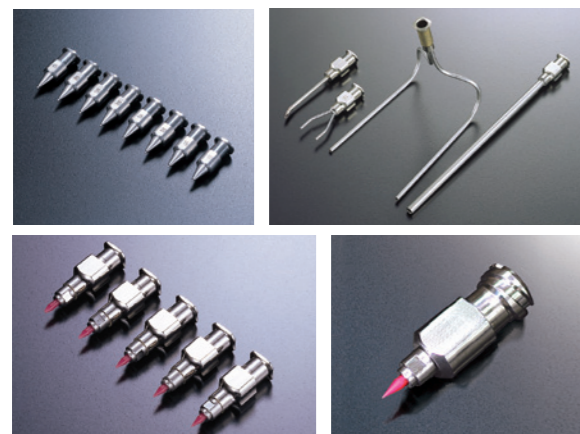


## Precision solid nozzles and special nozzles



- Customization available for a wide variety of shapes required for dropping and multi-channel dispensing

## Valves



- Ideal valves for micro volume dispensing of low viscosity fluid.
- Succeeded in dispensing micro volume of even corrosive fluid due to Teflon used at all connecting portions.
- The stroke adjustable type is also available. (DCV-2N, DCV-3N)

## Tank (SUS made)

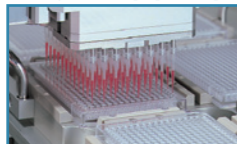
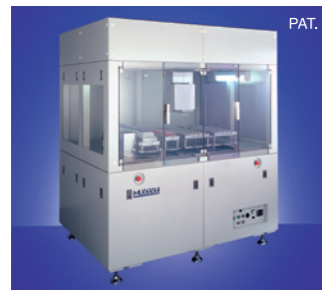


- 0.5- to 30-liter types available.

# Automatic dropping/multi-channel dispensing system

## PIPET MASTER®

Fully automatization of pipet tip mounting, chemical suction, multi-channel dispensing, and pipet tip removal



- Both 96-pipet-tip and 12-pipet-tip heads mountable for multi-channel dispensing.
- Automatic attachable pipet tip.
- Stacker (option) mountable.
- User-friendly design with excellent operability.

## IMAGE MASTER® 350pc Smart

Desktop spotting system with PC-controlled image recognition unit



- Outstanding "Device Alignment Function"
- Production Logging Function equipped
- Newly developed "Dispensing Preview Function" equipped, dispensed shape's picture displayable in advance.

## Fully automatic chemical injection system

Fully automatic system with well transporter and pumps for 12-head precision dispensing

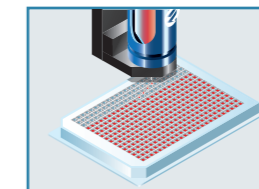


- High-speed processing achieved by 12 units of SMP-III, which has established excellent track record in microscopic volume dispensing with multi-channel head.
- Fully automatic system that provides sequential operations: micro-plate feeding, chemical injection, and discharging.

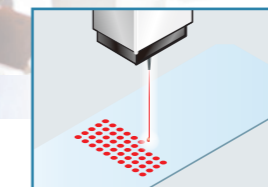


MUSASHI ENGINEERING, INC. is certified and registered according to ISO14001 ENVIRONMENTAL MANAGEMENT.

## MUSASHI fluid precision control technology



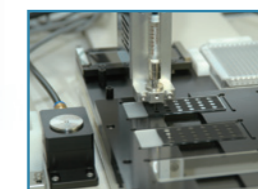
Genom



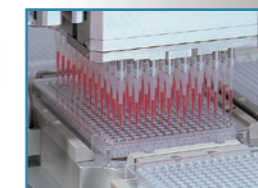
Biotechnology



Cosmetics



Science



Chemistry



Foods

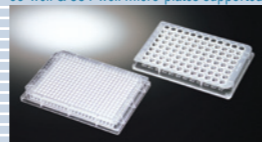


**Safety precaution**  
Make sure to read the instruction manual before you use the unit, for your safety.

\* We reserve the right to change the specifications without notice.  
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# Best suited for inspection kit, MUSASHI's micro-volume liquid precise control technology

