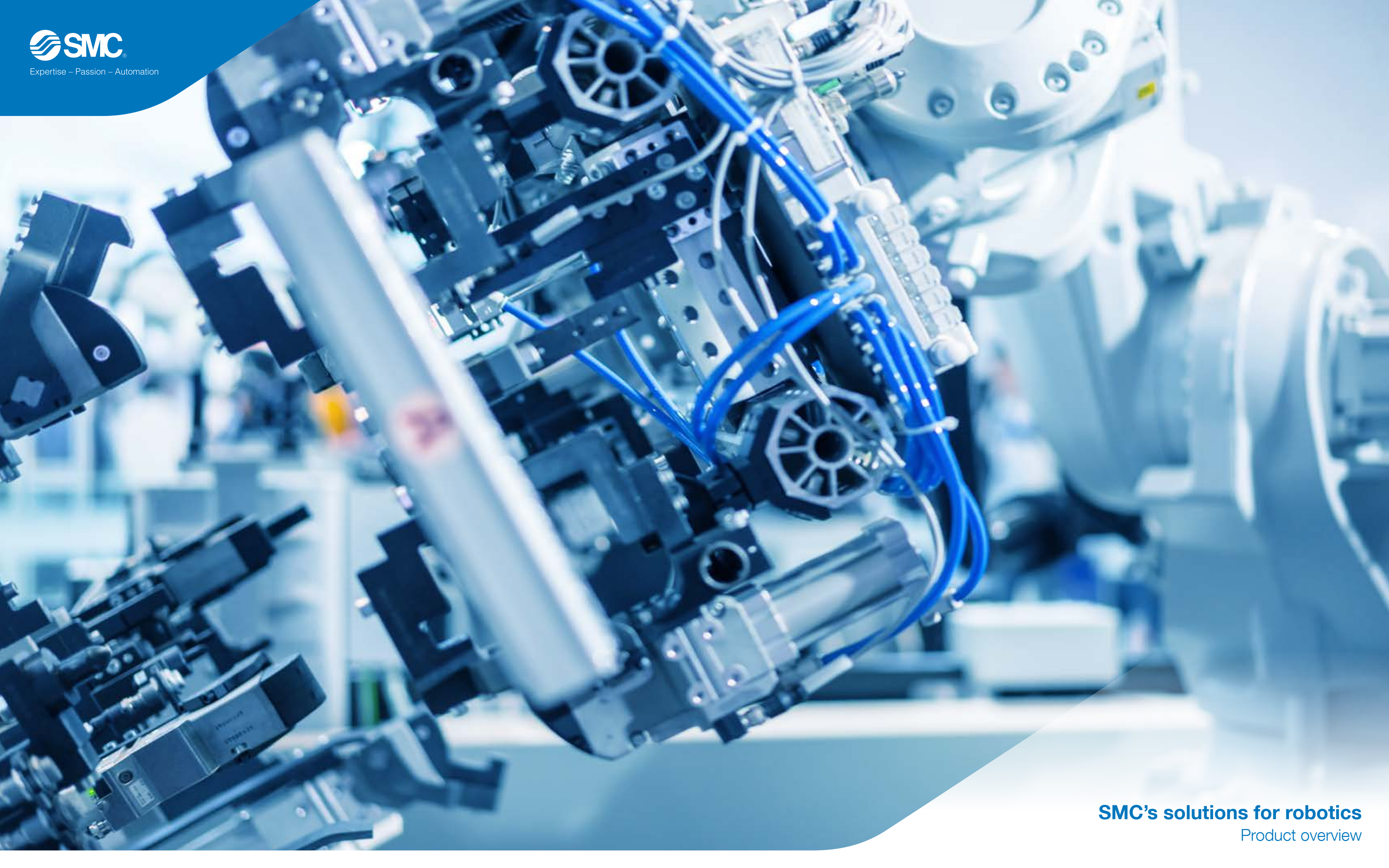




Expertise – Passion – Automation



SMC's solutions for robotics
Product overview

SMC, your global single supplier

Your right arm

Understanding the needs of our customers and the type of components they require, means we have created a range of solutions that are compact, lightweight and energy efficient. This is supported by our global infrastructure with offices in 83 countries and 2,000 engineers committed to delivering exceptional levels of service. This international coverage gives our customers the confidence and trust to access parts or technical support, wherever they are in the world.

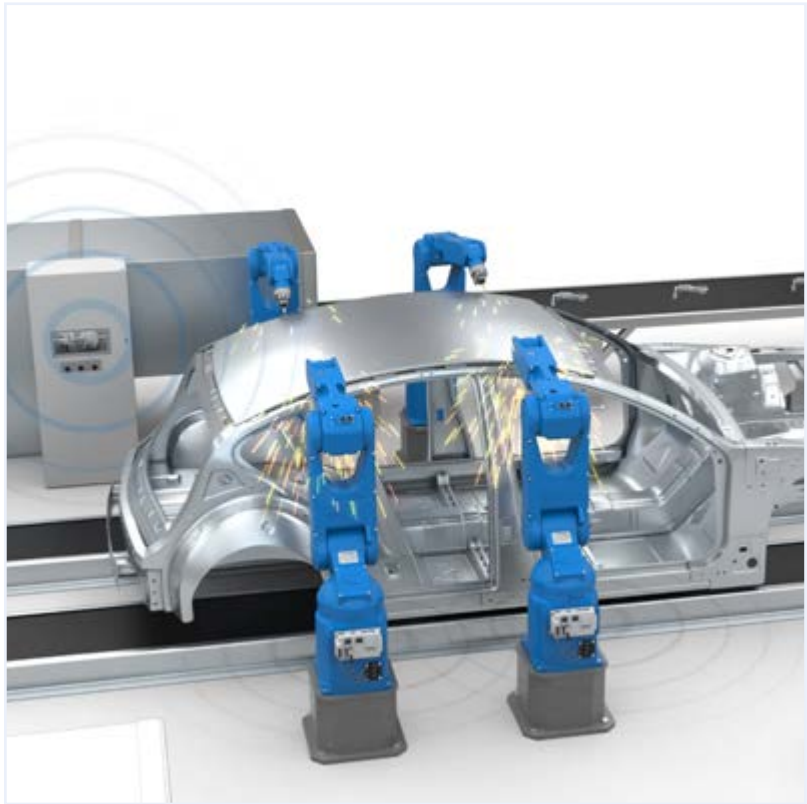
Our customers, our inspiration

We enjoy a close working relationship with our customers, who inspire us every day as they harness their creative genius using SMC products to find and create solutions that were not previously thought possible. A great example of this in action, is when our LAT3 card motor was mounted on a robot head to perform quality checking tasks, while the robot was continuing to handle the workpiece.

Read on to find out more about SMC's solutions designed to meet the age of industrial robotics.

Let us to follow you to the right solution which will perfect fit to your application!



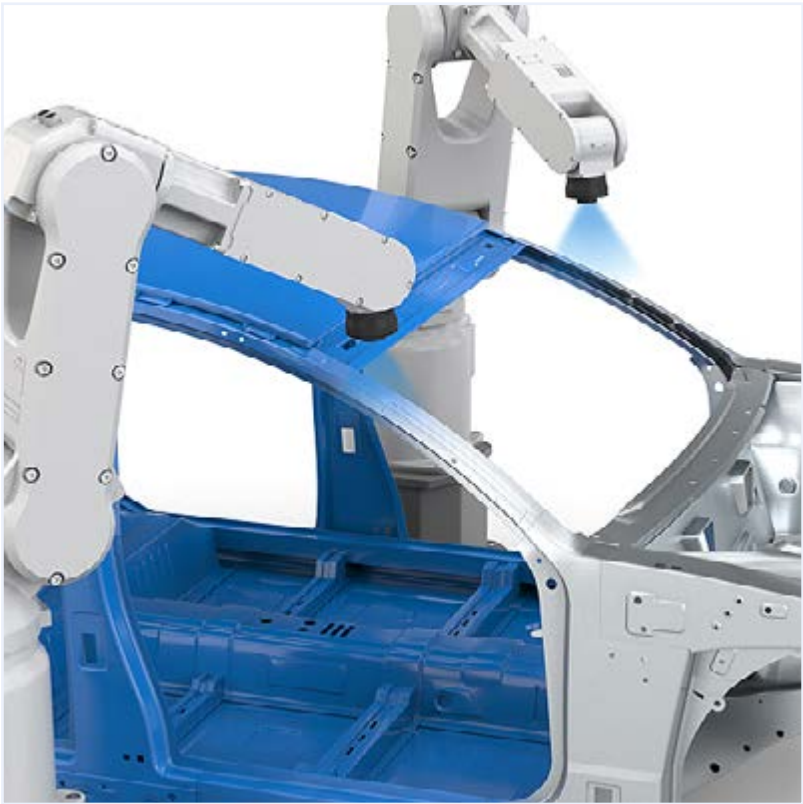


Complete solution for either arc, spot or laser welding.
Standard or customized product solutions, suitable for the welding sector where the environments are exposed to very hard conditions.

