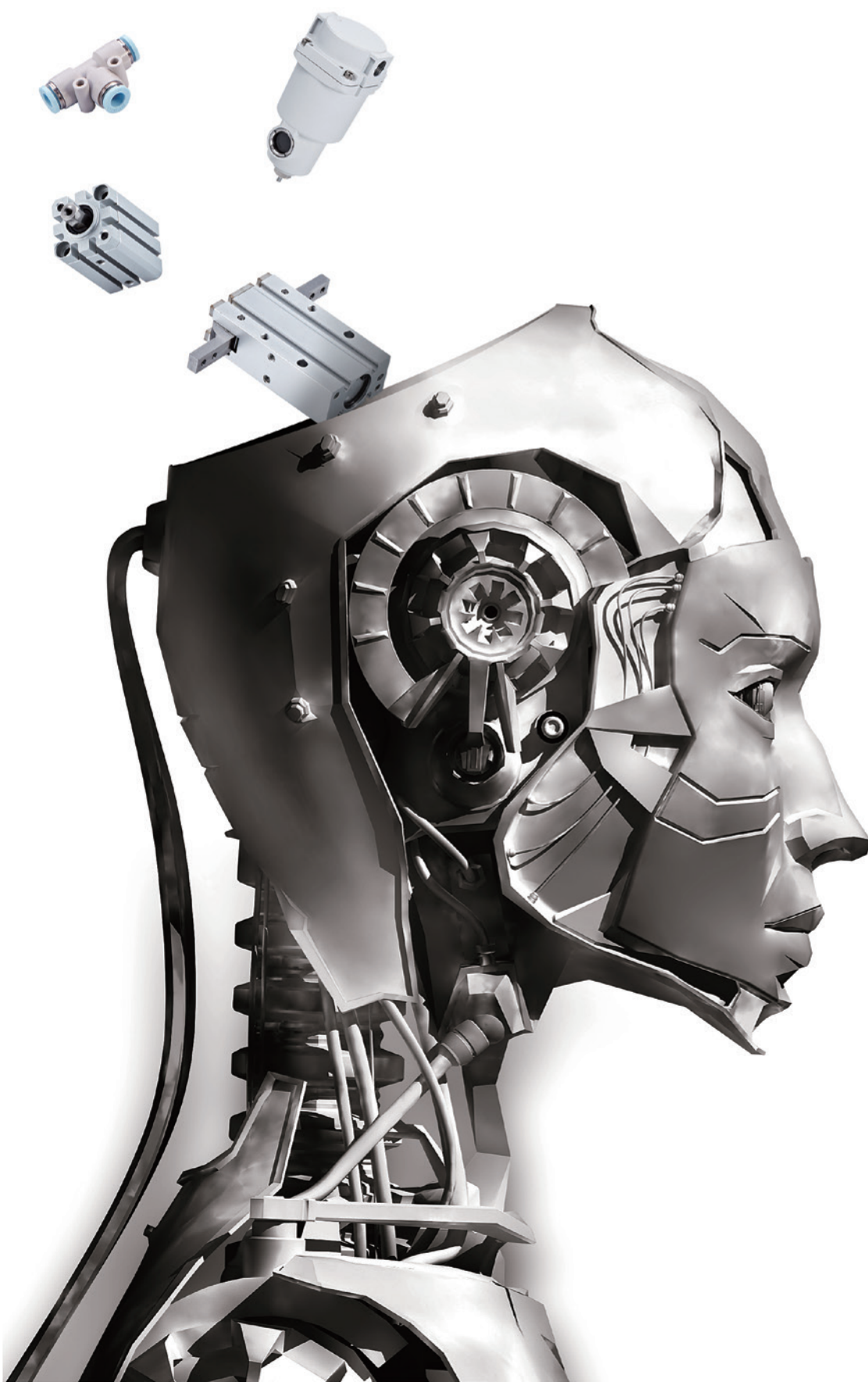
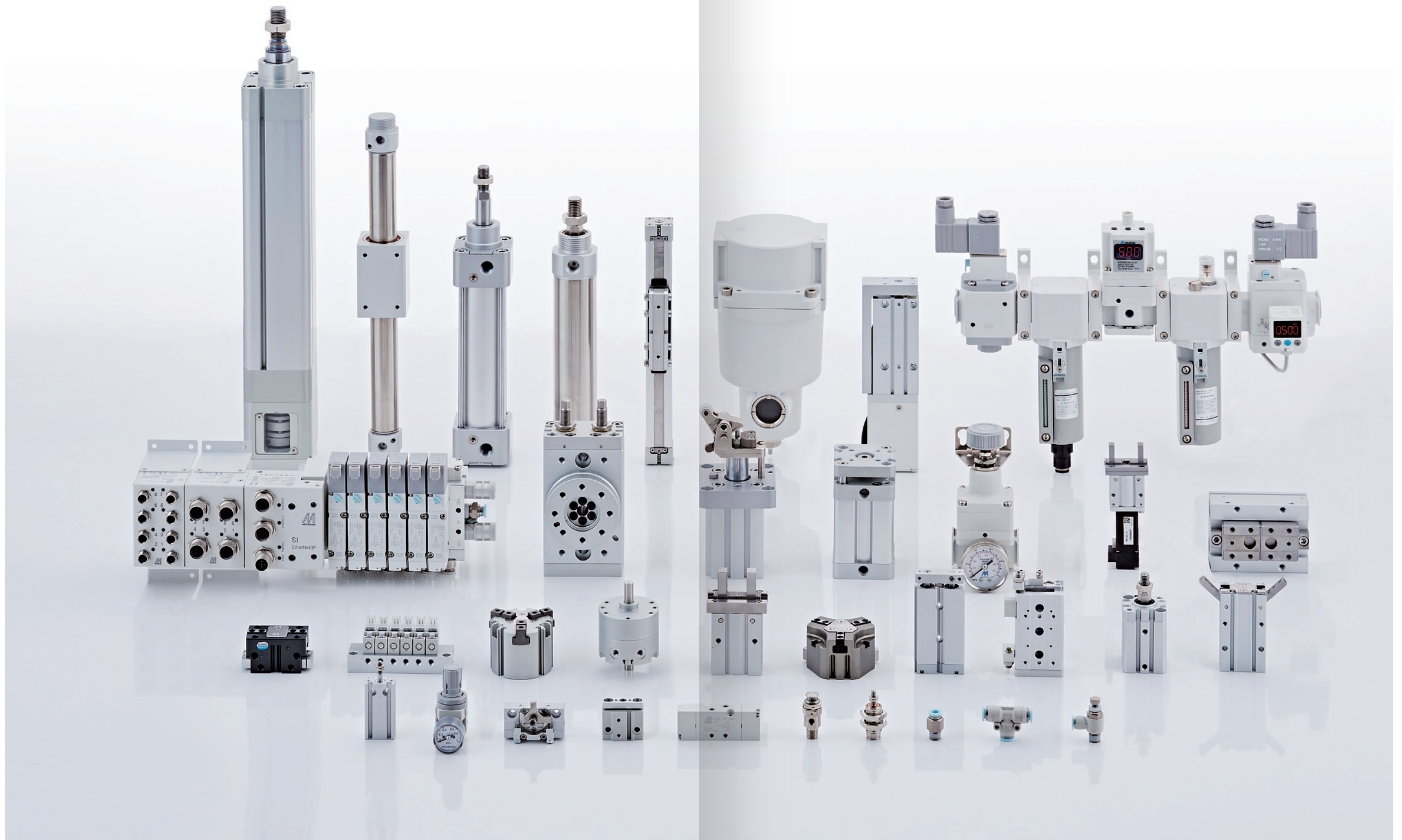




PRODUCT GUIDE





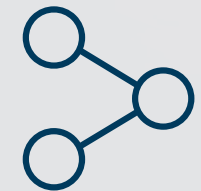
MINDMAN.

SMART AUTOMATION

Core Business:
Manufacture and sale for
varieties of high quality
automation components.



600 PEOPLE
EMPLOYEES



97 COUNTRIES
SALES NETWORK



QUALITY POLICY

Quality advancement &
Exceeding customers' demands

1979
FOUNDED

No.1

Quantity supplied of
pneumatic components in Taiwan.

HEADQUARTERS IN
TAIPEI
CITY, TAIWAN

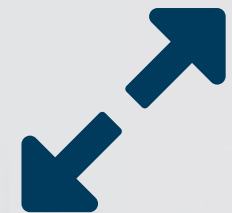


CHING-CHENG HUANG
PRESIDENT



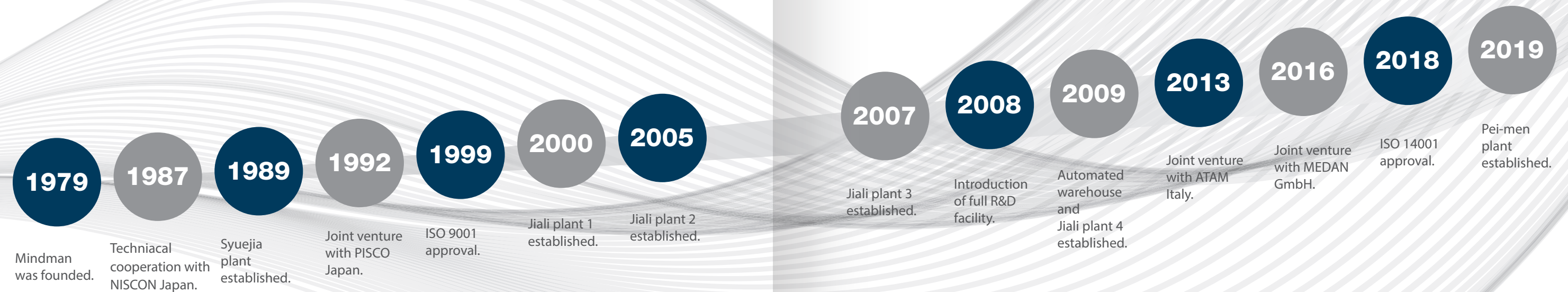
CAPITAL
USD 12,558,000

MANUFACTURE BASE IN
TAINAN
CITY, TAIWAN



90,000 m²
Plant Size

OUR MILESTONES



Mindman Industrial Co., Ltd. was established in 1979 with a destination to provide high quality automation components for a wide variety of industries.

