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■ Overseas

CHINA TAIWAN KOREA

<http://www.osey.co.jp/>

Urethane, Epoxy, Silicone “Two-liquid” Dispenser

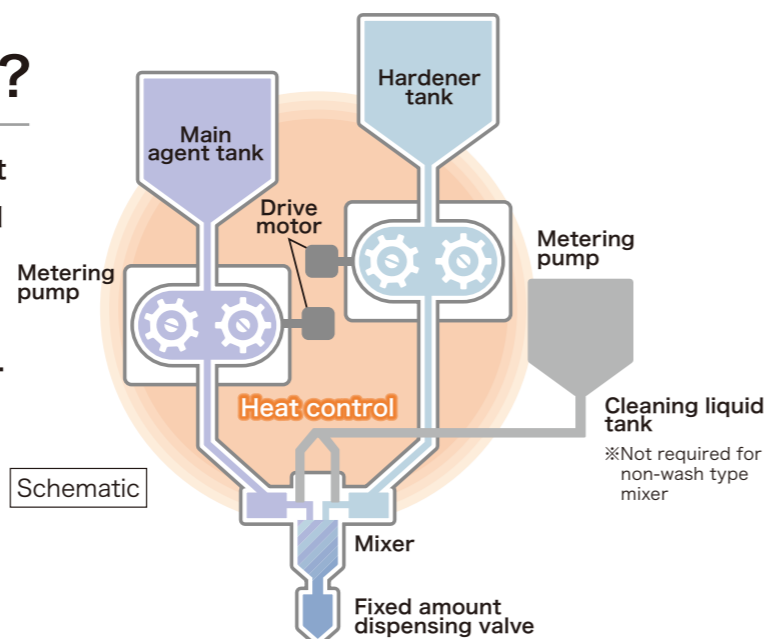
SUPER SHOT SERIES

We respond to a full range of needs for automatic liquid control, from very small to very large amounts centering on customized products.

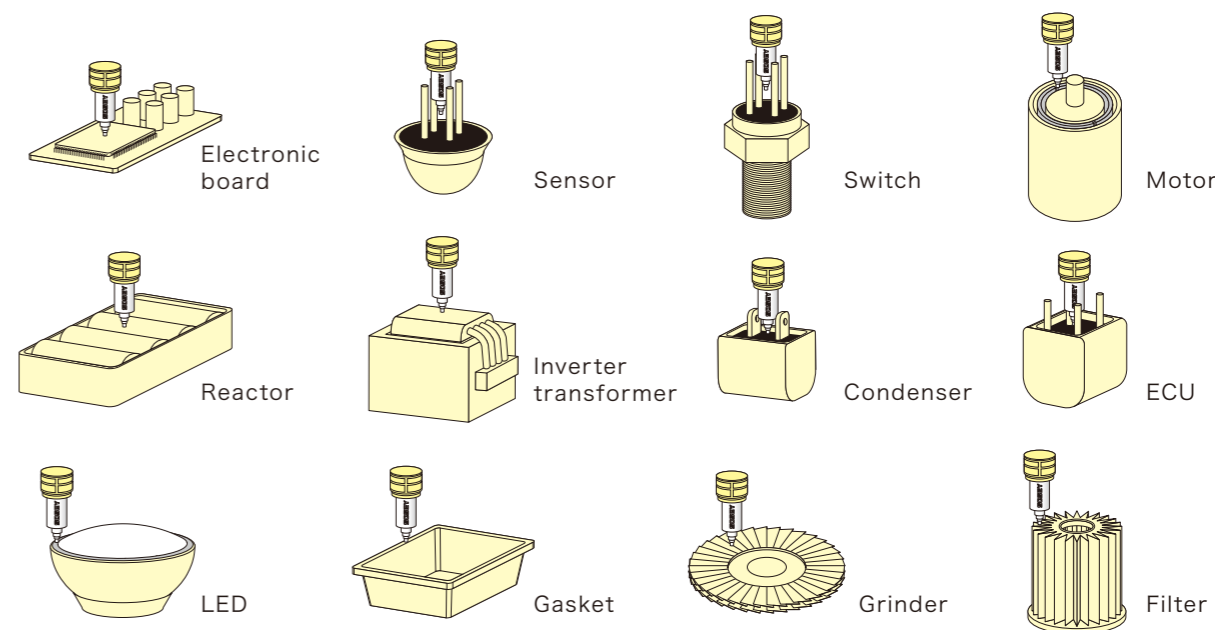
Super Shot Series

What is Super Shot?








This is a high-precision device that automatically measures, mixes and dispenses multi-liquid materials. We have wide-ranging standards that enable product customization. See the selection chart below for details.



SUPER SHOT Series is used in diverse settings.



SUPER SHOT Series Selection Chart

Amount dispensed	Minute amount (~1.0ml/sec)		Medium amount (1.0~20.0ml/sec)			Large amount (20ml/sec~)	
Material used	Epoxy / Silicone / Urethane / Acrylic / A dhesive / Gap filler / OCR / Foaming agent (silicone, urethane)						
Injection environment	Atmosphere			Vacuum		Atmosphere	
Compatible models	TPSSeries 	MRP Mixer 	SNPSeries 	STPSeries 	TWSeries 	SVSeries 	LMSeries 
Catalog page	P3·4	P5~8	P13·14	P15·16	P17·18	P19·20	P21·22

Super small-amount dispenser with two ultra-precision pump units. Automatic Dual-liquid Measuring Metered Dispenser

TWIN SOLID PUMP SYSTEM

TSP Series

Ultra-precision Measuring Compact

Featuring SOSEY-SOLID® pump system
capable of dispensing super small amounts of
0.015 / 0.050 / 0.150 / 0.450 / 0.900ml.

Perfect for low-gravity to high-gravity,
low-viscosity to high-viscosity materials (*),
urethane, epoxy, silicon and other liquid materials.

(※)Depending on the type of material or filler,
it may be unusable or part wear may be faster.



Comes with
simple operation controller
It can be used immediately.



It is extremely light and
easy to incorporate onto a
tabletop robot.
※Robot sold separately.

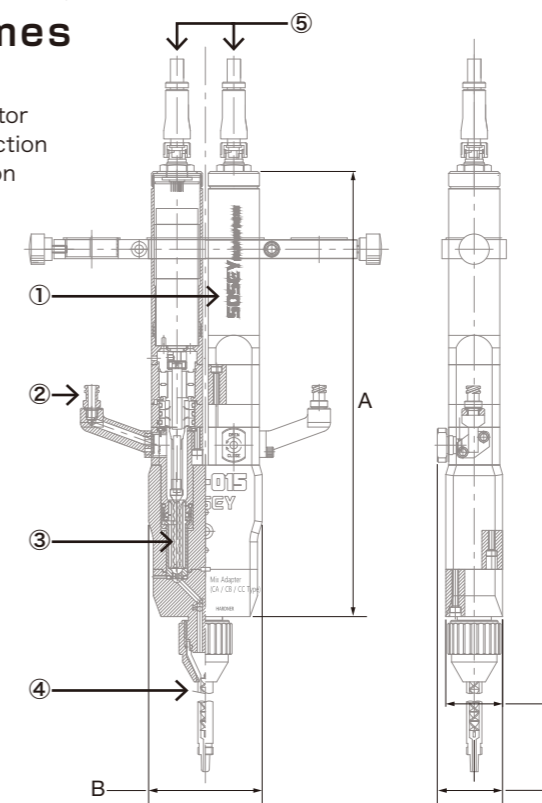
Use

Adhesive chip on smartphone,
potting inside electronic components, gap filler coating, etc.