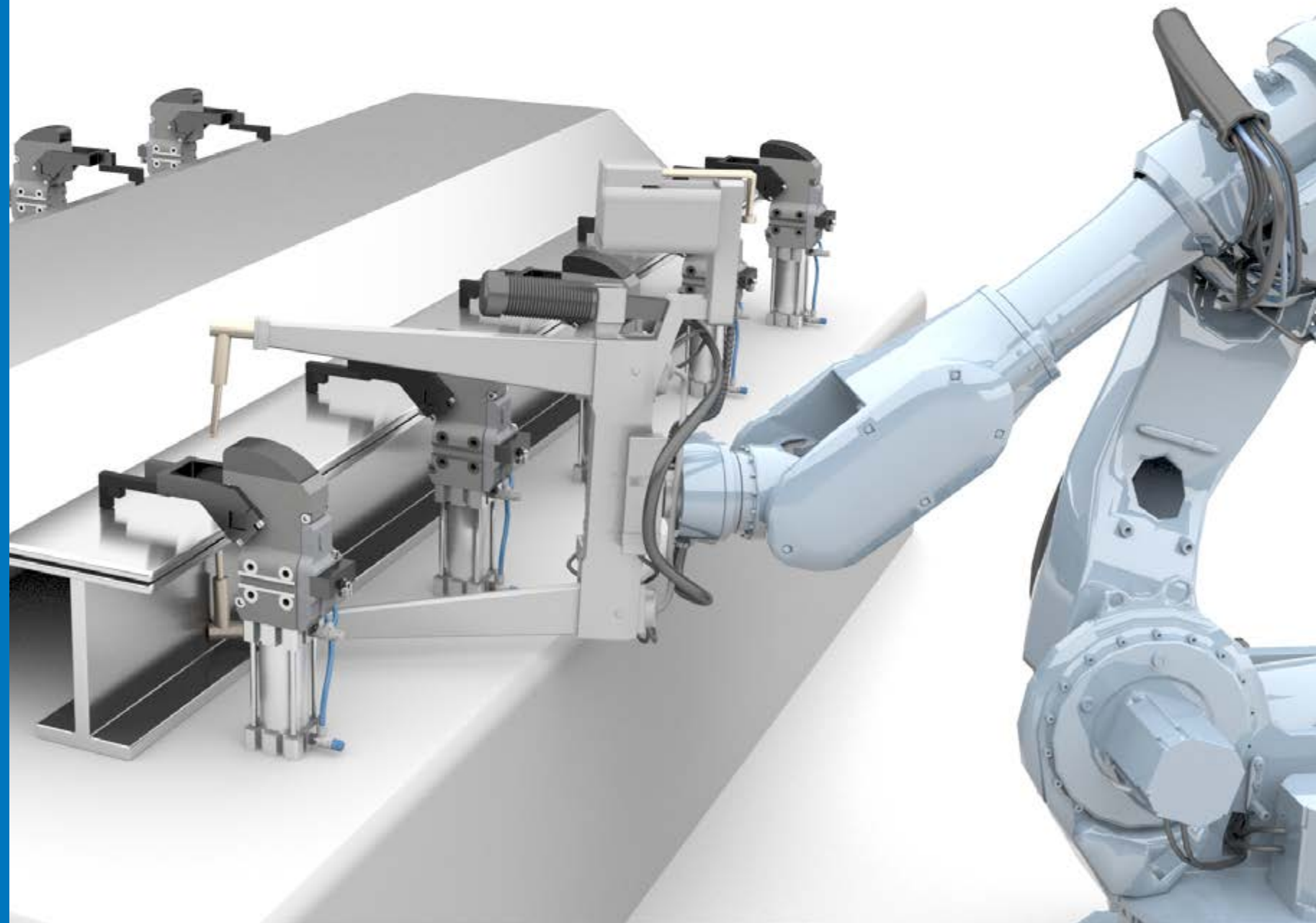
Discover more:



Do you have a gripping challenge? Do you need to build up your complete vacuum solution? We are up for it!
Pneumatic, electric or what you never imagined, a great variety of options with which SMC allows you to handle whatever you want with your robot.



When quality in painting is a must
We make your painting application easier with a variety of silicone-free products, a suitable choice for automotive and paint industries to avoid detrimental effects on paint adhesion.



SPOT WELDING



IO-Link

Main Line Air filters

AFF, AM, AMD Series

Main line filter with water separator
Filtration degree 1 µm, 0.1 µm or 0.3 µm and 0.01 µm
Water separation rate 99% (condensate)
Element service indicator
Automatic condensate drain standard (different versions possible)
Small pressure drops

Air Line equipment - Modular F.R.L. Units

AC Series

Easy handling and space saving design
Port size up to G 1"

Digital Flow Switches for Air / Water

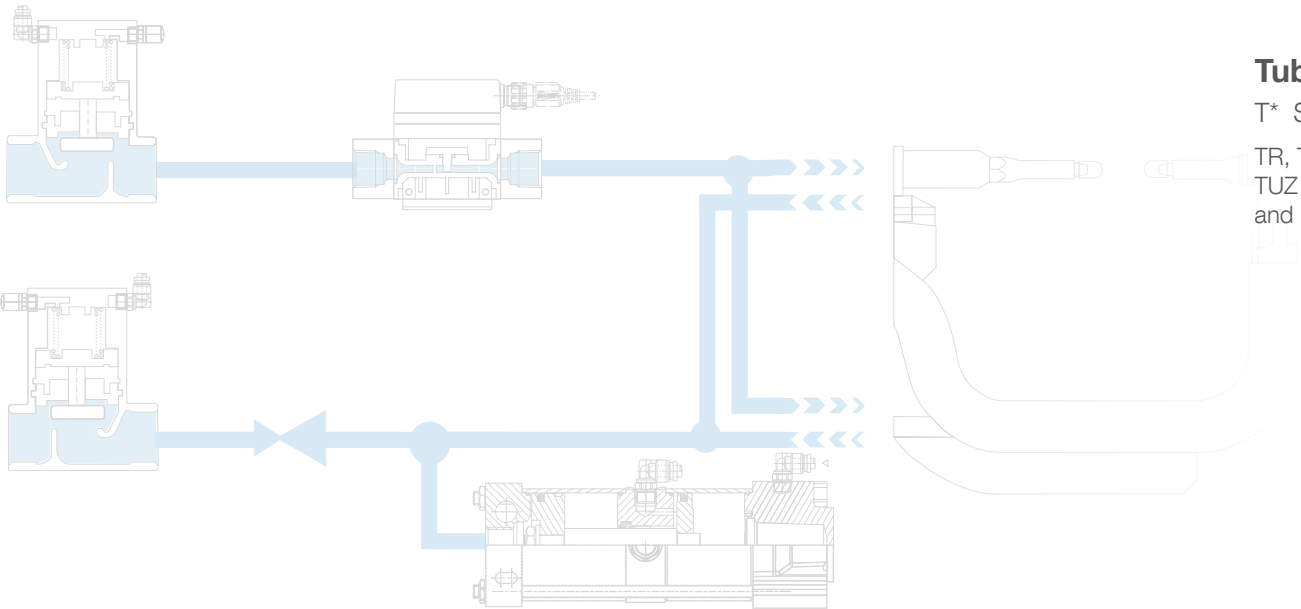
PF*A, PF-M Series (Air) / PF*W (Water), LFE (water)

Monitor your air pressure consumption. Adding switches to processes will drive greater awareness of energy consumption and give greater control on how and when it is used
Monitor cooling water flow to get maximal quality of your welding spots

Tubes for special enviroments

T* Series

TR, TRTU, TRS - Flame resistant tubes
TUZ - Wear resistant tubes
and many others



Industrial Filters

FN, FH, FQ, FGD, FGF, FHIAF Series

For various fluids
Various filtration degree & flow capacity
FN series - thanks to the unique filter elements with back-flushing function no element replacement is required

IO-Link

Circulating Fluid Temperature Controllers

HR Series

Monitor and control the temperature of your welding equipment
Cooling capacity up to 28 kW

Digital pressure switches

ISE Series

High-Precision Digital Pressure Switches, available also with IO-Link
For Air, CO2, Nitrogen or general fluids
Pressure ranges from 0 to 10 MPa!

