

Product Guide for Machine Tools



Processing Machines



Processing Jigs



Carrier Lines



Pneumatic Devices



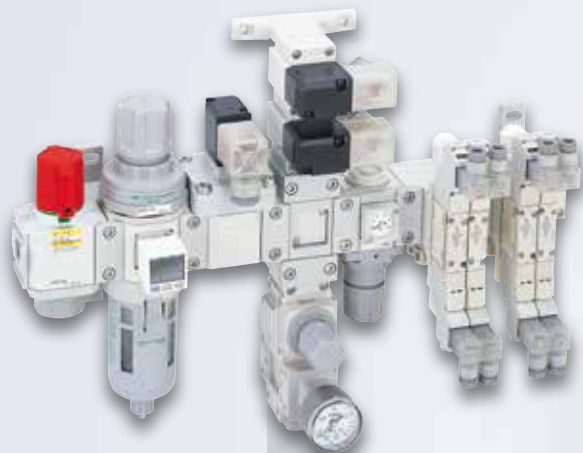
Coolant Control



Pneumatic Supply Device

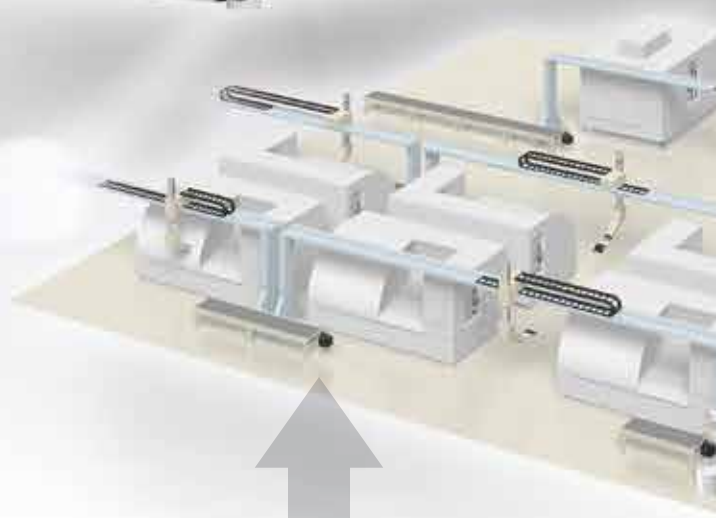
Pneumatic Supply

Supplies stable air for stable machining.



CKD: Your evolving ma

Machine tools used at manufac continue to evolve. We continue pneumatic pressure technologies all machines tools.



Coolant Control

Coolant Control

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



Blow / Carrier

Blow / Transport

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

partner for machine tools

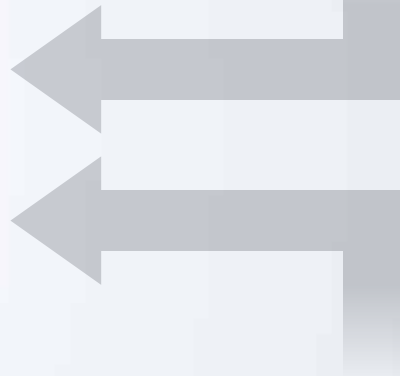
Manufacturing sites all over the world
to leverage our fluid and
to provide solutions to support



Processing Jig

Processing Jig

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



Sensor

Sensor

Visualizes machine tools
to suggest applications.



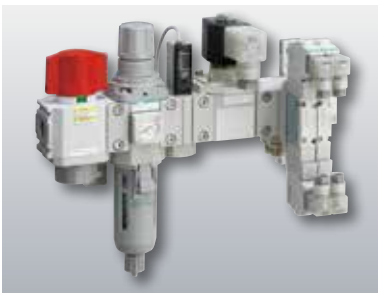


Pneumatic Supply

Our CXU Series air units promise to reform piping in the machine tools industry, under our motto of "eliminating 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



