

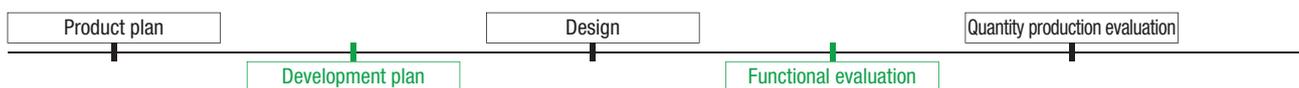
Core Technologies

CKD's core technologies are divided into the automatic machinery area, which includes pharmaceutical products packaging machines and the component products area, which includes products such as pneumatic and fluid control components that are used in equipment automation. Our customer base covers a wide range of industries, including automobiles, semiconductors, healthcare, pharmaceuticals, and food products. We use these core technologies to fulfill the various requirements of our customers, such as for products that are labor-saving, clean, miniaturized, high-speed, high-frequency, and long-life. Going forward, we will engage in further R&D and business development based on the CKD Corporate Philosophy.

Technology Chart

	Core Technologies	Semiconductors	Medical and pharmaceuticals	Food products	Rechargeable batteries	Electronic components	Automobiles	Machine tools
Automation	Image processing technology		Foreign material inspection machines of blister sheets for pills			3D solder paste printing inspection systems		
	Resin film formation technology		Pharmaceutical products packaging machines	Food packaging machines				
	Resin film sealing (welding) technology		Pharmaceutical products packaging machines	Food packaging machines				
	Pill filling technology		Pharmaceutical products packaging machines					
	Film transportation technology		Pharmaceutical products packaging machines	Food packaging machines	Winding machines for lithium-ion batteries			
	Servo control technology					Winding machines for lithium-ion batteries		
Fluid control	Compact coil design	Directional control valves				Directional control valves	Directional control valves	
	Low-sliding friction technology	Valves for process gas				Pneumatic cylinders	Pneumatic cylinders	
	Flow circuit analysis technology	Valves for chemical liquids	Fluid control valves					
	Miniaturization process management technology	Valves for chemical liquids						
	Water hammer reduction technology	Valves for chemical liquids						Fluid control valves
	Air servo control technology	High vacuum valves Electro pneumatic regulators				Electro pneumatic regulators		
	MEMS technology	Sensor components			Sensor components	Sensor components	Sensor components	Sensor components
	Diaphragm design technology	Valves for chemical liquids Valves for process gas	Valves used in medical analysis	Fluid control valves				
	Clean technology	Valves for chemical liquids Valves for process gas	Valves used in medical analysis	Fluid control valves				
	Compact resolver technology	Direct drive motors				Direct drive motors		
	Gas separation membrane technology			Refining and pressure adjusting components	Refining and pressure adjusting components	Refining and pressure adjusting components		
Porosity control technology	Static pressure bearing suction cups			Suction plates	Static pressure bearing suction cups			

CKD'S Development Process



Development Project System

We carry out new product development by gathering specialists from various departments to form a product development team. By dedicating a small but elite group to the task, we enhance development quality.



Quality Assurance

We evaluate and record quality in every phase of development to ensure products are high quality. Our thorough quality control system based on quality engineering meets the customers' every need in terms of quality.



For more information regarding CKD's core technologies, see CKD Technical Journals on our website (Japanese only). <https://www.ckd.co.jp/company/giho/>