During the past 40 years, Mindman has devoted to the expansion of our product range. Thanks to our R&D department, we are proud to possess the diversified product lineup includes solenoid valves, air treatment units, pneumatic cylinders, electric actuators and all different types of fluid power accessories.

We always believe that fast delivery of automation components is the key of success in the market. Through the complete vertical integration of all manufacturing processes and automated warehouse, we are confident to achieve on time delivery.

To keep quality high during the whole production process, we implement the strict quality control standard. We thoroughly control the process via standard operation procedure (SOP), statistical process control system (SPC) and total productive management (TPM). Most important of all, Mindman commits to providing the products with 100% inspection after assembly.

Currently, Mindman products are exported to more than 90 countries around the world. We devoted ourselves to building the relationship with customers worldwide and provide them with the strong support, such as online 3D drawing, inventory check and promotional program...etc. In the vast automation market, Mindman will spare no effort in establishing a brand – a world-class premium automation components supplier.

MINDMAN GROUP

Strategy of diversification is our direction to remain at the forefront in the industry.



OUR ADVANTAGE

Nonstop effort and everlasting insistence

Productivity

- Products self-made ratio above 90%
- 100% Made in Taiwan
- Highly automated

Quality

- 100% quality inspection before delivery
- Minimum one-year guarantee
- ISO 9001 certified

Elasticity

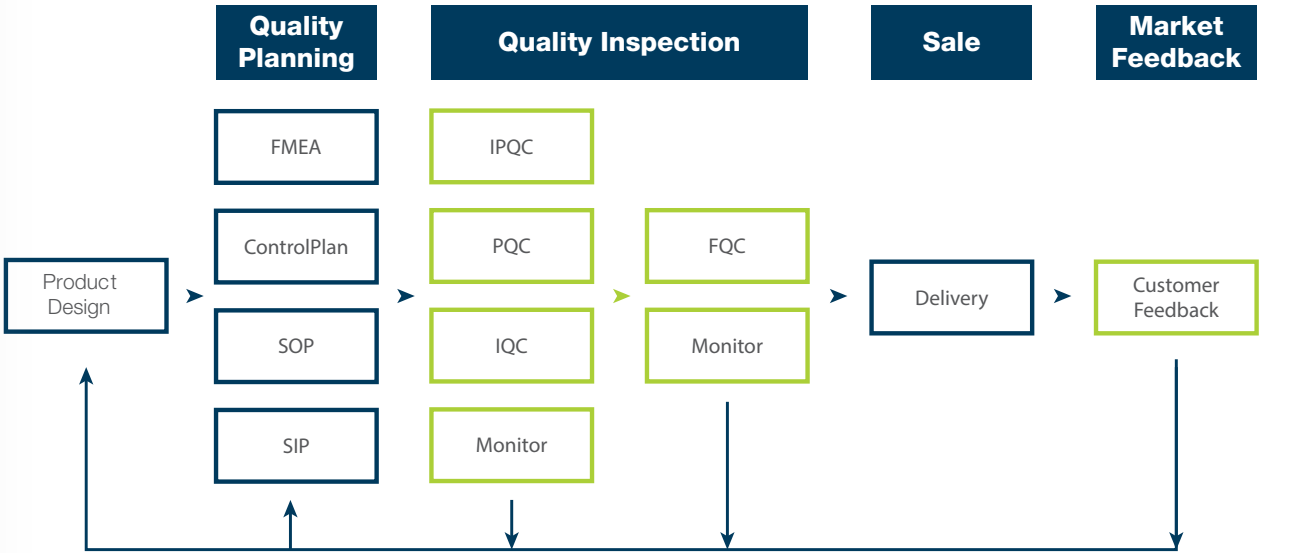
- Flexible production
- Customized service
- Fast delivery

Completeness

- Global strategic partnership
- One stop shopping

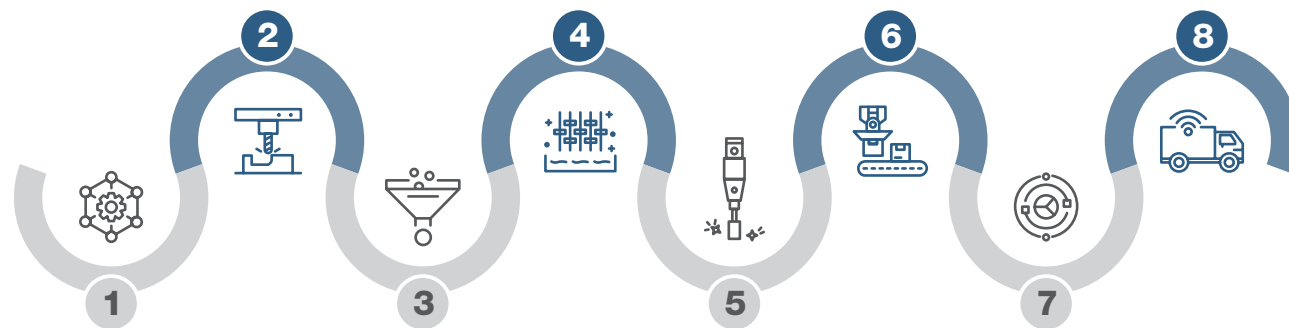
Quality Control Process

Through the complete quality control process, we are confident to provide the highest quality products to our customers.



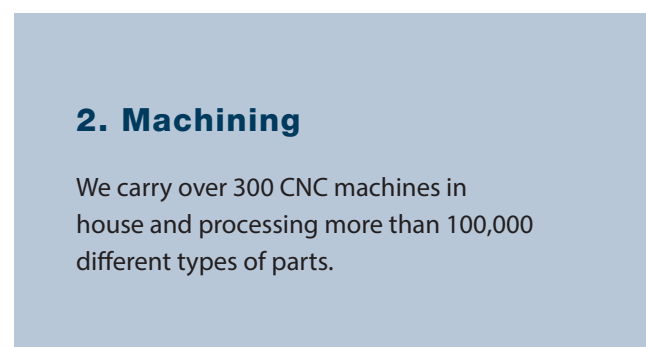
OUR ENGINEERING TECHNIQUES

100% Vertical integration. Control the quality from commodities to final good.



1. Die casting

Production quality is strictly controlled starting from die-casting mold design to final robotic grinding and polishing.



2. Machining

We carry over 300 CNC machines in house and processing more than 100,000 different types of parts.



3. Plastic injection

Automated plastic injection production line with high-precision measuring tools and AOI dimension control system to sustain superb quality.



4. Surface coating

- Surface pretreatment
- Electric static coating
- Hard anodization
- Impregnation process.



5. Grinding

Linear rail grinding, slide block grinding, pull rod grinding... etc. are all processed in-house.



6. Product assembling

Utilizing automated assembly machines with software tracking to achieve high-volume and flexible production.



7. 100% Inspection

100% inspection is our commitment to all Mindman customers.



Automated warehouse profile

- Plant size: 6600m²
- 84240 stock unit
- 99.9% accuracy rate



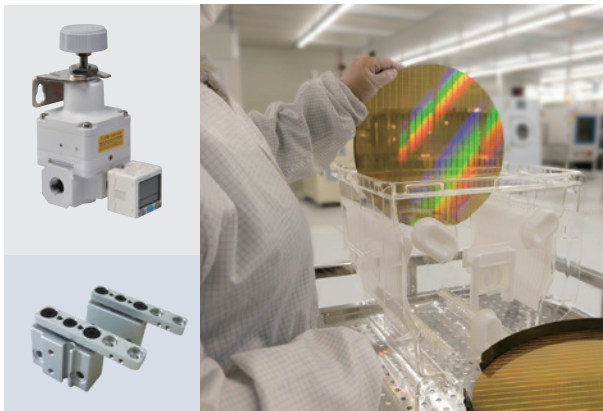
INDUSTRY



Machine Tool

Through the integration of air treatment unit and solenoid valves, we make it easier for installment and save the time for wiring and piping work.

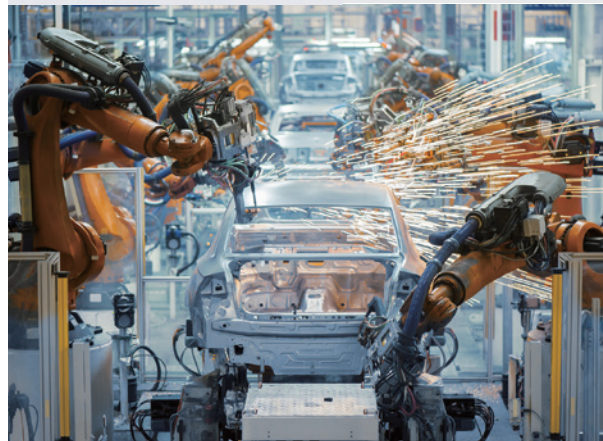
- Modular air treatment unit and valves.



Semiconductor Industry

Semiconductor manufacturing requires high precision during the process. Mindman's MAIR series is able to precisely control pressure under large flow and MCGS series is applied to make a precise lifting or pushing during the process.

- Precision regulator MAIR series
- Guide cylinder MCGS series



Automotive Industry

Mindman provides various kinds of products for automotive welding process and conveyance.

- Pneumatic clamp cylinder MCKD series
- Stopper cylinder MSB* series

Electronic Industry

To meet the requirement of precise assembly of electronic devices, Mindman's linear electric actuator is able to position precisely and move fast.

- Miniature electric actuators MESS2 series
- Electric gripper MEHC2 series



Medical and Pharmaceutical Industry

Mindman's technologies are applied to the pharmaceutical processing machines to efficiently remove oil mist with an activated carbon element in compressed air. The MAM series filter can be applied to meet the high requirement of pure and oil-free air quality while MJC provides cool air in the cooling system.

- Filter MAM* series
- Jet cooler MJC series

Food Industry

To meet the hygiene, environment and safety requirement of food industry, we provide mini cylinder that adequate for food machinery. The cylinder adopts food grade grease (certified by NSF-H1) which prevents the pollution during the process. Hard anodized stainless steel cylinder tubes and piston rod feature high resistance to corrosion and low internal friction. We also provide PISCO vacuum pad with food safe and FDA complied.

