

## Product Guide for Machine Tools

IP65

M12

CE

IO-Link



Processing Machines



Processing Jigs



Carrier Lines



Pneumatic Devices



Coolant Control



## Pneumatic Supply

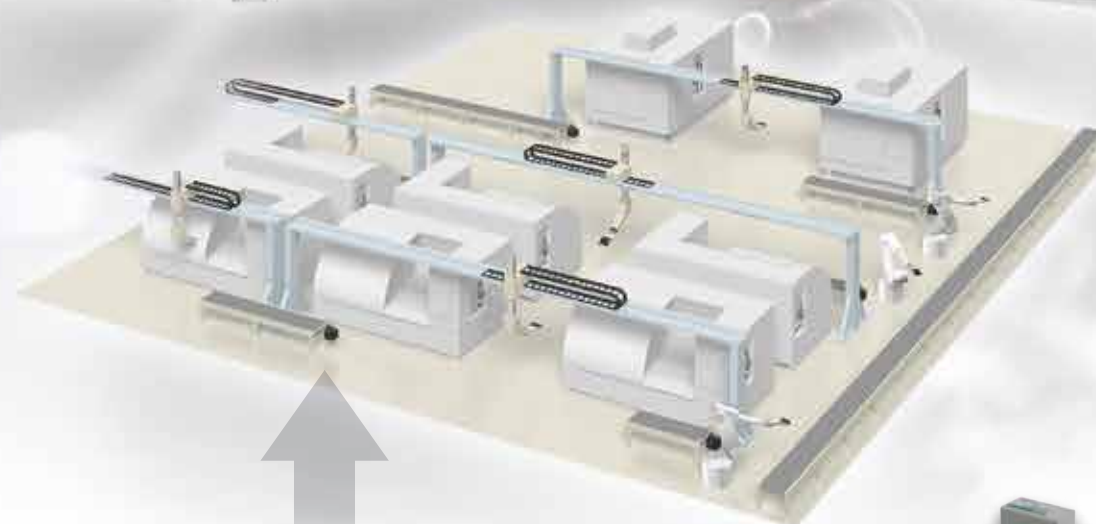
Supplies stable air for stable machining.



# CKD: Your Machine Tool Evolution Partner

Machine tools used at manufacturing sites all over the world continue to evolve. We continuously leverage our fluid and pneumatic pressure

technologies to provide solutions to support all machines tools.



## Coolant Control

Technological support for low pressure loss, extreme pressure, space-saving and other applications.



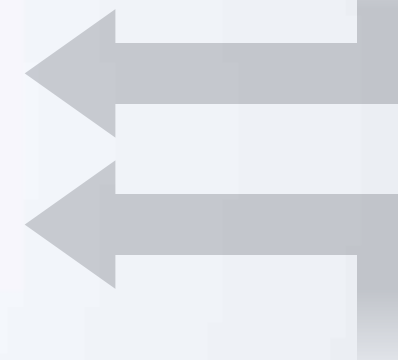
## Blow / Transport

Helps bring Factory Automation (FA) reform by improving work environments.



## Processing Jigs

Displays contact gaps, which are directly linked with machining precision.



## Sensors

Visualizes machine tools to suggest applications.

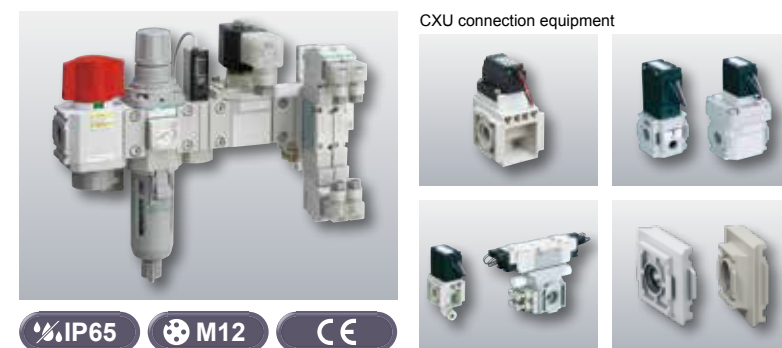




Our CXU Series air units promise to reform piping in the machine tools industry, under our motto of "Eliminate Bothersome Piping." In addition to air units, we also carry a full lineup of pneumatic products required for all types of machine tool designs. We use our extensive track record in compressed-air management to bring you the products you need.

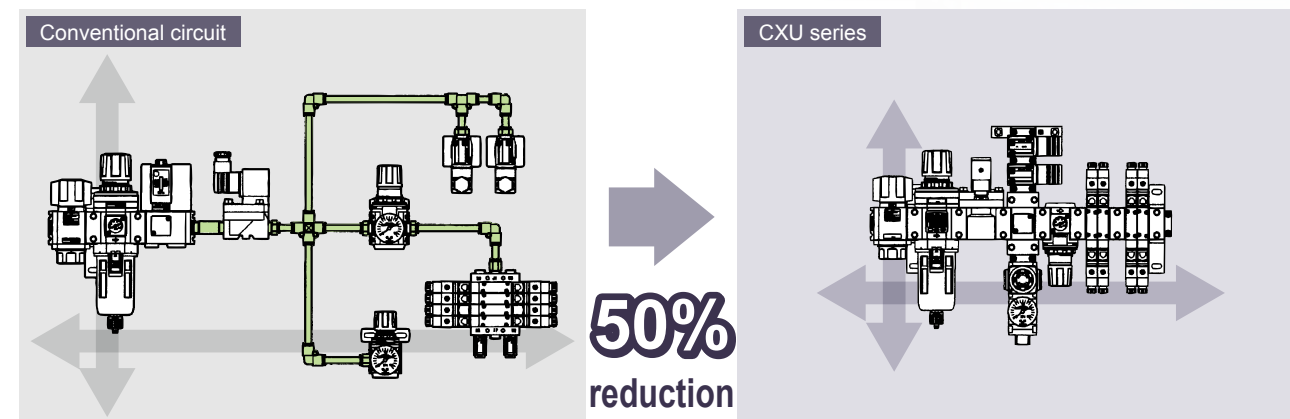
Air unit

## CXU Series



### Modularization

Eliminates bothersome piping design and labor. A single unit reduces a range of labor-intensive tasks.