CXU connection equipment

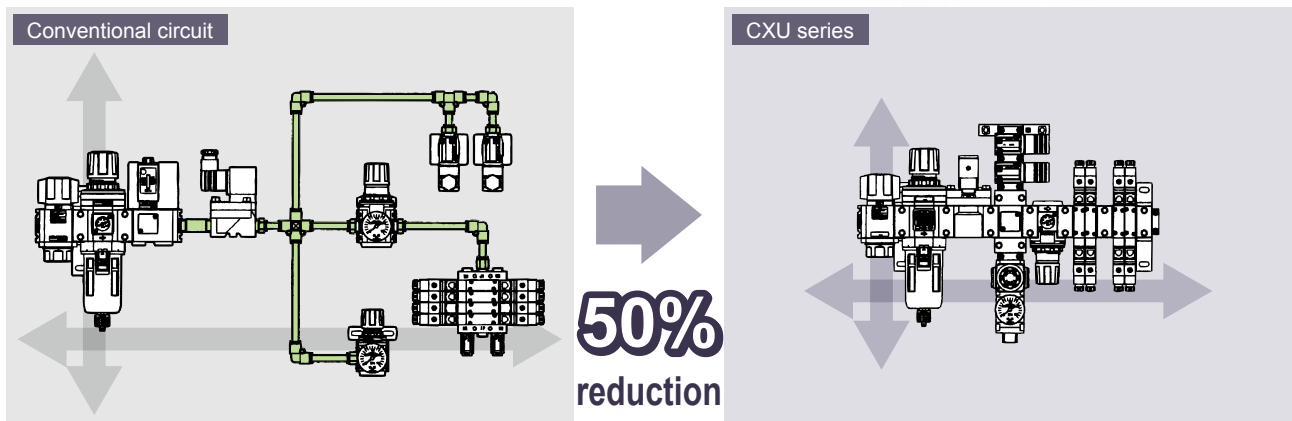


- IP65
- M12
- CE



Modularization

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



Conventional products

- Piping**
 - Labor hours
 - Tubes
- Mounting dimension errors**
 - Occurs when gauging
- Installation space**
 - Much space required for gauging
- Quality risk**
 - Foreign matter contamination
 - External leakage
- Design**
 - Selection
 - Layout
 - Part drawings, etc.
- Screws**
 - 10pcs.
- Mounting screws**
 - 16pcs.
- Required vouchers**
 - 12sheets

CXU

- Piping**
 - No labor
 - No tubes
- Mounting dimension errors**
 - No gauging, no difference
- Installation space**
 - 50% reduced
- Quality risk**
 - Less screws, reduced risk
- Design**
 - Selection support
 - CAD drawing provided
- Screws**
 - 2pcs.
- Mounting screws**
 - 6pcs.
- Required vouchers**
 - 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.
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High precision predictive maintenance. The element replacement timing is notified visually and with 2 switches.



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 to work safely.

Shut-off 3-port solenoid valve for air units

VE Series



Effective X-sectional area	P→A: 35 mm ² ,
	A→R: 20 mm ²
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.



Slow start valve

V3301 Series



Effective cross-sectional area	(1) Low speed air supply: 6 mm ²
	(2) High speed air supply: 40 to 76 mm ²
	(3) High speed exhaust: 50 to 78 mm ²

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.



Residual pressure exhaust valve with spool position detection

SNP Series

SNS Series



Effective cross-sectional area	P→A: 50 to 170 mm ² ,
	A→R: 70 to 180 mm ²

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.



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



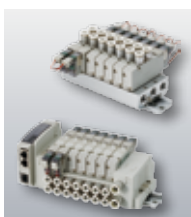
Set pressure	0.05 to 0.7 MPa
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Miniature regulator perfect for saving space. Compact with a width of only 25 mm, features built-in reverse flow function with fitting included. Also available as panel mount and manifold type.

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.



Plug-in block manifold

W4G Series



Applicable cylinder diameter	(1) Up to ø80 (W4GB2),
	(2) Up to ø125 (W4GB4)

IP65-compatible for high environmental resistance; plug-in type for easy valve replacement provides ease of use.



Pilot operated 5-port valve ISO compliant valve

PV5G Series



Applicable cylinder diameter	(1) Up to ø100 (size 1),
	(2) Up to ø160 (size 2)

Compliant with international ISO standards, this product is improved in every way, including size, weight, energy consumption, control, service life and environmental performance.





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



Shape of flow path optimized.