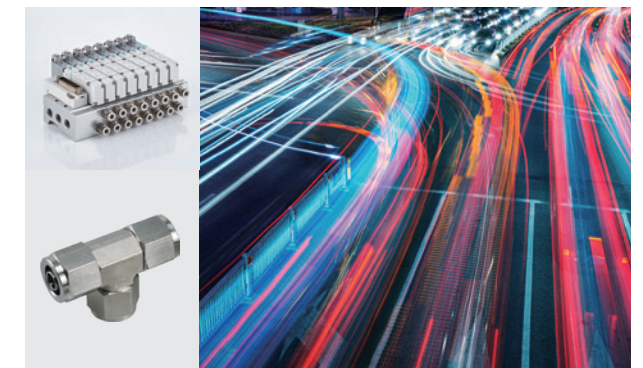
- Rod locking cylinder MCMBL series
- VP for Packing Bag series



Textile Industry

In connection with textile industry, we launched unique cylinders based on MCJQ series to be applied in the textile machinery. Besides, the modularized valves and manifold features quicker response time and less air consumption which allows the faster movement of the machine.

- Compact cylinder MCJQ series
- Solenoid valve MVSC1-180 with manifold



New Energy Industry

Due to the requirement of copper forbidden for lithium-ion battery manufacturing, Mindman's stainless fittings MNS* series and solenoid valve MVSP series are able to be applied in such special environment.

- SUS#304 Fitting MNS* series
- Solenoid valve MVSP series

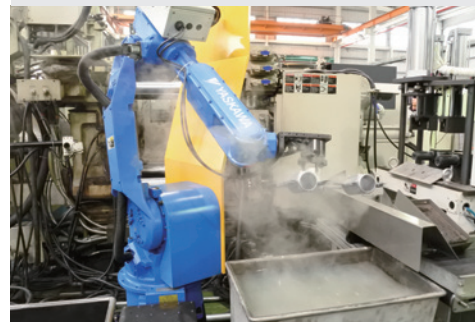
OUR FUTURE, OUR GOAL

Mindman. Always one step ahead together with our customers.

INNOVATION

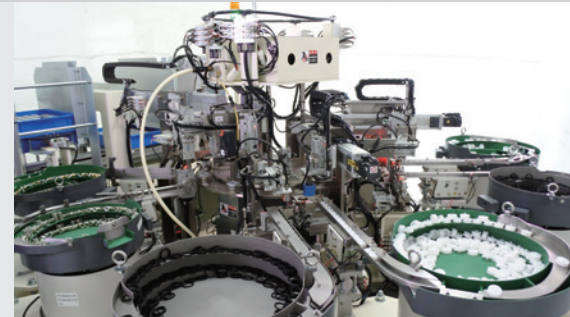
Department of R&D

Mindman R&D team develops the product through the concept of mechatronics and IoT with the higher level of precision improvement. We apply PLM system to facilitate the sorting and analysis of complicated 3D drawings and product data. Furthermore, we implement multiple testing to insure the product lifespan, load capacity, flow rate, and response time consist with our product catalog.



Department of advanced process

Mindman built an independent team to conquer the process obstacle and design the optimized process. Our department of advanced process provides a continuous improvement of manufacturing via the analysis of daily data collection which helps to minimize the waste of time and maximize the productivity of machines.



Department of automation

Mindman founded the department to design and provide the solution of automation. Besides, the team designs our own automated machine which enhances our productivity and increases liability of quality.

SUSTAINABLE DEVELOPMENT

Tainan new green plant

- Green power technology: Daily power generated by the rooftop solar panel reaches 400kWp.
- Energy saving: The special designed structure facilitates the heat emission which reduces energy consumption.
- Friendly environment: Through the greening of the plant, we build a better balance between Mother Nature and human being.



GLOBAL NETWORK

If you care much about quality, please find our distributors worldwide.



Germany

MEDAN GmbH
TEL : 49 7123-92 9990
E-mail : c.neubauer@medan-gmbh.com

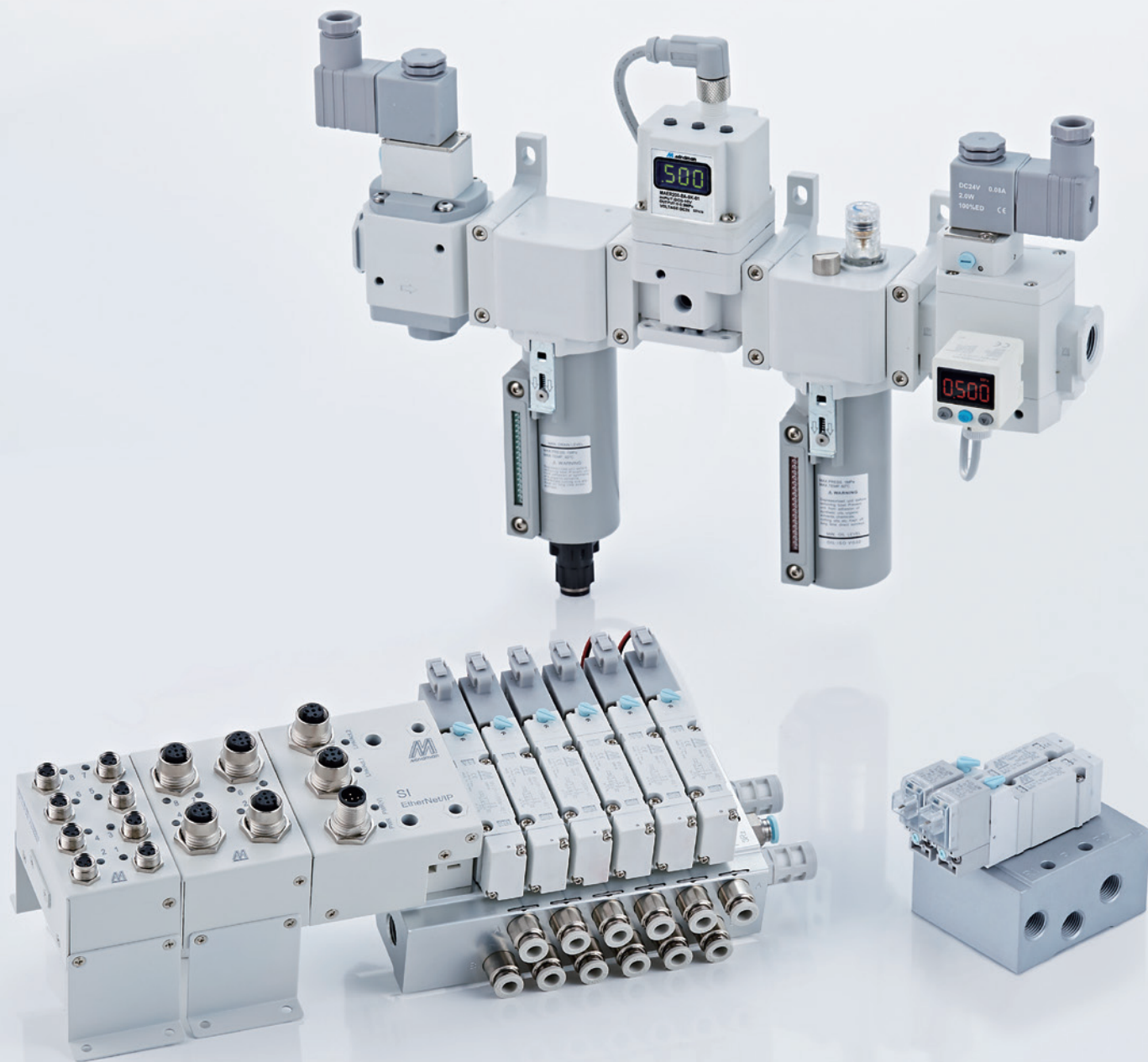
Headquarter

Mindman Industrial Co. Ltd.
TEL : 886-2-25914100
E-mail : mindman@mindman.com.tw

China

MDN Industrial Co., Ltd.
TEL : 0512-69291735
E-mail : szmindman@mindman.com.tw

PRODUCT GUIDE



DIRECTIONAL CONTROL VALVE AIR TREATMENT UNIT

SOLENOID VALVE

Mindman provides the solenoid valve with the finest quality of electrical coil and features low power consumption and quick respond time. Besides, the multi connector systems are available in different size and flows to meet the needs of various industries.



>> SOLENOID VALVE

MVSY series

Body width: 10/15/18 (mm)
Port size: M5×0.8, 1/8, 1/4
5/2 way, 5/3 way (C/P/R), 5/4 way

MVSC1 series

Body width: 15/18/22 (mm)
Port size: M5×0.8, 1/8, 1/4
3/2 way, 5/2 way, 5/3 way (C/P/R)

MVSC series

Body width: 22/26/30/46 (mm)
Port size: 1/8, 1/4, 3/8, 1/2
3/2 way, 5/2 way, 5/3 way (C/P/R)



>> ISO SOLENOID VALVE

MVSI series ISO-1

Body width: 26/45 (mm)
Port size: 1/4
Response time: 40 (ms)
5/2 way, 5/3 way (C/P/R)

ISO-3

Body width: 51 (mm)
Port size: 1/2
Response time: 40 (ms)
5/2 way



>> NAMUR SOLENOID VALVE

MVSN series

Body width: 22/30 (mm)
Port size: 1/8, 1/4
5/2 way, 5/3 way (C/P/R)



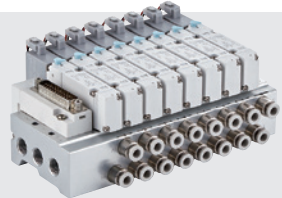
» MULTI CONNECTOR SYSTEM

MVB series

25 Pin D-sub connector
For MVSY-100 / MVSY-156 / MVSP-156 series

MVB1 series

26 Pin flat cable
For MVSY-100 series



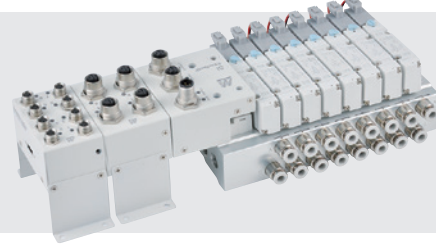
» FIELDBUS SYSTEM

MVE series

SI, DO, DI unit (EtherNet/IP)
For MVSY-100 / MVSY-156 / MVSP-156 series

MVE2 series

SI unit (IO-Link, Profinet, EtherNet/IP, EtherCAT, CC-Link IEFB, Modbus-RTU)
For MVSY-100 / MVSY-156 / MVSY-188 / MVSC1-220 series



» MULTI CONNECTOR SYSTEM & FIELDBUS SYSTEM

MVJA series

25 Pin D-sub connector
Compatible with MVE series SI, DO, DI units (EtherNet/IP), the function for communication protocol can be expanded.
All-in-one gasket for the base can be easier to increase the number of valve blocks.