Process valves

VNB Series

For controlling various fluids
Can operate with a wide range of fluids, such as air, water, oil, gas, vacuum, etc., by selecting the body material and the seal material

#1 Media preparation

LASER WELDING

“Two fluid channel systems can be controlled individually by one chiller”

CH2 - Laser optical system

CH1 - Oscillator



HRL - Touch screen interface



Media panels for Laser welding cells

Taylor made product

Applicable fluid: Dry air, N₂, Ar, CO₂
Hight flow rate, ISO 13849-1 safety components
Variable design for various types of applications
Option: combination with cooling water control circuit
Different types of control: Parallel / Analogue I/O, SI interface (Profinet®, IO-Link, EtherCAT®, EtherNet/IP™, ...)

Dual Channel Refrigerated Thermo-chiller for Lasers

HRL Series

Temperatures for 2 fluid channel systems can be controlled individually by one chiller (CH1 - Oscillator, CH2 - Laser optical system)
Power consumption reduced by 30% - 1 compressor, 1 fan and 2 pumps are controlled by inverter
Space saving installation, reduced wiring

Cooling capacity:

CH1: 9 kW to 26 kW
CH2: 1 kW

Temperature stability:

CH1: ±0.1 °C
CH2: ±0.5 °C

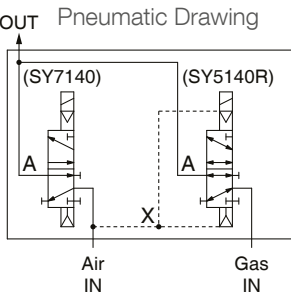
Set temperature range:

CH1: 5 to 35 °C
CH2: 10 to 40 °C



Extend service life of your welding tips

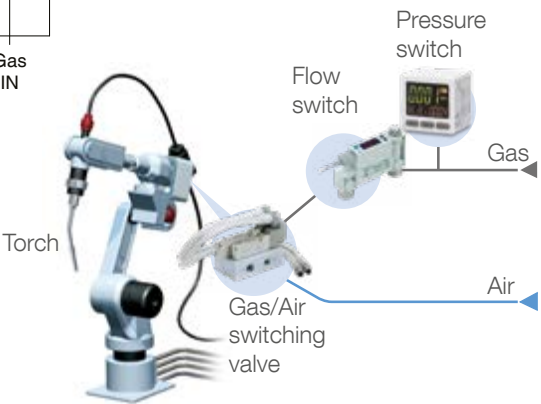
ARC WELDING



Gas/Air Switching Valve

SS5Y7-X424-Q

Shield gas valve and air blow valve are integrated
Welding tip service life can be extended by blowing the air to cool the tip after arc welding
The number of tip replacements and the tip costs are reduced.
Space saving/Compact design
Low power consumption: 0,5 W



Digital Flow Switch for Dry air, N₂, Ar, CO₂

PFM Series

Integrated Display / Remote Sensor Unit + Flow Sensor Monitor
Applicable fluid: Dry air, N₂, Ar, CO₂
Grease-free



Metal Speed Controller with One-touch Fitting

ASB Series

Improved environmental resistance with the all metal exterior
For use in environments with welding spatter, dust, ultraviolet, etc.
Improved installability, more space beneath the tube
Easier installation/removal of the tube



Small Capacity Air Tank

VBAT Series

Small capacity air tank to which a booster valve can be connected
Tank capacity: 5 L, 10 L, 20 L, 38 L
Material: carbon steel or stainless steel (SUS304)

#1 Media preparation

Fieldbus technology



Fieldbus system for input/output

EX245 Series
Robust and noise-resistant – Fibre-optic communication
Speed up your robot tool change – Fast start-up function
Reduce your assembly time & wiring – Plug & Play AIDA push-pull connectors

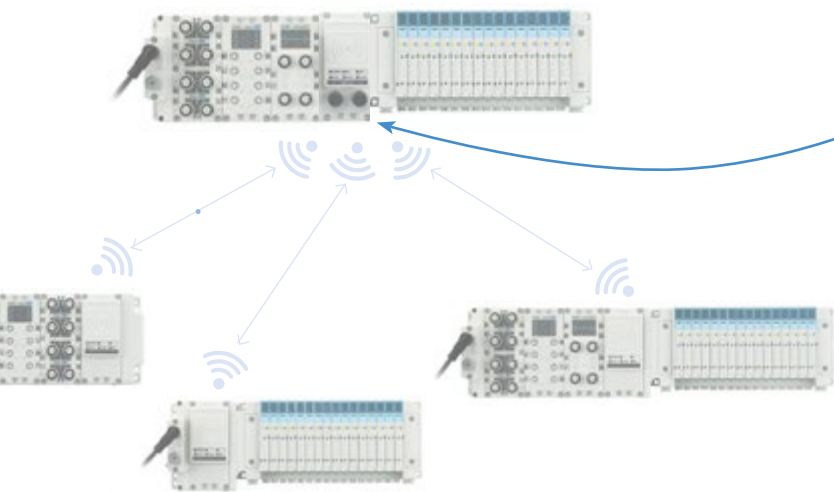
Repeater configuration available

Wireless system

EX600-W Series
Less cables & connectors, less installation & maintenance, less breakage & disconnection risk
Increase machine availability (OEE improvement)
Achieve totally reliable, noise-resistant communication
Frequency hopping and data encryption in the 2.4 GHz ISM band

Centralised multipoint Fieldbus System

EX600 Series
Centralised multipoint Fieldbus system for digital and analogue I/O
Modular expandable and adjustable through different system components
Remote status check and parameter settings via Web Server for Ethernet/IP available
Self-diagnosis function



EX600-W Wireless system

Usable even in welding environments!
Max. 1280 inputs/1280 outputs (Max. 128 inputs/128 outputs per module).
High-speed connection - time needed from power supply ON to start of communication: min. 250 ms. (remote unit)
Fast response time: 5 ms.