<b>Piping</b> ● Labor hours ● Tubes	<b>Mounting dimension errors</b> ● Occurs when gauging	<b>Installation space</b> ● Much space required for gauging
<b>Quality risk</b> ● Foreign matter contamination ● External leakage	<b>Conventional products</b>	
<b>Screws</b> 10pcs.	<b>Mounting screws</b> 16pcs.	<b>Required vouchers</b> 12sheets

<b>Piping</b> ● No labor ● No tubes	<b>Mounting dimension errors</b> ● No gauging, no difference	<b>Installation space</b> ● 50% reduced
<b>CXU</b>		
<b>Quality risk</b> ● Less screws, reduced risk	<b>Design</b> ● Selection support ● CAD drawing provided	
<b>Screws</b> 2pcs.	<b>Mounting screws</b> 6pcs.	<b>Required vouchers</b> 1sheets

### Provides the air quality you need for stable machining.

Drain separator  
**FX Series**

Separation efficiency	99%
Max. processing flow rate	Up to 6,100 L/min (ANR)

Drain separation efficiency of 99%! Perfect for water removal. Element-less structure for low pressure loss with no clogging. No need to periodically replace elements.

Oil Mist Filter  
Option with differential pressure SW  
**M-Q Series**

Switch 2-wire reed, 2pts.

High precision predictive maintenance. The element replacement timing is notified visually and with 2 switches.

IP67 CE

Super dryer  
**SD Series**

Outlet air atmospheric dew point	Up to -40°C
Processing air rate	Up to 890 L/min (ANR)

Provides simple and stable supply of ultra dry air. Required for precision machining devices. Modularized high polymer membrane air dryer makes system upgrades with peripherals simple.

### We recommend releasing residual pressure for work safety.

Shut-off 3-port solenoid valve for air units  
**VE Series**

Effective X-sectional area	P→A: 35 mm <sup>2</sup> , A→R: 20 mm <sup>2</sup>
Working pressure range	0.2 to 0.7 MPa

Miniature electromagnetic residual pressure exhaust valve. Host command completely releases residual pressure when the device has stopped, helping to reduce space.

IP65 M12

Slow start valve  
**V3301 Series**

Effective cross-sectional area	(1) Low speed air supply: 6 mm <sup>2</sup> (2) High speed air supply: 40 to 76 mm <sup>2</sup> (3) High speed exhaust: 50 to 78 mm <sup>2</sup>
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Air supply speed can be adjusted. Prevents cylinders from popping out due to sudden pressurization during air supply. Also includes function to release residual pressure.

IPX5

Residual pressure exhaust valve with spool position detection

**SNP Series**  
**SNS Series**

Effective cross-sectional area	P→A: 50 to 170 mm <sup>2</sup> , A→R: 70 to 180 mm <sup>2</sup>
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Capable of outputting the open/close status of solenoid valves for emergency cutoff. Can be used in combination with a variety of types of products including double cutoff, unitization, internal pilot and external pilot.

IPX5 M12 CE

### Provides precisely-controlled pressure for stable machining.

Precision regulator  
**RP Series**

Set pressure	0.003 to 0.7 MPa
Sensitivity	0.1% F.S. or less

Provides high precision control of air pressure used in machine tools. Perfect for controlling main shaft purge pressure. Capable of providing precise control even at especially low pressures, due to stable flow characteristics with little pressure drop.

Precision regulator  
**RPE Series**

Set pressure	0.01 to 0.7 MPa
Air consumption	0.2 L/min. or less

Provides high precision control of air pressure—and saves energy. Features a revised internal structure for 70% less air consumption. Can be modularized for easy coupling with an oil mist filter.

Compact regulator  
**RB Series**

Set pressure	0.05 to 0.7 MPa
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Miniature regulator perfect for saving space. Compact with a width of only 25 mm, features built-in reverse flow function with fitting included. Also available as panel mount and manifold type.

### We offer a series of solenoid valves for driving cylinders and air operated valves to meet your needs.

Pilot operated 3/5-port solenoid valve  
**4G-R Series**

Applicable cylinder diameter	Up to ø100
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Solenoid valve with improved environmental performance, safety and ease of use. Comes in a wide variety of types including single unit, manifold and reduced wiring.

IPX5 CE

Plug-in block manifold  
**W4G Series**

Applicable cylinder diameter	(1) Up to ø80 (W4GB2), (2) Up to ø125 (W4GB4)
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IP65-compatible for high environmental resistance; plug-in type for easy valve replacement provides ease of use.

IP65 M12 CE

Pilot Operated 3, 5-Port Valve Plug-in Block Manifold

**TVG Series**

Cylinder bore size	(1) Up to ø40 (size 1), (2) Up to ø80 (size 2)
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Durability count 120 million cycles. Compact plug-in valve that strives for reliability and minimal air leakage, achieving carbon neutrality, high reliability, and ease of use.

