A variety of suitable products for machine tools

**Filter & Regulator Unit**
Pressure regulation and removing drain, dust and oil mist from air.

**Primal piping**

**Small Pressure Sensor**
Using an analog output sensor and a separate large display indicator allows remote indication.

**Shut-off/Ball valve**
It comes with an incorporated Push-in Fitting as standard.

**Separate Indicator with Digital Display**
Low cost large LCD display with dual vision, in 3 colors.

**Main Block**
Best suitable for manifold piping from primary air line.

**Cutting Oil Piping**

**Spiral Coil Tubing**
Expandable spiral tubing reduces load on tube fittings and is suitable for piping to air tools.

**Piping for Air Blowing**

**Spiral Coil Tubing**

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**Shut-off/Ball valve**
It comes with an incorporated Push-in Fitting as standard.

**Separate Indicator with Digital Display**
Low cost large LCD display with dual vision, in 3 colors.
Where precision processing and high durability are required.

**Cable Hose Carriers**
Protect and guide multiple cables and hoses neatly.

**Automatic Door Application**

**Handling Steel Plate** before/after/during Presswork Performing, or before/after Laser Processing

**Vacuum Cup Standard**
Suitable for transporting thick and flat work-pieces.
Pad dia.: ø10 ~ ø200mm

**Vacuum Cup Bellow**
Any ideal substitute where a level compensator does not fit space-wise.
Pad dia.: ø10 ~ ø100mm

**Vacuum Cup Skidproof**
Suitable for transporting greasy work-pieces.
Pad dia.: ø10 ~ ø50mm

**2-stage Speed Controller**
Act like a shock absorber. Controlling dual speed of cylinder to moderate shock at the cylinder end.

**Piping for Welding**

**Welding Spatter Resistant Products**
- Fitting and flow controller: Fitting and flow controller using flame-retardant resin made of brass.
- Anti-spatter: (2 layer) Tubing covered by flame-retardant resin (UL94 V-0 equivalent).

**Vacuum Generator**
- Simple vacuum generator has variety in shapes so that they can fit to various piping conditions.
- Complex vacuum generator is all-in-one type with compact body which has all features to control vacuum.

**Vacuum system Integrated Valve Unit**
Integrated valve for a vacuum system has all features to control vacuum such as on/off valve, blow-off valve and vacuum switch for energy saving.

**Rotary Vacuum Pump**
Lightweight, compact, quiet, low vibration, low heat generation, long life and energy saving compatible eco-friendly next generation pump.
Possible to use as vacuum source for vacuum chuck.

**Pad Direct Mounting Vacuum Filter**
To remove dust when sucking work-pieces.

**Vacuum Retention Valve**
To prevent correctly sucked objects from falling off.

**Swivel Joint**
Suitable for work-pieces having irregular contact angles on the surfaces.

**Machine Tools**
Compact and lightweight products

Vacuum Cup Standard
- Suitable for transporting thick and flat work-pieces.
  Pad dia.: ø10 ~ ø200mm

Vacuum Cup Bellows
- An ideal substitute where a level compensator does not fit space-wise.
  Pad dia.: ø10 ~ ø100mm

Vacuum Cup Skidproof
- Suitable for transporting greasy work-pieces.
  Pad dia.: ø10 ~ ø50mm

Viton material, which is less likely to cause repelling of paint, is suitable for suction conveyance of large work-pieces.

Vacuum Control Valve Unit
- Integrated valve for a vacuum system has all features to control vacuum such as on/off valve, blow-off valve, and vacuum switch for energy saving.

Welding Spatter Resistant
- Fitting and flow controller: Fitting and flow controller using flame-retardant resin, made of all brass exterior (UL94 V-0 equivalent).

Chemical Resistant
- SUS Compression Fitting, which is best suitable for airtight piping, and other SUS Push-in Fitting.

Anti-spatter (2 layer) Tubing covered by flame-retardant resin (UL94 V-0 equivalent).

Fluororesin Tubing with excellent chemical resistance.

Vacuum Pad Mark-free Series leaving less suction mark and preventing the adhesion of rubber ingredients on work-piece, is suitable for suction conveyance of small work-pieces.

Turning Table

Assembling

Spot Welding

Painting

Rotary Vacuum Pump

Dry Unit
- Removing drain, dust and oil mist from air and dehumidifying and reducing pressure.

Rotary - High speed swivelling
- Rotary Joint is best suitable for high speed swinging and rotating applications.
- High Rotary Joint is best suitable for ultra high-speed swinging and rotating applications.

Multi-Circuit Rotary Manifold: can serve max. 8 independent circuits.