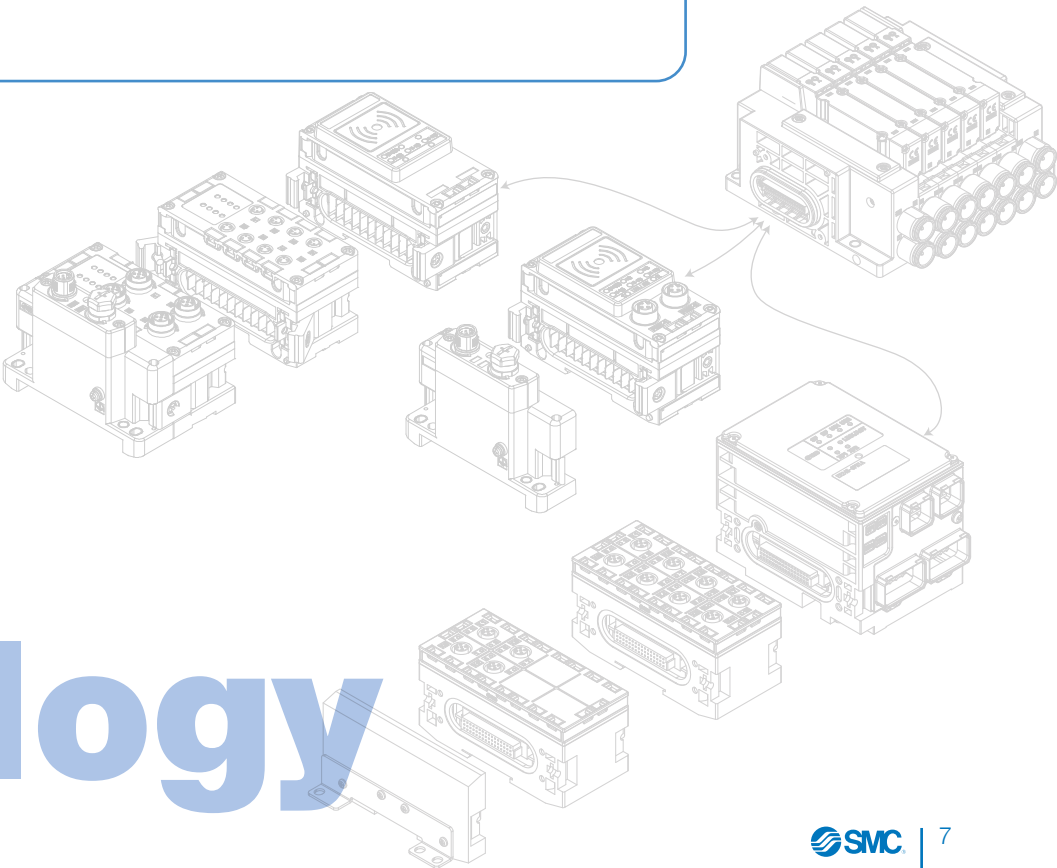
Valve islands

Extremely compact & outstanding flow rate

SY new Series
Extremely compact and lightweight valve, high flow rates.
Extreme low power consumption:
0.1- 0.2 W (low wattage type)
0.4 W (standard)
Wide variety of wiring configurations and additional features, including specially designed parts for specific safety demands when handling with large and heavy metal parts

Tailor made for welding shops

VQM Series
Valve island series based on standard VQC series, with specially designed parts for specific safety demands when handling with large and heavy metal parts



#2 Valve island technology

Clamp cylinders



Power Clamp Cylinder

CKZT / CKZ3T Series
Bore sizes (mm): 25 to 80 mm
Force amplification with a toggle mechanism and lock function
Spatter-proof construction
With / Without manual hand lever
(*Specific options availability may differ based on size and body construction)

Pin clamp cylinder

C(L)KQG/P Series
Bore sizes (mm): 32, 50 mm
Positioning and clamping at one time
Optional locking mechanism available
Compatible with mounting magnetic field resistant auto switches
All types available with lock
New lightweight version C(L)KQG32-X3036
Compatible with D-P3DWA magnetic field resistant auto switch

Pin Plate Cylinder

C(L)KU32 Series
Bore size (mm): 32 mm.
Responses to reduction of spare parts, short lead times, and a drastic reduction of special orders. Guide pin is separated from the reference support block. Reference support block can be machined by the customer. (The block can be changed to a desired shape.)

Clamp Cylinder / Slim type

CK*-X2095 Series / CLK*-X2095 Series (with lock)
Bore sizes (mm): 25 to 40 mm.
The smallest class of clamp cylinder in the world, ø25 is available: Weight: 380 g, Length: (146.7 + Stroke) mm
Weight reduced by up to 48%, total length reduced by 18%
Possible to mount auto switch in 3 directions
Compatible with D-P3DWA magnetic field resistant auto switch

Clamp Cylinder

CK1-Z Series
Bore sizes (mm): 40 to 63 mm.
Newly updated version, total tube length reduced, with same mounting dimensions
Without or build in standard or strong magnet for auto switch
Possible to mount auto switch in 3 directions
With air cushion (head end). Optionally spatter resistant piston rod

Clamp Cylinder with Lock

CLK2 Series
Bore sizes (mm): 32 to 63 mm.
Magnetic field resistant auto switches are mountable (Rod mounting)
With air cushion (head end). 2 series, 4 sizes and 3 clevis widths have been standardised
Widely applicable to different types of equipment
With a cover configuration that eliminates protruding valves

Shift cylinders

Pin Shift Cylinder

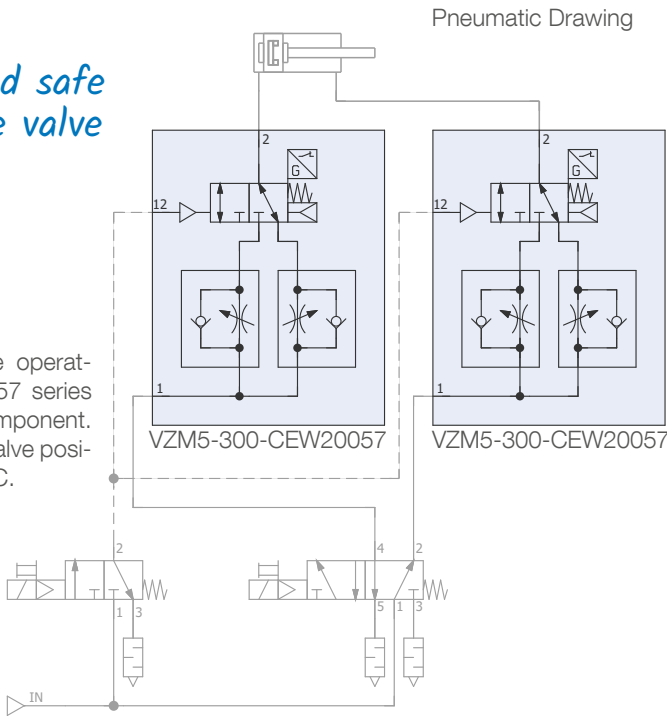
Different Series
Shot Pin Cylinder, Locating Pin Cylinder, Offset Pin Shift Cylinder
High Precision: Rod end deflection of ±0.1 mm or less position reproducibility
D-P3DWA magnetic field resistant auto switch is available
With piston rod coil scrapper



Cylinder operational and safe reduced mode with one valve

Two-Speed-Valve

VZM5-300-CEW20057 Series
Two-speed valve for safe implementation of all common machine operating modes, from set-up to maintenance. The VZM5-300-CEW20057 series valve combines the operational and safe reduced mode into one component. In addition, the new two-speed valve reliably detects the built-in 3/2 valve position and transmits it via a fail-safe signal to the higher-level safety PLC.



#3 Clamping & Shifting

Spatter Resistant Cylinders

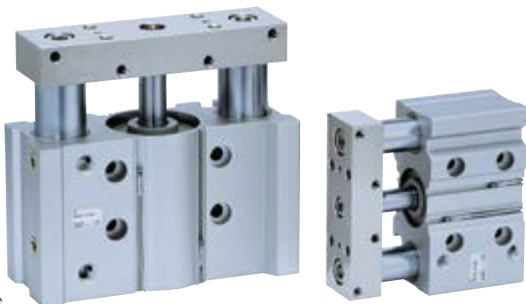


Compact cylinders
CQ2 -XC88, -XC89, -XC91, -XC35 Series

Achieve long service life by the use up to three roles of the coil scraper, lube-retainer and grease for welding in one unit for a cylinder. Select solution witch best fits to your welding conditions and environment.



Compact guide cylinders
MGP -XC88, -XC89, -XC91, -XC35 Series



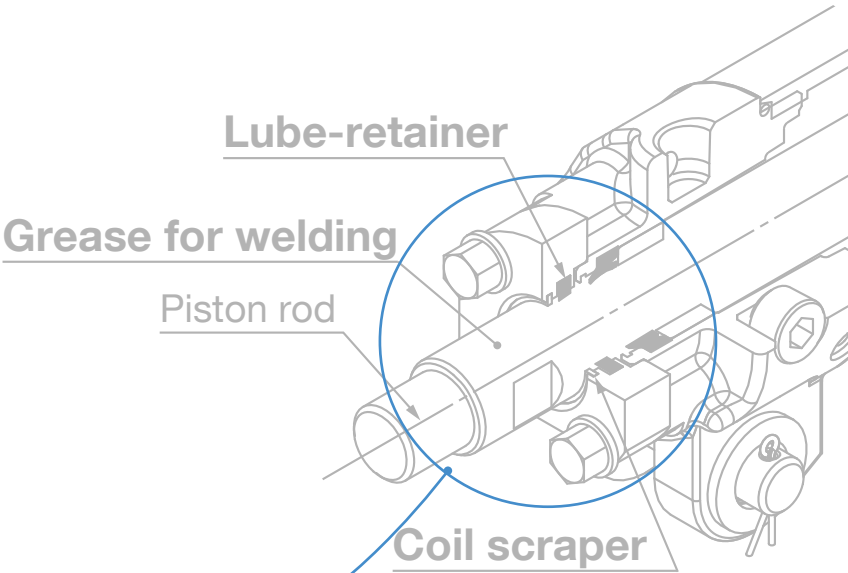
Air cylinder
CG1 -XC35 Series



Rotary clamp cylinder
MK2T -XC89, -XC91 Series



Air cylinders
CA2 -XC88, -XC89, -XC91, -XC35 Series



For more details and available cylinder series visit www.smc.eu.