Dimensions / Part Names

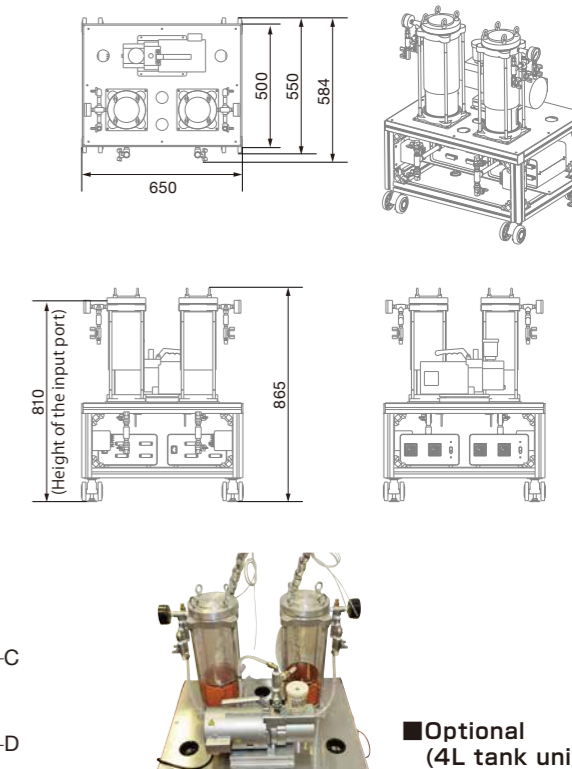
(Unit: mm)

- ① Pump drive motor
- ② Material connection
- ③ Metering section
- ④ Static mixer
- ⑤ Motor cable



Various sizes
available

SUPER SHOT SERIES [TSP Series]



Optional
(4L tank unit)

Main Unit Specifications

※Numerical value is the design theoretical value and does not warrant the performance of this device.
※Possible to select according to mixture

Name	TSP-015	TSP-050	TSP-150	TSP-500	TSP-1000
Pump size (one side)	0.015ml/rev	0.050ml/rev	0.150ml/rev	0.450ml/rev	0.900ml/rev
Pump drive motor speed	~120rpm ※Differs by material				
Maximum amount dispensed (one side, theoretical value)	0.03ml/s	0.10ml/s	0.30ml/s	0.90ml/s	1.80ml/s
Minimum amount dispensed (one side, theoretical value)	0.0005ml/s	0.0017ml/s	0.0050ml/s	0.0150ml/s	0.0300ml/s
Dispensing precision	±1% ※Differs by material				
Material dispensing method	PT1/4 or Luer lock				
Material supply pressure	~0.6MPa				
Material viscosity	~200,000mPa·s				
Usable temperature	~50°C				
Pump drive motor	Servo motor				
Unit weight	1.12kg		1.66kg		1.85kg
Mixer	Possible to select diameter / number of elements				
A(mm)	235		283		319.5
B(mm)	60		65		65
C(mm)	30		32		32
D(mm)	34.5		36.5		36.5

Controller Specifications

Power supply	Single phase 100VAC 50/60 Hz
Power consumption	200W
Dispensed pattern memories	15 patterns ※Selectable by external I/O
Operation mode	Timer dispensing / manual (continuous) dispensing / automatic cycle / ratio check
Air supply for syringe pressurization	Φ6 air supply Capable of adjusting air pressurization in the range of 0-0.6 MPa with built-in regulator

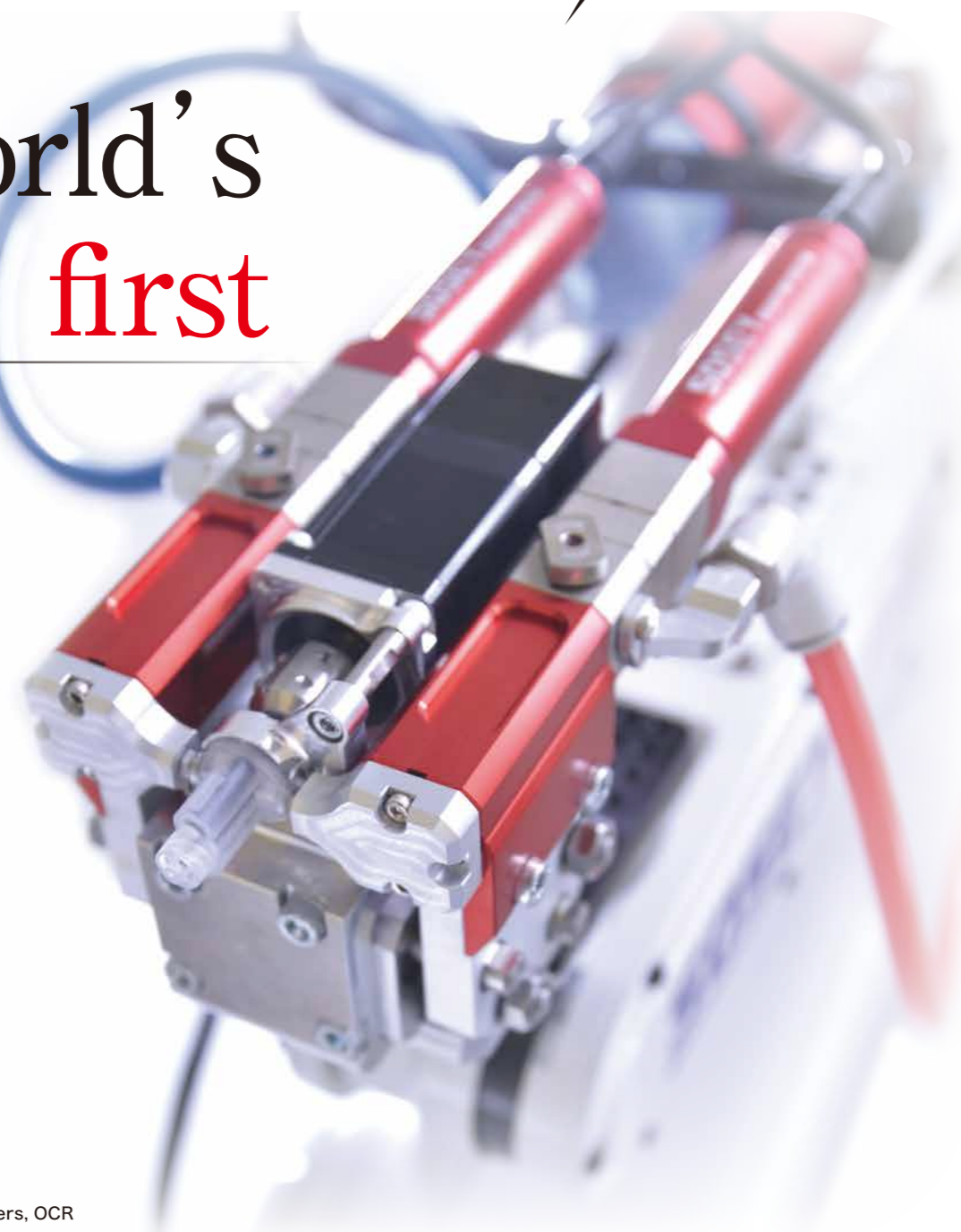
※Specifications and outside appearance may
change without advanced notice.
※The device is not explosion- or water-proof.
※Special specifications other than those noted
above are available (optional). Please inquire
with our sales representative if you wish to
add optional specifications.

Corresponds to difficult to mix materials

Next-generation Dynamic Disposer-Mixer

MRP Mixer

World's
first

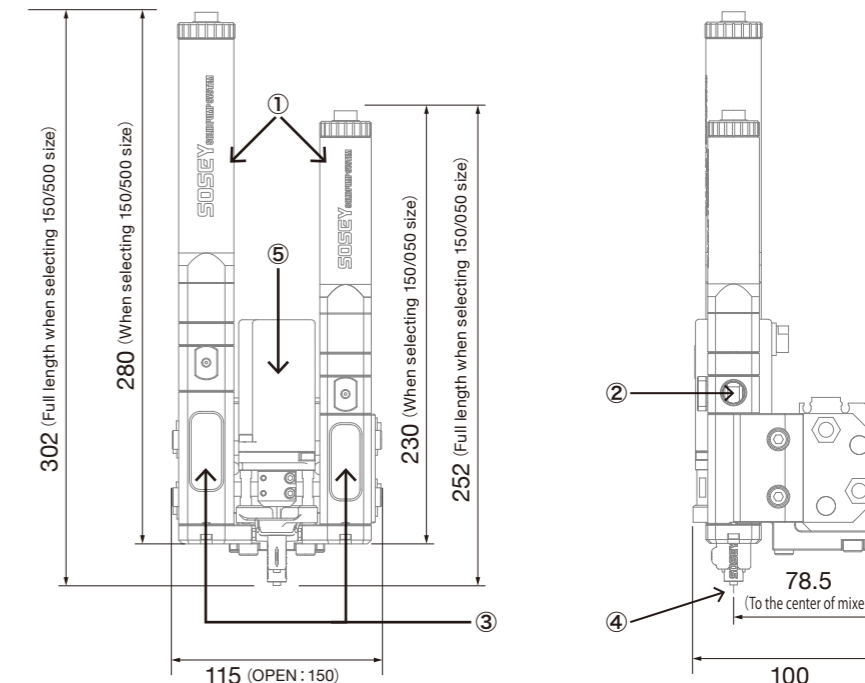


Use
Adhesives, gap fillers, OCR

SUPER SHOT SERIES [MRP Mixer]