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

Low pressure: 10A

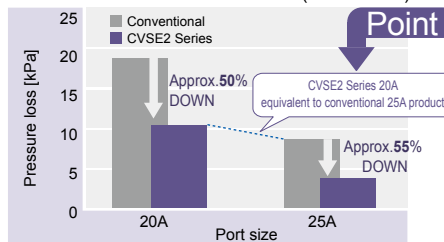
Width: 32 mm

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

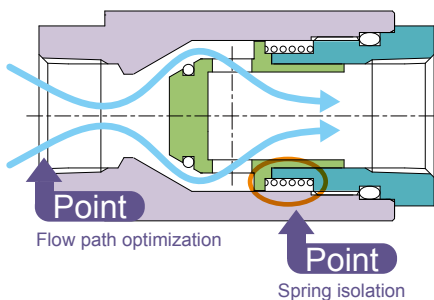
Previous type (25A) ≈ CVSE2-20A

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

New

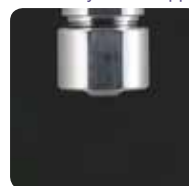


Integrated nozzle with male thread, female thread

Discharge



Immediately after stopping



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
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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.



Discrete valve for coolants with residual pressure exhaust valve

CV Series



Working pressure	0 to 7.0 MPa
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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.



Discrete valve for coolants (high pressure)

CV Series



Working pressure	20.0 MPa
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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 pilot pressure)

CV Series



Pilot pressure	0.15 MPa and up
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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)



Modular valve for coolants

GCV Series



Port size	15 A, 20 A
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.



Modular valve for coolants (medium pressure)

GCV Series



Working pressure differential	3.0 MPa
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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.



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 with display. Peak/bottom hold function allows for accurate confirmation of pressure.





Processing Jig

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 μm

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 μm

Air consumption

Less than 9 L/min

New



New solutions provided with a single GPS3

(μm)

400

300

200

150

100

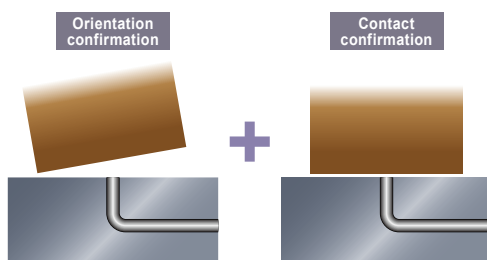
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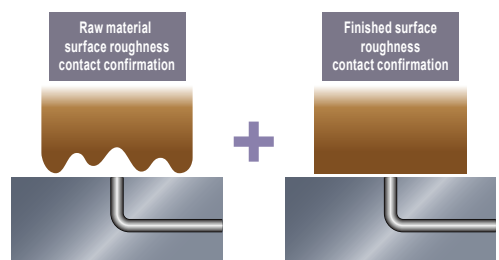
CASE 1

Protect workpieces/jigs from unreasonable clamping.



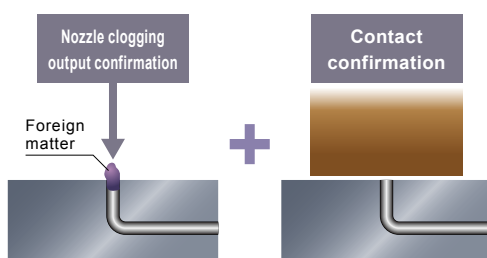
CASE 2

Use proper threshold according to machining progress.



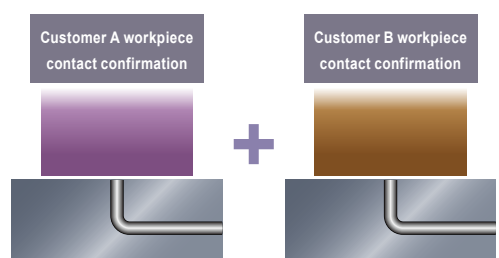
CASE 3

Clogs equivalent to 400 μm 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.



Close contact confirmation switch
HPS Series



Detection range scale	0.01 to 0.7 mm
Repeatability	±0.005 to ±0.02 mm

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



Cutting tool breakage detection switch
TLPS Series



Detection cutting tool diameter	ø0.3 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.



Electronic pressure sensor with digital display
PPG-D Series



Set pressure (P type)	~0.1 to 1.000 MPa
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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.



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

High speed cylinder
HCA Series



Bore size	ø20 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. Light-weight and durable.

High energy absorption cylinder
HCM Series



Bore size	ø20 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.

Cylinder switch
T2YL Series



Indicator light	Red/green LED lit (when ON)
Lead wire	Oil resistant vinyl cabtyre cable

Cylinder switch designed to prevent cutting fluid penetration. Supported by a wide variety of T-type cylinders.