MFCA series

Flow rate range: 0~200 Ln/min
Fluid : Air, N₂, O₂, Ar
Communication type : RS485 Modbus RTU
High precision in measurement & control
Applicable to Semiconductor, Laser welding, IoT.



MFCB series

Flow rate range: 0~200 Ln/min
Fluid : Air
Communication type: RS485 Modbus RTU
TFL LCD 65K full-color display.
The display can be adjusted based on the installation orientation.



» PROCESS VALVE

Piston, Diaphragm, Plunger, Latch valve
Fluid control: water/air/steam/oil/gas/vacuum
Port size: 1/8~4

MUT series



MUSC series



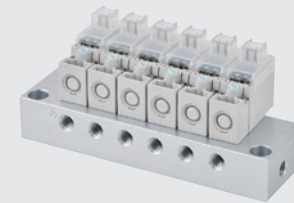
MGD series



» DIRECT OPERATED SOLENOID VALVE

MVDY series

Body width: 10 (mm)
Port size: M5×0.8
3/2 way (NC)



MVDC series

Body width: 22/30 (mm)
Port size: 1/8, 1/4
2/2 way (NC), 3/2 way (NC)



MVSV series

Body width: 22 (mm)
Port size: 1/8
3/2 way (NC)



» COMPACT SOLENOID VALVE

MVDA-80 series

Direct acting
Body width: 8 (mm)
Response time: <1 (ms)
Max. operating frequency: 500 (Hz)



MVDA-120 series

Direct acting
Body width: 12 (mm)
Response time: <2 (ms)
Max. operating frequency: 300 (Hz)



MVPH series

Direct acting
No. of way/function: 2/2 NC
Media: Air, oxygen, neutral gases



MVPM series

Direct acting
No. of way/function: 2/2 NC
Media: Air, neutral gases



» PILOT VALVE

MVAA series

Body width: 15/18/22/26/30/46 (mm)
Port size: M5×0.8, 1/8, 1/4, 3/8, 1/2
3/2 way, 5/2 way
Spring return, Double acting



» MECHANICAL VALVE

MVMA series

No. of port: 5
Port size: 1/4, 3/8



MVMB series

No. of port: 2, 3, 5
Port size: 1/4, 3/8



>> FOOT PEDAL VALVE

MVFA series

No. of port: 3, 4
Port size: 1/4
Protection and lock are available



>> HAND VALVE

MVHA series

No. of port: 2, 3, 5
Port size: M5×0.8, 1/8



MVHB series

No. of port: 5
Port size: 1/4, 3/8, 1/2



>> HAND VALVE

MVHC series

No. of port: 4
Port size: 1/8, 1/4, 3/8, 1/2, 3/4



MVHF series

No. of port: 3, 5
Input pressure: 150 psig max.
Port size: 1/8



MVHS series

No. of port: 3
Port size: 1/4, 3/8, 1/2, 3/4



>> HAND VALVE

EPA series

No. of port: 3
Port size: 1/8



>> QUICK EXHAUST VALVE

MVQE series

Port size: 1/8, 1/4, 3/8, 1/2, 3/4, 1



>> FLOW CONTROL VALVE

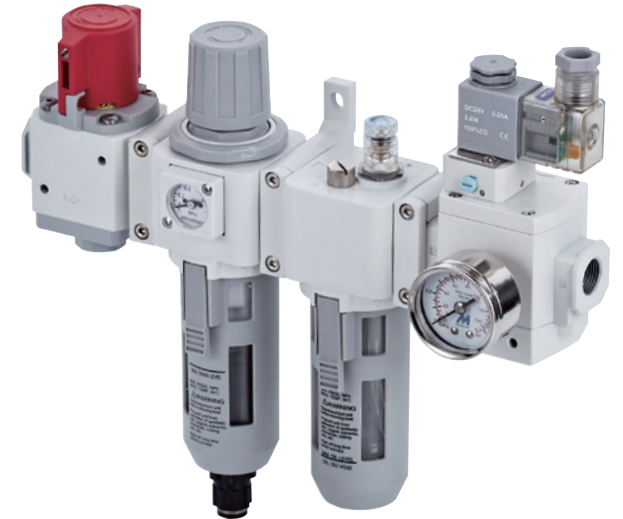
MSC series

Port size: M3×0.5, M5×0.8, 1/8, 1/4, 3/8, 1/2, 3/4, 1



AIR TREATMENT UNIT

The purity of compressed air and the stable air pressure are always the key to the efficiency of pneumatic system. Mindman provides modular F.R.L. units with different sizes and flows to suit different conditions. The water removal rate of filter is able to reach above 93% and multiple filter elements are available. Besides, we also provide soft start-up valve, shut-off valve, booster regulator, jet cooler, precision regulator and precision filter to meet the requirement of instance.



>> F.R.L. UNIT

MACT series

Port size: 1/8~1
Filter element: 40/5 µm
Max. operating pressure: 1~1.5 MPa
Set pressure range: 0.05~1.5 MPa



MACP series

Port size: 1/8~1
Filter element: 40/5 µm
Max. operating pressure: 1~1.5 MPa
Set pressure range: 0.05~1.5 MPa



MAFR series

Port size: M5~1
Filter element: 40/5 µm
Max. operating pressure: 1~1.5 MPa
Set pressure range: 0.05~1.5 MPa



>> FILTER

MAF series

Port size: 1/8~2
Filter element: 40/5/0.3/0.01 µm
Max. operating pressure: 1~1.75 MPa



>> REGULATOR

MAR series

Port size: M5~2
Max. operating pressure: 1~3.1 MPa
Set pressure range: 0.05~1.75 MPa



>> LUBRICATOR

MAL series

Port size: 1/8~1 1/2
Max. operating pressure: 1~1.75 MPa



» PRECISION REGULATOR

MAIR series

Port size: 1/8~1/2
Sensitivity: $\pm 0.2\%$ F.S.
Repeatability: $\pm 0.5\%$ F.S.
Set pressure range: 0.005~0.8 MPa
Max. operating pressure: 1 MPa



» PRECISION FILTER

MAM* series

Port size: 1/4~1
Water removal rate 99%
Filter element: 3/0.3/0.01/
0.01 μm + Deodorization
Max. operating pressure: 1 MPa



» PROPORTIONAL REGULATOR

MAER series

Port size: 1/4, 3/8, 1/2
Max. operating pressure: 1 MPa
Precision control of air pressure by electric signal.
Communication type: RS-232, RS-485



» DIGITAL FLOW & PRESSURE SENSOR

MFP series

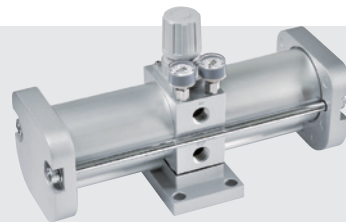
Protection: IP40
Flow and pressure 4 digit, 7 segment dual LCD display.
8 digit accumulated flow rate display.
Real-time monitoring.
RS485 Modbus control.



» BOOSTER REGULATOR

MVBA series

Port size: 3/8, 1/2
Pressure increase rate: 2 times
Max. operating pressure: 1 MPa
Energy-saving
Achieve high pressure condition in limited space.



» SHUTOFF VALVE

MVHR series

Port size: 1/4, 3/8, 1/2
3/2 way
Combined with air unit
MA**302, 401, 403 series
as a module product.



» SOFT START-UP VALVE

MAVS series

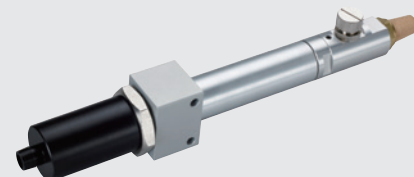
Port size: 1/4, 3/8, 1/2
Combined with air unit
MA**302, 401, 403 series
as a module product.



