

## Agriculture & Farm Automation



*Precision technology that advances your design.*

**Here is where the agriculture and farm automation of the future begins.**

# The Advantages of KOGANEI Technology

	Miniaturization	Accuracy and Repeatability	Unique Performance	Longer Life				
<b>V A L V E S</b>	<b>005 Series</b> Micro Valves   5.9 mm Width	<b>F-AVPN070</b> Fluoropolymer Valves   High Flow in Small Envelope	<b>PVR Series</b> Media Isolation Valves   Low 35 µl Dead Volume	<b>KFPV Series</b> Proportional Flow Valves   Repeatability to ±2% F.S.	<b>iB-Zero Series</b> Valve Manifolds   Fast, Simple Assembly	<b>iB-Flow Series</b> Digital Flow Controls   Stepper Driven Needle Valve	<b>F Series</b> Valves and Manifolds   100+ Million Cycles	<b>K Series</b> High Speed Valves   Up to 1 Billion Cycles
<b>A C T U A T O R S</b>	<b>PBDA Series</b> Pen Cylinders   from 2.5 mm Bore	<b>MBDA Series</b> Mini Bit Cylinders   from 4.5 mm Bore	<b>MGA Series</b> Mini Guide Sliders   ±0.0002" Running Parallelism	<b>AFDPG Series</b> Flat Grippers with Guides   Minimal Finger Backlash	<b>MRV Series</b> Rodless Cylinders   Low Speed to 8 mm/s	<b>NHL Series</b> L-Hand Grippers with Guides   Superior External Gripping Force	<b>BC Series</b> Compact Cylinders   15 Million Cycles	<b>BCG Series</b> Guided Actuators   10 Million Cycles
<b>O T H E R S</b>	<b>RN100 Series</b> Pressure Regulators   23 mm Square Body	<b>Air Picker</b> Rubber Hand Grippers   from 8 mm Diameter	<b>PRS100 Series</b> Precision Regulators   ±0.1 5 psi Sensitivity	<b>EW2H Series</b> Electric Grippers   Positioning Accuracy ±0.05 mm	<b>PAU</b> Air Conservation Pulse Units   Reduces Air Use by up to 50%	<b>DTY-ELF14</b> Fan Type Ionizers   No Routine Needle Maintenance	<b>iB-Cyclone</b> Air Line Water Separators   No Filter Element to Replace	<b>KSHP Series</b> Shock Absorbers   3 Million Cycles

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

# KOGANEI parts in applications



## Rice Sorter

**Challenge:** Finding pneumatic valves with fast switching times that are highly repeatable and can provide sufficient air flow to eject the defective product, yet small enough to fit multiple units into a single machine.

**Solution:** Our *K2 Series* high-speed valve achieved a flow rate of 0.11 Cv with response times of 0.5 ms ON and 1.0 ms OFF, all within a compact 10 mm wide body, allowing us to mount 50 valves onto a custom manifold assembly.



## Dairy Equipment

**Challenge:** Ensuring that the control components used in process equipment are capable of withstanding the harsh environments and cleaning agents.

**Solution:** Our *TAC Series* of manual and mechanical pneumatic valves and accessories are nickel plated for high corrosion resistance and provided basic pneumatic logic and control functions across multiple applications.



## Produce Tumble Washing Equipment

**Challenge:** Redesigning a control cabinet to reduce overall size without sacrificing custom valve manifold functionality or the ability to easily assemble and perform maintenance.

**Solution:** Our versatile *F Series* valve manifolds could be configured to provide the customer's required functionality using standard components and were easily installed and plumbed in a smaller envelope than their predecessors.



## Agriculture and Farm Automation

- Planting
- Harvesting
- Packing
- Processing
- Conveying
- Pesticide Spraying
- DNA / GMO Analysis
- Sort Gates
- Iodine Spraying Control
- Sequencing Gates
- Neck Rail Gates
- Hoof Care Dispense Systems
- Rice Sorting
- Fruit / Vegetable Sorting



**KOGANEI ASIA PTE. LTD.**

69 Ubi Road 1, #05-18 Oxley Bizhub, Singapore 408731.

Phone: +65-6293-4512

**KOGANEI AUTOMATION (MALAYSIA) SDN. BHD.**

Suite 29-2, Level 29, Menara 1MK, No.1, Jalan Kiara, Mont Kiara 50480, Kuala Lumpur, Malaysia.

Phone: +60-12-537-7086