supply chain.

Looking for help to reduce your manufacturing time? A reliable supplier? Look no further. Over decades, we've established a network of quality sources, specialty manufacturers, and assembly options, so you will always enjoy the lowest costs and fastest delivery.

Unexpected orders? No problem.

We can carry dedicated safety stock so you can accommodate for your customers' changing requests without holding extra inventory. Our U.S. Logistics Network will ensure you have the product you need when you need it.



Expedited delivery from our U.S. Logistics Network.

Unique technology
that enhances your product.



Optimized designs with
a variety of sizes and
styles to fit almost any
application.

Standard Products

When designing a next generation machine, you need to have options. With more than 512,000 standard products we provide just that. Our engineering team can assist you in specifying the component that best fits your needs. With the variety of technologies we offer, along with our engineering expertise, we often combine products into custom sub-assemblies, so you always get the best possible solution. Your assembly will have one-part number from a single source, minimizing the number of vendors and potential delays.

Engineered Specials

With many applications, there are times when you need something special. In those cases, our engineering staff will work with you to design and develop a custom solution to optimize your machine's functionality and performance. From design to delivery, we are with you every step of the way. A custom product with unique part number is also a great way for OEMs to secure their MRO business while providing value add.

Unrivaled Quality

The cost of failure on a new product is higher than ever. That's why we 100% test every single component before shipping, preventing expensive changes or rework. Our facilities are ISO 9001 and ISO 14001 certified, and in RoHS compliance.

The Advantages of KOGANEI Technology								
	Miniaturization		Accuracy and Repeatability		Unique Performance		Longer Life	
V A L V E S	005 Series Micro Valves  5.9 mm Width	F-AVPN070 Fluoropolymer Valves  High Flow in Small Envelope	PVR Series Media Isolation Valves  Low 35 µl Dead Volume	KFPV Series Proportional Flow Valves  Repeatable to ±2% F.S.	G010 Series Compact Valves  Low Power Use for Portable Devices	iB-Flow Series Digital Flow Controls  Stepper Driven Needle Valve	F Series Valves and Manifolds  100+ Million Cycles	K Series High Speed Valves  Up to 1 Billion Cycles
	PBDA Series Pen Cylinders  from 2.5 mm Bore	MBDA Series Mini Bit Cylinders  from 4.5 mm Bore	MGA Series Mini Guide Sliders  ±0.0002" Running Parallelism	AFDPG Series Flat Grippers with Guides  Minimal Finger Backlash	MRV Series Rodless Cylinders  Low Speed to 8 mm/s	NHL Series L-Hand Grippers with Guides  Superior External Gripping Force	BC Series Compact Cylinders  15 Million Cycles	BCG Series Guided Actuators  10 Million Cycles
	RN100 Series Pressure Regulators  23 mm Square Body	VLF Series In-Line Air Filters  from 13 mm Diameter with 5 µm Filtration	PRS100 Series Precision Regulators  ±0.15 psi Sensitivity	EW2H Series Electric Grippers  Positioning Accuracy ±0.05 mm	FME Series Vacuum Ejectors  Quiet Operation <50 dB	FDH Series Membrane Dryers  Prevents Moisture in Air Lines	iB-Cyclone Air Line Water Separators  No Filter Element to Replace	KSHP Series Shock Absorbers  3 Million Cycles

> Please click on the products in the table above to go to our website for more information.

We make great designs even better.

We 100% test EVERY product before it ships.

Advanced applications powered by KOGANEI.

Life Science Applications

- Automated Liquid Handling
- Automated Liquid Sampler
- Automated Sample Preparation
- Flow Cytometry
- Gas Chromatography
- Liquid Chromatography
- Molecular Diagnostics
- Immunoassays Analyzers
- Clinical Chemistry Analyzers
- Microbiology Analyzers
- Hematology Analyzers
- Urinalysis Analyzers
- Emission Analysis
- GMO Analysis
- Air/Water Quality Analysis
- Mass Spectrometry
- Capnography Monitor



Genetic Analyzer

Challenge: Moving the test sample through the fluidics card while maintaining consistent pressures to the flow paths with no leakage.

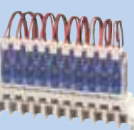


Solution: Our **G010 Series** low leak solenoid valves controlled the pressure signals, ensuring the system didn't experience any pressure loss throughout the life of the device.



Cell Secretion Analyzer

Challenge: Controlling up to 150+ flow paths while maintaining the smallest footprint possible and reducing the possibility of leaks and assembly errors.



Solution: Our **005 Series** micro solenoid valve manifold met the performance and envelope requirements. Providing the complete sub-assembly ensured accurate and fast installation.



Immunoassays Analyzer

Challenge: Keeping the control for the microfluidic cartridge membrane valves small, simple, and easy to install. (Competitive solutions were too large and highly complex.)



Solution: Our fully-integrated, custom solution using **MBDA Series** actuators and **005 Series** valves kept the system complexity to a minimum, reduced potential leak points, and streamlined overall installation.

> Please click on the applications above to go to our website for more information.

Precision and speed, from the lab to the operating room.



Clinical Sterilization Equipment

Challenge: Maintaining a precise level of clean, dry compressed air in a small, efficient assembly while sourcing parts from multiple suppliers.



Solution: Utilizing the breadth of our product line and compact compressed air treatment components, including our **FDH Series** membrane dryer, we provided a complete assembly that met the required filtration and dew point levels.



Endodontic Device

Challenge: Finding compact, high-flow, and quiet operating fluid control valves for mixing and dispensing of the proprietary fluid.



Solution: Through a modification to the solenoid on our **PVR Series** media isolation valve, we provided a custom assembly that met the OEM's application requirements while sufficiently reducing operating noise.



Respiratory Equipment

Challenge: Finding a solenoid valve small and lightweight enough to be easily mounted and plumbed directly on a PCB. The valve also needed to allow high flow with low air leakage for quick and consistent calibration of the system sensors.



Solution: At only 5.9 mm wide, our **005 Series** high-flow, low-leak micro 3-way valve was easily mounted onto the circuit board, and its built-in barb fittings allowed for quick pneumatic connections.

> Please click on the applications above to go to our website for more information.

Portability and performance for patients and physicians.

KOGANEI is committed to your success from concept, to initial design, to final delivery and beyond.



* Headquarters

Focused on providing industry leading pneumatic, fluid handling,
and electrical automation components and assemblies for the OEM market

Think KOGANEI

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