» JET COOLER

MJC series

Cool air out port: 1/8, 1/4, 3/8
Max. temp. drop: 40~60°C
Max. operating pressure: 0.7 MPa



AIR CYLINDER



Mindman possesses the most complete range of cylinders which includes ISO profile cylinders, compact cylinders, miniature cylinders and we offer various kinds of non-rotating feature cylinders, such as guided cylinders, slide cylinders, rodless cylinders...etc. (※1)

STANDARD CYLINDER

>> ISO

MCQV3 series

Double acting
 ø32, 40, 50, 63, 80, 100 (mm)
 Max. stroke: 2500 (mm)
 ISO 15552

► Automatic air cushioning



MCQI3 series

Double acting
 ø32, 40, 50, 63, 80, 100 (mm)
 Max. stroke: 2500 (mm)
 ISO 15552

► Automatic air cushioning



MCQV series

Double acting
 ø125, 160, 200 (mm)
 Max. stroke: 2000 (mm)
 ISO 15552



>> ISO

MCKQI3 series

Double acting
 ø32, 40 (mm)
 Max. stroke: 700 (mm)
 Hexagonal rod design for non-rotation
 ISO 15552

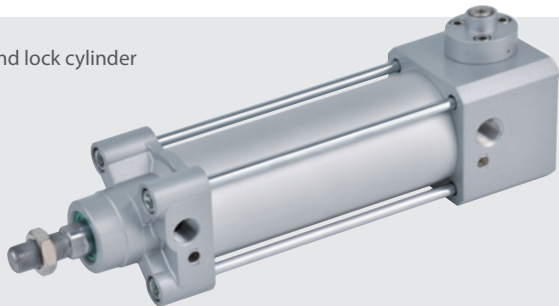
► Non-Rotating



MCQV3L series

Double acting
 ø63, 80 (mm)
 Max. stroke: 600 (mm)
 ISO 15552

► End lock cylinder



>> STANDARD CYLINDER

MCQA series

Double acting
 ø40, 50, 63, 80, 100, 125,
 150, 200 (mm)
 Max. stroke: 2500 (mm)



>> AIR/OIL CONVERTOR

MCQA-AH series

ø40, 50, 63, 80, 100, 125,
 150 (mm)



>> NFPA

MCQN series

Double acting
 ø1-1/2", 2", 2-1/2", 3-1/4", 4"
 Max. stroke: 100"
 Imperial units

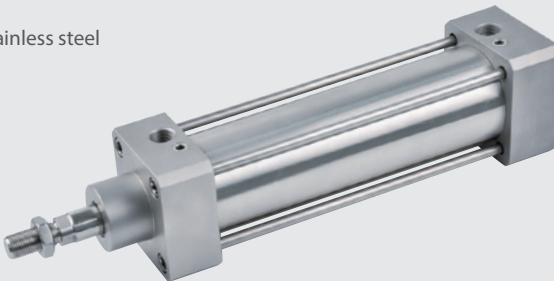


>> ISO

MCQVS series

Double acting
 ø32, 40, 50, 63, 80, 100 (mm)
 Max. stroke: 1000 (mm)
 ISO 15552

► Stainless steel

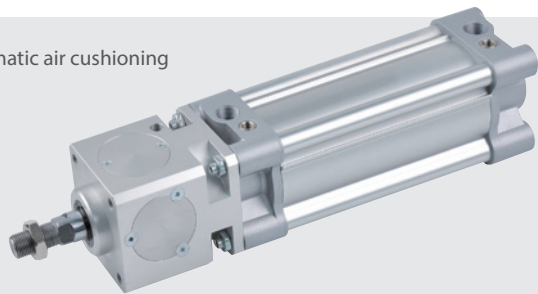


>> ROD LOCKING CYLINDER

MCBQV3 / MCBQI3 series

Double acting
 ø32, 40, 50, 63, 80, 100 (mm)
 Max. stroke: 2300 (mm)
 ISO 15552

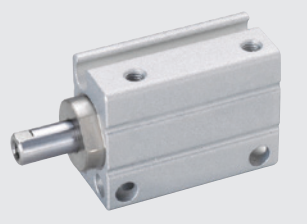
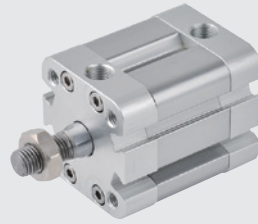
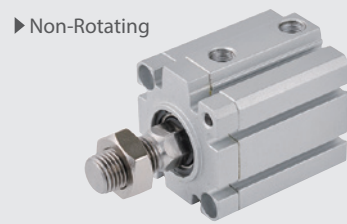
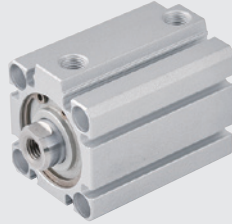
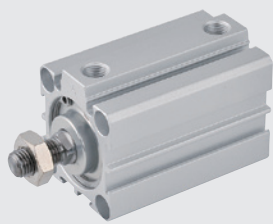
► Automatic air cushioning



※ 1. General max. operating pressure for cylinder is 0.7 to 1 MPa and max. proof pressure is 1 to 1.5 MPa.
 ※ 2. Stroke exceed the max. stroke is also available, please consult with us.

COMPACT CYLINDER

MCJA series Single acting ø12, 16, 20, 25, 32, 40, 50 (mm) Double acting ø12, 16, 20, 25, 32, 40, 50, 63, 80, 100 (mm) Max. stroke: 300 (mm)	MCJQ series Single acting ø12, 16, 20, 25, 32, 40, 50 (mm) Double acting ø12, 16, 20, 25, 32, 40, 50, 63, 80, 100 (mm) Max. stroke: 300 (mm)	MCKJQ series Double acting ø12, 16, 20, 25, 32, 40 (mm) Max. stroke: 100 (mm) Hexagonal rod design for non-rotation Max. stroke: 100 (mm)	MCJI series Double acting ø20, 25, 32, 40, 50, 63, 80, 100 (mm) Max. stroke: 500 (mm) ISO 21287	MCJU series Double acting ø25, 32, 40, 50, 63 (mm) Max. stroke: 300 (mm) Oval piston design for non-rotation	MCFA series Double acting, ø6, 10, 16, 20, 25, 32 (mm) Max. stroke: 50 (mm) MCFB series Single acting, ø6, 8, 10 (mm) Double acting, ø6, 8, 10, 12, 16, 20 (mm) Max. stroke: 50 (mm)
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MINI. CYLINDER

MCMA series Single acting ø16, 20, 25, 32(mm) Double acting ø16, 20, 25, 32, 40 (mm) Max. stroke: 500 (mm)	MCMB series Single and double acting ø20, 25, 32, 40 (mm) Max. stroke: 300 (mm)	MCMI series Single and double acting ø8, 10, 12, 16, 20, 25, 32, 40 (mm) Max. stroke: 500 (mm) ISO 6432
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>> ISO

MCMIS series Double acting ø10, 12, 16, 20, 25 (mm) Max. stroke: 500 (mm) ISO 6432

► Stainless steel



>> PEN CYLINDER

MCMJ series Single and double acting ø 6, 10, 16 (mm) Max. stroke: 200 (mm)	MCMJPB/S series Single acting ø 6, 10, 15 (mm) Max. stroke: 15 (mm)
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ROUND CYLINDER

>> THE METRIC SYSTEM

MCCG series Double acting ø20, 25, 32, 40, 50, 63, 80, 100 (mm) Max. stroke: 1200 (mm) Available speed range: 50~500 (mm/sec)
--

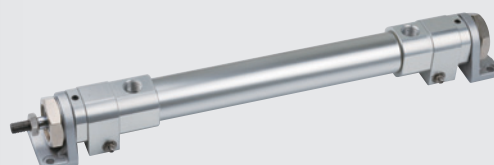
>> THE IMPERIAL SYSTEM

MCCN series Double acting ø3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2" Max. stroke: 48" Available speed range: 50~500 (mm/sec)
--



HIGH SPEED CYLINDER

MCCH series Double acting ø25, 32 (mm) Max. stroke: 1500 (mm) Available speed range: 50~3000 (mm/sec)
--



GUIDE CYLINDER

MCGA-03/13/53 series Stop / Lift type MCGA-23/63 series Push type

Double acting
ø20, 32, 40, 50, 63, 80 (mm)
Max. stroke: 700 (mm)



MCGS-03/07 series Stop / Lift type MCGS-23/27 series Push type

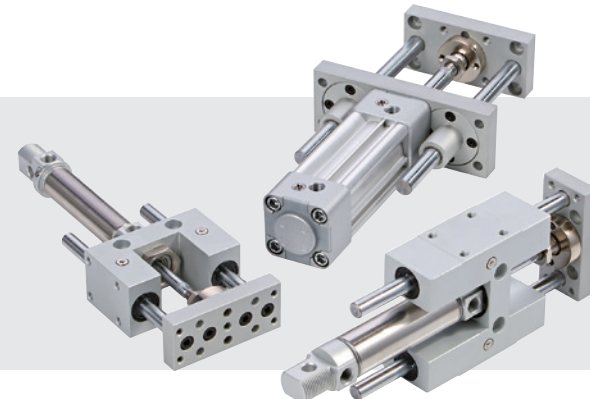
Double acting
ø 6, 10, 12, 16, 20, 25, 32, 40, 50, 63 (mm)
Max. stroke: 400 (mm)
Non-rotating accuracy $\pm 0.15^\circ$ (ø 6,10 mm)



>> ISO 15552 & 6432 GUIDE UNIT

MGT* series MGTK(X): Light duty type, MGTB(U): Heavy duty type

Double acting
ø20, 25, 32, 40, 50, 63 (mm)
Max. stroke: 600 (mm)



SLIDE CYLINDER

>> COMPACT SLIDE

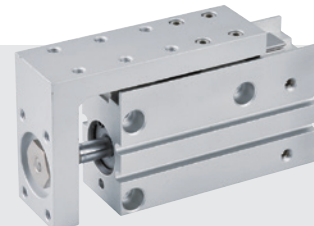
MCSS series

Double acting
ø 6, 8, 12, 16, 20, 25 (mm)
Max. stroke: 150 (mm)



MCSH series

Double acting
ø 6, 10, 16, 20 (mm)
Max. stroke: 60 (mm)



>> COMPACT TYPE

MCGI series

Double acting
ø20, 25, 32, 40, 50, 63, 80, 100 (mm)
Max. stroke: 300 (mm)



MCGM series

Double acting
ø12, 16, 20, 25, 32, 40, 50, 63, 80, 100 (mm)
Max. stroke: 100 (mm)



MCDA series

Double acting
ø 6, 12, 16, 20, 25, 32 (mm)
Max. stroke: 150 (mm)



>> LOW PROFILE

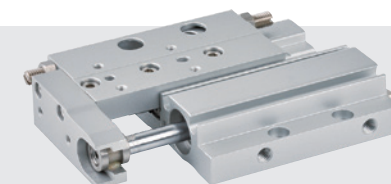
MCSQ series

Double acting
ø6, 8 (mm)
Max. stroke: 75 (mm)



MCSF series

Double acting
ø5.2, 8, 12, 16, 20 (mm)
Max. stroke: 100 (mm)



STOPPER CYLINDER

>> DIRECT STOPPER CYLINDER

MSBS series

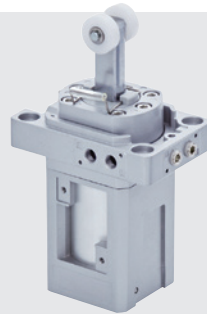
Double acting
 $\varnothing 20-10$, $\varnothing 32-20$, $\varnothing 50-30$ (mm)
 Direct stopper
 Suitable for heavy work