Dimensions / Part Names (Unit: mm)

- ① Pump drive motor
- ② Material connection
- ③ Metering section
- ④ MRP mixer
- ⑤ Mixer drive motor



Main Unit Specifications ※Possible to select according to mixture

Name	015	050	150	500
Pump size (one side)	0.015ml/rev	0.050ml/rev	0.150ml/rev	0.450ml/rev
Pump drive motor speed	~120rpm <small>※Differs by material</small>			
Maximum amount dispensed (one side, theoretical value)	0.03ml/s	0.10ml/s	0.30ml/s	0.90ml/s
Minimum amount dispensed (one side, theoretical value)	0.0005ml/s	0.0017ml/s	0.0050ml/s	0.0150ml/s
Dispensing precision	±1% <small>※Differs by material</small>			
Material dispensing method	PT1/4 or Luer lock			
Material supply pressure	~0.6MPa			
Material viscosity	~200,000mPa·s			
Usable temperature	~50°C			
Pump drive motor	Servo motor			
Mixer drive motor	Servo motor			
Mixing ratio	100:3~100:100 <small>※Differs by material</small>			
Mixer	MRP mixer internal volume: 1ml			
Unit weight	3.5kg			

Controller Specifications

Power supply	Single phase 100VAC 50/60 Hz
Power consumption	500W
Dispensed pattern memories	15 patterns*Selectable by external I/O
Operation mode	Timer dispensing / manual (continuous) dispensing / automatic cycle / ratio check
Air supply for syringe pressurization	Φ6 air supply Capable of adjusting air pressurization in the range of 0~0.6 MPa with built-in regulator

※Specifications and outside appearance may change without advanced notice.
 ※The device is not explosion- or water-proof.
 ※Special specifications other than those noted above are available (optional).
 Please inquire with our sales representative if you wish to add optional specifications.

Next-generation Dynamic Disposer-Mixer

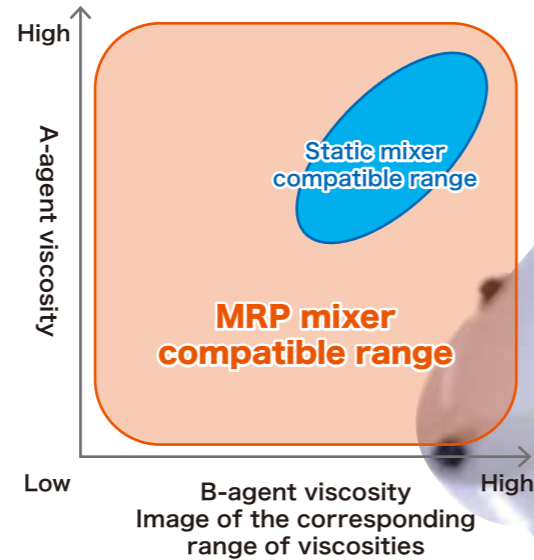
MRP Mixer

Next Generation Value I

Now possible to mix materials with widely different mixing ratios and materials with differences in viscosity

【Example of use】
Adhesive, gap filler, OCR, etc.

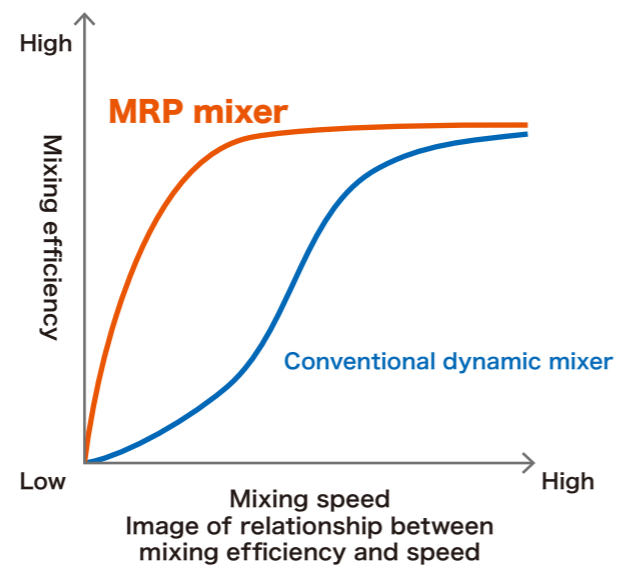
With the new dynamic mixing method, it is possible to use two liquids with wide-ranging mixing ratios and viscosities. ※See the specifications chart on the back cover for details.



Next Generation Value II

Achieved high mixing capacity with compact, low speed device

Mixing capacity has significantly improved compared to conventional dynamic mixers. Because of compactness and low speed, the device can be used also for short pot life materials.

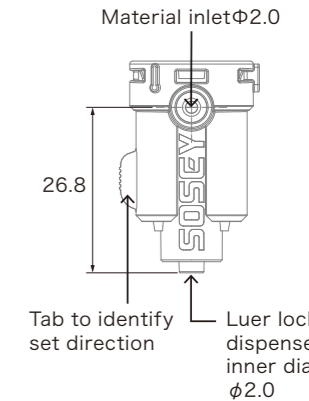
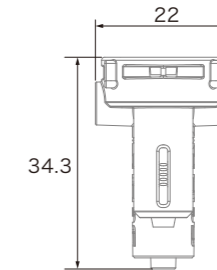


Next Generation Value III

Non-wash, disposable specifications result in improved productivity.

Disposable type makes daily cleaning unnecessary. No problems with the unwashed area seen in the cleaning type

MRP mixer body



Easy to remove



Next Generation Value IV

Combination with our original high precision solid pump solved a range of problems

Solid pump realized high precision mixing and dispensing materials of wide-ranging viscosity and specific gravities Super lightweight, compact design makes installation on diverse types of robots possible, and we offer solutions that meet your needs. ※See the specifications chart on the back cover for details.



※Specifications and outside appearance may change without advanced notice. ※The device is not explosion- or water-proof. ※Special specifications other than those noted above are available (optional). Please inquire with our sales representative if you wish to add optional specifications.

We respond to a full range of needs for automatic liquid control, from very small to very large amounts centering on customized products.

Urethane, Epoxy, Silicone "Two-liquid" Dispenser SUPER SHOT SERIES

Material tank

Tank capacities

(4, 10, 30, 60 and 90L) ※Inquire for other tank capacities

Tank material

Pressure-resistance glass

(4, 10L)

SUS

(30, 60, 90L)



4L pressure-resistance glass

10L pressure-resistance glass

SUS

Metering pump



Gear pump

Amount dispensed: 0.1~50ml/rev
Feature: Corresponds to continuous dispensing of materials with wide-ranging viscosity



Plunger pump

Amount dispensed: 0.25~15ml/rev
Feature: Able to perform intermittent dispensing of resin containing filler



Snake pump

Amount dispensed: 0.25~14ml/rev
Feature: Able to perform continuous dispensing of resin containing filler



Screw pump

Amount dispensed: 0.4~2L/min
Feature: Able to perform continuous dispensing of high-viscosity resin