Cable & Hose Safety

Cable & Hose Carrier
- Neatly protect and guide multiple cables and hoses.
Suitable for industrial robot / High-speed operation

**High-speed Picking Robot**

- **Light Coupling**
  - Quick connect and disconnect with one-hand operation. Best suitable for the piping where connection and disconnection of air line is frequently conducted.

- **Vacuum Series**
  - Environmentally friendly next generation Rotary Vacuum Pump.

  - Vacuum Filter removes the dust in vacuum line.

  - Large Digital Pressure Sensor makes it easy to monitor and control vacuum pressure.

  - Small Vacuum Regulator is designed to optimize the control of vacuum pressure.

  - Vacuum Control Valve Unit controls vacuum flow on/off, blow off with sensor switch.

- **Polyurethane Tubing**
  - Featuring excellent flexibility and best suitable for compact piping.

**Assembling machine**

- **Flow Control Valve**
  - Standard type flow control valve for driving device.

  - Low-Flow type is best suitable for slow speed adjustment.

  - Large-Flow type is best suitable for high-speed control.

  - Orifice Flow Controller requires no speed adjustment by preset speed with low cost.

- **Miniature Regulator**
  - Pressure reducer comes with compact body to install to a limited space. Gauge mounted models are available.

- **Polyurethane Tubing**
  - Suitable for work-pieces with the inclined sucked surface. Pad dia.: ø4 ~ ø40mm

  - Multi-Bellows Vacuum Cup
    - Suitable for work-pieces with the inclined sucked surface. Pad dia.: ø6 ~ ø20mm

  - Soft Lip Vacuum Cup
    - Suitable for work-pieces with flagile work-pieces. Pad dia.: ø4 ~ ø40mm

  - Soft Bellows Vacuum Cup
    - Suitable for work-pieces with the inclined sucked surface. Pad dia.: ø6 ~ ø20mm

  - Multi-Bellows Vacuum Cup
    - For work-pieces of various shapes conveyed at a high-speed. Pad dia.: ø10 ~ ø50mm

- **Light Coupling**
  - Quick connect and disconnect with one-hand operation. Best suitable for the piping where connection and disconnection of air line is frequently conducted.

- **Polyurethane Tubing**
  - Featuring excellent flexibility and best suitable for compact piping.

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Semiconductor, Solar cell, Secondary battery, Physical/Chemical Industries

Products best suitable for special environments / Clean room

- **Polyolefin (Cleanroom Pkg) Tubing**
  - Polyolefin resin suitable for clean environment.
  - Superior in water resistance.

- **Teflon Tubing**
  - Superior in chemical resistance. PFA tubing, which has high inner surface smoothness, transparency and purity while inexpensive FEP tubing are available.

- **Hose & Cable Carriers**
  - To protect and guide wiring & piping in surface mounting machine. **SP Series** with less inner surface friction reduces abrasion of electric wires or air tubes.
  - **SC Series** with structure of no sliding parts minimizes dust generation.

- **Low Friction Polyurethane Tubing**
  - Tubing having low friction coefficient. Best suitable for piping in guiding devices while cable and hose are protected.

- **Vacuum Pen**
  - A pen-like shaped vacuum generator suitable for assembling small components. Antistatic type is best suitable for processes which should avoid static electricity.

- **Vacuum Control Valve Unit for Vacuum System** has all features to control vacuum such as on/off valve, blow-off valve and vacuum switch for energy saving.

- **Vacuum Cup**
  - Small type is good for mounting electric component on printed circuit board. Pad dia.: Min. ø0.7mm - 2.0mm

- **Complex Vacuum Generator**
  - Realized High-speed and stable response.

- **Fittings**
  - For high speed small parts mounting. **Polyurethane Tubing** that is excellent for compact piping with excellent flexibility.
  - **Push-in Fitting** comes in a wide variety of models to meet piping requirement.

- **Rotary Joint** is best suitable for high speed swinging and rotating applications.

- **SUS Push-in Fitting**
  - Best suitable for a piping of ionizer.

- **Vacuum Series**
  - **Lightweight, compact, quiet, low vibration, low heat generation, long life and energy saving compatible eco-friendly next generation Rotary Vacuum Pump.**
Corrosion, Chemicals and Heat resistance as well as Cleanness and Electrostatic Discharge

1. Products for Clean Environment
   Polypropylene Products are oil-free and its resin body is translucent, by which hygiene confirmation of fluid is easily conducted with eyes.
   - Push-in Fitting
   - Speed Controller
   - Needle Valve
   - Check Valve
   PPS (all-resin) made Fitting
   - Hollow Fiber Membrane Filter is marked by the filtration accuracy of 0.01 μm and, trapping efficiency of 99.99%.