IP65 IP67 M12 CE IO-Link

# Coolant Control

Our CV Series of coolant valves is available in several variations to meet your needs, such as low pressure loss, high flow rate 2, 3-port and manifold specifications—all developed under our motto of "Flawless Prevention of Cutting Chip / Foreign Matter Entry." In addition to valves, we also offer a diverse lineup of products required in coolant environments.

Single valve for coolants

## CV Series



IPX5 M12 CE



### Flow path optimization



Flow path optimization delivers "low pressure loss/high flow rate" and "compact width."

Low pressure: 10A

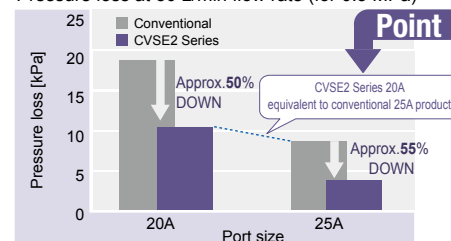
Width: 32 mm

Low pressure: 15A

Width: 43 mm

### Supports size reduction

Pressure loss at 50 L/min flow rate (for 0.5 MPa)



"Low pressure loss/high flow rate" helps to support size reduction.

### CV value

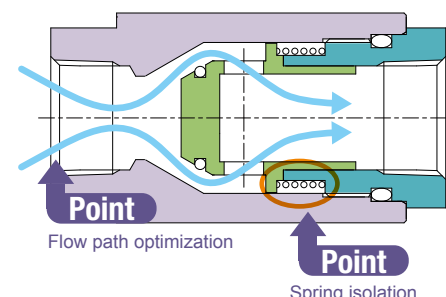
Previous type (25A) ≈ CVSE2-20A

Check valve (for fluids)

## CCH Series



### Device optimized for coolants



### Design based on extensive coolant knowledge

- Flow path optimized via path analysis
- Spring isolation
- Max. working pressure: 7 MPa
- Proof pressure: 14.0 MPa

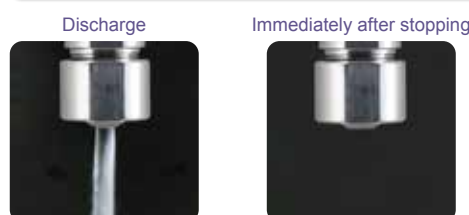
Perfect for protecting pumps and preventing drips

Check valve (nozzle)

## CCN Series



### Integrated nozzle with male thread, female thread



Check valve prevents dripping and improves discharge response with liquid retention in the tube.

- Space saving, compact
- Resistant to foreign debris
- Excellent sealing
- Injection direction adjustment function
- Max. working press.: 1.0 MPa
- Ample Connection variations

Our mission is to help you to control a wide variety of coolant fluids. Contact us to discuss your needs.

Discrete valve for coolants (3-way valve)

### CV Series

Working pressure 0 to 7.0 MPa

Perfect for switching flow paths according to the current work process and for protecting pumps via circulation circuit. Available in low, medium and high pressure variations.

IPX5 M12 CE

Discrete valve for coolants with residual pressure exhaust valve

### CV Series

Working pressure 0 to 7.0 MPa

Residual pressure can be released even if the discharge side of the valve is shut airtight. ATC prevents attachment / detachment mistakes due to residual pressure between tool and valve.

IPX5 M12

Discrete valve for coolants (high pressure)

### CV Series

Working pressure 20.0 MPa

Supports extreme pressure of 20 MPa. Supports machining method diversification; specification dramatically improved from standard 7 MPa. (Made-to-order specification)

Discrete valve for coolants (Low pressure)

### CV Series

Pilot pressure 0.15 MPa and up

Compatible with Pilot pressure of 0.15 MPa. Observing the low pressurization of factories, the actuator has been optimized for stable operation. (Made-to-order)

IPX5 M12

Modular valve for coolants

### GCV Series

Port size 15A, 20A, L20A, 25A, 32A, 40A  
Working pressure 0.5, 1.0, 1.6 MPa

Space saving. Up to 5 modules can be connected. A single unit can be used as a branching valve.

IPX5 M12

Modular valve for coolants (medium pressure)

### GCV Series

Working pressure differential 3.0 MPa

Modular structure compatible with 3 MPa. Expanded GCV usage pressure to help save space. (Made-to-order specification)

We help you to manage coolant fluid flow rate and pressure.

Capacitance electromagnetic flow sensor

### WFC Series

Measurable fluids Water, water-soluble coolant fluid, etc.  
Flow rate range 0.5 to 60 L/min

Coolant: Compatible with water-soluble coolant fluid, its perforated structure can withstand foreign matter. For use in managing and optimizing coolant fluid flow rates. Straight pipe section not required on both ends for easy installation.

IP65 M12 CE IO-Link

Mechanical pressure switch for coolants

### CPE Series

Pressure adjusting range 0.05 to 0.8 MPa

Coolant fluid: Low pressure/switch output type. Mechanical type requires no power supply/voltage. Perfect for lower limit pressure observation, etc.

IP65

Electronic pressure switch for coolants

### CPD Series

Pressure adjusting range 0.00 to 7.0 MPa

Coolant fluid: High pressure/2-point switch output with display. Peak/bottom hold function allows for accurate confirmation of pressure.

IP65



# Processing Jigs

We propose solutions based on our many years of reliable track record. Our "GPS2 Series" and "GPS3 Series" contact switches, and our "G2/G3 Series" cylinders with special structures that flawlessly prevent cutting fluids from entering, make high precision and stable clamping and positioning possible.