Valve



Suck back valve

Needle valve

Diaphragm suck back valve

Vacuum degassing system

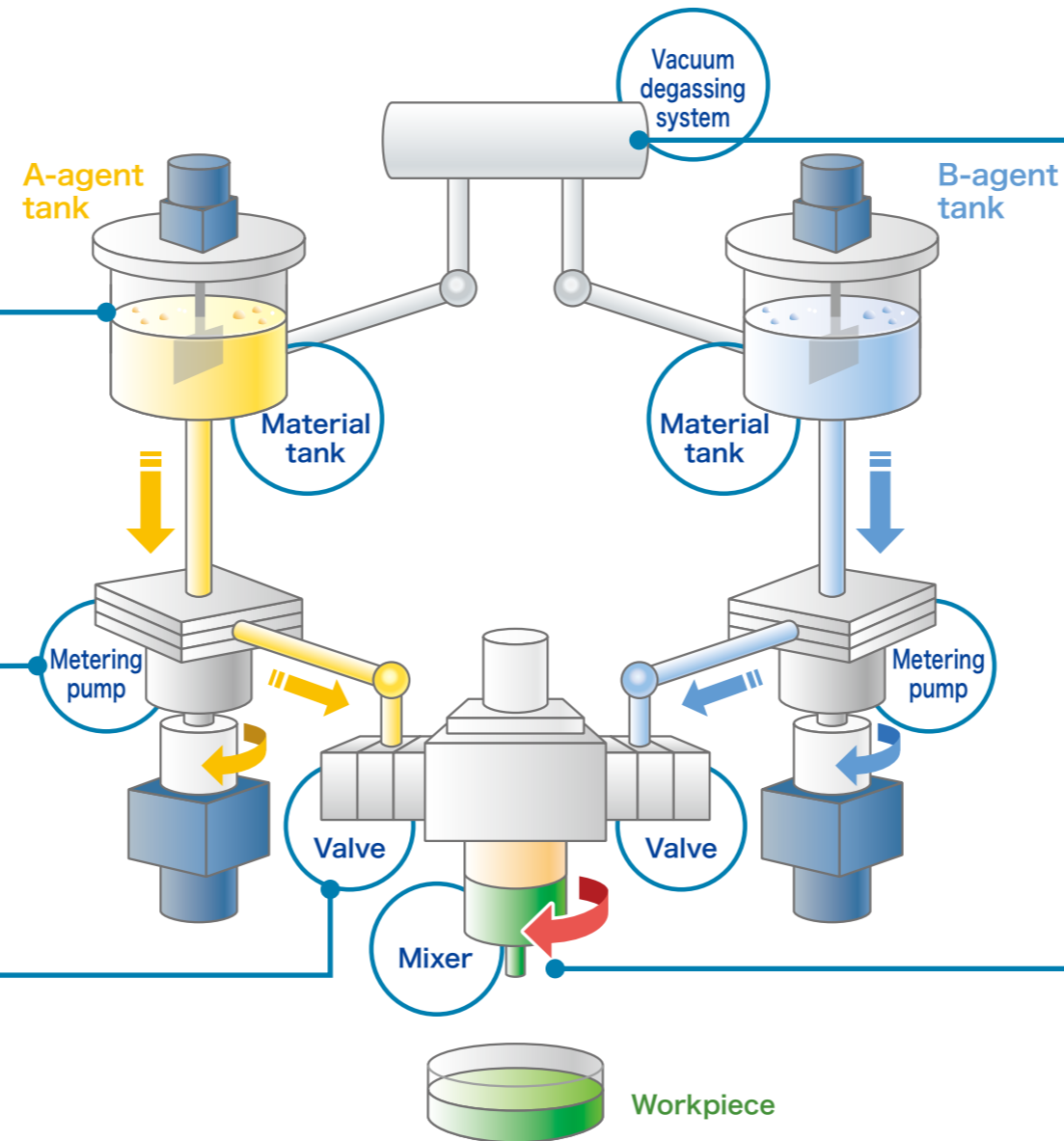


Vacuum pump

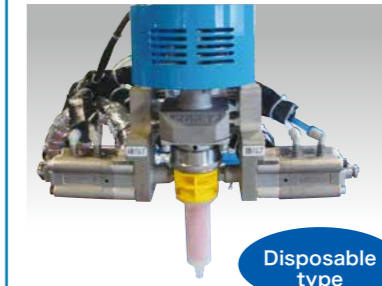
Vacuum trap

4L pressure-resistance glass

Oil trap



Mixer



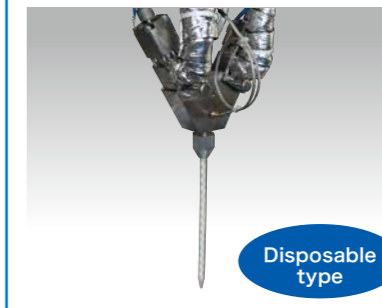
SNP Mixer

Feature: Non-wash (disposable) type, Forced mixing method



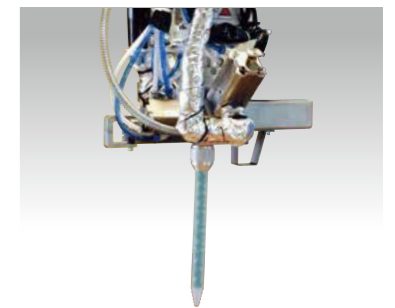
Power Mixer

Feature: Wash type, Forced mixing method



NONSOL Static Mixer

Feature: Non-wash (disposable) type, Stationary static method



KNP Mixer

Feature: Wash type, Rotary static method

Non-wash disposable mixer

WONDER MIX



Four sizes are available to fit use.



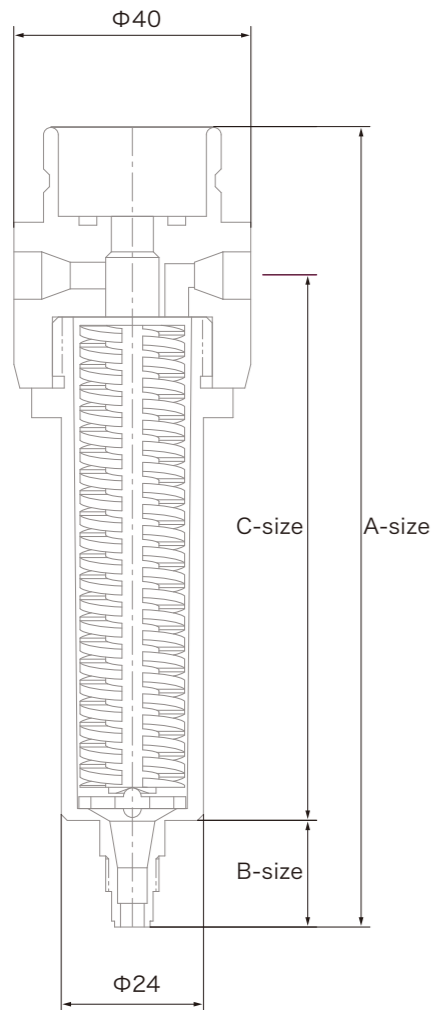
Jig



Paused jig
Used when stopping the device



Mixing ratio jig
Used when measuring mixing ratio



■ Dimensions / Part Names (Unit: mm)

※Specifications and outside appearance may change without advanced notice.
 ※The device is not explosion- or water-proof.
 ※Special specifications other than those noted above are available (optional).
 Please inquire with our sales representative if you wish to add optional specifications.

Model	SNP-S	SNP-M	SNP-L	SNP-XL
Measurement A(mm)	92	109	135	161
Measurement B(mm)	18	18	18	18
Measurement C(mm)	49	66	92	118
Net content(ml)	6.5	8.5	12.5	16.5

※Due to its being a resin mold product, actual product sizes may vary somewhat from those shown in the chart.

