

Excellent Gas Solution

Company Profile



SEHWA



SEHWA
HIGHTECH
DREAM & PLUS

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ABOUT US

Sehwa High-Tech was established in 1995 and motto of our company is Excellent Gas Solution . Encompassing state-of-the-art technology, customer-first policy and solid process know-how, we pride ourselves on solid foundation in the installation engineering of high purity supply system. Our company develop, manufacture, install and qualify customer-specific gas systems for customers from various industries including Semiconductor, BIO, Welding, Heavy-Industry, Chemical and LED industries.

2013.



FLOW & +
MFC
FlowMeter
SERO-2000
Static Mixer



**REGULATOR
FILTER
MANO METER**
Crown
YAMATO
HANSHIN



ENERGY & +
Solar Micro-Inverter
FuelCell Tester
GAS MIXER
Mg Shilding Gas Mixer



SAFETY & +
Flashback Arrester
Relief Valve
MAP
Auto Exchanger

VALUE

1. Our Mission

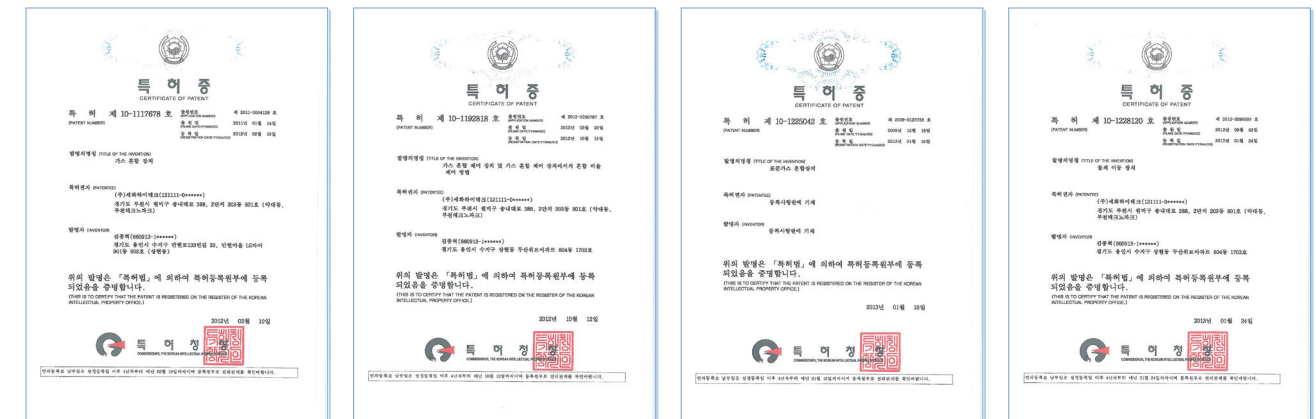
We are strongly committed to ensure the finest quality, the best services and the utmost safety for our customers and partners. Our resolute business approach focuses on sustainable growth and continued successes for the company; whilst our persistent pursuit of excellence ensure continuous improvement. We firmly believe that our products' robust reliability and winning accountability among our customers, partners and employees will drive us towards achieving our goals.

Core Technology

Intellectual property

① registration	10-1117678 gas mixtuer 10-1192818 gas mixture control unit and the mixing ratio control method 10-1225042 standard gas mixing device 10-1228120 gas delivery system
② patent application	gas mixtuer for Mg shilding gas trade mark) Gasplus , Mixtime

※ As of Feb 19th, 2013



Intellectual Property Star Company

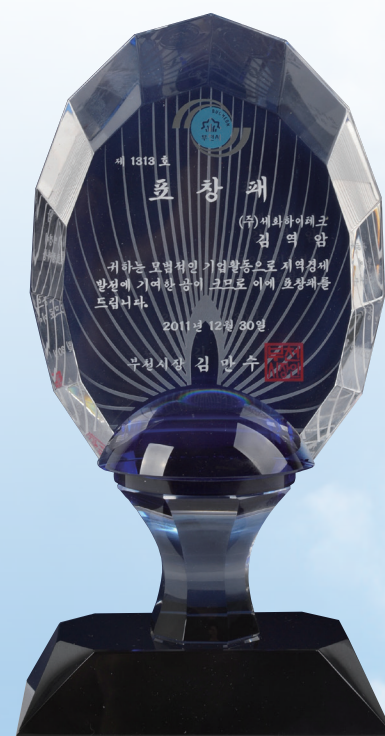
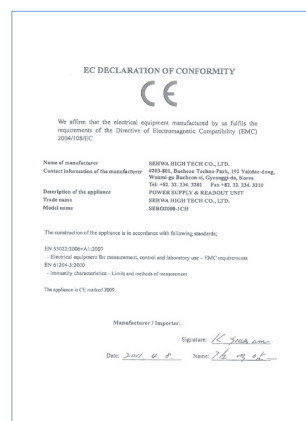