2. Products for Heat Resistance
   Polyphenylene sulphite (all-resin) made fitting is superior in heat resistance and flame retardancy (UL94 V-0 equivalent).
   - Push-in Fitting
   - Compression Fitting
   - Needle Valve
   SUS316 products are resistant to heat.
   - Push-in Fitting
   - Compression Fitting
   - Needle Valve
   PPS (all-resin) made fitting is recommended for metal-free environment. The fitting has excellent chemical resistance, too.
   - Opening or Closing Gripper grips outside, bore, or groove of work-pieces and convey them.

3. Products for Corrosion Resistance
   SUS Products are superior in corrosion resistance.
   - Push-in Fitting
   - Compression Fitting
   - Needle Valve
   SUS316 products are resistant to heat.
   - Push-in Fitting
   - Needle Valve
   SUS304 Equivalent Corrosivity
   SUS303 Equivalent Corrosivity
   SUS316
   - SUS304
   Polyphenylene sulphite (all-resin) made fitting is superior in heat resistance and flame retardancy (UL94 V-0 equivalent).

4. Electrostatic Discharge
   Conductive resin is used.
   - Push-in Fitting
   - Air Tubing
   - Cable & Hose Guide
   Electric conductive rubber is used.
   - Vacuum Cup
   SUS316
   - SUS304

5. Vacuum
   To cope with fields of “No copper alloy” and “Low-level ozone resistance”.
   - Simple Vacuum Generator
   - Complex Vacuum Generator
   - Integrated Valve for Vacuum
   - Vacuum Filter
   - Pressure Sensor
   - Vacuum Pad

6. Contactless Conveyance
   Air Float Transporting Plate Unit is best suitable for contactless conveyance of LCD panel, PDP, or solar panel.

7. Production process of solar cell and secondary battery
   Corresponding to requirements at battery manufacturing process, which are
   - 1 Chemical
   - 2 Heat Resistance
   - 3 Corrosion Resistance
   - 4 Prevention of static charge
   - 5 Vacuum
   - 6 Contactless conveyance

8. Physical/Chemical Industry
   - Agricultural chemical spraying device on drone
   Polyurethane Tubing features:
   - Excellent flexibility, best suitable for compact piping.
   - Push-in Fitting comes in a wide variety of models to meet piping requirement.
**Filling machine**

- **Products for Piping**
  - Rich line-up of air piping equipments around the filling nozzles. **Light Coupling** enables easy one-hand attachment. **Flow Controller** is for controlling speed of an air cylinder.
  - **Polyurethane Tubing** and **Multi-core Bonded Tubing** for compact piping with wide color variations.

**Hydrogen Water Generating Server**

- **Products for Piping (filling)**
  - **Pressure Gauge** is compact and suitable to visually check primary and injection pressure of hydrogen.
  - **Polyurethane Tubing** has excellent flexibility and best suitable for compact piping.
  - **Polyurethane Spiral Coil Tubing** is helpful for compact piping between a server and a bottle.

**Suction Conveyance**

- **Vacuum Series**
  - **Vacuum Cup Sponge Series** to convey frozen pizza crust.
  - **Vacuum Cup Soft Bellows Series** is best suitable to feed retort pouches to a steam sterilizing apparatus.
  - Lightweight, compact, quiet, low vibration, low heat generation, long life and energy saving compatible eco-friendly next generation **Rotary Vacuum Pump**.
  - **Integrated Vacuum Controller VQP** is suitable to control large flow-rate.

**Automatic pharmaceutical tablet packer**

- **Products for Piping**
  - Application for automatic pharmaceutical tablet packer. **Push-in Fitting** is for piping other than direct work-piece contact. **Flow Controller** is for controlling speed of a driving unit.
  - **Polyurethane Tubing** comes in wide color variations.
  - **Shut-off Valve (3-way)** discharges residual pressure and enables safe maintenance.

**Stainless steel SUS316 - both Compression Fitting and Push-in Fitting** are suitable for piping in food-related industries that require resin material free.

Ex.) **Lidding machine for ice-cream cone**
For clean environment

Automatic Packaging Machines

Products for Piping
- Flow Controller is suitable to control air-cylinder speed for receiving products or moving cutter blade in and out.
- Orifice Fitting is suitable to control air-cylinder speed to open/close gate in automatic weighing machine.
- Positive/Negative Pressure In-line Filter removes dust in compressed air to supply clean cooling air.
- Push-in Fitting and Polyurethane Tubing are suitable for air distribution.

Vacuum Series
- Vacuum Cup Bellows Series is suitable to assemble carton boxes.