Sensors

We are entering the age of sensors. In addition to pressure and flow sensors for air, gas, water, coolant fluid 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



Compact flow rate controller RAPIFLOW®

FCM Series

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



Capacitive electromagnetic flow rate sensor

WFC Series

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



Karman Vortex water flow sensor

WFK2 Series

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



Compact flow rate sensor RAPIFLOW®

FSM3 Series

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



Digital pressure sensor

PPX Series

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

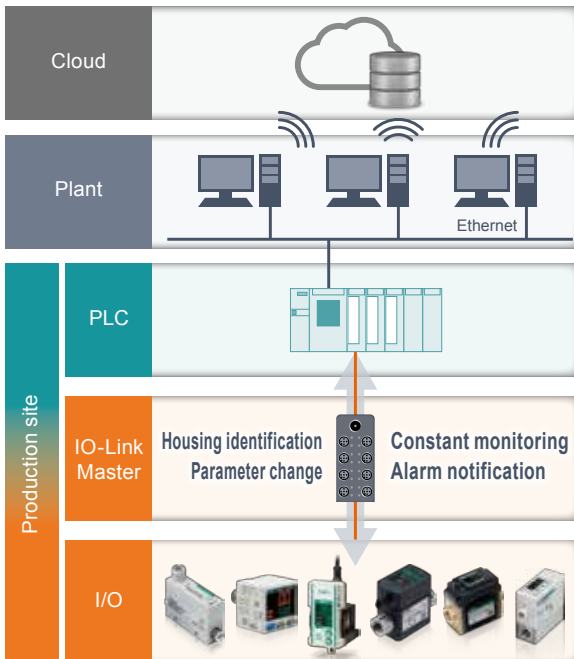


What is IO-Link?



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.

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

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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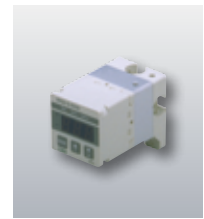


Air: Analog output, miniature, display-less. Switch output also available. Inline, plug, and screw types available.



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®
FSM2 Series

Full scale flow rate	0.5 to 1,000 L/min
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Air/gas: For flow rate observation. Select from switch or analog output. Also capable of pulse output for each integrated value.



Compact flow rate sensor
RAPIFLOW®
FSM3 Series

Full scale	0.5 to 1,000 L/min
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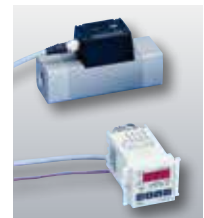


Air / gas: monitoring flow rates. IO-Link compatible. Also supporting mixed gases of Ar, CO₂ and O₂.



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
Flow rate range	0.5 to 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

Flow rate range	0.4 to 250 L/min
Port size	Rc 3/8 to Rc1 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

Flow rate range	0.015 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.





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

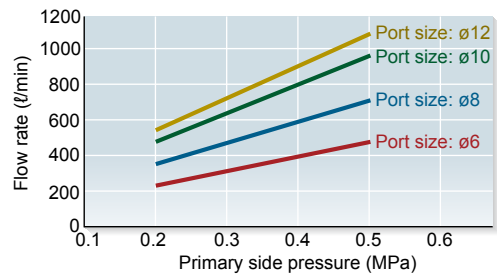
How to save air blower energy...