Certified by *The Ministry of Knowledge Economy*

Quality Management : ISO9001/14001 CE

Quality ;

- We strive for the highest quality at every level ; our products, processes, systems and services.
- We continue to raise the bar and requirement through innovation and perseverance.



CERTIFICATES



We Deliver to Excellent Gas Solution

We offers complete systems such as pressure regulating stations, gas mixers, gas analysers and energy supply systems to achieve high flows with low pressure drops in designs which meet with the highest quality standards.

Custom Systems : We have thousands of systems in the field and have developed an extensive library of applications and solutions to meet our customers' needs. Optional features, including remote operation, alarms or a gas humidifier are available.

Product Category	Company	Product	Realted industries
	Gas Regulator & Gas Mixer		
	Flow Meter & MFC		
	Differential Pressure Gage		<ul style="list-style-type: none"> • Semiconductor, chemical • R&D, Laboratory - Bio, Welding, Laser

Category	Product : Flashback Arrestor, Valve	Automatic Gas Exchanger
Safety & Control		

※ Product Line

PRESSURE CONTROL SYSTEMS

HIGH-PURITY GASES REQUIRE HIGH-QUALITY REGULATORS

Proper handling of expensive high-purity gases requires the highest quality of valves and pipelines, not at least of the design, planning, installation and commissioning of the entire gas distribution system.

The fulfillment of user-specific demands such as pressure stability, flow-capacity and maintaining of the gas composition needs to be guaranteed in the same way as the prevention of contamination from the gas source down to the "point-of-use".

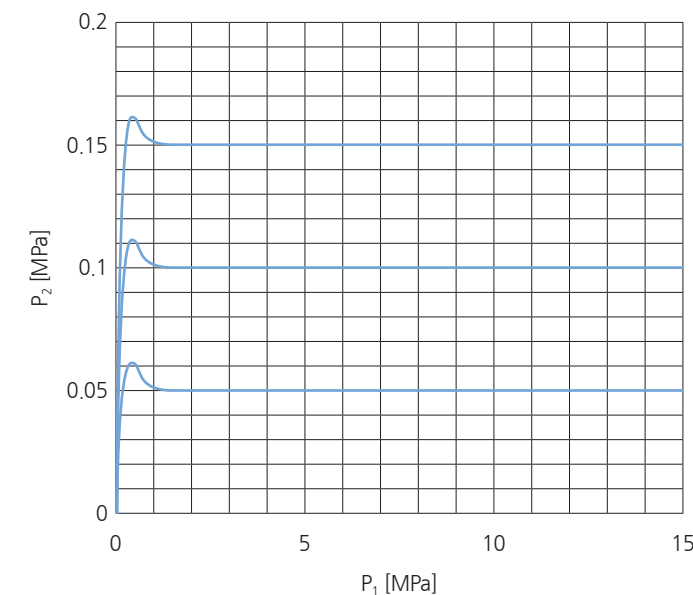
SPEC SHEET

Handling of compressed gases presupposes intensive knowledge of regulations and technical rules which form the basis for a safe layout of any gas-supply system.

The quality of GCEDruVa High-Purity Gas distribution system is determined by a large number of features:

- leak-tightness,
- dead-space-minimized design,
- high Safety due to Hastelloy diaphragms,
- patented damping aystem,
- purgeability,
- intuitive out concept for joining and safety aspects.

These points require the same attention as the final asseby and preventive maintenance.



FLOW CONTROL SYSTEM

We offer our customers comprehensive solutions in the field of pure and ultra-pure media for gas and chemical supply system. We develop and install the connections required between media containers and processing plants. As a supplier of integrated systems, we keep every step in the product development under our control - allowing maximum flexibility and transparency in planning, manufacturing and commissioning.

Standard Mass Flow Controller

Mass Flow Controller has been developed centering the focus on compactness and low cost and is being acclaimed by a wide range of users for diverse applications, including from laboratory research and development activities to the use as a standard mass flow control model for various types of analyzers and vacuum devices in the production line. Varieties of derived models and options are available.