>> ROLLER STOPPER CYLINDER

MSBR series

Single and double acting
 $\varnothing 20-20$, $\varnothing 32-20$, $\varnothing 40-30$,
 $\varnothing 50-30$ (mm)



MSAR series

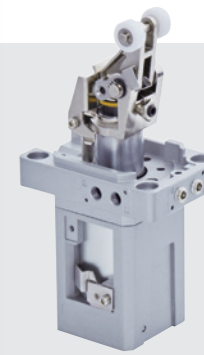
Single acting
 $\varnothing 32-30$, $\varnothing 50-30$, $\varnothing 80-30$ (mm)



>> SHOCKLESS STOPPER CYLINDER

MSBD series

Double acting
 $\varnothing 32-20$, $\varnothing 50-30$,
 $\varnothing 63-30$, $\varnothing 80-40$ (mm)
 Adjustable shock absorber



MSBE series

Double acting
 $\varnothing 32-20$, $\varnothing 50-30$,
 $\varnothing 63-30$, $\varnothing 80-40$ (mm)
 Adjustable shock absorber

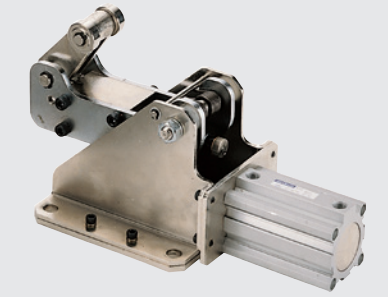


>> HORIZONTAL STOPPER CYLINDER

MSLD series Shockless type $\varnothing 50-50$ (mm)

MSLL series Roller type $\varnothing 25-30$, $\varnothing 40-30$ (mm)

MSLP series Push/pull type $\varnothing 32-40$ (mm)

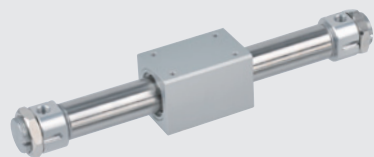


RODLESS CYLINDER

>> MAGNETICALLY COUPLED

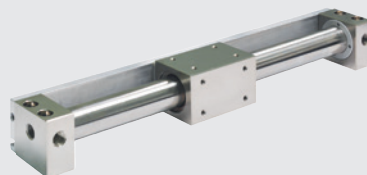
MCRPM series

Double acting
 $\varnothing 10$, 15, 20, 25, 32, 40 (mm)
 Max. stroke: 2000 (mm)



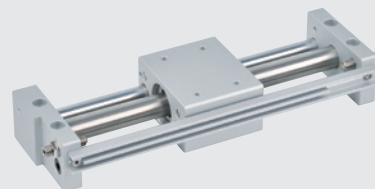
MCRPMD series

Double acting
 $\varnothing 10$, 15, 20, 25, 32 (mm)
 Max. stroke: 2000 (mm)



MCRPMS series

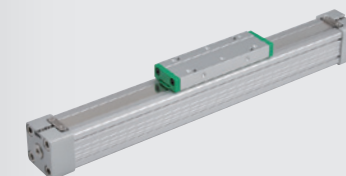
Double acting
 $\varnothing 10$, 15, 20, 25, 32 (mm)
 Max. stroke: 1500 (mm)



>> MECHANICALLY JOINTED

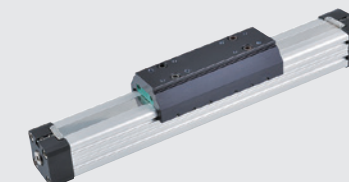
MCRPL / MCRPLF series

Double acting
 $\varnothing 16$, 25, 32, 40, 50, 63 (mm)
 Stroke range
 $\varnothing 16$: 100~3300 (mm) /
 $\varnothing 25-63$: 100~5600 (mm)



MCRPLS series

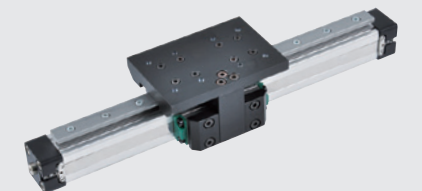
Double acting
 $\varnothing 32$, 40, 50, 63 (mm)
 Stroke range
 100~5700 (mm)



>> WITH LINEAR GUIDE

MCRPLK series

Double acting
 $\varnothing 16$, 25, 32, 40 (mm)
 Stroke range: $\varnothing 16$: 100~3300 (mm) /
 $\varnothing 25-40$: 100~3600 (mm)
 Load strength is higher than MCRPLF series
 (about 4 times)



GRIPPER ROTARY ACTUATOR CLAMP CYLINDER

GRIPPER

In the trend of factory automation, application of advanced robot is one of the critical technologies. Therefore, Mindman launched various kinds of lightweight grippers which are able to be applied in different usage.



MCHB series

MCHU series

>> PARALLEL 2-FINGER

MCHB series

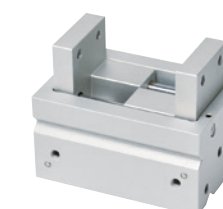
Double acting / Single acting (N.O.)
ø12, 16, 20, 25, 32 (mm)
Max. holding force ^(*): 175 (N)

Meet the needs of secondary battery production



MCHU series

Double acting
ø12, 16, 20 (mm)
Max. holding force ^(*): 60 (N)



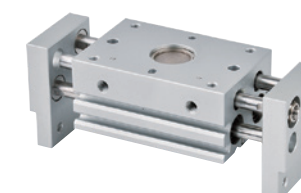
MCHH series

Double acting
ø20, 25, 40 (mm)
Max. holding force ^(*): 125 (N)



MCHX series

Double acting
ø10, 16, 20, 25, 32, 40 (mm)
Max. holding force ^(*): 410 (N)



MCHS series

Double acting
Size: 50, 66, 80, 100, 125, 160, 200, 300
Max. holding force ⁽²⁾: 3283 (N)



MCHS-OS series

Double acting
Size: 80, 100, 125
Max. holding force ⁽²⁾: 1287 (N)



*1. The largest bore size in the series, gripping length 20 mm, setting pressure 0.5 MPa.
*2. The largest bore size in the series, gripping length 40 mm, setting pressure 0.6 MPa.

GRIPPER

>> ANGULAR 2-FINGER

MCHA series

Double acting / Single acting (N.O.)
ø12, 16, 20, 25, 32(mm)
Clamp/Release angle: -10~+30°
Max. holding force: 145^(*) (N)

 Meet the needs of secondary battery production



>> PARALLEL 2-FINGER

MCHCJ series [Dust Cover]

Double acting / Single acting
ø16 (mm)
Max. holding force^(*): 30 (N)
Repetitive clamping precision: below ±0.01mm



>> PARALLEL 3-FINGER

MCHJ series

Double acting
Size: 50, 66, 80, 100, 125, 160
Max. holding force^(*): 1756 (N)



1

Angular 2-Finger

MCHY series

Double acting
ø10, 16, 20, 25 (mm)
Clamp/Release angle: -3~+180°
Max. effective gripping moment^(*): 2.28 (N.m)

2

Parallel 3-Finger

MCHG2 series

Double acting
ø16, 20, 25, 32, 40, 50, 63, 80, 100, 125 (mm)
Max. holding force^(*): 1270 (N)

3

 Meet the needs of secondary battery production.

Parallel 2-Finger

MCHC series

Single and double acting
ø6, 10, 16, 20, 25, 32, 40 (mm)
Max. holding force^(*): 254 (N)
Repetitive clamping precision: below ±0.01mm

4

Parallel 2-Finger

MCHD series

Double acting
ø8, 12, 16, 20 (mm)
Max. holding force^(*): 140 (N)
Low profile with double piston structure

*1. The largest bore size in the series, gripping length 20 mm, setting pressure 0.5 MPa.
*2. The largest bore size in the series, gripping length 40 mm, setting pressure 0.6 MPa.
*3. The largest bore size in the series, gripping length 50 mm, setting pressure 0.5 MPa.
*4. The largest bore size in the series.

ALL-IN-ONE PNEUMATIC GRIPPER



>> 2-FINGER

MCTA-S80 series

Double acting
Gripper : MCHS-80
Max. holding force^(*): 225 (N)



>> 3-FINGER

MCTA-J66 series

Double acting
Gripper : MCHJ-66
Max. holding force^(*): 177 (N)

* The largest bore size in the series, gripping length 40 mm, setting pressure 0.6 MPa.



TMPlug&Play
CERTIFIED

VACUUM GRIPPER

>> O-SHAPED SPONGE

VRG series

Work with irregular such as bags and PET bottles.
Theoretical max. clamping force: 1512.7 (N)
Max. suction flow: 860 (l/min)
P.C.D.: 31.5, 40, 56, 80, 100 (mm)



>> FULL SPONGE / HEXAGONALLY-ARRANGED

VLG series

Work with irregular such as bags, cardboard and PET bottles.
Theoretical max. clamping force: 118.1 (N)
Max. suction flow: 890 (l/min)
P.C.D.: 31.5 (mm)



Full sponge



Hexagonally-arranged

>> FULL SPONGE

VMG series

Work with irregular such as wood and exterior wall materials.
Theoretical max. clamping force: 1546.4 (N)
Max. suction flow: 860 (l/min)
P.C.D.: 31.5, 40, 56, 80, 100 (mm)



>> HEXAGONALLY-ARRANGED

VMG series

Work with irregular such as cardboard and bags.
Theoretical max. clamping force: 2369.5 (N)
Max. suction flow: 860 (l/min)
P.C.D.: 31.5, 40, 56, 80, 100 (mm)



AUTOMATIC TOOL CHANGER

MCTC series

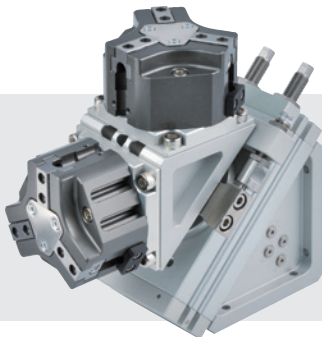
Size : 20, 41
Recommended handing weight :
Tool : 3.5, 18 kg [with tool plate (T)]
Workpiece : 21.5, 32 kg
Repeat accuracy : $\pm 0.015\text{mm}$