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

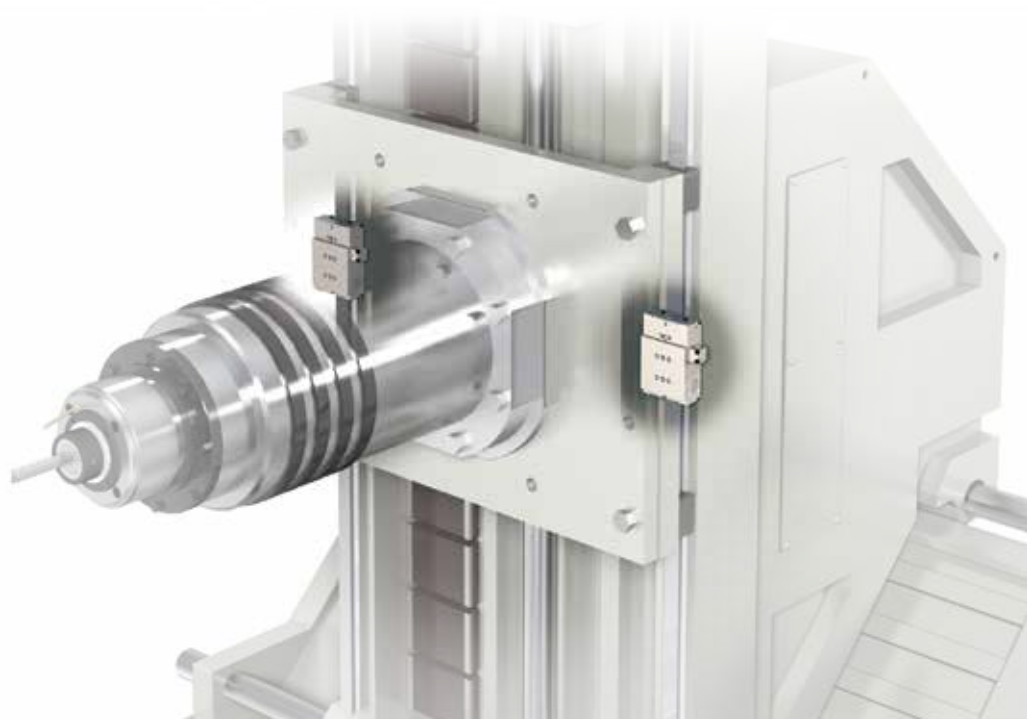


Spring-locked

- Always locked; released via air pressurization.
- LML for linear guides. RTL for round shafts.
- Holding force: 1,150 N (LML)
- Locking torque: 68 N·m (RTL)

Helps to save energy when locking. Perfect for use as a linear drive lock.

RTL Series



The components for air blowers are also being expanded.

Air blow nozzle

BN Series



Max. working pressure	1.0 MPa
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Introducing energy-saving air blow nozzles. Lineup of energy-saving types, blower specifications, etc.

Speed controller with dial Inline type

DSC-S Series



Applicable tube O.D.	φ4 to 12
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The blower flow rate can be seen and visually controlled. Proportional flow rates to the dial value (needle position) and push-lock features make adjustments simple.

Valve air unit

CXU-EXA Series

Series



Solenoid valve station No.	1 to 4 stations
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Integrated regulator and solenoid valve. Space saving and reduces man-hours. No sealing materials needed. Simplification of work arrangements.



Grip workpieces. We also provide products with powerful gripping power.

Powerful gripping power hand

HHC/HHD Series

Theoretical gripping power	(1) 4,200 N (HHC)
	(2) 5,333 N (HHD)
Operating stroke length	(1) 70 mm (HHC)
	(2) 40 mm (HHD)



Strong gripping power-up to 5,333 N. Supports long strokes of 70 mm. Several versions available including long claw, lightweight and switched type.

Powerful gripping power chuck

CKT/CKU Series

Theoretical gripping power	(1) 5,500 N (CKT)
	(2) 8,333 N (CKU)
Operating stroke length	(1) 70 mm (CKT)
	(2) 40 mm (CKU)



Strong gripping power-up to 8,333 N. Supports long strokes of 70 mm. Several versions available including long claw, lightweight and switched type.

Linear Slide Hand

LSH-HP Series

Series



Operational stroke	4, 6, 10, 14 mm
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The performance of the linear guide has been greatly improved, and by the optimization of the packing design, high rigidity and long service life were realized.

Carry workpieces. We offer a lineup of motor-driven, air-driven and assist devices.

Electric actuator

ETS Series



Max. load capacity	150 kg
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Can select from motor-less actuator. Version or versions that use motors from various company. We offer a wide range of highly rigid actuators.

Electric actuator low dust generation

ECS Series



Max. load capacity	50 kg
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Can select from motor-less actuator. Version or versions that use motors from various company. We offer a wide range of covered low dust actuators.

Electric shuttle mover

ESM Series



Max. load capacity	4 kg
Max. transporting distance	20 m

Single axis, two-dimensional transport. Perfect for gate-shaped transport in factories. Maximum long stroke of 20 m allows for multi-point positioning.

Electric actuator

EBS Series



Max. conveyance payload	50 kg
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Motorless actuator. Stronger, smaller, faster. Motors can be freely selected.