Feature

- 1. Equipped with an advanced flow sensor of constant-current temperature difference detection type to ensure high-speed response.
- 2. Use of normally closed valve to ensure safety
- 3. High reliability ensure using a solenoid actuator
- 4. Low differential pressure type control available for combustible gases(LP option)

Specification

Flow range(at N2 calibration conditions)	4 digit - 7 Segment, adjustable decimal location
Valve type*	Normally closed solenoid poppet valve
Control range	2%~100% F.S. (5%~100% F.S.)
Response	2 sec. or less to within 2% of full scale of final value typical for 0~100% response
Accuracy	Within ± 1.0% F.S. (Within ± 2.0% F.S.)
Repeatability*	Within ± 0.5% F.S.
Operating differential pressure	F.S ≤ 5SLM 49kPa~294kPa * Low differential pressure specification depends on types of gas and flow rate to be used. 5 < F.S. ≤ 20SLM 98kPa~294kPa(147kPa~294kPa)
Proof pressure*	980kPa
Leak rate*	1 × 10 ⁻⁸ Pa.m ³ /s or less
Working temperature range	5 to 45 (Accuracy guaranteed within 15 to 35)
Materials of parts in contact w/gases	Body : SUS 316 Valve seat : Viton™ (Optional : Neoprene™ or NBR) Seals : Viton™ (Optional : Neoprene™ or NBR)
Joint*	Standard : 1/4SWL (3/8SWL) Optional : 1/8SWL, 1/4VCR™, 1/4RC, etc.
Electrical connections*	Dsub 9-pin male connector per KFC/SEMI standards
Flow rate input signals	0~5 VDC
Flow rate output signals	0~5 VDC
Required power supply*	+15VDC(5%) 100mA~15VDC(5%) 200mA

Items marked with an asterisk (*) indicate common specifications.

Flow Control Products : include OEM

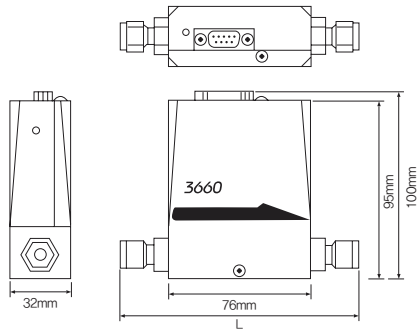
Harness Layout

Pin Assignment of Dsub 9-pin Connector per KFC Standard

Pin NO.	Signal	Pin No.	Signal
1	Input valve operation	6	Flow input Hi
2	Flow output 0-5 V	7	Flow output COM
3	+15 VDC Power source	8	Flow input Lo
4	Power source COM	9	Output valve voltage
5	-15 VDC Power source		

* Because a differential input system is used for product, pin 4 (Power source COM) and pin 7(Flow output COM) are connected inside the mses flow controller while pin 8 (Flow input Lo) is isolated. In case of a single-ended connection, connect pin 8 to pin 4.
* Valuse indicated in () denote the specifications for Model 3885.

Dimensions



* Valuse indicated in () denote the specifications for Model 3885.

SERO 2000 : ReadOut system for Mass Flow Controler

Multi functional readout unit with integrated power supply model : SERO-2000 is designed offers wide range of single and multi-channel systems, using both digital and analog operation via front panel control or external devices.

Feature	Image
1. Microprocessor based electronics unit. 2. RS-232, or Analogue, TTL Interface function. 3. Flow Integration. 4. Purge function 5. Alarm output 6. Max 8-Channel 7. CE Registered	

Specification

Display Accuracy Input Signal Input Power Output Power Functions Unit of Display Decimal Point Accumulation Control Communication Dimension(W*H*D)mm	4 digit - 7 Segment, adjustable decimal location ±0.1% of Full Scale 0 to 5 Volts 0 to 5 Volts 220 VAC(60Hz) ±15VDC, 500mA/CH Flow Integration, Purge SCCM, SLM, % User selectable range "0.000, 00.00, 000.0, 0000" RS-232C 1-Ch : 160*130*230, 4-Ch : 337 *130*230
Remote Control	- Set-point control : 0 to 5 volts for full scale of Analog signal - Flow on/off control : Digital Input - TTL - Flow on/off reserved : Digital output - TTL (Open Collector) - Flow out signal : 0 to 5 volts for full scale of MFC - Trip Point : 1 relay per flow channel(Standard)

※ As of Feb 19th, 2013

MIXING SYSTEMS

In the production facilities of Sehwa, our engineers develop complete solutions for the mixture of acids, bases and polising agents(slurries). Concepts,planning and production are fully based on 3D models. Cap abilities include in-house production of electrical cabinets and optimization and reassembly of existing pla nts.