■How to attach and detach Wonder Mix

- Check that D seal is affixed to the mixer head.
- Place O-ring onto the mixer.
- Place the mixer key matched with the SNP mixing head key groove and insert the hexagon shaft into the mixer.
- Slide the mixer lock ring upward.
- Push up and slide the mixer lock ring downward.
- Lower the safety cover and press the mixer lock button. (in the control panel)

Non-wash Disposable Dynamic Mixer

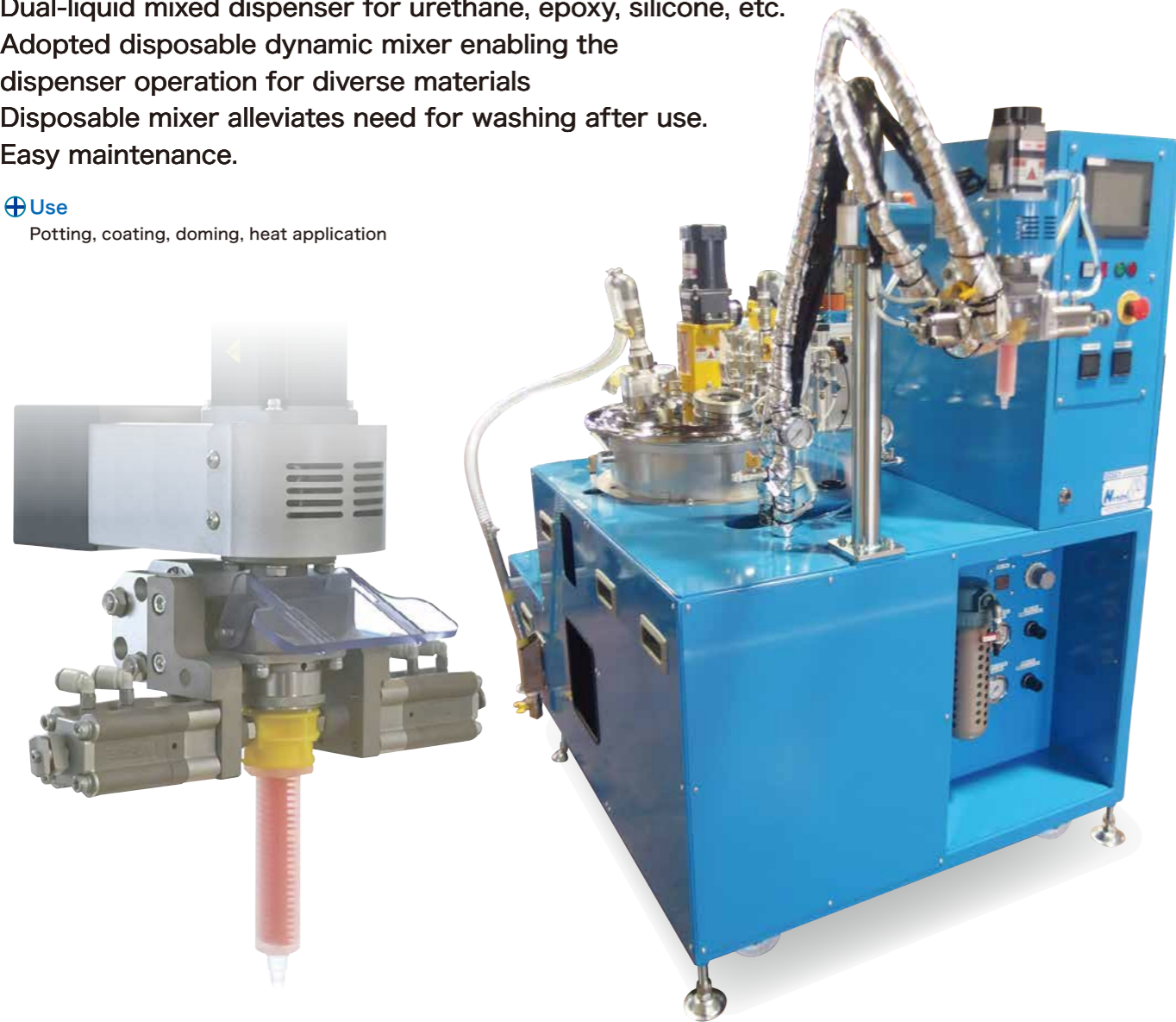
Automatic Dual-liquid Measuring Mixed Dispenser

SNP Series

Non-wash High-precision

Dual-liquid mixed dispenser for urethane, epoxy, silicone, etc.
 Adopted disposable dynamic mixer enabling the dispenser operation for diverse materials
 Disposable mixer alleviates need for washing after use.
 Easy maintenance.

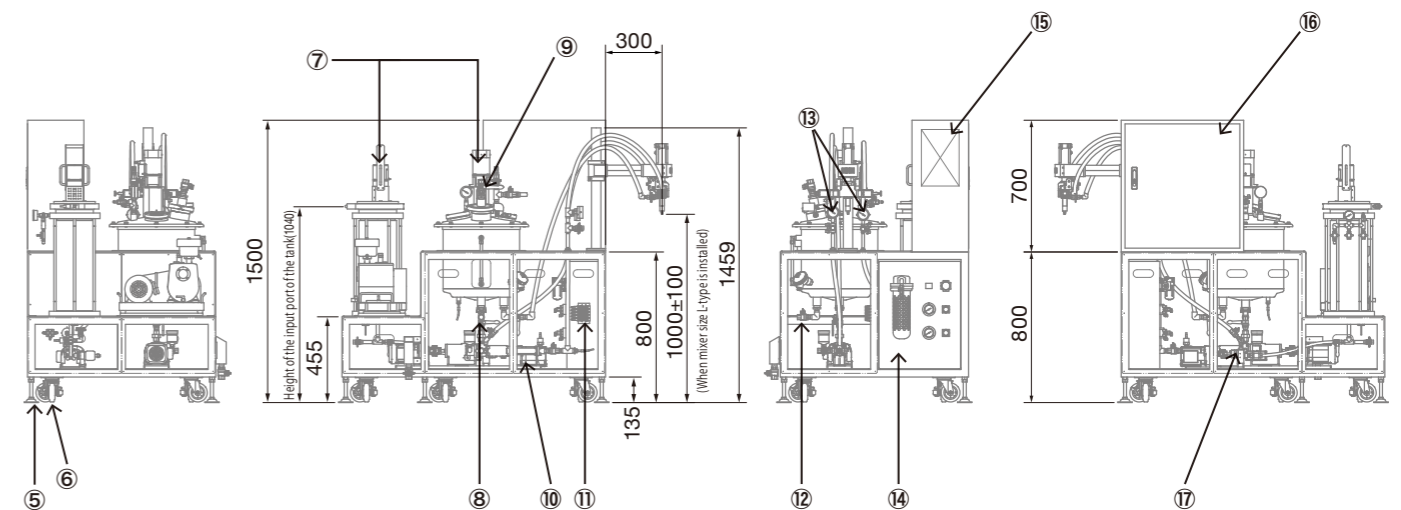
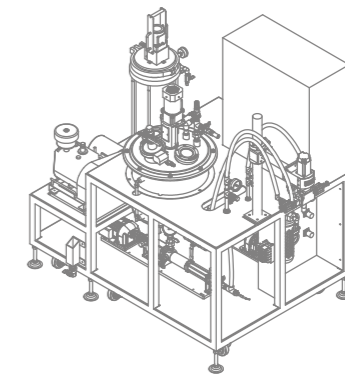
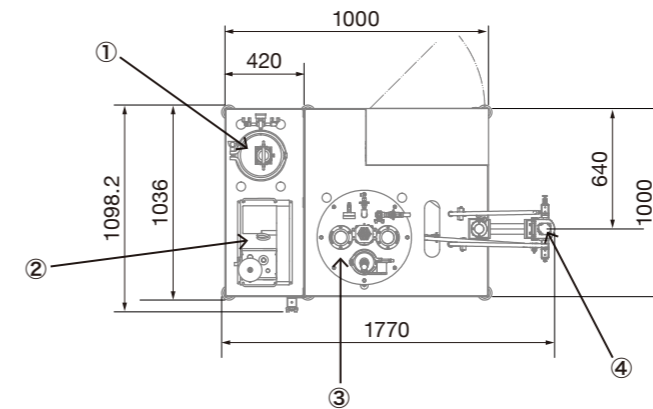
Use
 Potting, coating, doming, heat application



SUPER SHOT SERIES [SNP Series]

Dimensions / Part Names (Unit: mm)

- ① B-agent tank
- ② Vacuum pump
- ③ A-agent tank ※30L SUS
- ④ Mixer
- ⑤ Level bolt
- ⑥ Caster
- ⑦ Tank mixing motor
- ⑧ Pumping valve
- ⑨ Material suction valve
- ⑩ A-agent measuring section
- ⑪ Solenoid valve
- ⑫ Drain valve
- ⑬ Pressure gauge
- ⑭ Air panel
- ⑮ Operation panel
- ⑯ Control panel
- ⑰ B-agent measuring section



Standard Specifications

Amount dispensed	0.1~40ml/sec
Mixing ratio	100:3~100:100
Metering pump	Select from gear pump, snake pump, and plunger pump
Metering pump drive motor	Gear motor
Mixer	Wonder Mix
Mixer drive motor	Servo motor
Material viscosity	~200,000mPa.s
Power supply	Three-phase 200V
Air source	0.5MP~
Unit weight	Approx. 300 kg ※Differs according to specification

※Specifications and outside appearance may change without advanced notice. ※The device is not explosion- or water-proof.
 ※Special specifications other than those noted above are available (optional). Please inquire with our sales representative if you wish to add optional specifications.