Digital gap switch

## GPS3 Series

IP67 M12 CE IO-Link

Wide range, high precision, 2-point setting



### GPS3

Wide-range support

Detection range

30 to 400  $\mu\text{m}$

High pressure blowing

Proof pressure: 0.6 MPa

Point

Gaps (approx.) displayed digitally.

Point

2-point setting.

### GPS3-E

Energy saving

Detection range

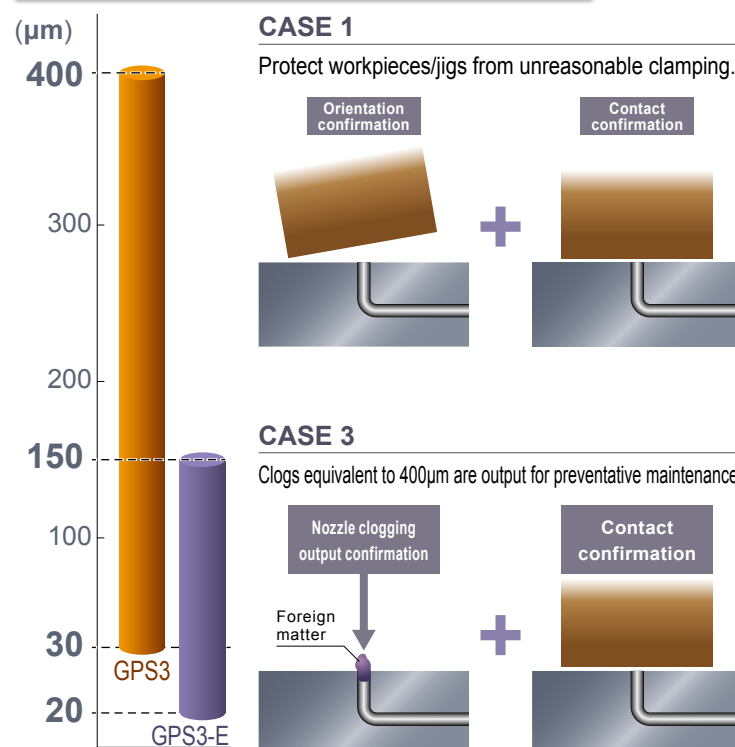
20 to 150  $\mu\text{m}$

Air consumption

Less than 9 L/min

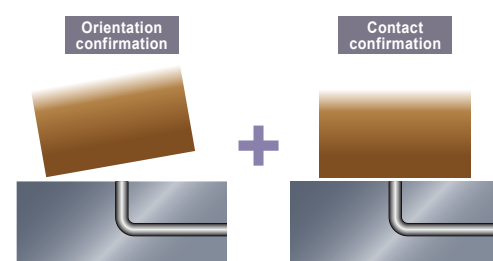


New solutions provided with a single GPS3



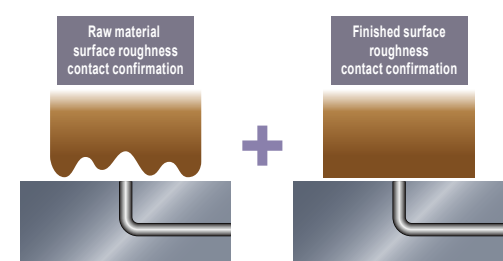
#### CASE 1

Protect workpieces/jigs from unreasonable clamping.



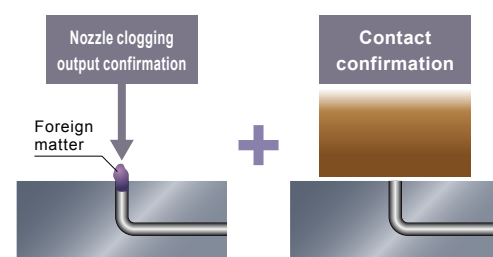
#### CASE 2

Use proper threshold according to machining progress.



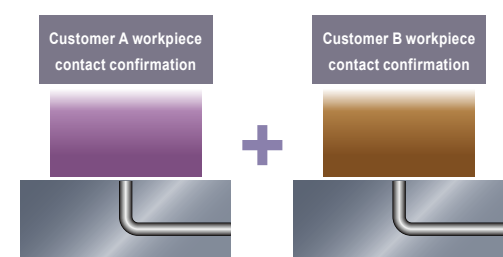
#### CASE 3

Clogs equivalent to 400 $\mu\text{m}$  are output for preventative maintenance.



#### CASE 4

Realize machine manufacturing independent of customer threshold.



When it comes to contact confirmation directly linked with machining precision—we provide reliability and propose new solutions.

Contact confirmation switch (gap switch)  
**GPS2 Series**

Detection range scale	0.03 to 0.4 mm
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Contact sensor that boasts a long track record of reliability. Uses an air bridge circuit for contactless detection. Modularized for implementation together with peripherals.

IP67 M12 CE

Close contact confirmation switch  
**HPS Series**

Detection range scale	0.01 to 0.7 mm
Repeatability	$\pm 0.005$ to $\pm 0.02$ mm

High precision air sensor capable of detection from 0.01 mm. Perfect for confirming tool changer attachment. Supports a resolution of  $\pm 0.005$  mm.

IP67 M12 CE

Cutting tool breakage detection switch  
**TLPS Series**

Detection cutting tool diameter	$\phi 0.3$ to 30 mm
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Cutting tool breakage sensor provides contactless detection of breaking and chipping—even during operation. Air type allows use even in adverse environments.