Typical Applications

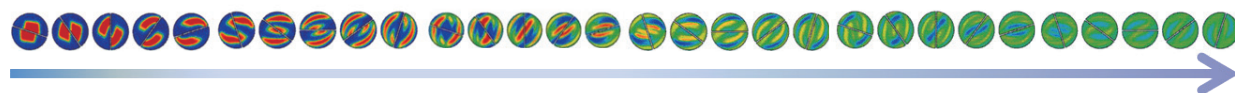
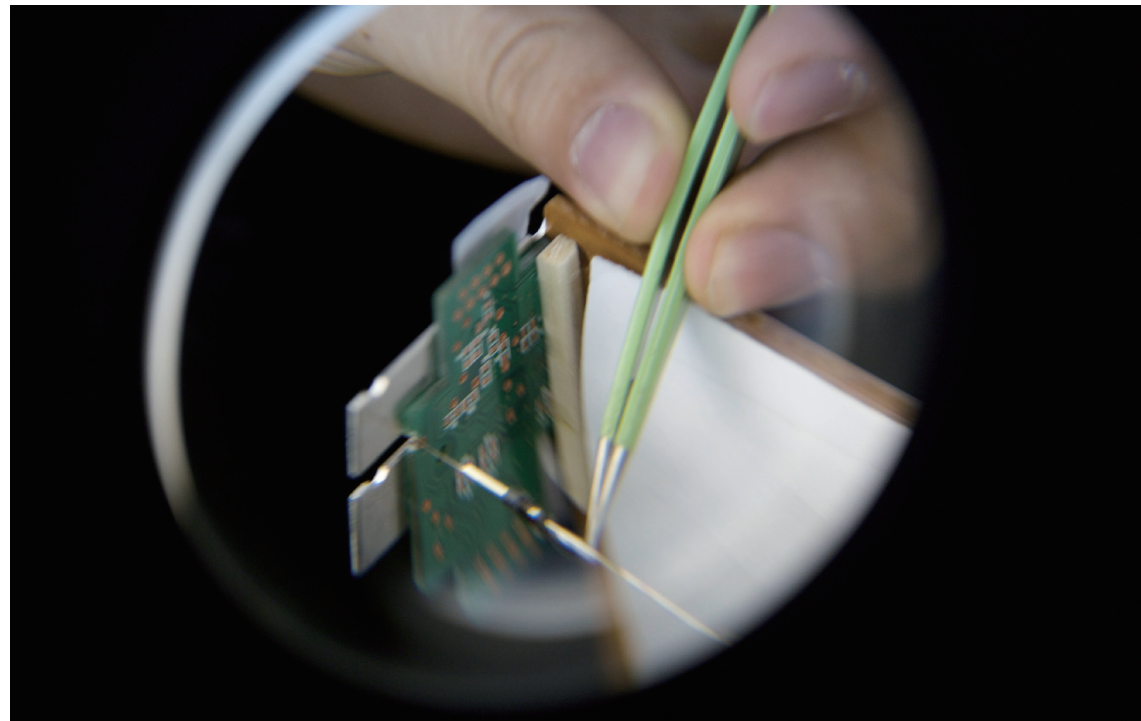
Application	Typical gases
Metal casting centres for magnesuium, aluminum and steel	SF6/CO2/Air
Plasma, coating and laser gas mixture	H2/Ar/N2
Heat treatment, annealing and sintering operations	H2/CO, H2/N2, CO2/Ar, N2/Hydrocarbons
Metal powder production	O2/H2/C2H8/CH4/N2
Soldering, welding, shielding and cutting gases	H2/Ar, CO2/Ar, O2/Ar, Acetylene
Inert-atmosphere and protective atmosphere pa	N2/CO2/O2
Chemical blanking atmosphere	N2/O2, N2/Air
Process control	As requested
Semiconductor wire-bonding	H2/N2

※ Additional product lines are available for higher flows

High Quality

High Quality : Small to Medium Flow Gas Mixer for Biological Atmosphere Incubation, for Food Packing, for Thermal Processing, for Medical Application, for Semiconductor Application

Gasplus® PLC & Smart Software Program-Based Gas Mixing and Delivery System automatically blend gases to create gaseous atmospheres for analytical research and diagnostic purposes. Other common applications include tissue culture, pharmaceutical preparation, fermentation and bacterial growth in the laboratory. Each component concentration may be independently varied in response to user commands.