96-well & 384-well micro-plates supported



Glass slide      Dispensing burettes sample

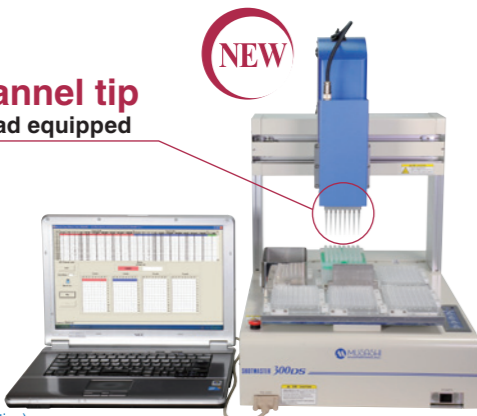
## Fully PC-controlled compact type multi-channel dispensing system **PIPET MASTER®**

Processing capacity increased with Multiple channel head!

### Multiple channel tip Multi-channel head equipped

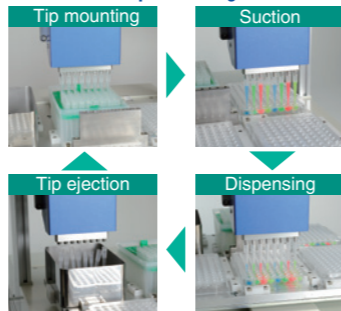


- Dispensing volume range:
- 50 - 1000µL (1000µL tip specification)
  - 2 - 200µL (200µL tip specification)
  - 0.5 - 10µL (10µL tip specification)



**NEW**

- Best suited for multi-channel dispensing in biological field.
  - Picking process in screening
  - Buffer solution of PCR Principle
  - Dispensing of blood plasma, reagent for clinical examination, etc.
- Best suited for sample consolidation.
  - Consolidation of microplates : 96-well → 384-well
  - Consolidation from microtubes to microplates
- Fully automatization from tip mounting to multi-channel dispensing.



## Spotting system for biochip manufacturing **SPOT MASTER®**

Automation of multiple kinds of reagents dispensing!

### Automatic Nozzle Cleaning

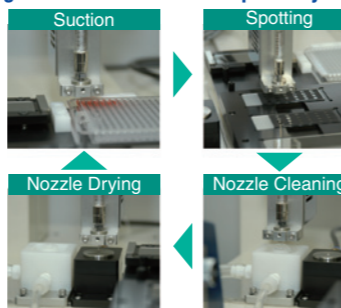


**10nl** Micro volume dispensing head equipped

Drop volume range: 10 - several hundreds nL

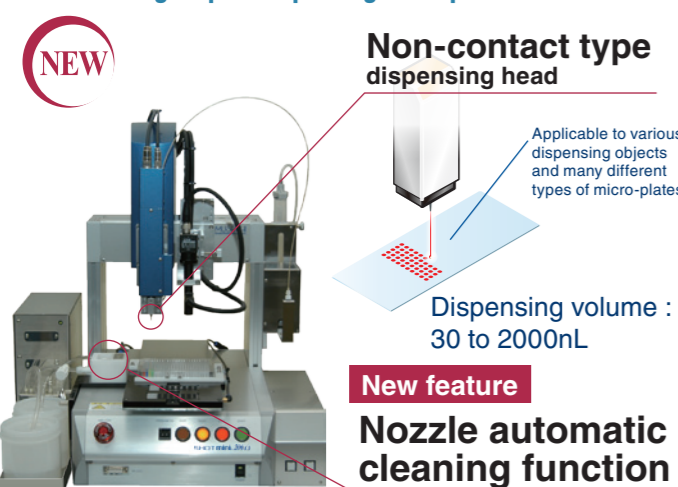
System example

- Best suited for multiple kinds of reagents spotting thanks to Automatic Nozzle Cleaning function
- Easily configurable! Flexibly potting pattern editing thanks to dedicated software
- Low running cost achieved due to tipless system



## Antibody spotting system **JET SPOTTER®**

Suction & High-speed-spotting multiple kinds of antibody



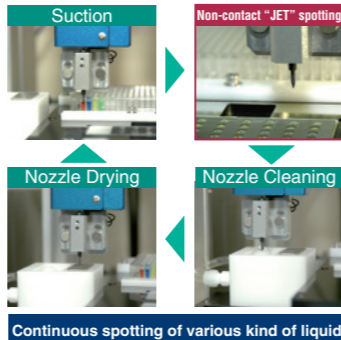
### Non-contact type dispensing head

Applicable to various dispensing objects and many different types of micro-plates.