180° ROTATION GRIPPER

MCRT series

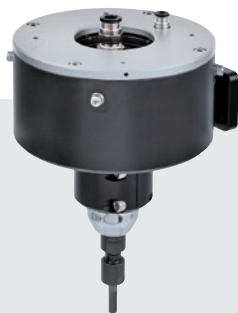
$\phi 20, 25$ (mm)
Gripper model :
MCHS (2-finger)
MCHJ, MCHG2 (3-finger)



DEBURRING TOOL

TRG / TRF / TAF series

Specification : 20, 30
Compliant angle: 3.5° (radial), $\pm 5.5^\circ$ (planary)
Compliant force: 2-10/ 6-30/ 5-30/ 4-20 (N)
Spindle idle speed: 65000/ 25000 (RPM)
File idle frequency: 9000 (BPM)



TAIWAN
EXCELLENCE 2022



Video

ROTARY ACTUATOR

>> LOW PROFILE

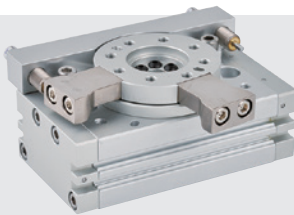
MCRQ series

Double acting
 $\phi 12, 16, 20, 25, 32, 40$ (mm)
Operating range of table is
 $0^\circ \sim 190^\circ$ by angle adjusting screw



MCRQ-S series

Double acting
 $\phi 16, 20, 25$ (mm)
4 to 10 times more allowable
kinetic energy (compared with
internal shock absorber type)



MCRA series

Double acting
 $\phi 63$ (mm)
Rotary angle: $90^\circ, 180^\circ$

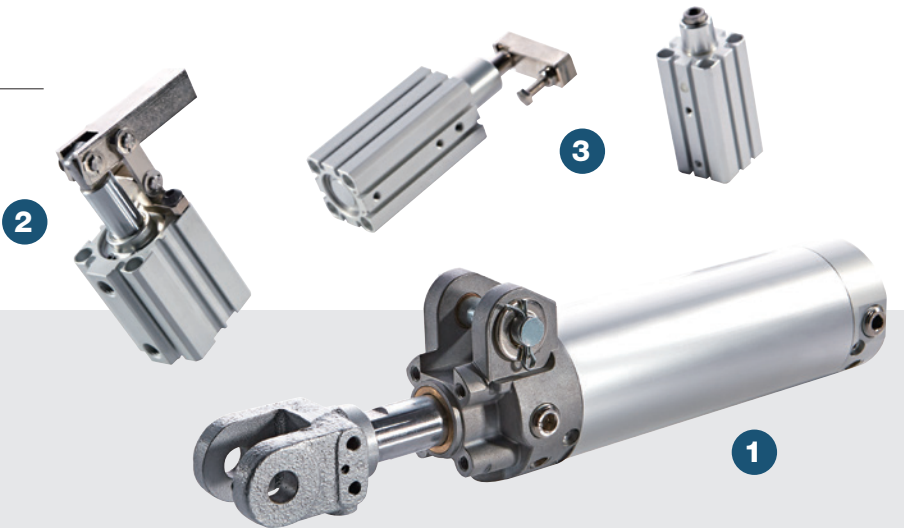


CLAMP CYLINDER

>> 1 CLAMP CYLINDER

MCKG series

$\phi 50, 63$ (mm)



CLAMP CYLINDER

>> 2 LEVER TYPE CLAMP

MCKB series

$\phi 25, 32, 40, 50, 63$ (mm)



>> 3 SWING CLAMP

MCKC series

$\phi 12, 16, 20, 25, 32, 40, 50$ (mm)



>> POWER CLAMP

MCKD series

$\phi 50, 63$ (mm)
Oval cylinder body
to reduce the
profile thickness



ROTARY ACTUATOR

>> VANE TYPE

MCRC series

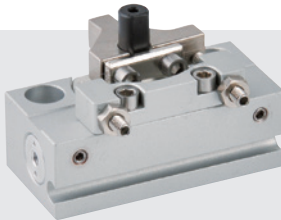
Size : 20, 30
Rotary angle : $90^\circ, 180^\circ, 270^\circ$



>> MINI TYPE

MCRJ-S series

$\phi 6, 8$ (mm)
Rotary angle : $90^\circ, 180^\circ$



>> HIGH TORSIONAL FORCE

MRTH / MRTF series

$\phi 40, 63, 80$ (mm)
Rotary angle : $90^\circ, 180^\circ$



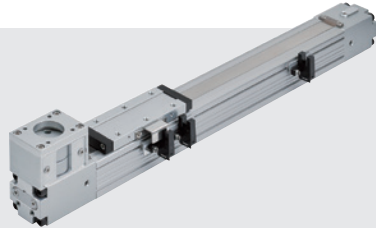
ELECTRIC ACTUATOR

Besides from pneumatic components, Mindman launched all kinds of electric actuators include linear actuators, slide actuators, grippers...etc ,which supports all of your demand of automation.

» SLIDER ELECTRIC ACTUATOR - BELT DRIVEN

METFB series

Without motor
Size: 25, 32, 40 (mm)
Max. stroke 2000 (mm)
Positioning repeatability: $\pm 0.05\text{mm}$



METB series

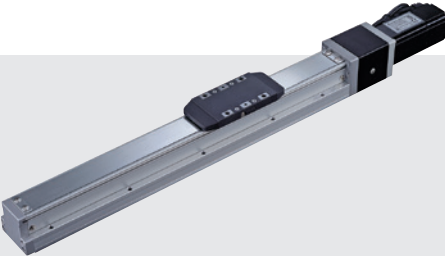
Without motor
Size: 42: 42×42, 55: 55×55,
80: 80×80 (mm)
Max. stroke 6000 (mm)



» SLIDER ELECTRIC ACTUATOR - BALL SCREW DRIVEN

METG series

Without motor
Small size: 4, 5, 8
Max. stroke 1100 (mm)
Positioning repeatability: below $\pm 0.005\text{mm}$



METS2 series

Without motor
Standard size: 10, 14, 17
Max. stroke 1000 (mm)
Positioning repeatability:
below $\pm 0.01\text{mm}$



METS series

Without motor
Big size: 22
Max. stroke 1500 (mm)
Positioning repeatability:
below $\pm 0.01\text{mm}$

» ELECTRIC STOPPER ACTUATOR

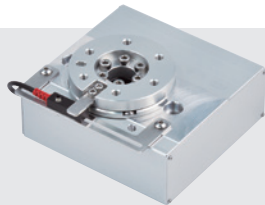
MESBE series

With motor
Trapezoidal screw + belt,
Size: 32, 50, 63, 80
Max. stroke: 40 (mm)
Positioning repeatability: $\pm 0.1\text{mm}$



MERE series

With motor
Size: 30
Rotation angle: 320, 360 (°)
Max. angular speed: ≤ 420 (°/s)
Positioning repeatability: $\pm 0.05^\circ$



» ELECTRIC ROTARY ACTUATOR

» ROD TYPE ELECTRIC ACTUATOR - BALL SCREW DRIVEN

MEQG series

Without motor
Small size: 5, 8
Max. stroke 800 (mm)
Positioning repeatability: below $\pm 0.01\text{mm}$



MEQI series

Without motor
Size: 32, 50, 63
Max. stroke 800 (mm)
Positioning repeatability: below $\pm 0.02\text{mm}$
ISO 15552



MEGT* series

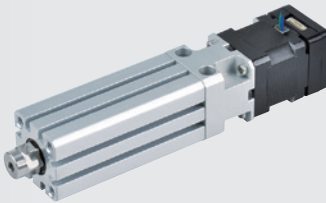
Without motor
Size: 32, 40, 50, 63
Max. stroke 1000 (mm)
Positioning repeatability: below ± 0.02 (mm)



COMPACT » ELECTRIC ACTUATOR

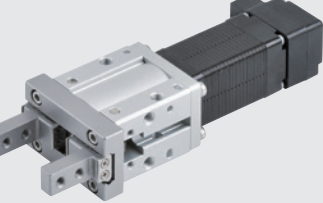
MEJQ series

With motor
Size: 16, 20
Max. stroke 100 (mm)
Positioning repeatability : ± 0.02 (mm)



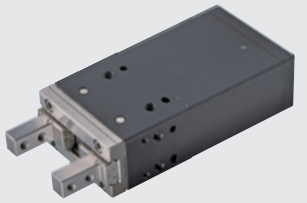
MEHC2 series

With motor
Size: 16, 25
Open and close stroke: 6, 14 (mm)



MEHC3 series [Economy]

With motor
Size: 16, 25
Open and close stroke: 6, 14 (mm)
Highly integrated with built-in controller.
Self-Locking Mechanism.
3-level adjustable gripping force.
No need for motor wires or encoder cables.