IP67 M12 CE

Electronic pressure sensor with digital display  
**PPG-D Series**

Set pressure	0 to 1.0 MPa (P type)
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Simple seating confirmation can be done with the pressure switch. It is also possible to detect non-contact and environmental resistance. Analog output also supported.

IP65 CE

We have optimized our air cylinders for improved tact time and superior resistance even under cutting fluids.

High speed cylinder  
**HCA Series**

Bore size	$\phi 20$ to 100 mm
Working piston speed	50 to 3,000 mm

Uses air action with superior shock absorption ability to support high speeds of 3 m/s. Perfect for door opening/closing applications. Lightweight and durable.

High energy absorption cylinder  
**HCM Series**

Bore size	$\phi 20$ to 63 mm
Working piston speed	50 to 2,000 mm

Perfect for medium speed range (2 m/s) under heavy loads. Perfect for door opening/closing applications. New cushioning mechanism provides a smooth stop at the stroke end. Also includes adjustment mechanism.

Speed controller with adjusting dial  
**DSC Series**

Port size	M5 to R1/2
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With little individual variation between flow characteristics in proportion to dial indicator value, setting the speed is easy, and work-hours are greatly reduced.

Coolant proof cylinders  
**G2 Series**

A degree of protection	Using nitrile rubber heavy duty scraper
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Pneumatic cylinder that can be used in locations constantly exposed to cutting fluid. Uses a nitrile rubber heavy duty scraper to prevent cutting fluid penetration.

Coolant proof cylinders  
**G3 Series**

A degree of protection	Using fluoro rubber heavy duty scraper
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Pneumatic cylinder that can be used in locations constantly exposed to cutting fluid. Uses a fluoro rubber heavy duty scraper to prevent cutting fluid penetration.

Water proof improved cylinder switch  
**T2WL Series**

Indicator lamp	Red/green LED (Lit when ON)
Lead wire	PUR code

Achieves over 6 times better water resistance compared to conventional models. Available in T-type, which accommodates a wide variety of cylinder types.

IP67 CE

We are entering the age of sensors. In addition to pressure and flow sensors for air, gas, water, coolant fluids and more, we also propose product applications.

## IO-Link compatible components Series

Digital Gap Switch

### GPS3 Series

- Industry's 1st Touch panel operation
- Nozzle clogging signal can be outputted



Capacitive electromagnetic flow rate sensor

### WFC Series

- Measure liquid temp. and flow rate, and transmit to upper level
- No straight piping required



Compact flow rate sensor RAPIFLOW®

### FSM3 Series

- Gas types can be changed from the top
- Bi-directional detection possible



Compact flow rate controller RAPIFLOW®

### FCM Series

- System error detection (predictive maintenance)
- Compatible with air, argon, and various fluids



Karman Vortex water flow sensor

### WFK2 Series

- Upper transmission of flow rate + water temp. (standard)
- Easy manual flow adjustment



Digital pressure sensor

### PPX Series

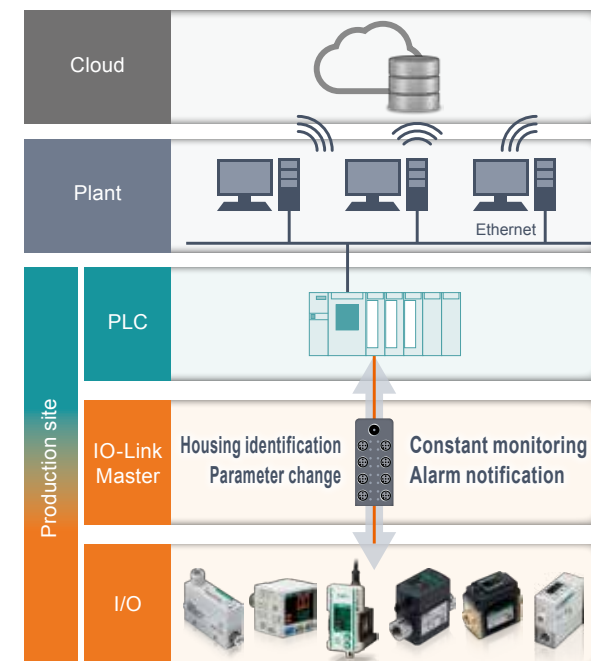
- COM3 adopted transmission speed
- Output error in 2 levels, "caution" or "abnormal"



## What is IO-Link?

IO-Link is a digital communication specification for on-site sensors and actuators in plants. (IEC61131-9)

This enables the transmission of parameters and event data that could not be transmitted by analog communication.



## Features of IO-Link



Continuous monitoring is enabled by the use of digital data.



Parameters can be set or changed via a network, allowing apparatus to be remote-controlled.



The model No., serial No. or other unit-unique information can be confirmed on the network.



Settings can be copied from the master (scanner) unit. This frees the operator from the trouble of having to reset parameters during maintenance.



Device failures and disconnections can be confirmed.



It is possible to connect by changing to an Ethernet network, enabling the creation of an IoT system.



## We help you to manage a wide range of pressures.

Electronic pressure sensor with digital display

### PPG-D Series

Set pressure (R type)	-101.0 to 101.0 kPa
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Air: Digital display. Analog, 2-pt. output switch are available. For original pressure confirmation, pressure abnormality output applications. Overseas compatible (Press. Unit changeable).



Compact electronic pressure switch (electronic air pressure application switch)

### PPE Series

Rated pressure (P10 Type)	0 to 1.0 MPa
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Air: Analog output, miniature, display-less. Switch output also available. Inline, plug, and screw types available.