Electric actuator

EBS-M/EBR-M Series



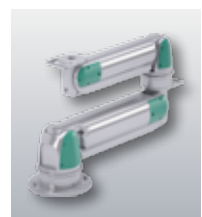
Max. load capacity	80 kg
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Comes with motor. Has "One Controller" system that connects to any actuator. Downsized with a compact, high rigidity body.



PowerArm Assistive Mechanism

PAW Series



Load capacity	80 kg
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Supports carrying, holding, and lifting heavy objects. Compact multi-axis specification enables a wide range of motion.





Global Service Network

We supply high-quality products to the world through our Global

In order to ensure prompt delivery of the optimal products, technologies and services, we are working to expand our bases in Japan and overseas and to strengthen our ties with customers. In particular, we have set up offices in major regions of Europe, North America and Asia and are working more closely with customers in various regions of the world.



Plants overseas

China
[CKD CHINA]

Strategic supply base for global products

Thailand
[CKD THAI]

Overseas production base covering the ASEAN region

South Korea
[CKD KOREA]

Overseas manufacturing base for devices used in semiconductor manufacturing equipment

Malaysia
[M-CKD PRECISION]

Plant providing rapid response to users' needs

Indonesia
[PT CKD MANUFACTURING INDONESIA]

Overseas manufacturing base that meets Indonesian market needs

Global Service Network

<p>EUROPE</p> <ul style="list-style-type: none"> CKD EUROPE B.V. (SCHIPHOL-RIJK) <ul style="list-style-type: none"> Germany Office GERMANY OFFICE Czech Office CZECH OFFICE UK Office UK OFFICE CKD CORPORATION EUROPE BRANCH <p>ASIA</p> <p>China</p> <ul style="list-style-type: none"> CKD (Shanghai) Corporation <ul style="list-style-type: none"> Shanghai Puxi Office Shanghai Pudong Office Ningbo Office Hangzhou Office Wuxi Office Kunshan Office Suzhou Office Nanjing Office Hefei Office Chengdu Office Wuhan Office Zhengzhou Office Changsha Office Chongqing Office Xi'an Office Guangzhou Office Zhongshan Office Shenzhen West Office Shenzhen East Office Dongguan Office Xiamen Office Fuzhou Office Shenyang Office Changchun Office Dalian Office Beijing Office Tianjin Office Qingdao Office Weifang Office Jinan Office Yantai Office 	<p>Republic of Korea</p> <ul style="list-style-type: none"> CKD KOREA CORPORATION(SEOUL) <ul style="list-style-type: none"> Suwon Sales Office Cheon'an Sales Office Ulsan Sales Office <p>Taiwan</p> <ul style="list-style-type: none"> TAIWAN CKD CORPORATION(TAIPEI) <ul style="list-style-type: none"> Hsinchu Sales Office Taichung Sales Office Tainan Sales Office Kaohsiung Sales Office <p>Singapore</p> <ul style="list-style-type: none"> CKD SINGAPORE PTE. LTD.(SINGAPORE) CKD CORPORATION BRANCH OFFICE(Asia Pacific) <p>Malaysia</p> <ul style="list-style-type: none"> M-CKD PRECISION SDN. BHD.(SHAH ALAM) <ul style="list-style-type: none"> Johor Bahru Sales Office Penang Sales Office 	<p>Thailand</p> <ul style="list-style-type: none"> CKD THAI CORPORATION LTD.(BANGKOK) <ul style="list-style-type: none"> Rayong Sales Office Nava Nakorn Sales Office Eastern Seaboard Sales Office Lamphun Sales Office Korat Sales Office Amata Nakorn Sales Office Prachin Buri Sales Office Saraburi Sales Office <p>India</p> <ul style="list-style-type: none"> CKD INDIA PRIVATE LIMITED(GURGAON) <ul style="list-style-type: none"> Bangalore Sales Office <p>Indonesia</p> <ul style="list-style-type: none"> PT CKD TRADING INDONESIA(JAKARTA) <ul style="list-style-type: none"> Bekasi Sales Office Karawang Sales Office Surabaya Sales Office <p>Vietnam</p> <ul style="list-style-type: none"> CKD VIETNAM ENGINEERING CO., LTD.(HANOI) 	<p>NORTH AMERICA</p> <p>United States</p> <ul style="list-style-type: none"> CKD USA CORPORATION(CHICAGO) <ul style="list-style-type: none"> Lexington Sales Office San Jose Sales Office / Technical Center San Antonio Sales Office Detroit Sales Office Boston Office <p>CENTRAL AND SOUTH AMERICA</p> <p>Mexico</p> <ul style="list-style-type: none"> CKD MEXICO, S. DE R.L. DE C. V.(QUERETARO)
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Service Network, while strengthening our ties with customers.