The Series **Gasplus®** provides unmatched performance and capability, including:

Accuracy : Our gas mixing technology is based on very precise control of thermal mass flow controllers.

- Accuracy of +/- 1% and repeatability of +/- .05% of full scale.
- Flow rates from low SCCM to several hundred SLPM
- Easy to use Color Touch Screen and PLC
- Standard Ethernet connection and a free software utility allow you to remotely monitor and operate the instrument over an Ethernet connection
- A variety of options to allow a truly custom approach to yours needs. Options include alarms, a gas humidifier and oxygen compatible construction.

Core Tech

Static Mixer

The Static mixer consists of a housing pipe and non-moving mix elements.

Fluids are mixed while passing through the mixer.

Structure

- Each element is a plate twisted 180° to the right or to the left.
- right and left elements are fixed alternately, adjacent elements being at 90° angles to each other
- The length of each element 1.5 times its diameter.

The number of elements is determined by the purpose of mixing.

Mixing Principles

- In the static mixer, optimum mixing results are accomplished through the following functions.

■ Division of Flow

Fluids are bisected as they pass each element.

$$N = 2^n$$

n = The number of sections
 n = The number of elements

■ Radial Mixing

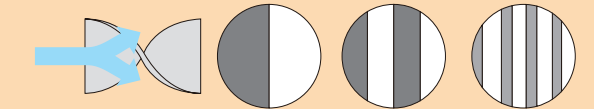
As fluids follow the curves of the elements, they are rotated radially toward the pipe wall, or rotated back to the center.

■ Flow Reversal

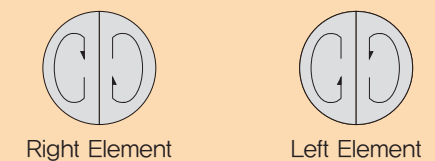
As fluids pass each element, the direction of the flow is alternately changed to the right or to the left.



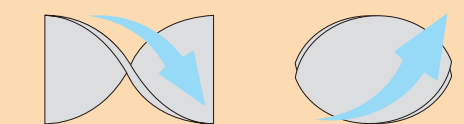
● Division of Flow



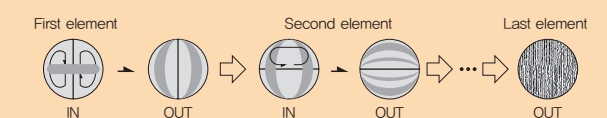
● Radial mixing



● Flow Reversal



● Mixing High-Viscous Fluid Case



- When mixing high-viscous fluids as molten polymers, flow division and radial mixing are very important. Through these two functions, optimum mixing can be achieved by the static mixer.

SHGM 1000 Series

Our Technology

Based on well-established technology, our volumetric mixers are reliable and built to offer a long-life service. This cost effective series is ideal for harsh environments and difficult to handle and corrosive fluids. The SHGM 1000 direct readout construction is already standardized to your process conditions to simplify mix calculations.

Set at your process conditions without having to worry about correction factors. This mixer provides superior precision compared to any fixed orifice gas mixers.

Benefits

SHGM 1000 series for increased productivity:

- Provides excellent quality-price ratio.
- Reduces costly gas consumption
- Provides greater flow adjustment compare to fixed orifice based mixers.
- Offers independent flow adjustment on all gas lines.
- Eliminates human error by providing direct flow compensation correction.
- Eliminates the need of additional controllers or flowmeters for process gas.

SHGM 2000 Series: Small to midium flow gas mixers

Our Technology

Equipped with our smart program 'SERO 2000D' the SHGM 2000 series offers all the advantages of the leading-edge technology without compromising reliability.

Based on Mass flow controller, the SHGM 2000 series is insensitive to gas density,

pressure and temperature variations. This fit-and-forget technology provides high accuracy, repeatability and immunity against process interferences. Moreover, this mixer provides a precision 10 times superior and greater turndown than all fixed orifice gas mixers.