Dispensing volume : 30 to 2000nL

### New feature Nozzle automatic cleaning function

- Prevents the cross contamination by jet dispensing. Stable high-speed dispensing available regardless of dispensing surface shape.
- Most suitable for spotting a large variety of reagent by nozzle automatic cleaning function.
- Running cost is low.

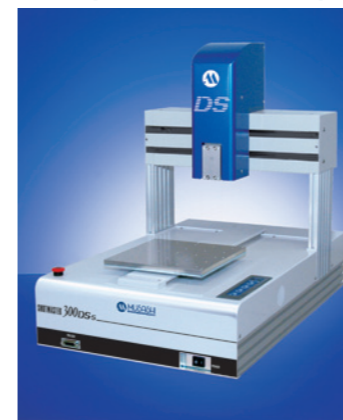


Continuous spotting of various kind of liquid

# Evolving Dispensing solutions! MUSASHI's high-precision/High-speed Dispensing/Spotting/Filling system MUSASHI's systems achieving high-throughput screening in drug-discovery & other biological fields

## Next generation standard desk-top robot **SHOTMASTER® 300DS-s**

Desktop robot usable for inspection kit production



- High rigidity and no loss of synchronism achieved thanks to original driving system
- High dispensing accuracy achieved based on leading-edge technology owned by No.1 dispenser manufacturer
- High precision drawing without unsteadiness, thanks to the excellence in straightness

### Specifications

Series name	SM300DS-s
Number of axes controlled	3-axis
Travel ranges	X, Y-axis: 300mm Z-axis: 60mm
Repetitive positioning accuracy	X, Y-axis: ±0.005mm Z-axis: ±0.002mm
Transportable weight	Work base side: 10kg Head side: 6kg
Power supply/power consumption	AC100 to 240V 50/60Hz • 150VA
External dimensions	W482×D630.4×H562.7mm
Weight	32kg

(\*)These values vary depending on the speed, motion pattern, gravity center of the loaded object, or other factors. The values for the Y-axis are the weights at the work table (option) mounted.

## Dropping system for microscopic and constant volume **NANO MASTER®**

Capability of 1 nl microscopic volume dropping



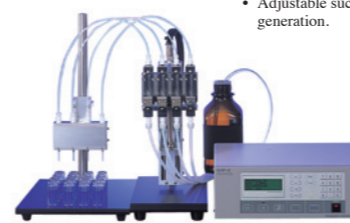
- Continuous dispensing of micro volume available.
- Direct value entry for setting dropping volume, user-friendly operability and high repeatability.
- Microsyringe mountable. (Option)

### Specifications

Model	SMP-III
Control	Microprocessor-controlled plunger type
Dispensing volume range	1nl to 9.999999ml
Applicable fluid materials	Especially suited for low viscosity fluids and solvents
Memory	400CH
Power supply, power consumption	AC 100V 50/60Hz • 50W

## High-precision micro and constant volume filling pump **FILL MASTER®**

For pre-processing of HPLC, Volume measuring type high-precision



- Improved productivity with multi-head availability.
- Direct value entry for setting filling volume. User-friendly operability and high repeatability.
- Adjustable suction speed and filling speed to prevent bubble generation.

### Specifications

Model	FILL MASTER
Control	Microprocessor-controlled plunger type
Dispensing volume range	10ml or less
Applicable fluid materials	Especially suited for low viscosity fluids and solvents
Memory	400CH
Power supply, power consumption	AC 100V 50/60Hz • 75VA

Automatic multi-function multi-channel dispensing system supporting micro-plates and vials

## **MICRO MASTER®**

High-precision multi-channel dispensing achieved by MUSASHI original plunger pump



- Capable of dispensing high-viscosity fluids that are difficult-to-use with pipets.
- Value entry with ease for setting multi-channel dispensing volume. Fluid bottle mountable without repacking.
- Fluid level detecting function for a fluid bottle to be mounted.