Coil scrapper

Get rid of the weld spatter adhered to the piston rod.

Welding grease

Don't even allow the spatter adhesion to the piston rod, improve cylinder durability more far.

Lube retainer

Prevent entry of dust a and micro powder to the cylinder.

#4 Advanced actuators

AirServo system for welding guns

AirServo System XT581 Series



AirServo package
Energy efficient and high response
control of AirServo system



Inline filter



AirServo equalizing cylinder
High force and precise positioning

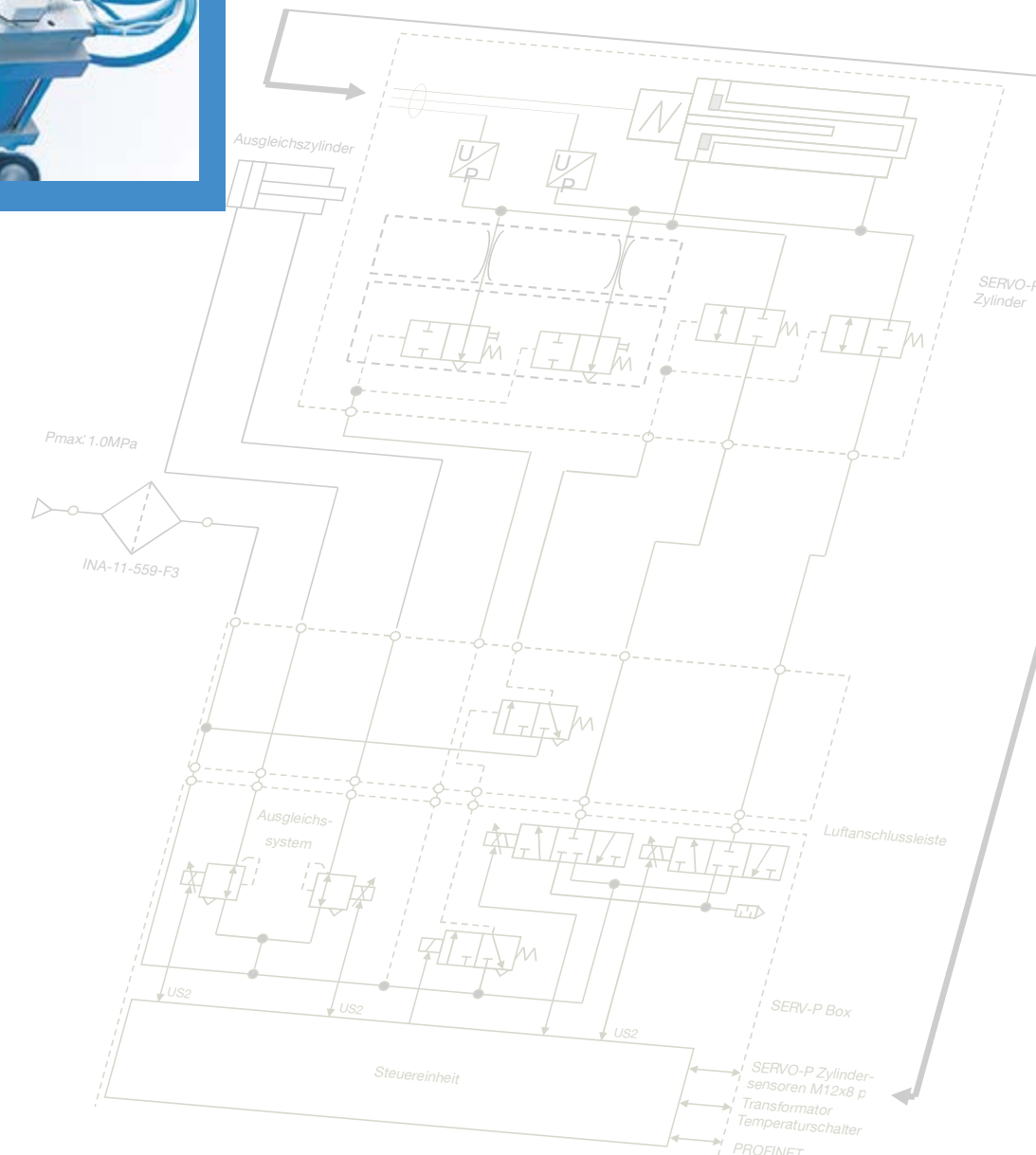
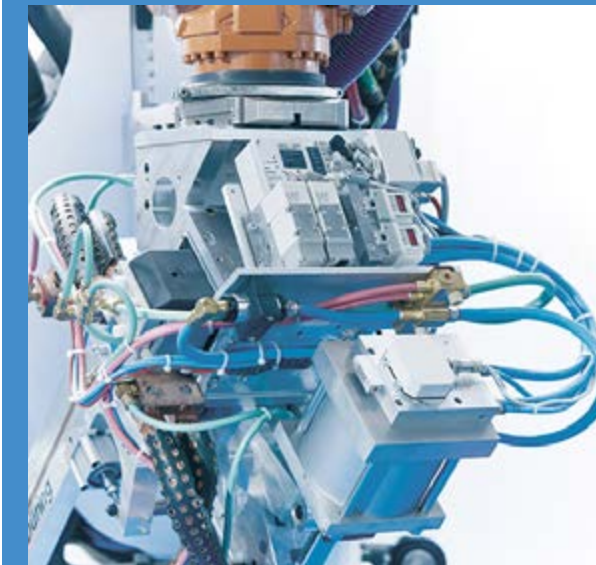


AirServo equalizing cylinder
In order to ensure that moveable and fixed electrode arrive
at the work piece at the same time