Advanced Control

This SHGM 2000 series is controlled by a high-speed processor coupled with an ethernet interface. this flexible and upgradable platform allows advanced process control and data sharing with most major brands of PLC or Labview

Benefits

SHGM 2000 series for increased productivity:

- Avoids premixture cylinder replacement
- Increases produce quality and consistency by eliminating process variability and providing high accuracy gas mixture
- Reduces handling and physical verifications
- Eliminates the need for additional controllers or flowmeters for process gas

Features

Our SHGM 2000 series offers the following:

- Simple, rugged and reliable design
- Long term repeatability
- Fully customizable programming for up to 5 gases
- Directly compensated flow readout
- Provides five-to-one rangeability
- Alarms to ensure that correct mixtures are being created

Features

- A surge tank can be added to improve immunity against process interferences and to allow flow rate changes from full flow to zero flow while maintaining a correct mixture
- Remote alarm module option available for better mixing process management
- All wetted parts can be cleaned for food or oxygen service

SHGM 3000 Series

Our Technology

Built on a dual loop regulation process, the SHMG 3000 series provides very accurate gas blend on a remarkable wide flow range. This patented process is specially designed for a broad variety of application such as plant wide network or multiple user application that require improved stability. This series is based on mass flow measurement technology not affected by gas density, pressure or temperature variation. In constancy at a point of operation on any flow requirements. This fit-and-forget technology provides high accuracy, repeatability and immunity than all other types of fixed mixer.

Advanced Control

This SHGM 3000 series is controlled by a high-speed processor coupled with an Ethernet interface. This flexible and upgradable platform allows advanced process control and data sharing with most major brands of PLC or Labview.

Benefits

SHGM 3000 series for increased productivity:

- Reduces production costs by optimizing gas usage
- Avoids premixure cylinder replacement
- Increases product quality and consistency by eliminating process variability and providing high accuracy gas mixture
- Reduces handling and physical verifications
- Eliminates the need for additional controllers or flowmeters for process gas

Additionally, our gas mixers provides cost savings, by allowing you to replace many, high cost pre-mixed gas cylinders with fewer, low cost single gas cylinders or bulk storage tanks. Sehwa HighTech customers have seen these savings, with one customer's cost savings analysis projecting the system paid for itself in the first year of use.

As with all our systems, we pride ourselves on customizing your system for your particular needs.

Features

Semiconductor gas blends

Gas blending system used, indirectly, in the production of high quality semiconductor grade gases. Mixing system used to calibrate gas analyzers which quantify the impurities in semiconductor grade gases.

Welding Applications (Gas Mixing)

In shipyards, vehicle manufacturing, steel works, aerospace and the chemical industry for welding and cutting of metals the mixing of air or oxygen with fuel gases in compact mixing and metering systems is of major importance.

Ensuring the supply of different gases, air, water and electricity at the right time, in the right place in the necessary amount can be a major problem.

We offers complete systems such as pressure regulating stations, gas mixers, gas analysers and energy supply systems to achieve high flows with low pressure drops in designs which meet with the highest quality standards.



At Sehwa HighTech, we know it is essential that your shielding gas mixes be reliable and accurate in order to guarantee your desired weld quality.

Mixtime for Welding

Our Series *Mixtime® for Welding* Gas Mixing and Delivery system provides for precise mixing of shield gases for welding. Whether you utilize a two gas blend of CO₂/Ar, O₂/Ar, or He/Ar or a three gas blend of CO₂/O₂/Ar and CO₂/He/Ar, the high accuracy and consistency of our welding gas mixers makes them the units of choice for all of your welding.



SPEC SHEET

Ar-CO₂ (SHGM-F2-RC)

- Size : 300×260×200(WHD)
- Weight : 5Kg
- Inlet : ¼" Lok
- Outlet : ¼"Hose quick Connector
- Flow Range : Ar / CO₂ 각 Max. 20LPM adjustable
- Inlet Pressure : Max. 6 Bar adjustable
- Applied mixing block for highest mixture uniformity

Flexibility : *Mixtime®* automatically blend and dilute gases to generate precise gas mixes. The *Mixtime®* Welding Gas Delivery/Blending system offers on-site gas blending of 100% pure bulk gases and is configured to provide a solution to using costly premixed cylinders of gas.

Although two and three gas mixtures are most common, gas mixtures of more constituents can be produced. The primary benefits of the system are cost savings in using pure gases versus premixed cylinders as well as the accuracy and repeatability of the mixture.

Whether you use a variety of different two or three gas blends or a single blend, the component concentration can be independently varied in response to your commands. Customization of our systems is always possible.