### Specifications

Model	MICROMASTER
Control	Microprocessor-controlled plunger type
Dispensing volume range	1µl or more
Multi-preset	400CH (0 to 399)
Specified temperature range	-10°C to 40°C
Power supply, power consumption	AC 100V 50/60Hz • 180VA
External dimensions	W 560 X D 730 X H 660mm
Weight	60kg

## Low viscosity Non-contact jet dispenser **Cyber Jet® 2**

Immunochemistry method supported  
Best suited for line dispensing of antibody



- High-speed jet of low viscosity liquid at 133 dps.
- High maintainability achieved.
- Excellent quiet operation.
- Improvement of continuous dispensing stability.
- Temperature control mechanism equipped as standard.

### Specifications

Model	MJET-C-HU□□-R/L
Dispensing method	Jet type
Dispensable liquid materials	Reagent, antibody, etc.
Applicable range for liquid material viscosity	1 to 2000mPa · s
Use nozzle	Pipe type (1L, 2L, 3L): 15 to 32G
	Pipe type (1L, 2L, 3L): 15 to 28G PTFE coating
	All-in-one design (SHN): 28 to 36G
Supply air pressure	Max. 0.6MPa

## Tubing pump **MT-410**

Tubing pump Simplified high-precision fluid feeding with excellent operability



- Tube placement with one-touch simple and secured operation.
- Installation of "Digital Timer" with one-touch operation for time setting.
- Easy maintenance fulfilled due to the introduction of detachable rotor.
- Dispensing pen equipped with the remote switch for manual work available.

### Specifications

Model	MT-410
Control	Rotary tubing type
Dispensing duration	Digital timer (digital switch)
Special feature	Vacuum rotary function for fluid-drip prevention
External input signal	Contact input
Power supply, power consumption	AC 100V 50/60Hz • 32W
External dimensions and weight	W 188 X D 189 X H 75mm • 3.4kg

*It is the best for consolidating the sample!  
Four times faster for processing performance times with four-pipet type*

New development

**Four-pipet type** of pipeting head mounted



Dispensing volume: 2~200  $\mu$ L (200  $\mu$ L type)  
0.5~10  $\mu$ L (10  $\mu$ L type)



**The optimum system for pipetting operation in the drug discovery and the biotechnology field where the micro plate is used.**

■Picking process of screening ■PCR preprocessing ■Pipetting for plasma and clinical diagnostic

**It is the best for consolidating the sample.**

■Consolidating in microplate 96Well→384Well.

■Consolidating in sample tube → microplate.

**Completely automated from the installation of the chip to the divided injection.**



# PIPETMASTER<sup>®</sup>

Desk top pipetting system

**Complete data making of pipetting information.  
Compact pipetting system debut.**



PHOTO: PIPETMASTER-300S.



*The optimum system for pipetting operation in the drug discovery  
and the biotechnology field where the micro plate is used.*

- Picking process of screening
- PCR preprocessing
- Pipetting for plasma and clinical diagnostic

## Feature

- Product configuration of four types.  
The best combination can be selected from base robot "200mm stroke" or "300mm stroke" and pipet "Precise pipet" or "Mass pipet" according to the usage and the purpose.
- Corresponds to the many kinds of plates and .  
In addition, a special stage in various sample tubes is available.
- Pipetting conditions such as amount of pipetting, the stir operation before sucking and after dispensing can be set freely.
- Free arrangement of Mother plate (MP) and Daughter plate (DP).



PHOTO: PIPETMASTER-200S.

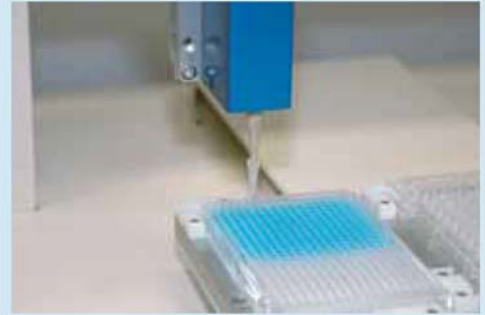
## Example of application

Mother plate (MP) and Daughter plate (DP) arrangement, pipet well, amount of pipetting, ON/OFF and cycle of stirring operation before sucking and after dispensing are freely set on PC soft before pipetting.

