

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.



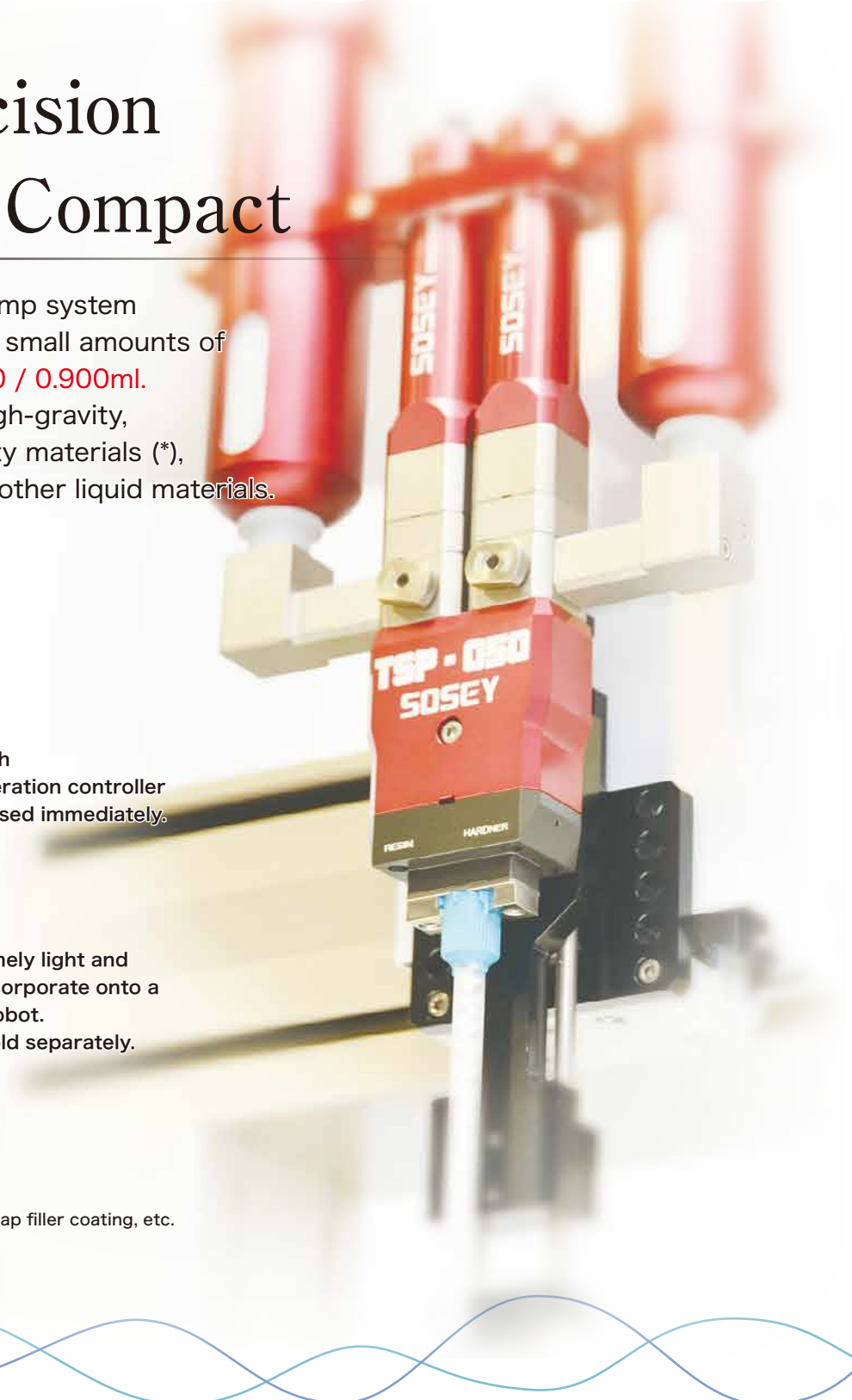
Comes with
simple operation controller
It can be used immediately.



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.



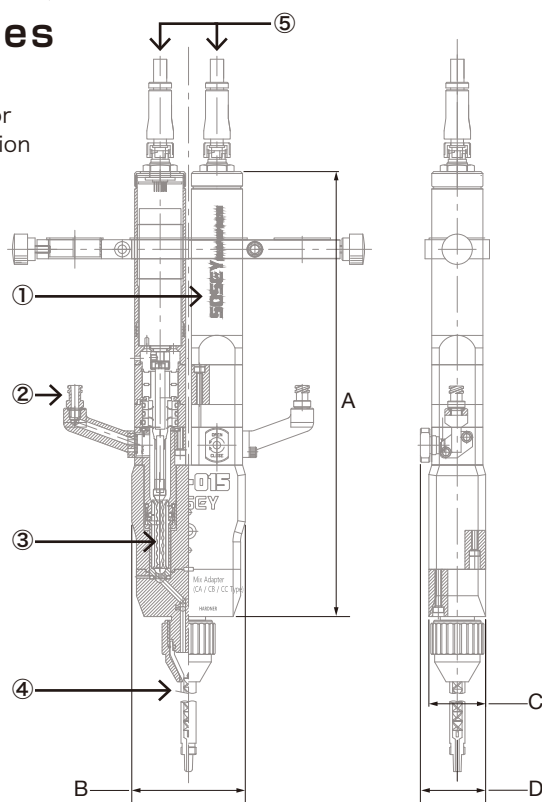
■ Dimensions / Part Names

(Unit: mm)

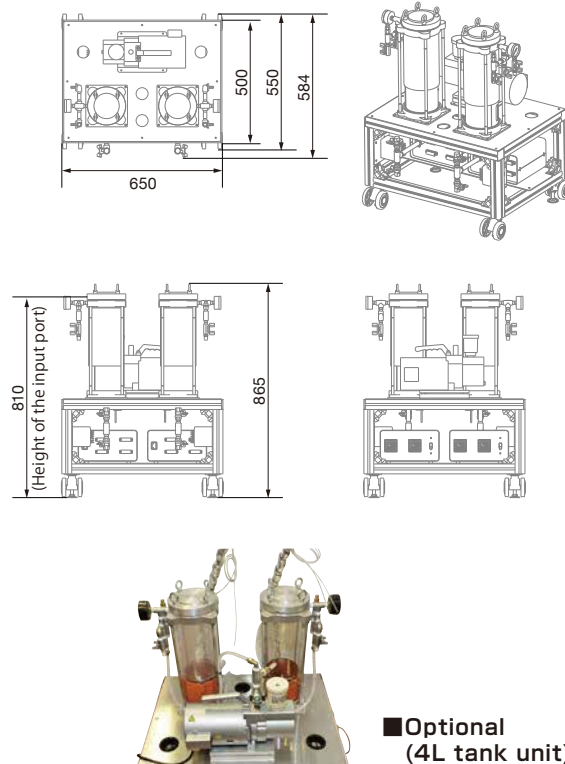
- ① Pump drive motor
- ② Material connection
- ③ Metering section
- ④ Static mixer
- ⑤ Motor cable



Various sizes
available



SUPER SHOT SERIES [TSP Series]



■ 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	More than 200,000mPa・s				
Usable temperature	~50℃				
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.