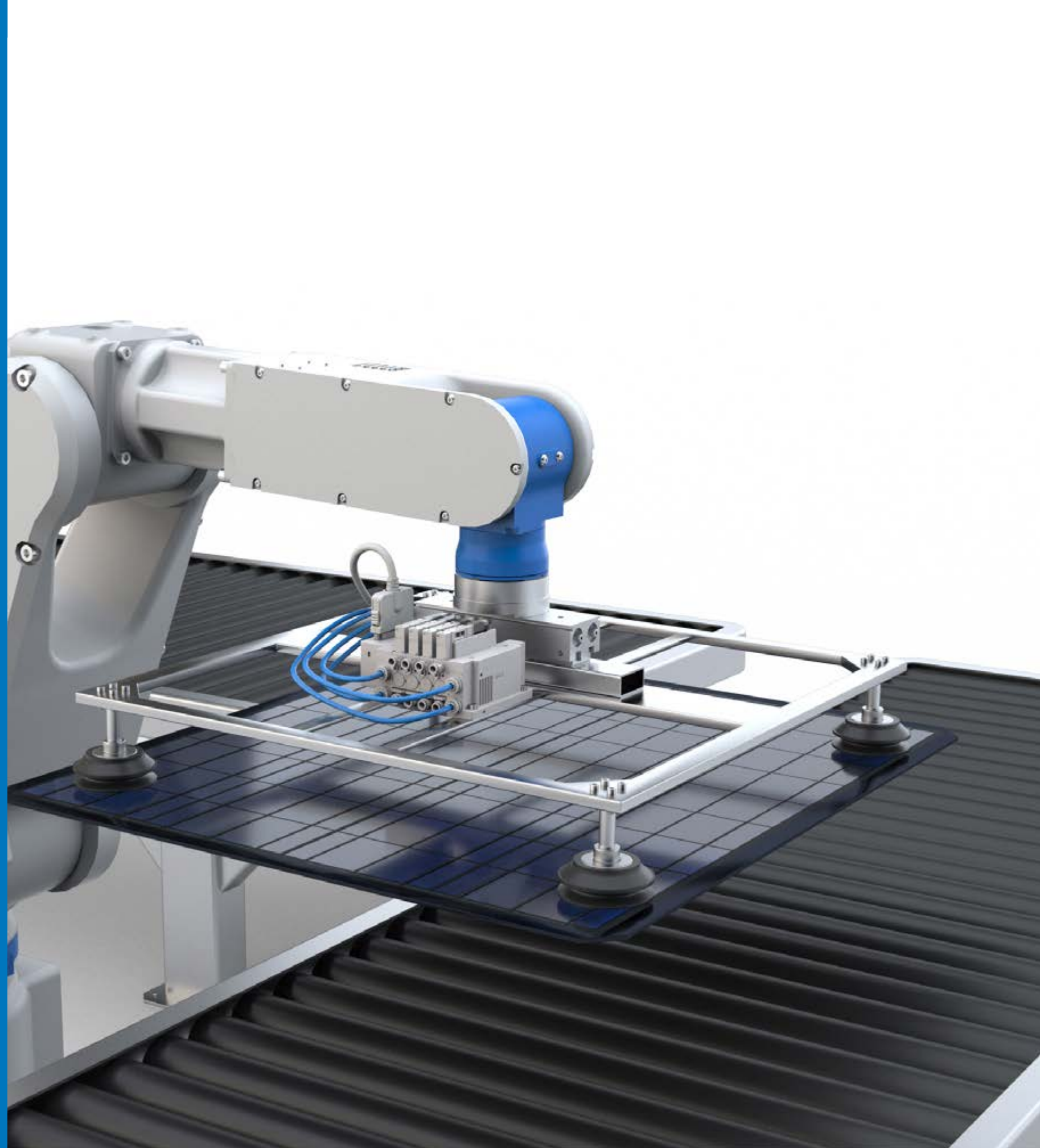
*The AirServo system is designed to operate a robot
welding gun.*

At any time the SERVO-P controller provides actual and complete status- as
well as diagnostics information. It enables the robot controller to take full control
of the welding process. The SERVO-P system operates as a slave of the robot
controller.

The AirServo system is designed to operate
a robot welding gun. It controls the SERVO-
P welding cylinder as well as the welding gun
equalizing cylinder. The AirServo system is in-
terfaced to robot or supervising controller using
PROFINET fiber optics or copper cable.



#5 AirServo system

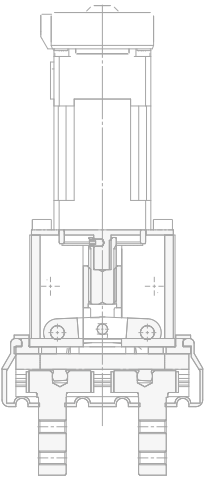




Finger changer
system available

Pneumatic grippers

JMHZ2/MHZ/MHF/MHS/MHK/MHR MHC/MHY/MHW Series
Bore sizes (mm): 8, 12, 16, 20, 32, 40, 50, 63, 80, 100, 125
Stroke from 4 up to 200 mm
Various types of grippers, finger options, parallel / angular, toggle mechanism



Electric grippers

LEH Series
2 and 3 Finger grippers, drivers for either I/O control or Filedbus control
Locking mechanism for drop prevention
Energy-saving, compact body and long stroke

Double gripper reversing unit

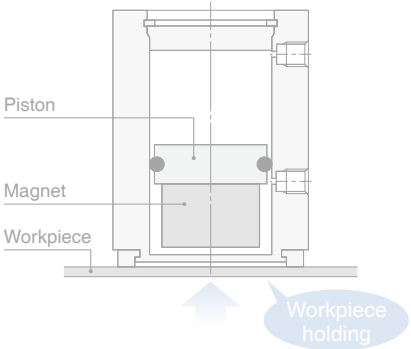
MHS Series
Mount our 3-finger air grippers on the reversing unit to operate in limited spaces
Reduction of the turning diameter required by mounting the air grippers in parallel
Downsize your machines
The stroke of the equipment shutters can be reduced.



Type for Cobots -
MITSUBISHI, OMRON, YASKAWA, FANUC, UR, ...

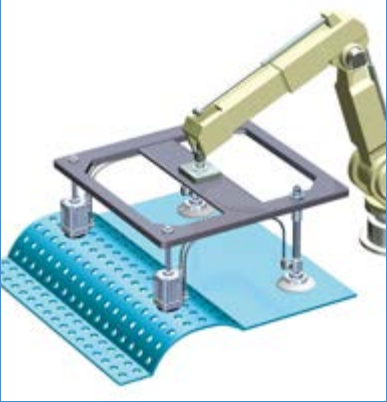
Air Gripper Unit for Collaborative Robots

JMHZ2-X7400B* Series
Integrated solenoid valve, speed adjustment mechanism, and auto switch
High rigidity and high precision due to its guide-integrated construction
Operate by simply connecting 1 air supply and an M8 connector



Magnetic gripper

Transfers steel plates without a vacuum, holding force up to 1.000 N. Support workpieces with holes and uneven surfaces. Drop prevention, holds workpieces even when air is shut off.



Magnetic gripper

MHM Series
Bore sizes (mm) 16, 25, 32, 50
Holding force up to 1000N, holds workpieces even when air is shut off
Holding force can be adjusted. residual holding force 0.3 N or less



PLUG & PLAY SOLUTION FOR COLLABORATIVE ROBOTS

Vacuum Gripper Unit for Collaborative Robots

ZXP-X1 Series
Integrated vacuum ejector, air supply/release valve, pressure sensor and pads
Plug & play configuration for immediate use
YASKAWA, OMRON, UR and much more compatible cobots



Vacuum sensors

ZSE20 Series
3-Screen, 3-Colour Display, 3 specified items displayed simultaneously
Simple setting, Power saving mode, High precision
Digital / Analogue outputs, IO-Link compatible type available

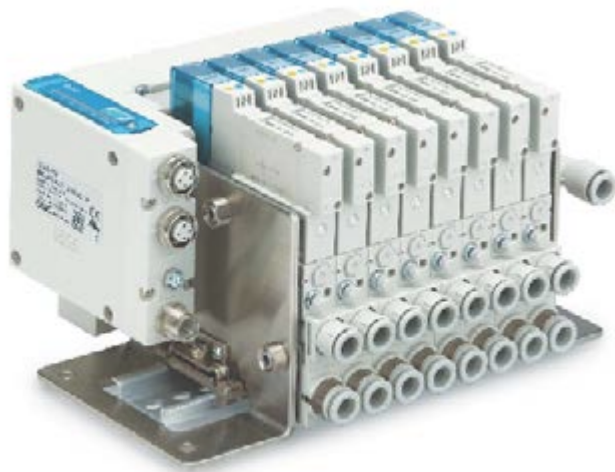
Vacuum pads

ZP Series
Pad diameters 2 to 200 mm
Various types of materials
Flat, flat with ribs, deep and bellows



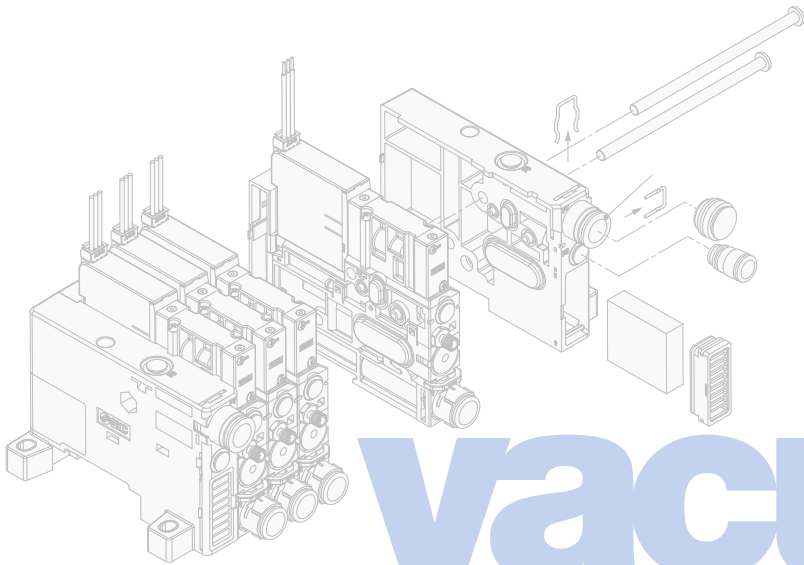
Vacuum pad with ejector

ZHP Series
Ejector and pad are integrated
Space saving and reduced piping labour
Two stage ejector, pad diameter 63, 80 mm