Electronic pressure switch with digital display (electronic air pressure application switch)

### PPD3-S Series

Rated pressure (R10 Type)	-100 to 980 kPa
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Air: Uses stainless steel diaphragm sensor. Perfect as a countermeasure for miscellaneous air. Supports both 2-point switch output and analog output.



Digital pressure sensor

### PPX Series

Set pressure (P types)	-0.1 to 1.000 MPa
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Air: Increased visualization with twin digital displays. Selectable outputs. According to usage, 3 types available including IO-Link.



Mechanical pressure switch for coolants

### CPE Series

Pressure adjusting range	0.05 to 0.8 MPa
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Coolant fluid: Low pressure/switch output type. Mechanical type requires no power supply/voltage. Perfect for lower limit pressure observation, etc.



Electronic pressure switch for coolants

### CPD Series

Pressure adjusting range	0.00 to 7.0 MPa
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Coolant fluid: High pressure 2-point switch output type with display. Peak/bottom hold function allows for accurate confirmation of pressure.



## Flow rate management solutions for air, gas, water, coolant fluid and more.

Compact flow rate sensor RAPIFLOW® Environmental specifications

### FSM3 Series

Full scale flow rate	0.5 to 1,000 L/min
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Robust model with IP65 or equivalent. Ideal for environments exposed to water or oil mist



Compact flow rate sensor RAPIFLOW®

### FSM3 Series

Full scale flow rate	0.5 to 1,000 L/min
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Air / gas: monitoring flow rates. IO-Link compatible. Also supporting mixed gases of Ar, CO<sub>2</sub> and O<sub>2</sub>.



Flow rate sensor for compressed air (FLUEREX)

### PFD Series

Full scale flow rate	500 to 16,000 L/min (normal)
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Air: High flow rate compatible. Complete air consumption management of machines. Switch, analog, pulse output compatible. Modularization possible.



Capacitive electromagnetic flow sensor

### WFC Series

Working pressure	2.0 MPa
Full scale flow rate	15, 60 L/min



Coolants: Corresponds to water solubility, resistant to foreign matter with Flo-Thru structure. For flow rate control and optimization of coolants. Straight pipes in the front and rear are unnecessary, and installability is excellent.



Karman Vortex water flow sensor FLUEREX

### WFK2 Series

Full scale flow rate	5 to 250 L/min
Port size	Rc 3/8 to Rc 1 1/2



Water: Ideal for monitoring of coolants. Various outputs can be switched. Water thermometer is standard equipment. Compatible with temperatures up to 95°C.



Compact flow rate controller RAPIFLOW®

### FCM Series

Full scale flow rate	0.5 to 100 L/min
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For air/gas flow rate control. Equipped with predictive maintenance functionality. Conventional functions are improved with IO-Link.



\* The IODD file of each product can be downloaded from our homepage.



# Blow / Transport

A new lineup of air blowers frequently used in machine tools will be proposed. With regard to convenience, we are preparing not only simple types, but also single-axis two dimensional transport and three dimensional transport assist.

Pilot 2-port solenoid valve for compressed air

## EXA Series

Aluminum body



IPX5 M12 CE

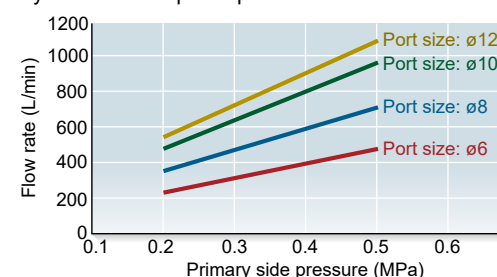
## How to save air blower energy...

High flow rate / low power consumption realized

By adopting the pilot system using a low power consumption (0.6 W) 3-way valve for the actuator, both high flow rates and low power consumption were achieved. (PC direct drive possible)

Flow rate of secondary side at atmosphere pressure release

Contributing to energy savings by downsizing port sizes of components.



Linear guide lock

## LML Series



## Contributes to energy saving when locked Ideal for linear drive lock

Spring-locked

- Lock normally and release by pressurizing air.
- Holding force: 1150 N



## Components for air blow have also been expanded.

Air blow nozzles  
BN Series



Max. working pressure 1.0 MPa

We propose a nozzle for energy saving with air blow. Energy-saving and blower specifications are available.

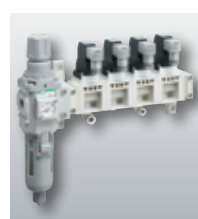
Speed Controller with Adjusting Dial  
DSC-S Series



Applicable tube bore ø4 to 12

Flow rate of the blow can be visually managed. Easy adjustment with flow characteristics in proportion to dial value (needle position) and push lock.

Valve air unit  
CXU-EXA Series



No. of solenoid valves 1 to 4 stations

Regulator and solenoid valve integrated. Space saving. Reduced man-hours. Sealant is not used. Simplified order placement.

IPX5 M12 CE

## Grips the workpiece. High gripping force is also available.

Electric Actuator  
2-Finger Gripper

FLSH Series

New

Max. gripping force	65N
Max. stroke	22 mm



Compact and high gripping force electric gripper. In addition to a rubber cover and option with case, it supports degree of protection IP50.

IP50 CE IO-Link

Electric Actuator  
2-Finger Gripper

FFLD Series

New

Max. gripping force	500N
Max. stroke	160 mm



Electric gripper suitable for robot arms. Long stroke and high rigidity for gripping large workpieces. IP54 protection structure available on special order.