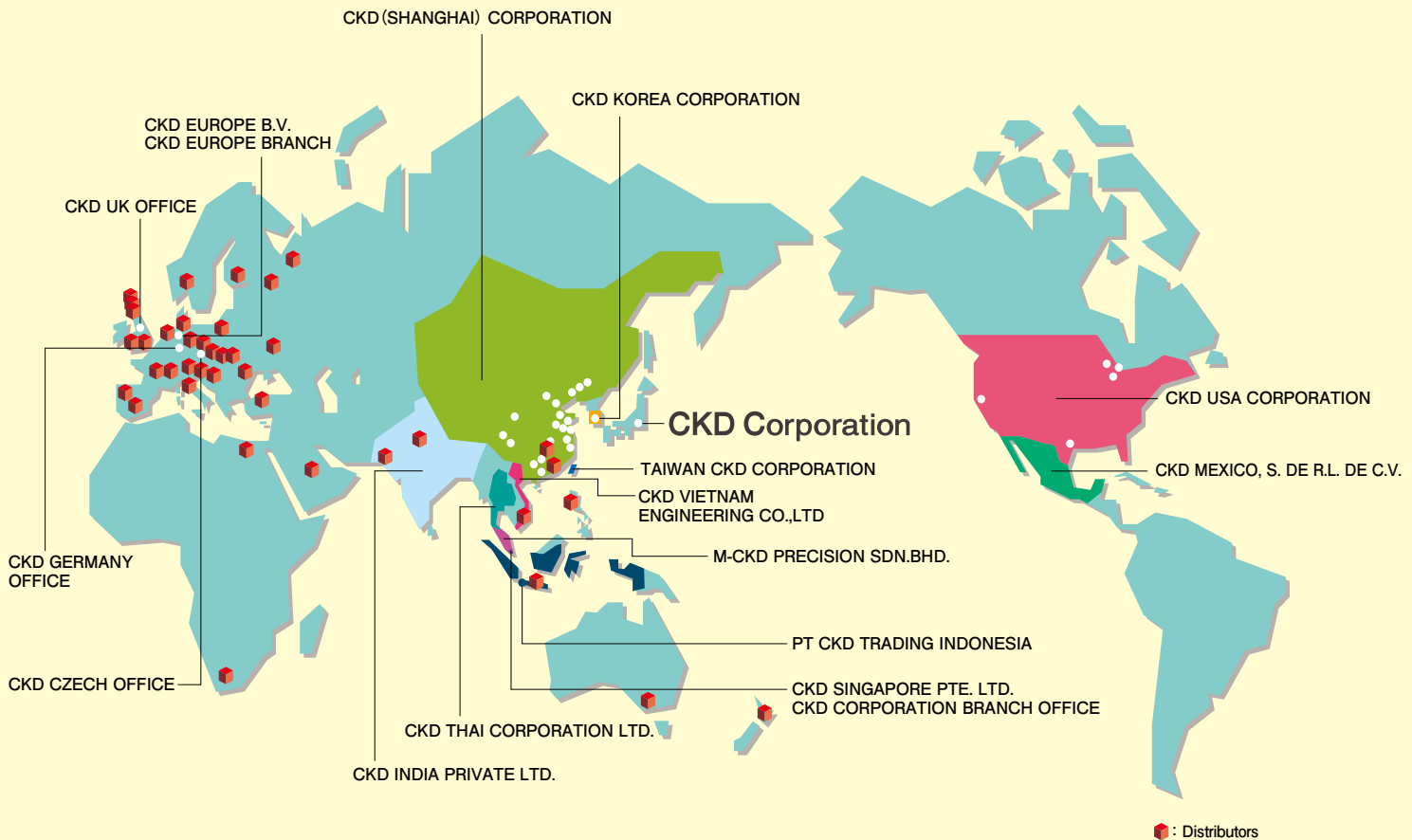


Plants in Japan

Headquarters Plant	Kasugai Plant	Yokkaichi Plant	Inuyama Plant	Tohoku Plant
Main plant for FA business	Manufacturing factory for fluid control components used in semiconductor manufacturing equipment	Mass production plant of pneumatic and fluid valves that aims to save power and space	Main plant for pneumatic cylinders that aims for high function and high performance	Production plant for fluid control components mainly for semiconductor manufacturing, and components for automotive, electrical and electronics industries