Vacuum saving valve

ZP2V Series
Restricts reduction of vacuum pressure even when there is no workpiece
No need for switching operation when changing work pieces



Vacuum Filter

AFJ Series
Prevents vacuum equipment trouble
Removes water drops
Large flow capacity up to 660 NI/min (ANR)

Vacuum ejectors

ZU/ZH/ZK2/ZL Series
Single or manifold systems, one to three stage diffusers
Energy saving function, lightweight and compact
Suction flow rate from 2 up to 600 NI/min (ANR)

For dimensions and other details refer to the general catalogue for each series in www.smc.eu

Vacuum Manifold for fieldbus system

ZKJ Series
Collective settings for vacuum pressure / energy saving function from fieldbus unit EX260-VPN1 (PROFINET)
90% reduction in air consumption by controlling energy saving function
Up to 16 ejectors / manifold, Nozzle diameter 0,7; 1,0; 1,2; 1,5 mm
Max. suction flow 31 to 68 NI/min (ANR), Max. vacuum pressure -89 kPa, Max. supply pressure 0,4 MPa

vacuum handling

**Non-contact, contact gripper
(Bernaulli, Cyclone type)**

Picking up parts where direct contact is not feasible.

For the adsorption transfer of thin cloths,films, printed circuit boards, etc.



Non-contact grippers, Bernaulli grippers

XT661, ZNC Series

Bernaulli pad ZNC: Diameter 20, 40, 60 mm, Lifting force up to 28 N

Bernaulli pad XT661 (non-contact): Body size 39 to 150 mm, Lifting force up to 16 N

Cyclone pad XT661 (non-contact): Diameter 20 to 100 mm, Lifting force up to 44 N

AIR CONVEYORS

Transfer bulk materials like grain or pellets.
Remove smoke, debris, and fine particles from the work area.
By reversing the air flow, they become air blow off units.



Vacuum Flow Air Conveyor Unit

ZH*-X185 Series

The ZH-X185 is versatile and can function either as a blow off unit or a vacuum unit depending on the direction of the output port
Large passage diameter available for suction of machining chips, particles, etc
No moving parts makes the unit maintenance free



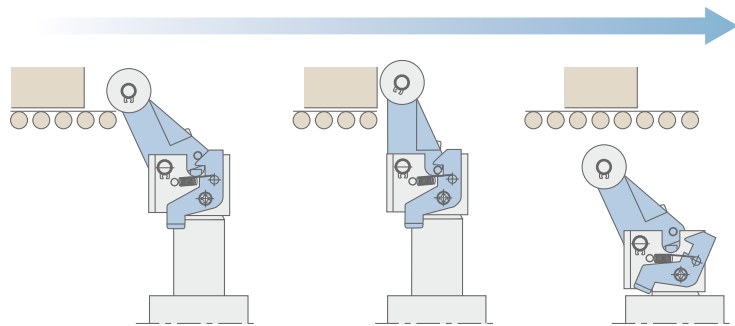
High-flow Blow and Vacuum ejector units

ZH-X226/-X249/-X338 Series

Blow off unit or a vacuum unit depending on the direction of the output port
These units can be integrated into various applications including adsorption transfer, coolant blow, water droplet removal, etc.



LOAD STOPPING



Stopper Cylinder, Adjustable Mounting Height

RS(D)G Series

Adjustable height stopper cylinder
Double acting & single acting available
Bore sizes: 40mm, 50mm; Stroke range: 20mm to 30mm
Auto switch capable



Centring unit

MACM Series

Alignment and positioning of transferred work pieces
Contributes to space saving on conveyor lines
Max. allowable load weight: 1000 kg
Workpieces can be moved in any direction
Ball bearings allow for smooth operation
Table centering accuracy ± 1 mm or less (Workpiece not loaded)
Table center movable range: Max. $\phi 100$ mm.



Stopper Cylinder, Fixed Mounting Height

RS(D)Q-Z Series

Fixed Height Stopper Cylinder, Double / Single Acting
Bore sizes (mm): 16, 20, 32, 40, 50; Strokes up to 30 mm
10 rod end configurations available
Compact auto switch mountable on 4 surfaces.



Heavy Duty Stopper Cylinder

RS2H Series

Heavy duty stopper cylinder
Bore sizes (mm): 50, 63, 80 mm
Piping available from 2 directions
Variety of options available



adsorption
transfer

Work pieces & pallet alignment
and positioning

SPACE EFFICIENT,
FREINDLY WITH PRODUCTIVITY
J-Series, New product releases



Light &
compact

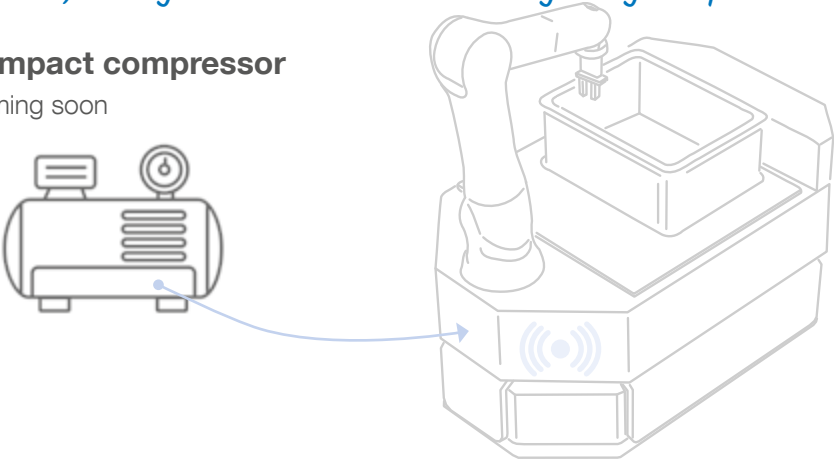
Energy efficient, ready for maximal flexibility of your production

Plug-in Compact 5-Port Solenoid Valve
JSY Series

Wireless System - Compact remote type
EX600-W Series



Compact Cylinder with Linear Guide
MXZ Series



Rotary Actuator
CRB Series

Compact Cylinder
JCQ Series

Compact Type Parallel Style Air Gripper
JMHZ2 Series

Compact Guide Cylinder
JMGP Series

Vacuum Unit
ZK2-A Series

Speed Controller, Compact Type
JAS Series

Changing your robot's tools has never been easier

When several tools have to be used in the same robot application, don't hesitate, take a look at our next product.