Products for Piping
- For inner piping of dental treatment unit.
- Push-in Fitting
- Positive/Negative Pressure Union Filter
- Ball Valve
- Soft Polyurethane Tubing

Dental Treatment Unit

Vacuum Pad Soft Series and Soft Bellows Series are also suitable for opening/closing bag.

For opening pouches as well as collecting flying around powders.

Vacuum Generator VRL is suitable to transport powder like work since suction port and exhaust port are in a straight line.

Bagging

For food and medical industries

Assembling carton boxes

Vacuum Series
- Suitable for opening pouches as well as collecting flying around powders.

Vacuum Series
- For deaeration and degassing at vacuum packaging.

Products for Piping
- Vacuum Generator VVV with multi-stage nozzle ensures high vacuum and flow rates.

Vacuum Packaging

Degassing application

For inner piping of dental treatment unit.

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Bagging

For food, pharmacy, packaging machinery

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Products for piping with heat medium which is necessary for injection molding

**Mold Temperature Control**

**Push-in Fitting**, which can be used with water, enables parts commonization.

**Die Temperature Control Fitting**

Thread part and push-in fitting part can be uncoupled. No convex projection on the mold surface which is convenient when storing molds.

**Nylon Tubing**

Possible to use for hot water and heat medium oil. Various tube colors are available.

**Air Blowing Piping**

Hollow Fiber Membrane Filter with filtration accuracy of 0.01 μm (Trapping efficiency: 99.99%).

**Positive/Negative Pressure Union Filter** removes dust in compressed air.

**Shut-off Valve** exhausts residual pressure and enables safe maintenance.

**Polyurethane Tube** enables compact piping.

**Vacuum Series**

To remove gas inside molds. Lightweight, compact, quiet, low vibration, low heat generation, long life and energy saving compatible eco-friendly next generation Rotary Vacuum Pump.

**Vacuum Generator VW** with multi-stage nozzle ensures high vacuum and flow rates.

**More Products for Mold Temperature Control**

**Push-in Fitting**

Good versatility. Water can be used.

**Push-in Fitting Long Type**

8 choices in length. Select the best length according to an application.

**Tube Fitting Brass**

All brass made except for lock-claws and sealing rubber. Heat medium oil and water can be used.

**Brass Compression Fitting**

Focused on air tightness. By using special brass for main metal body, it has greatly improved corrosivity for water.

**Stainless Steel SUS316 Push-in Fitting**

SUS316, highly resistance to corrosion, is used. Operating temperature range is wide.

**Stainless Steel SUS316 Compression Fitting**

Focused on air tightness. Can be used up to the operating temp. range of connected tubes.

**Fluororesin (PFA) Tubing**

Wide range of operating temperature: -65 ~ 260°C.

**Fluororesin (FEP) Tubing**

Reasonable price. Wide range of operating temperature: -65 ~ 200°C.

**Fluororesin**

Reasonable price. Wide range of operating temperature: -65 ~ 200°C.
Protection and guiding wiring and piping / End of arm tooling.

**Low-Friction Polyurethane Tubing**
1/3 friction factor of standard polyurethane tubing. Suitable for piping in guiding equipment that protect cables and hoses.

**Complex Vacuum Generator**
Vacuum Generator VK with wide variety of unit combinations enables an optimal selection according to an application.

**Products for Piping**
- **Multiple Connector** realizes simultaneous connection and disconnection of 2 lines with separate male terminal and female terminal which is stackable up to 4 layers.
- **Flow Controller** is for controlling speed of a driving unit.
- **Polyurethane Tubing** is best suitable for compact piping with 10 color variation.
- **Color Caps** with 10 color variations realizes easy distinguishing of each piping.

**Air Preparation & Detection Switch**
Filter Regulator controls quality and pressures of compressed air supplied to each parts of sprue picker for molded parts.

**Cable Hose Carriers**
To protect and guide multiple cables and hoses of sprue picker, take-out robot for molded parts.
- **SP Series** with less inner surface friction reduces abrasion of electric wires or air parts minimizes dust generation, tubings.
- **SC Series** with structure of no sliding reduces abrasion of electric wires or air parts minimizes dust generation, tubings.

**Grippers & Vacuum cups**
- **Angular Gripper with sprue jaws** is to grip runners and spools.
- **Vacuum Cup Soft Series** is suitable for molded parts easily to get a scratch.
- **Vacuum Cup Soft Bellows Series** is suitable for molded parts having the inclined suction surface.

**Parallel Gripper**
Parallel Gripper features compact body, high precision, yet high gripping force. Choose external gripping or internal gripping by the mounting position of the attachment.