Price Savings : By using pure gases in place of expensive pre-mixed blends, your system will help pay for itself. In addition, the Series Mixtime® provides a controllable positive pressure to meet the requirements of a process downstream. The mixer can be configured to provide gas to a ballast tank, turning off and on as the pressure rises and falls in the tank. This is useful for gas conservation, when the demand for gas is sporadic or intermittent in use.

Mg Shield Gas Mixing Application

To avoid a chemical reaction of the liquid magnesium-melt with oxygen (air), the area above the melt in the crucible is continuously supplied with protective gas. Basically, this protective gas consists of a carrier gas and the protective gas itself (e.g. SF6 or SO2).

Magnesium producers, casters, and recycling companies commonly use a cover gas of dilute SF6 N2 or carbon dioxide (CO2), to protect the molten from oxidation and potentially violent burning.

Without protection, molten magnesium will oxidize in the presence of air and form magnesium oxide (MgO) deposits that greatly reduce the quality and strength of the final product. In contrast, an effective cover gas, such as SF6, modifies and stabilizes the MgO surface film to form a protective layer that prevents further oxidation. However, SF6 is being phased out from the magnesium industry due to its high GWP(global warming potential)

UNFCC(United nations framework convention on climate change) approved 3 alternative solutions to replace SF6:

- HFC 134a : Refrigerant gas mixed with nitrogen
- Novec 612TM : Mixture Novec 612 with dry air and CO2 (Developed by 3M)
- Diluted SO2 : Mixture of SO2 gas with dry air



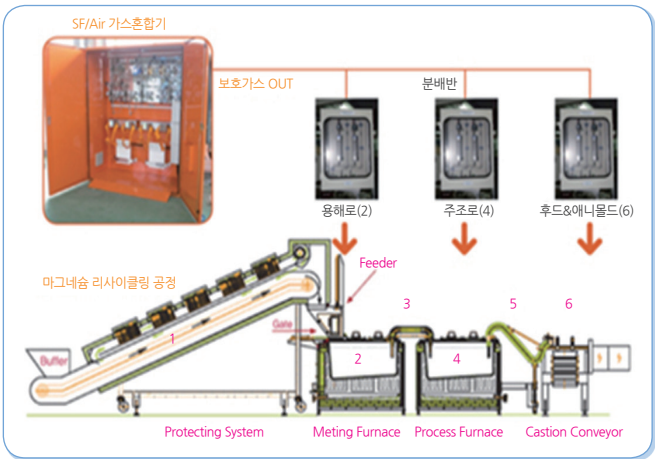
Molten Magnesium without Cover Gas



Molten Magnesium with Cover Gas

The preparing (mixing, and flow control of the supplied protective gas) happens in the so-called gas mixing unit, this unit is available as single unit (for one Mg-furnace), or as central gas mixing unit (for several furnaces).

Central gas mixing unit for recycling plants, alloying plants, sheet metal casting plants:



All systems of the type are available customized in size (available gas flow rate for all furnaces) and numbers of output lines.

Advantages :

- Amount and concentration is variable, depending on the operating condition of the furnace (values change automatically during the casting process, depending on the settings).
- Parameters (desired values) can be changed at any time at the central control panel of the furnace.
- Very high accuracy of continuous controlling of gas flow and concentration of the protective gas.
- Automatically switch over function between gas bottles, including a warning message on the operator panel.
- Continuous monitoring of all gas pressures and gas flows.
- Central display of malfunctions and messages at the furnaces operator panel.
- Save melting process and continuously stable casting process.
- In case of malfunction: possibility of immediate switch over to emergency mode (necessary to cool down in safe conditions) - also in case of power failure!
- Temperature controlled heating system inside the cabinet (only for SO2), to avoid malfunctions due to low ambient temperature.
- The SO2 gas mixing unit is equipped with an SO2 sensor, in case of a leakage inside the cabinet, an exhaust fan starts up automatically and a warning message will be displayed on the panel.
- In our equipment we use PLCs, and we do continuous monitoring of all relevant parameters. This maintains a high working reliability of our system.