Domestic Sales Network

East Japan Branch Office	Central Japan Branch Office	West Japan Branch Office
<p>〒105-0013 Bunkahousou Media Plus 4F, Hamamatsu-cho 1-31-1, Minato-ku, Tokyo TEL (03) 5402-3620 FAX (03) 5402-0120</p> <p>Eastern Region Sales Office</p> <p>〒981-3133 SAKAE Izumi Chuo Bldg. #401, Izumi Chuo 4-chome 1-5, Izumi-ku, Sendai TEL: (022) 772-3041 FAX: (022) 772-3047 Sendai Sales Office / Utsunomiya Sales Office / Kitakami Sales Office Yamagata Sales Office / Ota Sales Office / Koriyama Sub-Office</p> <p>Tokyo Sales Division</p> <p>〒105-0013 Bunkahousou Media Plus 4F, Hamamatsu-cho 1-31-1, Minato-ku, Tokyo TEL (03) 5402-3628 FAX (03) 5402-0122 Tokyo Sales Office / Sapporo Branch Office / Saitama Sales Office Ibaraki Sales Office / Tachikawa Sales Office / Chiba Sales Office / Nagaoka Sales Office</p> <p>Minami-Kanto Sales Division</p> <p>〒243-0027 Aikoh-higashi 1-22-6, Atsugi-shi, Kanagawa TEL (046) 226-5201 FAX (046) 226-5208 Yokohama Sales Office / Atsugi Sales Office / Kofu Sales Office</p>	<p>〒485-8551 2-250 Oujii, Komaki City, Aichi TEL (0568) 74-1356 FAX (0568) 77-3317</p> <p>Nagoya Sales Division</p> <p>〒485-8551 2-250 Oujii, Komaki City, Aichi TEL (0568) 74-1356 FAX (0568) 77-3317 Nagoya Sales Office / Komaki Sales Office / Matsumoto Sales Office Toyama Sales Office / Kanazawa Sales Office / Yokkaichi Sales Office</p> <p>Tokai Sales Division</p> <p>〒473-0912 Hirota 103, Hirota-cho, Toyota-shi, Aichi TEL (0565) 54-4771 FAX (0565) 54-4755 Toyota Sales Office / Mikawa Sales Office / Shizuoka Sales Office Hamamatsu Sales Office</p>	<p>〒550-0001 Tosabori 1-3-20, Nishi-ku, Osaka-shi, Osaka TEL (06) 6459-5770 FAX (06) 6446-1945</p> <p>Osaka Sales Division</p> <p>〒550-0001 Tosabori 1-3-20, Nishi-ku, Osaka-shi, Osaka TEL (06) 6459-5775 FAX (06) 6446-1955 Osaka Sales Office / Osaka East Sales Office / Shiga Sales Office Kyoto Sales Office / Nara Sales Office / Kobe Sales Office</p> <p>Western Region Sales Office</p> <p>〒730-0029 Kureshin Hiroshima Bldg. 3F, Mikawa-cho 2-6, Naka-ku, Hiroshima-shi, Hiroshima TEL (082) 545-5125 FAX (082) 244-2010 Hiroshima Sales Office / Okayama Sales Office / Yamaguchi Sales Office / Takamatsu Sales Office Matsuyama Sales Office / Fukuoka Sales Office / Kitakyushu Sales Office / Kumamoto Sales Office</p> <p>Affiliated companies</p> <ul style="list-style-type: none"> ●CKD Global Service Co., Ltd. ●CKD Field Engineering Co., Ltd. ●CKD Shikoku Seiko Co., Ltd. ●CKD Nikki Denso Co., Ltd.



CKD Corporation

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

ASIA

喜開理(上海)機器有限公司

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- 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)
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- 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)
- 長春事務所 (CHANGCHUN OFFICE)
- 大連事務所 (DALIAN OFFICE)
- 北京事務所 (BEIJING OFFICE)
- 天津事務所 (TIANJIN OFFICE)
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- DETROIT OFFICE
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