IP54 M12 CE IO-Link

Linear Slide Hand  
LSH-HP1/LSHL-HP1 Series

New

Max. gripping force	(1) 158N(LSH) (2) 65N(LSHL)
Max. stroke	(1) 22 mm(LSH) (2) 22 mm(LSHL)

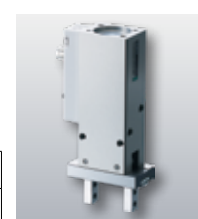


Linear guide with increased rigidity to achieve high rigidity, high precision, and high durability. Helps achieve stable operation at non-stop production facilities.

Length measurement function  
Linear Slide Hand

LSHM-HP2 Series

Max. gripping force	65N
Max. stroke	20 mm



Long measuring hand with high precision analog output of finger position. The linear slide hand has a built-in displacement sensor and amplifier. The integrated structure achieves a high repeatability of ±0.02 mm.

Thin Long-Stroke Hand  
LST-HP1 Series

New

Max. gripping force	141N
Max. stroke	80 mm



Thin design from double piston system. High rigidity and high precision are realized by improving the performance of the linear guide. Helps achieve stable operation at non-stop production facilities.

Low-Profile Long Stroke Hand with Length Measuring Function  
LSTM-HP2 Series

New

Max. gripping force	141N
Max. stroke	20 mm

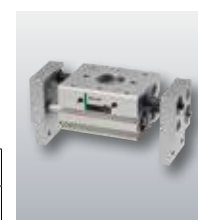


The linear slide hand is equipped with a displacement sensor (LVDT). Contributes to workpiece model judgment and predictive maintenance by detecting the gripping position with high repeatability of ±0.04 mm and linearity of F.S.±0.5%.

Wide Parallel Hand  
HMC-HP1 Series

New

Max. gripping force	396N
Max. stroke	200 mm



The design of the guide has been revised to increase the rigidity of the guide by 1.3 times. Durability more than twice that of conventional models is realized by technological innovation in sliding. Compact and high gripping force realized by double piston structure.

High gripping force hand  
HHC/HHH Series

Special-order product

Theoretical gripping force	(1) 4200N(HHC) (2) 5333N(HHD)
Operating stroke	(1) 70mm(HHC) (2) 40mm(HHD)



High gripping force of 5333N compatibility. Long stroke, 70 mm compatible. Long jaw, lightweight, with switch.

3-Way Chuck  
CKW-HP1 Series

New

Max. gripping force	118N
Max. stroke	8 mm



The design of the guide has been revised to increase the rigidity of the guide by 1.3 times. Durability more than twice that of conventional models is realized by technological innovation in sliding. Maintenance work-hours are greatly reduced by adopting the "positioning hole" of grip center reference and a new switch replacement method.

High gripping force chuck  
CKT/CKU Series

Special-order product

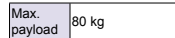
Theoretical gripping force	(1) 5500N(CKT) (2) 8333N(CKU)
Operating stroke	(1) 70mm(CKT) (2) 40mm(CKU)



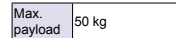
High gripping force of 8333N compatibility. Long stroke, 70 mm compatible. Long jaw, lightweight, with switch.



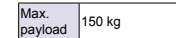
*New*



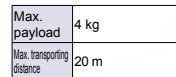
**IP50** **CE** **IO-Link**



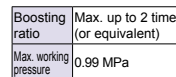
## ETS Series



Max. payload	85 kg
Max. stroke	3500 mm



Max. payload	4 kg
Max. transporting distance	20 mm



Load capacity	80 kg
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**<https://www.ckd.co.jp/en/>**

**Materials/download  
2D/3D CAD data**

[illegible]





## CKD Corporation

Website <https://www.ckd.co.jp/en/>

### ASIA

#### 喜開理(上海)機器有限公司

#### CKD(SHANGHAI)CORPORATION

●營業部/上海浦西事務所(SALES HEADQUARTERS / SHANGHAI PUXI OFFICE)  
Room 612, 6th Floor, Yuanzhongkeyan Building, No. 1905  
Hongmei Road, Xuhui District, Shanghai 200233, China  
PHONE +86-21-60906046 FAX +86-21-60906046

- 上海浦東事務所(SHANGHAI PUDONG OFFICE)
- 寧波事務所(NINGBO OFFICE)
- 杭州事務所(HANGZHOU OFFICE)
- 無錫事務所(WUXI OFFICE)
- 昆山事務所(KUNSHAN OFFICE)
- 蘇州事務所(SUZHOU OFFICE)
- 南京事務所(NANJING OFFICE)
- 合肥事務所(HEFEI OFFICE)
- 成都事務所(CHENGDU OFFICE)
- 武漢事務所(WUHAN OFFICE)
- 鄭州事務所(ZHENGZHOU OFFICE)
- 長沙事務所(CHANGSHA OFFICE)
- 重慶事務所(CHONGQING OFFICE)
- 西安事務所(XIAN OFFICE)
- 廣州事務所(GUANGZHOU OFFICE)
- 中山事務所(ZHONGSHAN OFFICE)
- 深圳西事務所(WEST SHENZHEN OFFICE)
- 深圳東事務所(EAST SHENZHEN OFFICE)
- 東莞事務所(DONGGUAN OFFICE)
- 廈門事務所(XIAMEN OFFICE)
- 福州事務所(FUZHOU OFFICE)
- 瀋陽事務所(SHENYANG OFFICE)
- 大連事務所(DALIAN OFFICE)
- 長春事務所(CHANGCHUN OFFICE)
- 北京事務所(BEIJING OFFICE)
- 天津事務所(TIANJIN OFFICE)
- 青島事務所(QINGDAO OFFICE)
- 濰坊事務所(WEIFANG OFFICE)
- 濟南事務所(JINAN OFFICE)
- 烟台事務所(YANTAI OFFICE)