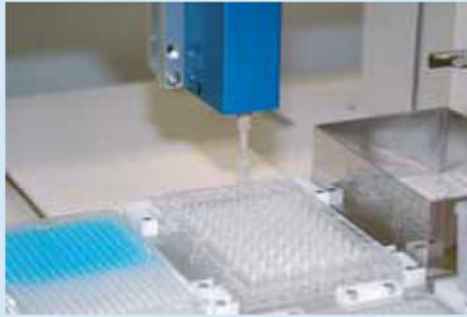
The robot automatically does all processes from the installation of pipetting chip to abandonment after the parameter is input.



① The chip is installed.



② The reagent is sucked.



③ Pipette the reagent.



④ The chip is detached.

- PIPETMASTER-200S or PIPETMASTER-300S are selected according to the number of plates used.
- Corresponds to many kinds commercial plates (96 well and 384 well) and various kinds chips.
- Chip (10 $\mu$ l, 200 $\mu$ l) is selected according to the amount of pipetting.
- The arrangement of Mother plate (MP) and Daughter plate (DP) can be set freely.

## Specification

Model	PIPETMASTER-200S	PIPETMASTER-300S
Pipetting method	Pipet method	Pipet method
Pipetting capacity	1 ~ 200 $\mu$ l (200 $\mu$ l specification) 0.5 ~ 10 $\mu$ l (10 $\mu$ l specification)	1 ~ 200 $\mu$ l (200 $\mu$ l specification) 0.5 ~ 10 $\mu$ l (10 $\mu$ l specification)
Chip installation	Automatic operation	Automatic operation
Chip detachment	Automatic operation	Automatic operation
Robot stroke speed	XY 0.1 ~ 800mm/sec Z 0.1 ~ 250mm/sec	XY 0.1 ~ 800mm/sec Z 0.1 ~ 400mm/sec
Number of plates	Two pieces	Four pieces
Power supply and power consumption	AC100 ~ 240V 50/60Hz · 120VA	AC100 ~ 240V 50/60Hz · 200VA
Outside dimension *projection excluded	W304mmxD391mmxH422mm	W480mmxD585mmxH510mm
WT	17kg	40kg

\*The product specification is subject to change without notice.



<http://www.musashi-engineering.co.jp/>

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TEL : (886)3-572-9200 / FAX : (886)3-572-9300

SINGAPORE BRANCH 101 Thomson Road #27-03A, United Square Singapore 307591  
TEL : (65)6258-2422 / FAX : (65)6258-4844

THAILAND BRANCH 35/1 Soi Pipat 2 Convent Rd Bangrak Bangkok 10500 Thailand  
TEL : (66)847347851

CAT.No.SC10709-E-COPY

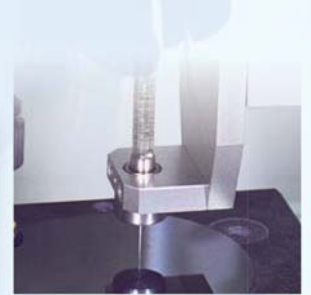
**Automated spreading of wide ranging reagents!**

New development

**New function**

**Nozzle auto-cleaning function**

**10nl** Equipped with micro dispensing head  
Dispensing volume: 10nL~



An example of system

- Ideal machine for spotting variety of reagents, equipped with nozzle auto-cleaning function.
- Free patterning and editing is configurable by dedicated software.
- The running cost is reasonable, since the chip is unnecessary.

Suctioning

Spotting

Washing

Drying



Continuous dispensing of multiple reagents

# JET SPOTTER®

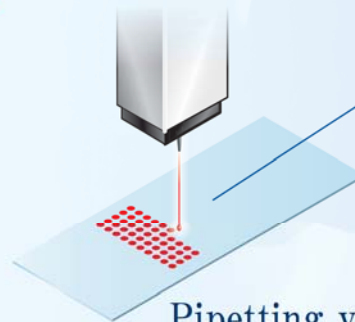
**Non-contact type super-high speed jet dispensing a large variety of reagent.**

New development

PAT.P



**Non-contact** dispensing head mounted



Applicable to various dispensing objects and many different types of micro-plates.