» MINIATURE ELECTRIC ACTUATOR - BALL SCREW DRIVEN

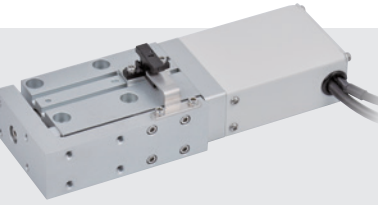
MESS2 series

With motor
Size: 16, 25
Stroke: 30, 50, 75, 100 (mm)



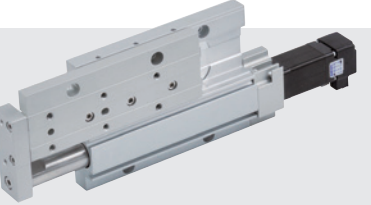
MESH2 series

With motor
Size: 16, 20
Stroke: 30, 50 (mm)



MESF2 series

With motor
Size: 16, 20
Stroke: 30, 50, 75, 100 (mm)



AUXILIARY COMPONENT

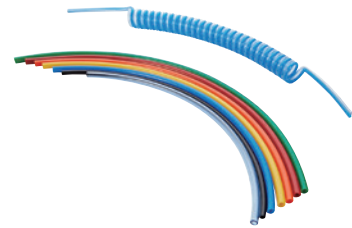
>> SHOCK ABSORBERS

MDSC/MDFC series
MAC/MAD series



>> PU TUBE

UM series
UML series (Coiling type)
O.D.: 4, 6, 8, 10, 12 (mm)
Available color: Transparent, Black, Blue, Transparent blue, Orange, Green, Yellow, Red



>> SENSOR SWITCH

Wiring method: 2 wire, 3 wire
Switch type: Reed switch, NPN current sinking, PNP current sourcing



PISCO®

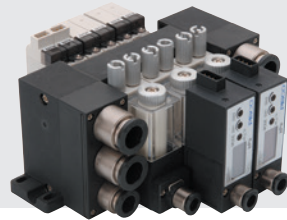
>> VACUUM GENERATOR

Simple vacuum generator
Types: Valve direct mounting type, Pipe type, Vacuum pad direct mounting, Box type
Complex vacuum generator
Vacuum characteristics: High-vacuum type, Large-flow type, High-vacuum at low air pressure type
External vacuum controller
High vacuum response speed, Quick vacuum release, Large blow-off flow, Large vacuum suction flow

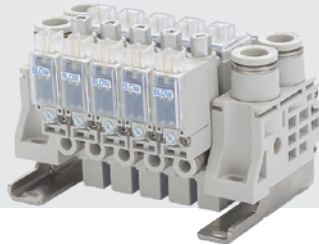
Simple vacuum generator



Complex vacuum generator



External vacuum controller



>> FITTINGS

Tube dia.:
4, 6, 8, 10, 12, 16 (mm)
5/32, 3/16, 1/4, 5/16, 3/8, 1/2, 5/8 (inch)

Thread size:
M5×0.8, M6×1, R1/8, R1/4, R3/8, R1/2
10-32UNF, NPT1/8, NPT1/4, NPT3/8, NPT1/2, NPT1/16

Straight type
PC series



Elbow type
PL series



Union Y type
PY series

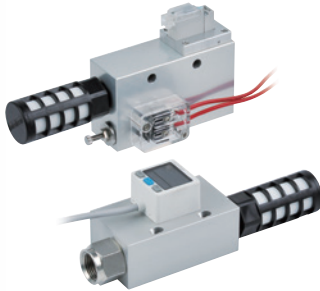


Branch Tee type
PB series



>> VACUUM GENERATOR

MVVA series
Port size: 1/8, 1/4, 3/8
Final vacuum: -91.8 kPa
(-690mmHg)



>> NO CONTACT TRANSFER

MHPSC series
Size: 20, 30, 40, 60
Port size: M3, M5
Lifting force: 0.9~6 (N)
(Pressure of 0.5 MPa)



>> POWER CYLINDER

MHPD series
Pressure boost model: 1T, 3T, 5T, 8T, 10T
Total stroke: 50, 75, 100, 150, 200 (mm)
Working stroke: 5, 10, 15, 20 (mm)



>> VACUUM PAD

Standard series
Cup diameter: ø0.7, 1, 1.5, 2, 3, 4, 6, 8, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100, 150, 200 (mm)
Oval series
Pad size (X × Y): 2×4, 3.5×7, 4×10, 4×20, 4×30, 5×10, 5×20, 5×30, 6×10, 6×20, 6×30, 8×20, 8×30 (mm)
Multi-bellows series
Pad diameter: ø10, 20, 30, 40, 50 (mm)
Mark-free series
Pad size: ø10, 20, 30 (mm)

Standard series



Oval series



Multi-bellows series



Mark-free series



>> SPEED CONTROLLER

Tube dia.:
3, 4, 6, 8, 10, 12 (mm)
1/8, 1/4, 5/16, 3/8 (inch)

Thread size:
M3×0.5, M5×0.8, R1/8, R1/4, R3/8, R1/2

2-stage type
BJSU series



Elbow type
JSC series



Free type
JSS series



Small Union Straight type
JSMU series



HYDRAULIC CYLINDER

Besides pneumatic cylinder, we also provides various hydraulic cylinders.

>> HYDRAULIC CYLINDER

MDH* / MDM* series
Double acting
ø40, 50, 63, 80, 100, 125, 150 (mm)
Max. stroke : 1500~1900 (mm)
Max. Operating pressure : 14 MPa / 7 MPa



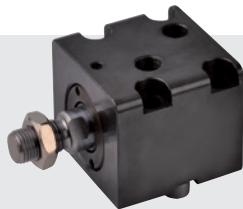
>> ROUND HYDRAULIC CYLINDER

MDO* series
Double acting
ø20, 32 (mm)
Max. stroke : 300 (mm)
Max. Operating pressure : 3.5 MPa



>> COMPACT HYDRAULIC CYLINDER

MHCB / MHCQ series
ø20, 25, 32, 40, 50, 63, 80 (mm)
Max. stroke : 100 (mm)
Max. Operating pressure : 14 MPa



MHCB-M series
ø32, 40, 50, 63, 80 (mm)
Max. stroke : 50 (mm)
Max. Operating pressure : 7 MPa
Magnetic as standard



MHCB* series
ø20, 25, 32, 40, 50, 63, 80 (mm)
Max. stroke : 100 (mm)
Max. Operating pressure : 14 MPa
Manifold type



>> HYDRAULIC ROTARY ACTUATOR

MRPH series
ø32, 40 (mm)
Standard rotation : 90±5°, 180±5°
Rotating shaft dia. : 24, 28 (mm)
Max. Operating pressure : 3.5 MPa



>> HYDRAULIC LEVER-TYPE CYLINDER

MHCK series
ø25, 32, 40, 50, 63 (mm)
Stroke : 25, 30, 35, 40 (mm)
Max. Operating pressure : 7 MPa
Clamping force (3 MPa) : 1296 N ~ 6471 N



CONNECTION



Web



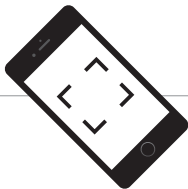
2D/3D
download



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Video



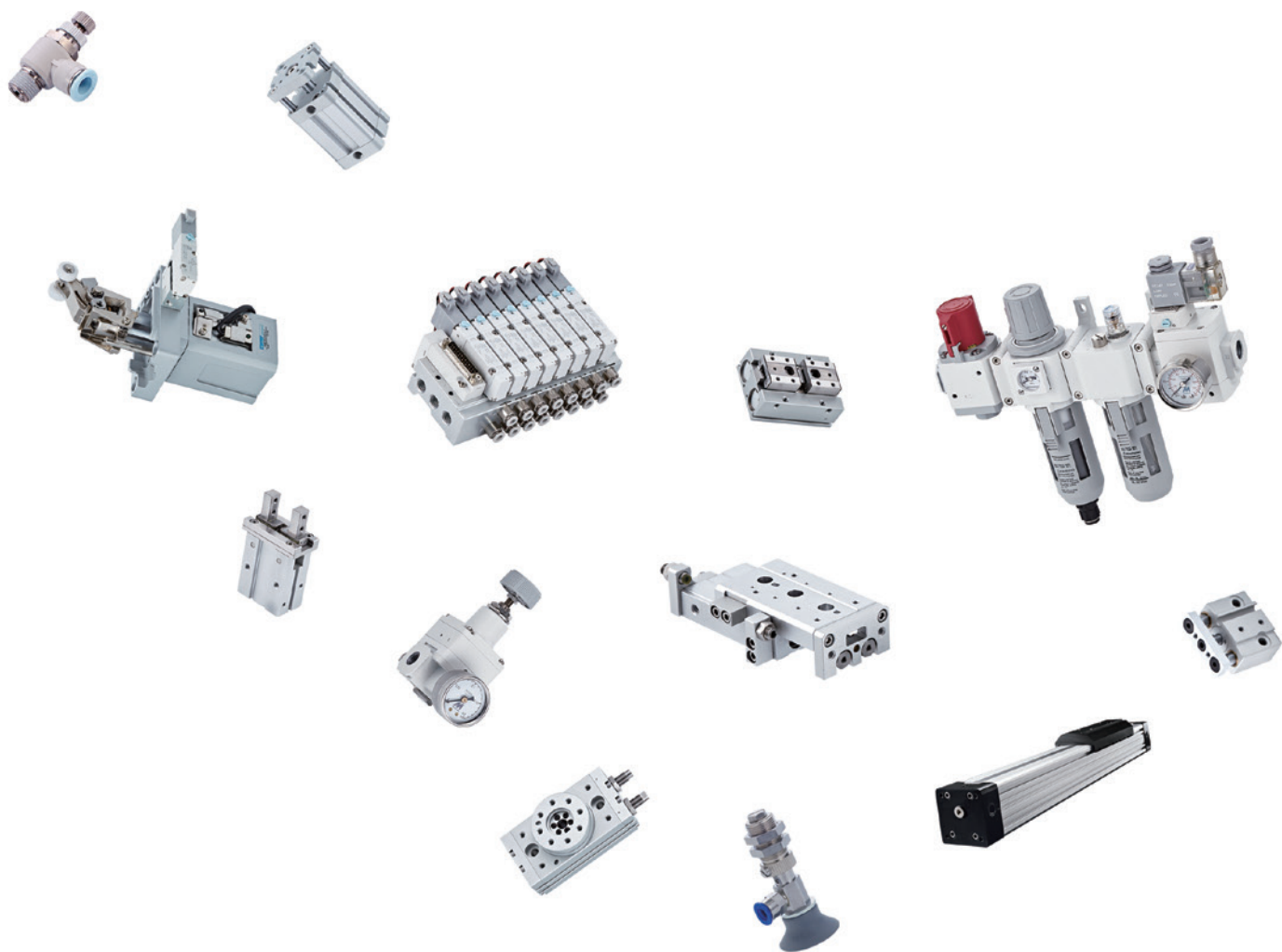
Solenoid
Valve



Air Treatment
Unit



Gripper



WEB



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📄 **CAT. NO: MD-P2410-E**

※ The specifications are subject to change without advance notice.