#### CKD INDIA PRIVATE LTD.

##### ●HEADQUARTERS

Unit No. 607, 6th Floor, Welldone Tech Park, Sector 48,  
Sohna Road, Gurgaon-122018, Haryana, India  
PHONE +91-124-418-8212

- BANGALORE OFFICE
- PUNE OFFICE
- CHENNAI OFFICE
- MUMBAI OFFICE
- HYDERABAD OFFICE

□ 2-250 Uji, Komaki City, Aichi 485-8551, Japan

□ PHONE +81-568-74-1338 FAX +81-568-74-1165

#### PT CKD TRADING INDONESIA

##### ●HEAD OFFICE

Menara Bidakara 2, 18th Floor, Jl. Jend. Gatot Subroto Kav.  
71-73, Pancoran, Jakarta 12870, Indonesia  
PHONE +62-21-2938-6601 FAX +62-21-2906-9470

- MEDAN OFFICE
- BEKASI OFFICE
- KARAWANG OFFICE
- SEMARANG OFFICE
- SURABAYA OFFICE

#### CKD KOREA CORPORATION

##### ●HEADQUARTERS

(3rd Floor), 44, Sinsu-ro, Mapo-gu, Seoul 04088, Korea  
PHONE +82-2-783-5201~5203 FAX +82-2-783-5204

- 水原營業所(SUWON OFFICE)
- 天安營業所(CHEONAN OFFICE)
- 蔚山營業所(ULSAN OFFICE)

#### M-CKD PRECISION SDN.BHD.

##### ●HEAD OFFICE

Lot No.6, Jalan Modal 23/2, Seksyen 23, Kawasan MIEL,  
Fasa 8, 40300 Shah Alam, Selangor Darul Ehsan, Malaysia  
PHONE +60-3-5541-1468 FAX +60-3-5541-1533

- JOHOR BAHRU BRANCH OFFICE
- PENANG BRANCH OFFICE

#### CKD SINGAPORE PTE. LTD.

No.33 Tannery Lane #04-01 Hoesteel Industrial  
Building, Singapore 347789, Singapore  
PHONE +65-67442623 FAX +65-67442486

#### CKD CORPORATION BRANCH OFFICE

No.33 Tannery Lane #04-01 Hoesteel Industrial  
Building, Singapore 347789, Singapore  
PHONE +65-67447260 FAX +65-68421022

#### CKD THAI CORPORATION LTD.

##### ●HEADQUARTERS

19th Floor, Smooth Life Tower, 44 North Sathorn Road,  
Silom, Bangrak, Bangkok 10500, Thailand  
PHONE +66-2-267-6300 FAX +66-2-267-6304-5

- NAVANAKORN OFFICE
- EASTERN SEABOARD OFFICE
- LAMPHUN OFFICE
- KORAT OFFICE
- AMATANAKORN OFFICE
- PRACHINBURI OFFICE
- SARABURI OFFICE

#### 台灣喜開理股份有限公司

#### TAIWAN CKD CORPORATION

##### ●HEADQUARTERS

16F-3, No. 7, Sec. 3, New Taipei Blvd., Xinzhuang Dist.,  
New Taipei City 242, Taiwan  
PHONE +886-2-8522-8198 FAX +886-2-8522-8128

- 新竹營業所(HSINCHU OFFICE)
- 台中營業所(TAICHUNG OFFICE)
- 台南營業所(TAINAN OFFICE)
- 高雄營業所(KAOHSIUNG OFFICE)

#### CKD VIETNAM ENGINEERING CO.,LTD.

##### ●HEADQUARTERS

18th Floor, CMC Tower, Duy Tan Street, Cau Giay  
District, Hanoi, Vietnam  
PHONE +84-24-3795-7631 FAX +84-24-3795-7637

- HO CHI MINH OFFICE

### EUROPE

#### CKD EUROPE B.V.

##### ●HEADQUARTERS

Beechavenue 125A, 1119 RB Schiphol-Rijk, the Netherlands  
PHONE +31-23-554-1490

- CKD EUROPE GERMANY OFFICE
- CKD EUROPE UK
- CKD EUROPE CZECH O.Z.

#### CKD CORPORATION EUROPE BRANCH

Beechavenue 125A, 1119 RB Schiphol-Rijk, the Netherlands  
PHONE +31-23-554-1490

#### CKD ITALIA S.R.L.

Via di Fibbiana 15 Calenzano (FI) CAP 50041, Italy  
PHONE +39 0558825359 FAX +39 0558827376

### NORTH AMERICA & LATIN AMERICA

#### CKD MEXICO, S. DE R.L. DE C.V.

Cerrada la Noria No. 200 Int. A-01, Querétaro Park II,  
Parque Industrial Querétaro, Santa Rosa Jáuregui,  
Querétaro, C.P. 76220, México  
PHONE +52-442-161-0624

#### CKD USA CORPORATION

##### ●HEADQUARTERS

1605 Penny Lane, Schaumburg, IL 60173, USA  
PHONE +1-847-648-4400 FAX +1-847-565-4923

- LEXINGTON OFFICE
- SAN ANTONIO OFFICE
- SAN JOSE OFFICE/ TECHNICAL CENTER
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