Pipetting volume : 30 to 2000nL

**New function**

**Nozzle auto-cleaning function**

- **It prevents the cross contamination of the sample** by non-contact dispensing. High speed dispensing is possible without being influenced by dispense surface shape.
- Ideal machine for spotting variety of reagents, equipped with nozzle auto-cleaning function.
- The chip is cheap and the running cost is cheap because of unnecessary.

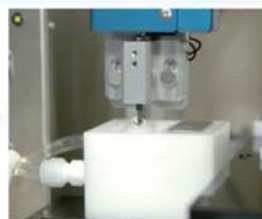
Suctioning



Non-contact spotting



Washing



Drying



**Continuous dispensing of multiple reagents**

## マイクロプレート、バイアル対応 自動分注システム

*Automatic multi-channel dispensing system supporting microplates and vials*



高精度・高速処理を追求したオリジナル プランジャポンプを搭載。  
Original plunger pump with high level of precision and fast performance equipped

### 特 長

- ピペットでは困難な高粘度薬液の精密分注を実現。
- 目的の分注量は数値入力による簡単設定。  
最大400chのメモリ機能を装備。
- 96穴、384穴マイクロプレート、各種バイアルに対応。
- 薬液ボトルを直接容器として使用可能。
- 薬液ボトル用残量検知機能を装備。

### FEATURES

- Multi-channel dispensing of high-viscosity fluid with precision that cannot be handled with pipets
- Value entry with ease for setting multi-channel dispensing volume  
Up to 400-channel memories available
- Supporting 96-well & 384-well microplates and various vials
- Fluid bottle mountable without repacking
- Fluid level detecting function for a fluid bottle to be mounted



# MUSASHIのディスペンスノウハウをオールインワン。

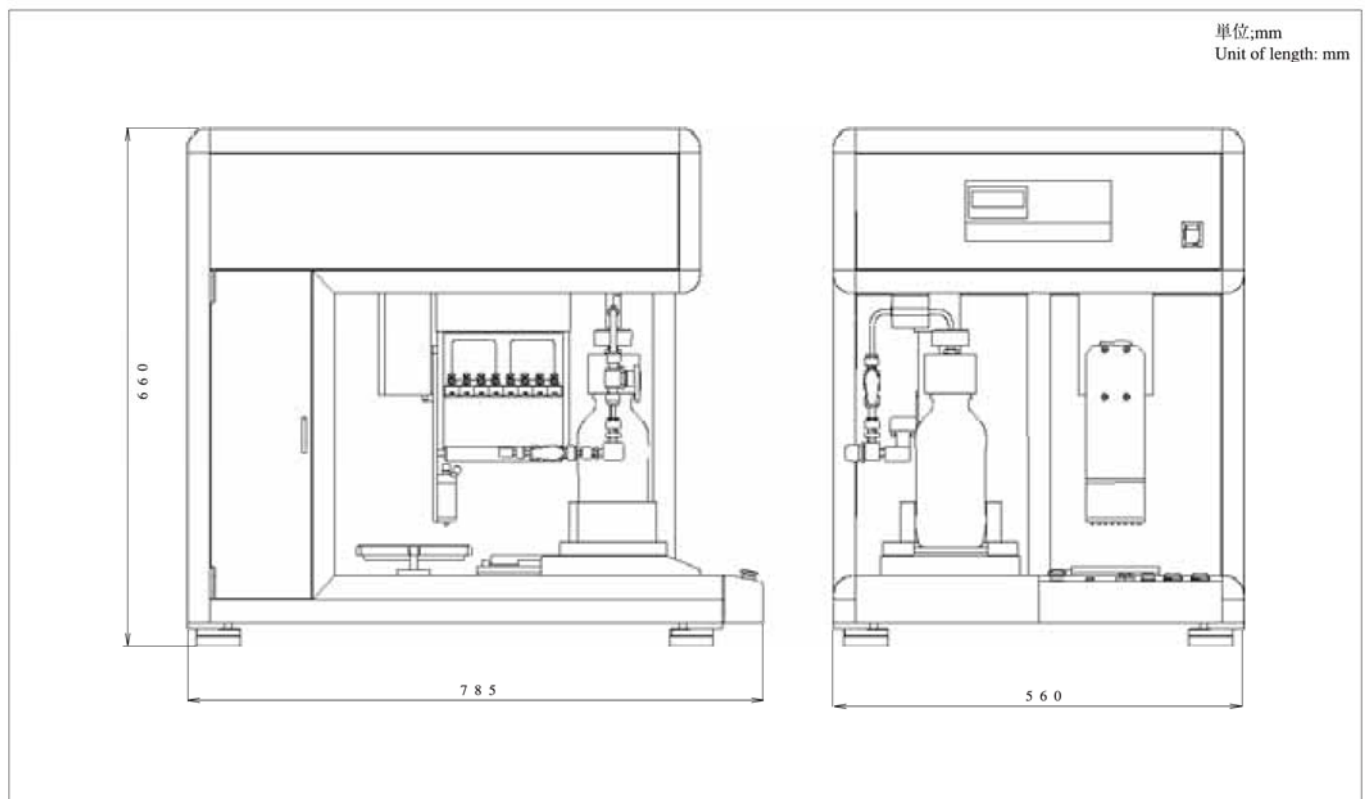
MUSASHI's all dispensing know-how is applied in this system.