SPEC SHEET

Specification

Description	SHGM-DC	SHGM-SC
Gas type	N2/SF6	N2/SF6(other gas on request)
Max. flow rate	30 SLPM	Output#1 180 SLPM(For Distribution units 1+2) Output#2 120 SLPM(For Distribution units 3)
Control PLC	LS XGB	LS XGT
Sensing range of pressure transmitter.	0~10 bar	0~10 bar
Gas inlet pressure for pressure regulator.	Max. 6 bar	Max. 6 bar
Gas outlet pressure of pressure regulator.	3~4 bar	3~4 bar
Flow rate of SF6 MFC	Max. 60 SCCM	Out#1 900 SCCM/ Output#2 180 SCCM
Flow rate of N2 MFC	Max. 30 SLPM	Out#1 180 SLPM/ Output#2 120 SLPM
Flow rate of SF6 Ball Flow Meter For emergency	Max. 120 SCCM	Out#1 900 SCCM/ Output#2 180 SCCM
Flow rate of N2 Ball Flow Meter For emergency	Max. 30 SLPM	Out#1 180 SLPM/ Output#2 120 SLPM
Flow rate of N2 Ball Flow Meter(8)	Max.100 SLPM	
Gas inlet connection:	1/2* NPT-Female	1/2* NPT-Female
Gas outlet connection:	1/4* NPT-Lok	2 x 12mm OD swagelok .1 x 1/4* swagelok
Power supply:	220V60Hz, 2Phase	220V60Hz, 2Phase
Ambient temperture:	-10℃ to + 40℃	-10℃ to + 40℃
Setting Up(Usage):	Indoor	Indoor
Dimensions in mm: (WXHXD) Wieght:	mixer	600x1800x400
	distribution panel	400x250x180
	mixer	50kg
	distribution panel	10kg

Note : Above specification can change on request

SPEC SHEET

SHGM series gas mixer is controlled by mass flow measurement technology which is not affected by gas density, pressure or temperature variations.
PLC & Smart software program-based Gas Mixing and delivery system automatically blend required cover gas.

MIX time



For Strip Casting & Recycling



for crucible #1



for crucible#2 and pouring pump
for hood and manifold



Control Panel



Distribution panel



For Die-casting

Services



We have know-how for 20 years, and supporting to a lot of customer as gas solutions. All of Sehwa High-tech employee will do best for unceasing development for customer satisfaction.



Production

Flexible and time-saving production and adjustment of all components-also under clean room conditions. Continual inspection of material and correct processing by an certified quality management system.

Our production capacities include :

- Qualified staff - specialists in working
- Use of high quality, high purity gases
- Measurement instruments for pressure, leak tightness and particle quantity measurement

Engineering/Design

Consultation and Project Management

As a company where technical expertise is the core value, we are more than happy to provide technical consultations as well as process-oriented project management to our customers from various industries. Tailored to each and every application, we place enormous effort to deliver optimized solutions. Our experienced project managers will facilitate projects through their extensive methodical knowledgs, highly-effective project planning and management methods coupled with strong dedication to ensure successful projects. All the project requirements including the safety, quality, costs and time scheduling will be taken care of. Besides, our project managers consistently upgrade their skill sets through training in technical seminars, where they learn the most up-to-date and efficient methods of project management.

Gas Monitoring - System V1.0



Go Gas Monitoring

Go Alarm Monitoring

Planning

Riding on our wide experiences in production and installation, our technicians and engineers will implement all production and installation-related requirements during the planning process. During the flow, our experiences engineers will share innovative ideas to assist customers in developing cost-effective solutions that can be achieved through material selection, use of process technologies and consideration of the on-site structural conditions.

Custom-Made Cabinet Prototyping and Manufacturing

To increase client's production flexibility and alleviate constraints and pressure on the production system, Sehwa High-Tech offers the convenience of manufacturing, installing and testing of the complete modules through the platforms of :

- Manufacturing drawings
- Electric circuit diagrams
- P&ID (flow diagrams)
- List of parts and units
- Pressure drop calculations
- Piping systems



Lab Gas Supply System : design and plumbing for gas solution
Automatic Gas Exchanger

Special Gas System : Sehwa High-Tech develops and installs complete gas supply systems for all types of gases. Besides systems for media in gaseous or liquid aggregate states, our product range also extends to special base systems with high pressures and withdrawal capability. Apart from that, Sehwa High-Tech also constructs MFC-boxes based on our customer special requirements.

Services

Specifications and functions of special supply systems :

- Liquid or vapour supply with bubblers
- Fully automated system
- Various flow rates according tool's specifications
- Touch panel for easy operation
- Controlled by Siemens S7 PLC
- Visual light tower provides prompt status alerts
- Password-secured operation levels



Strengthened by our team's extensive experience, Sehwa High-Tech offers technical consultations on optimized installation sequences and flows.



SEHWA

HIGHTECH



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