Repeatable high-precision: ± 0.01 mm
Air interface: 4 (MA2) / 6 (MA3) lines
Electrical interface: 8 (MA2) / 12 (MA3) contacts
Max. work load: 3 kg (MA2) / 5 kg (MA3)

Air Gripper with Finger Changer Function

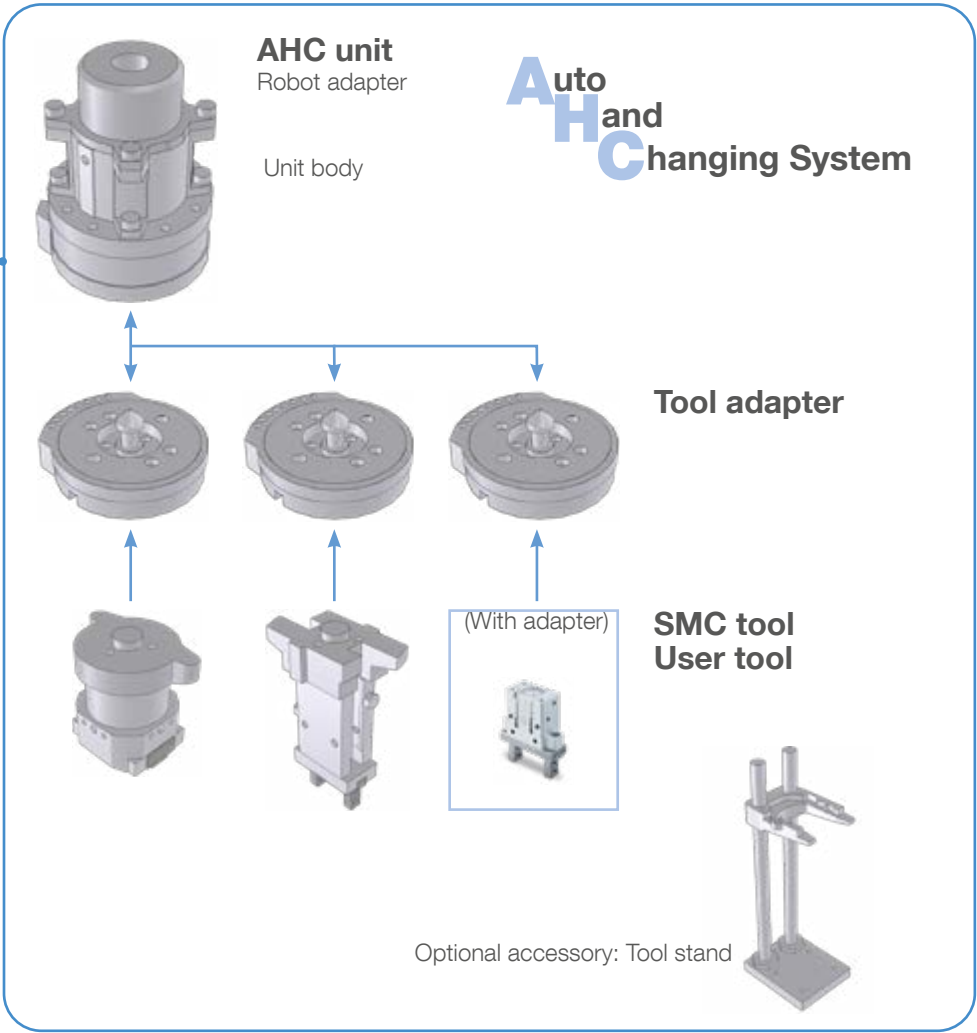
MHF2-X7076A Series

Automatic tool changer unit for robots
The wiring and piping are bundled together in the body of the air gripper (robot side)
Improves electric contact during tool changes, reduces air leakage due to defective piping connections, etc.
Various workpieces can be handled by a single robot

Auto hand changing system

MA Series

Automatic exchange of robot hand tools without requiring adjustments or teaching
Built-in failsafe mechanism for drop prevention when there is air pressure loss
Max. work load: 3 kg (MA2), 5 kg (MA3)



Multi-connectors

DM, DMK, KDM Series

One-touch installation and removal of multi-tubes
Built-in One-touch fittings
Non locking system for automatic changers

Wireless system

EX600-W Series

Less cables & connectors, less installation & maintenance, less breakage & disconnection risk. Increase machine availability (OEE improvement)
Achieve totally reliable, noise-resistant communication
Frequency hopping and data encryption in the 2.4 GHz ISM band

EX600-W Wireless system

Usable even in welding environments!

Max. 1280 inputs/1280 outputs (Max. 128 inputs/128 outputs per module).

High-speed connection - time needed from power supply ON to start of communication: min. 250 ms.

Fast response time: 5 ms.

exchange





Electro-Pneumatic Regulator

ITV Series
Controls air pressure in proportion to an electric signal
Light weight in design with a bright and easy to read LED display
The monitor output is available either as analog output or switch output
The ITV series is IP65 equivalent.

Main Line Air filters

AFF, AM, AMD Series
Main line filters, high flow capacity
Filtration degree 1 µm, 0.1 µm or 0.3 µm and 0.01 µm
Small pressure drops
Odour removal filter
Filtration according to ISO8573-1



Valve for water and chemical base fluids

VCC Series
Space-saving & light valves through a resin body with reduced paint deposit
Antistatic manifold applicable for water/chemical base paint and cleaning with solvent/air
High reliability and long service life (2 million cycles).

Process Pumps

PA/PB/PAF Series
Whatever the application, SMC offers the perfect pump solution for your needs
Our single and double acting process pumps provide a range of benefits including increased efficiency, reliability and performance, thanks to the materials used in our pumps
Constructed to be used among other fl uids with chemicals, the range offers a high performance fluororesin pump with non-metallic body parts guaranteeing total compatibility when using with high purity chemicals

Air dryer combination

AF + AFM/AFD + IDG Series
Ensure quality painting by supplying quality air into the robot, combined with an air filter, mist separator and dryer

Stainless steel fitting

VCK Series
Resists painting chemicals – SUS316L stainless steel
Assures reduced residual liquids – Resin surface sealing
Easy installation and removal in tight spaces, piping volume reduced – 40° swivel elbow

Quick Couplers

KK/KKA/KKH/KK130 Series
S coupler with Plug and Socket, for general purpose
Series KK - With sleeve lock mechanism (Except KK2)
Series KK - Without sleeve lock mechanism
Series KKA - Body material: stainless steel 304, Seal material: Fluoropolymer (special FKM), Grease-free
Series KK130 - Energy saving and Cost reduction, Plug insertion forced reduced by 22 %, Compact and Lightweight reduced by 14 %



Fluoropolymer tubing

TH Series
Perfect to use in extreme conditions. Highly resistant to harsh fluids and solvents up to 200 °C, as well as the possibility of being used at high operating pressures

High purity fluoropolymer fitting

LQ Series
Avoids impurities within painting circuits for car bodies on painting lines in car industriesNew PFA material virtually eliminates particle generation and TOC (total organic carbon) allowing confident use in the most demanding applications.
Resistant to harsh fluids and solvents up to 200 °C



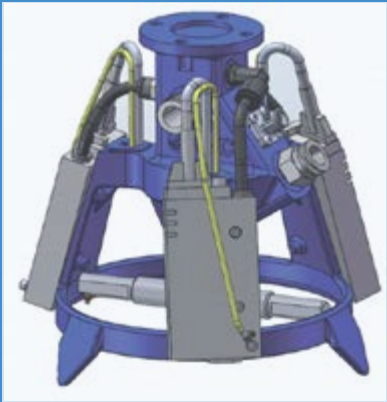


Bar Type Ionizer

IZT40/41/42 & IZS40/41/42 Series
Get rid of static from flat and/or remote surfaces

Rotary cleaning system

Special products
Special solution for collaborative robots
Ion discharge and particle removal by air pressure rotary nozzles



Fan Type Ionizer

IZF10/21/31 Series
Remove static in the atmosphere around the workpiece or when there is no air supply available

Gun Type Ionizer

IZG Series
Shoot for neutralise static and particles from any surface

Antistatic products

TAS/TAU Series – Antistatic tubing
TAU-X100 Series – Antistatic coloured tubing
KA Series – Antistatic one-touch fittings
AS-X260 Series – In-line type/elbow type
ZP3 Series – Conductive NBR/conductive silicon rubber
A ZP2 Series – Conductive NBR/conductive silicon rubber
A ZP Series – Conductive NBR/conductive silicon rubber
SMC has a lineup of products that prevent from charging static electricity



Nozzle Type Ionizer

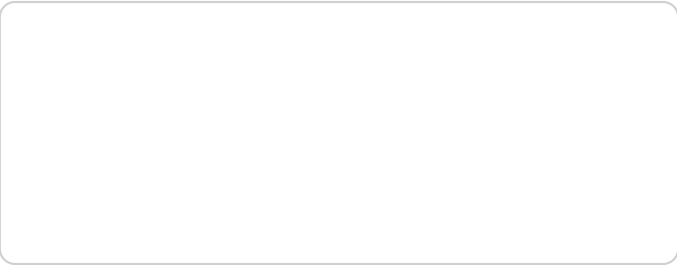
IZT43 & IZN10E Series
Use it when space is an issue or when you need a more focused static removal

Ionizers & Antistatic products



Expertise – Passion – Automation

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