

The future of electronics
manufacturing equipment
starts here.



Miniature technology that enhances your productivity.

Next-gen electronics manufacturing equipment will be *smaller, lighter, faster.*



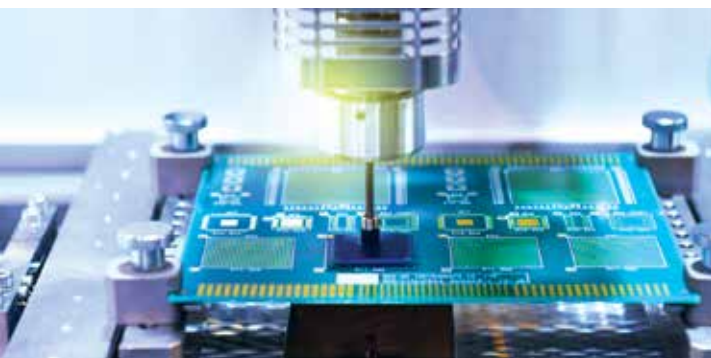
OEMs rely on KOGANEI for advanced pneumatic, fluid-handling, and electrical automation components and assemblies.



How do you differentiate your product in a market of thousands of manufacturing technologies? The assemblies of the future will be more compact and portable, fitting more easily into manufacturing equipment. Tomorrow's machines will do more using less power while delivering precision performance.

Reducing component size is critical to bringing this increased functionality into tighter spaces. 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 electronics manufacturing equipment design!



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.

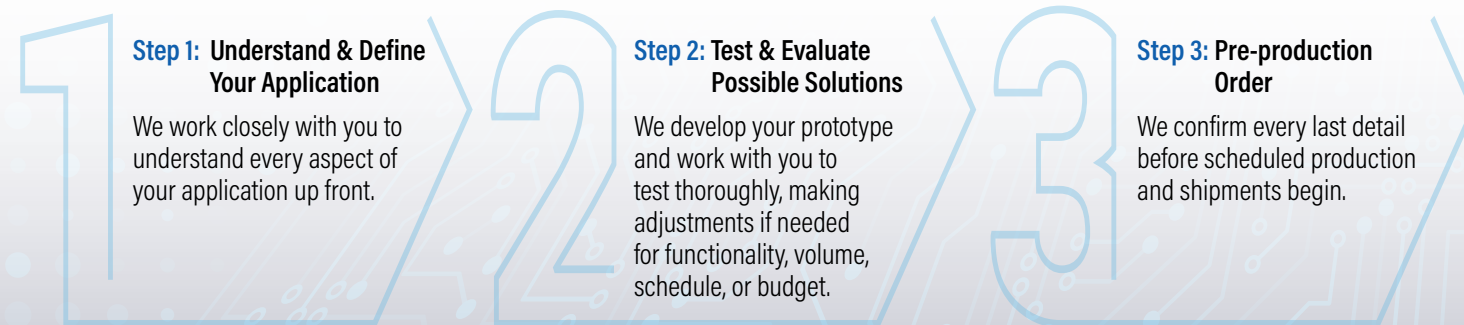


Tap into our global supply chain.

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.

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.

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.








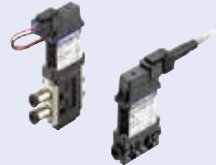















Engineered Specials

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.	iB-Zero Series Valve Manifolds  Fast, Simple Assembly	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	
	A C T U A T O R S	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
		O T H E R S	RN100 Series Pressure Regulators  23 mm Square Body	PME Series Inline Vacuum Generators  from 8.5 mm Diameter and 0.5 mm Nozzle	PRS100 Series Precision Regulators  ±0.15 psi Sensitivity	EW2H Series Electric Grippers  Positioning Accuracy ±0.05 mm	iB-Cyclone Air Line Water Separators  No Filter Element To Replace	PAU Air Conservation Pulse Units  Reduces Air Use by up to 50%	DTY-ELF14 Fan Type Ionizers  No Routine Needle Maintenance

> 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.

Electronics Manufacturing Applications

- Surface Mount Technology (SMT)
- Reflow
- Screw Tightening
- Soldering
- PCB Cutting
- Mechanical Testing
- Electrical Testing
- Packaging
- Ink-Jet Coating (Flat Panel Display)
- Cleaning
- Shock Absorbing



Video Game Test Equipment

Challenge: Developing the compact, long-life pneumatic equipment necessary to test the durability and endurance of video game controllers.



Solution: Our miniature, high-performance **PBDA Series** pen cylinders exceeded the customer's critical life cycle requirement, out-lasting similar components from other manufacturers.



OLED (Organic Light-Emitting Diode) Ink Jet Printing Equipment

Challenge: Preventing degradation of the chemical solution due to the inevitable heat generated by the solenoid valves used in dispense process.



Solution: We developed an air operated version of our **PVR Series** media isolation valve and paired this with our micro 3-way solenoid valve. This enabled the electrical component to be isolated from the dispense process, resolving the customer's heat issue.



HDD (Hard Disk Drive) Assembly Equipment

Challenge: Maximizing the life of shock absorbers used in the cleanroom environment while preventing the introduction of oil and particulate contaminants due to their general leakage and failure.



Solution: Our **KSHC Series** cleanroom shock absorber with integrated particle pocket and oil scatter prevention filter eliminated the customer's contamination issues, while its high-performance, linear orifice design provided excellent life expectancy.

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

Exceptional component life through advanced engineering & design.



Solar Cell Pick & Place Equipment

Challenge: Reducing inaccuracies during cell handling caused by undesirable shifting and flexing normally associated with small pneumatic actuators.



Solution: Our **BCG Series** compact, precision guided cylinders provided the customer with the load capability and rigidity comparable to larger bore cylinders but within the envelope of their existing component, allowing them to improve performance without increasing footprint.



Magnetic Components (Inductors, Transformers) Assembly Equipment

Challenge: Adjusting the range of motion of assembly machinery quickly and precisely to simplify switching between workpieces of different thicknesses.



Solution: We modified the end of stroke adjustment mechanism on our **MGA Series** precision guided actuator so that operator could hold it more easily while tightening the adjustment bolt, saving them valuable time during their product changeover.



Car Audio System Assembly Equipment

Challenge: Maintaining the various ionizers required to prevent particle accumulation and Electro-Static Discharge (ESD) events, despite having limited in-house expertise and inadequate supplier support.



Solution: We conducted an ESD audit to evaluate the customer's **DTY-ELF Series** current ionizer implementation and provided field training and technical support to improve their maintenance process, enabling them to save time and related costs.

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

Accuracy and speed for precision assembly operations.

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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