Super small-amount dispenser featuring two ultra-precision pump units

Automatic Dual-liquid Measuring Mixed Metered Dispenser STP Series

Ultra-precision

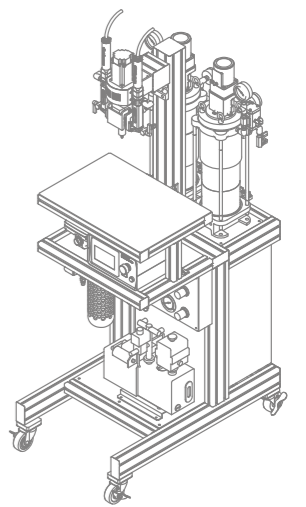
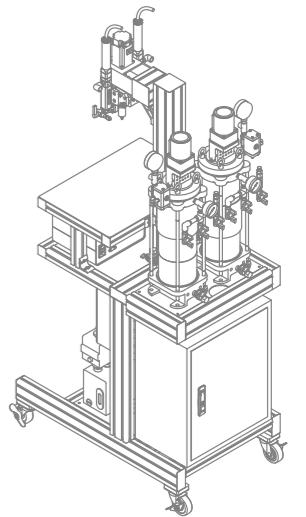
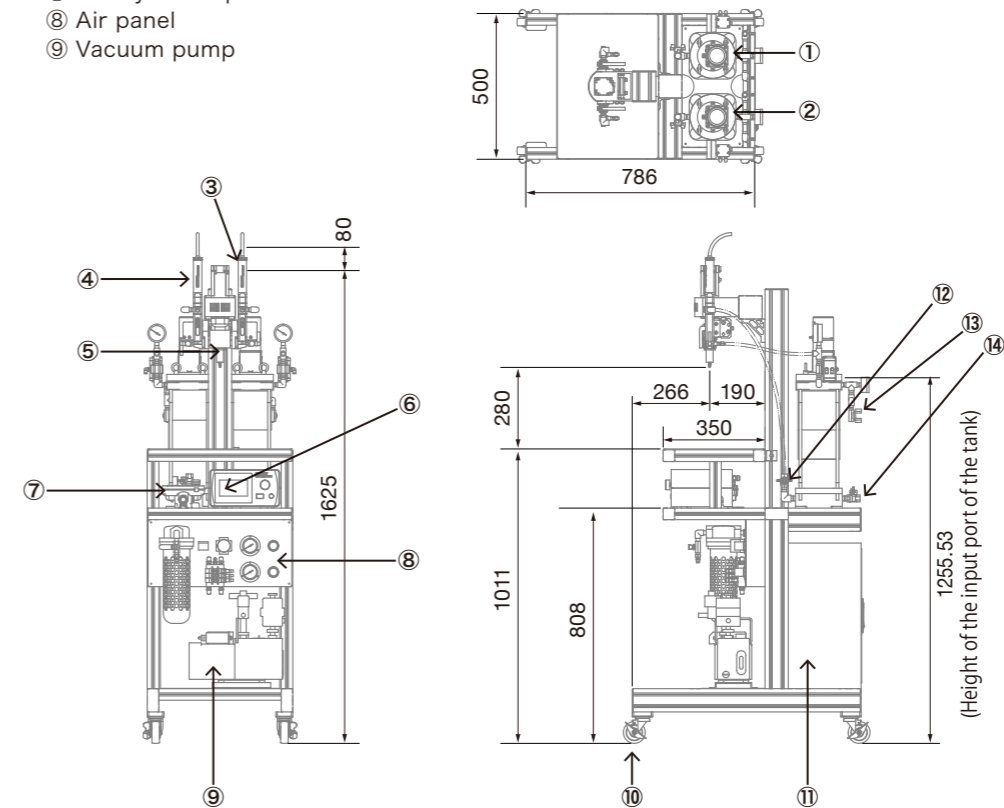
Featuring SOSEY-SOLID® pump system capable of dispensing super small amounts of 0.150/0.450/0.900ml/rev. Perfect for low-gravity to high-gravity, low-viscosity to high-viscosity materials, urethane, epoxy, silicone and other liquid materials.

Use
Various sensor capacitors, coils and transformers



Dimensions / Part Names (Unit: mm)

- ① A-agent tank
- ② B-agent tank
- ③ Solid pump for A-agent
- ④ Solid pump for B-agent
- ⑤ SNP unit
- ⑥ TSP controller
- ⑦ Handy touch panel
- ⑧ Air panel
- ⑨ Vacuum pump
- ⑩ Caster
- ⑪ Control panel
- ⑫ Pumping valve
- ⑬ Tank pressure operation unit
- ⑭ Drain valve



Comparison Table of Standard Specifications

Model	150	500	1000
Pump size	0.150ml/rev	0.450ml/rev	0.900ml/rev
Pump drive motor speed	~120rpm <i>Differs by material</i>		
Maximum amount dispensed (one side, theoretical value)	0.30ml/s	0.90ml/s	1.80ml/s
Minimum amount dispensed (one side, theoretical value)	0.0050ml/s	0.0150ml/s	0.0300ml/s
Dispensing precision	±1% <i>Differs by material</i>		
Material dispensing method	Pumped from tank		
Material supply pressure	~0.2MPa		
Material viscosity	~200,000mPa·s		
Usable temperature	~50°C		
Unit weight	200kg <i>* Differs according to specification</i>		
Material tank	Two 4L-tank made of pressure-resistance glass		
Mixer	Wonder Mix		

**Possible to select according to mixture.
Numerical value is the design theoretical value and does not warrant the performance of this device.

Controller Specifications

Power supply	Three-phase 200V
Power consumption	1600W
Dispensed pattern memories	15 patterns
Operation mode	Timer dispensing manual (continuous) dispensing automatic cycle ratio check
Source pressure air	Φ6 air supply Capable of adjusting air pressurization in the range of 0~0.6 MPa with built-in regulator

**Specifications and outside appearance may change without advanced notice.
*The device is not explosion- or water-proof.
*Special specifications other than those noted above are available (optional).
Please inquire with our sales representative if you wish to add optional specifications.*

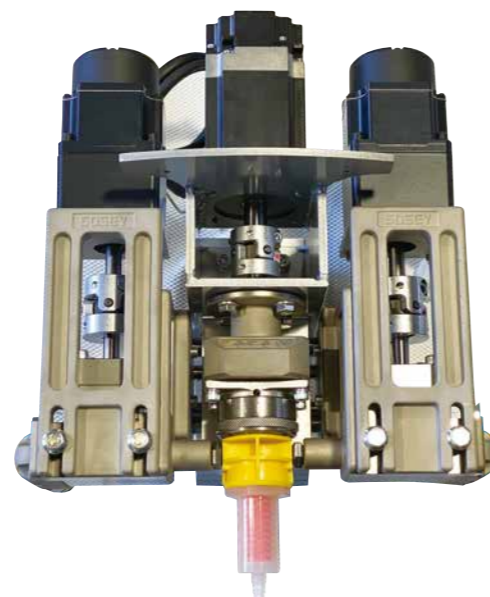
Compact dispenser combining gear pump and mixer in one Automatic Dual-liquid Measuring Mixed Dispenser TW Series

Ultra-precision

High-precision gear pump and non-washing mixer combined into one unit.
The device can be used not only on production lines but also for dispensing operations in small spaces such as laboratories.
We not only accept customized orders but offer catalogue models for short-time delivery

⊕ 用途

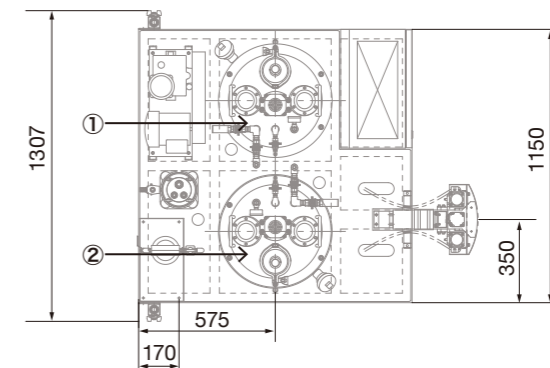
Potting, coating, doming



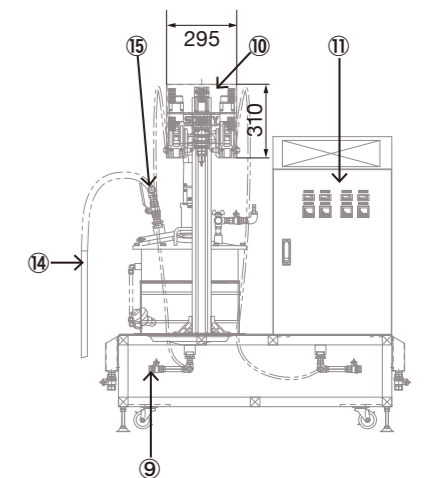
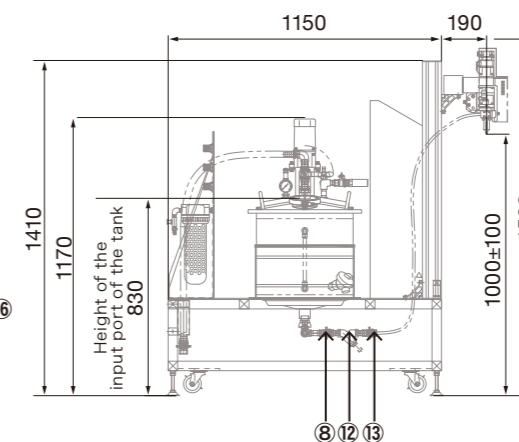
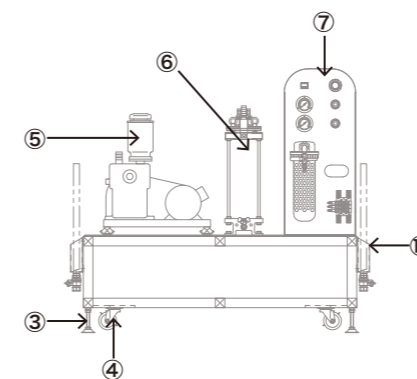
■ Dimensions / Part Names (Unit: mm)

30L-tank specifications (Model)

- ① B-agent tank (30L SUS)
- ② A-agent tank (30L SUS)
- ③ Level bolt
- ④ Caster (φ75)
- ⑤ Vacuum pump
- ⑥ Vacuum trap (4L glass)
- ⑦ Air panel
- ⑧ Pumping valve



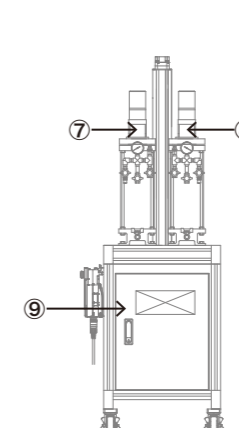
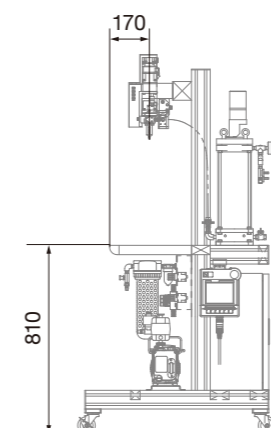
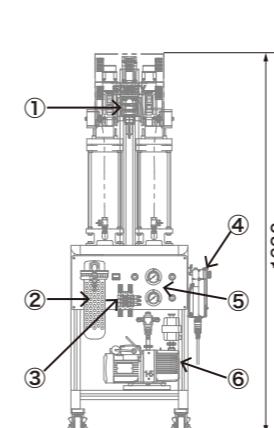
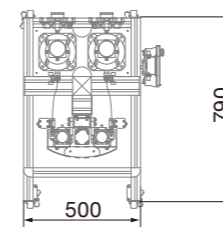
- ⑨ Drain valve
- ⑩ Twin module unit
- ⑪ Control panel (500×836×300)
- ⑫ Strainer
- ⑬ Maintenance valve
- ⑭ Material suction pipe
- ⑮ Material suction valve
- ⑯ Holder for material suction pipe



■ Dimensions / Part Names (Unit: mm)

4L-tank specifications (Model)

- ① Twin module unit
- ② Silica gel for source pressure air
- ③ Solenoid valve
- ④ Handy touch panel
- ⑤ Air panel
- ⑥ Vacuum pump
- ⑦ B-agent tank (4L pressure-resistance glass)
- ⑧ A-agent tank (4L pressure-resistance glass)
- ⑨ Control panel (electrical section)



■ Standard Specifications of Model STW

Amount dispensed	0.1~10ml/sec
Mixing ratio	100:2~100:100
Metering pump	High-precision gear pump
Drive motor for metering pump	Brushless motor
Mixer	Wonder Mix
Mixer drive motor	Servo motor
Material viscosity	~20,000mPa.s
Power supply	Three-phase 200V
Power consumption	30L: 20A 4L: 10A
Air source	0.5MPa~
Unit weight	30L: Approx. 350 kg 4L: Approx. 150 kg

※Specifications and outside appearance may change without advanced notice.
※The device is not explosion- or water-proof.
※Special specifications other than those noted above are available (optional).
Please inquire with our sales representative if you wish to add optional specifications.

Ensures injection of liquid material into the smallest areas of the product to resolve problems with air bubbles!!

Vacuum injection system

SV Series

Vacuum injection machine

Enables injection of liquid into areas that are difficult to fill under atmospheric injection
 Select from a diverse range of pumps to suit your purpose.
 We can suggest the vacuum chamber best suited to the product size.

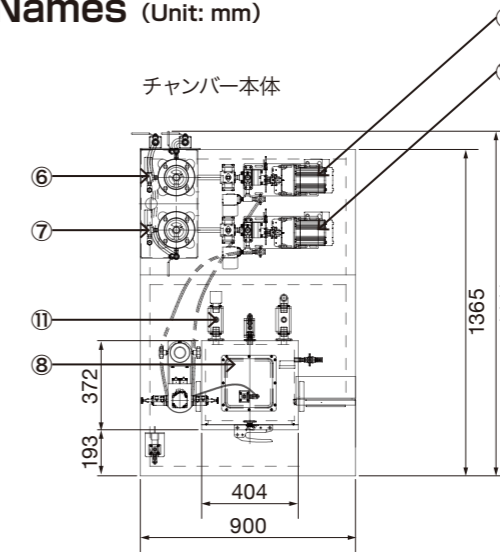


Power transformer, ignition coil, motor, hydraulic cylinder, suspension

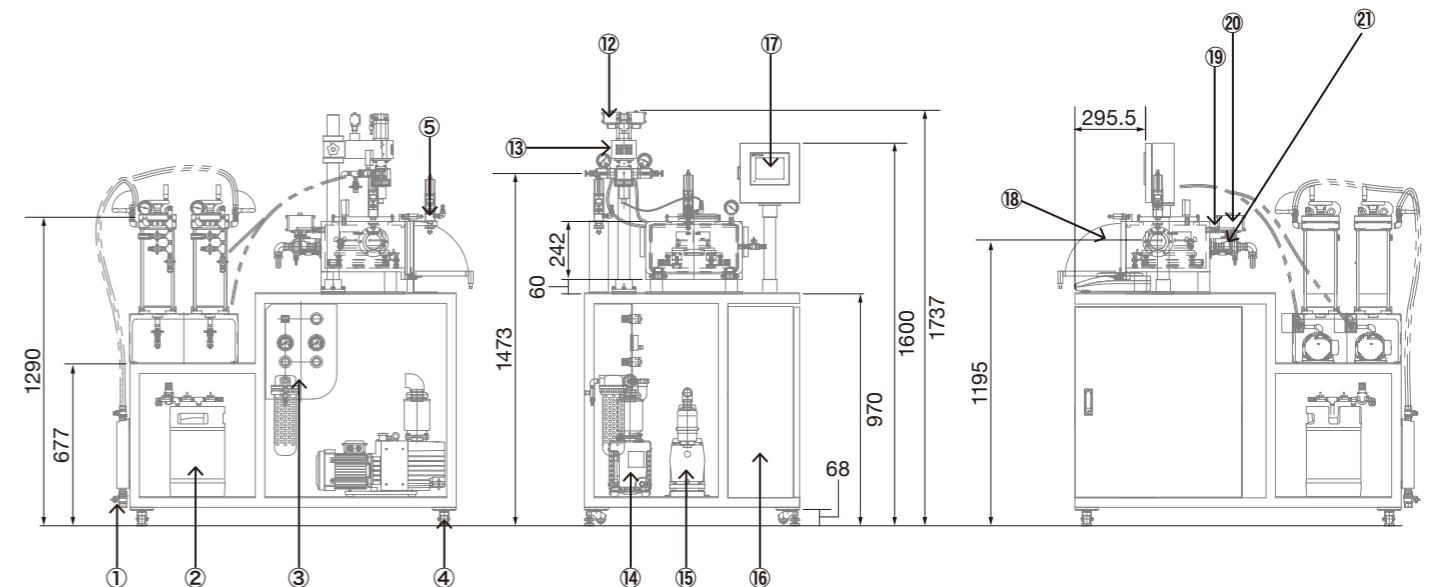
SUPER SHOT SERIES [SOVAC UNIT]

■ Dimensions / Part Names (Unit: mm)

- ① Material suction pipe
- ② Washing tank ※10L SUS
- ③ Air panel
- ④ Caster with adjuster
- ⑤ Valve holder for washing
- ⑥ B-agent tank (4L pressure-resistance glass)
- ⑦ A-agent tank (4L pressure-resistance glass)
- ⑧ Chamber top plate
- ⑨ B-agent metering unit
- ⑩ A-agent metering unit
- ⑪ Exhaust valve



- ⑫ Air solvent switching valve
- ⑬ Mixer
- ⑭ Vacuum pump for chamber
- ⑮ 脱泡用真空ポンプ
- ⑯ Control panel ※Touch panel system
- ⑰ Operation panel
- ⑱ Chamber door
- ⑲ Pirani sensor
- ⑳ Vacuum valve (large)
- ㉑ Vacuum valve (small)



■ Standard Specifications

Amount dispensed	20ml/sec MAX ※Negotiable
Mixing ratio	100:20~100:100
Metering pump	Select from gear pump, snake pump, and plunger pump
Mixer	Select from Power Mixer and Static Mixer
Material viscosity	~200,000mPa·s
Usable time	30 minutes or more
Power supply	Three-phase 200V
Air source	0.5Mpa~
Unit weight	Approx. 750 kg ※Differs according to specification

※Specifications and outside appearance may change without advanced notice. ※The device is not explosion- or water-proof.
 ※Special specifications other than those noted above are available (optional). Please inquire with our sales representative if you wish to add optional specifications.

For large volume dispensing of low-viscosity urethane, epoxy and silicone

Dual-liquid low-pressure injection machine

LM Series

Low-Pressure Injection Machine

Large-volume dispenser enabling maximum dispensing of 133.3ml/sec.

Use of gear pump method for measuring enables simple change in dispensing amount by changing timer.

The device can be used for diverse purposes, including prototype casting, potting, and supplying liquid to roll coaters.

Use

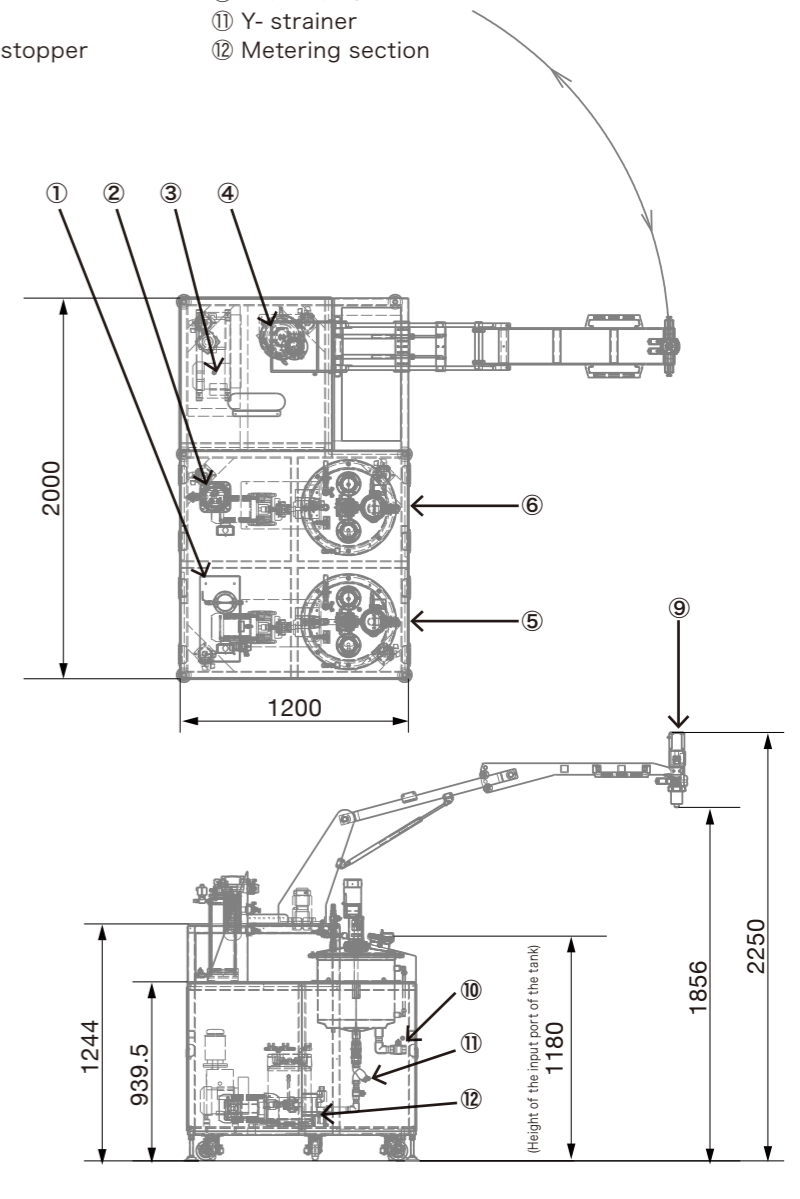
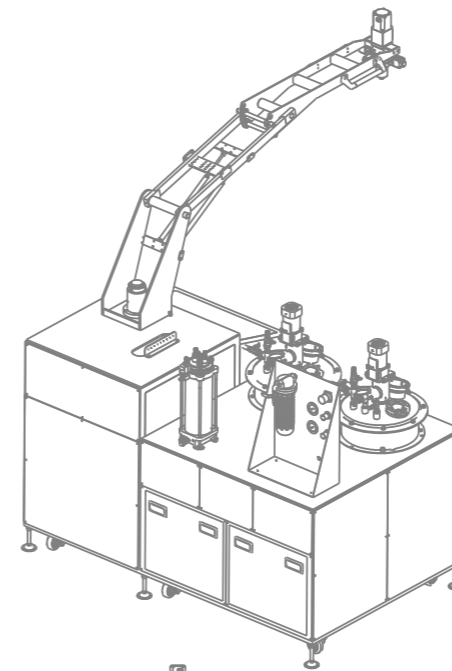
Prototype casting, potting on large parts, and supplying liquid to large roll coaters.



SUPER SHOT SERIES [LM-800]

Dimensions / Part Names (Unit: mm)

- | | | |
|----------------|-----------------------|--------------------|
| ① Air panel | ⑤ A-agent tank | ⑨ Mixer |
| ② Vacuum panel | ⑥ B-agent tank | ⑩ Drain valve |
| ③ Vacuum pump | ⑦ Level bolt | ⑪ Y- strainer |
| ④ Washing tank | ⑧ Caster with stopper | ⑫ Metering section |



Standard Specifications

Amount dispensed	33.3~133.3ml/sec	※For a mixing ratio of 100:100
Mixing ratio	100:20~100:100	
Metering pump	Gear pump	
Mixer	Power Mixer	
Material viscosity	~10,000mPa·s	
Usable time	20 seconds or more	
Power supply	Three-phase 200V	
Air source	0.5Mpa~	
Unit weight	Approx. 750 kg	※Differs according to specification

※Specifications and outside appearance may change without advanced notice. ※The device is not explosion- or water-proof.
 ※Special specifications other than those noted above are available (optional). Please inquire with our sales representative if you wish to add optional specifications.