## 仕様 SPECIFICATIONS

型式	MICRO MASTER	
ディスペンス 制御部	制御方式	マイコンデジタル制御プランジャ方式
	分注量範囲	1 $\mu$ l $\sim$
	マルチプリセット	400ch(0 $\sim$ 399)
仕様温度範囲	-10 $^{\circ}$ C $\sim$ 40 $^{\circ}$ C	
電源・消費電力	AC100V 50/60Hz $\cdot$ 180VA	
外形寸法	W560 $\times$ D785 $\times$ H660mm	
質量	60kg	

Model	MICRO MASTER	
Dispensing control section	Control	Microprocessor-controlled plunger type
	Dispensing volume	1 $\mu$ l. or more
	Multi-preset	400channels (0-399)
Operational temperature range	-10-40 $^{\circ}$ C	
Power source, power consumption	100V AC, 50/60 Hz, 180 VA	
Outside dimensions (W $\times$ D $\times$ H)	560 $\times$ 785 $\times$ 660 (mm)	
Weight	60kg	

## 外形寸法図 EXTERNAL DIMENSION DRAWINGS



**安全に関するご注意 Safety precaution**  
正しく安全にお使いいただくため、ご使用前に必ず「取扱説明書」をよくお読み下さい。  
Make sure to read the instruction manual before you use the unit, for your safety.

※本仕様は、おことわりなく変更する場合があります。

The specifications of the system may change without notice.

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URL <http://www.musashi-engineering.co.jp/>

# 1nlの超微量吐出\*

溶剤・揮発性材料などの超微量塗布、精密分注、定量充填に威力



ヘッド部カバー、スタンドはオプションです。/ Head cover and stand are optional extras.

## 1nl SUPER-MICRO-VOLUME LIQUID DISPENSING\*

Useful for dispensing extremely small doses of solvents and volatile materials

### 特長

- デジタル制御と計量方法による高安定吐出を実現。
- 独自のプランジャ機構とサックバック機能により液ダレを解消。
- マイクロシリンジを搭載(オプション)、少量の液剤を効率よく使用可能。
- 1/10,000mlの微量吐出、姉妹機 SMP-II もラインナップ\*。

\* オプション搭載時。

### FEATURES

- High stable dispensing achieved thanks to digital control and volumetric method.
- No liquid dripping thanks to original plunger mechanism and suckback function.
- Micro-syringe applicable, accordingly high capability achieved to dispense small volume of liquid with efficiency.
- A sister machine, 1/10,000ml Micro volume liquid dispenser, the SMP-II, is also available\*.

\* This value can be achieved by using an optional syringe.

## 適用製品 APPLICABLE PRODUCTS

LSI、IC、ハイブリッドIC、トランジスタ、ダイオード、カラーLCD、プリント基板などの半導体・液晶基板・電子部品。時計、カメラ、光学機器などの精密機械。医療品、食料品など。

Semiconductors and LCD substrates such as LSIs, ICs, Hybrid ICs, transistors, diodes, color LCDs and printed circuit boards. Precision equipment such as watches, cameras and optical instruments. Medical items, foodstuffs.

## 適用吐出材料 APPLICABLE DISPENSING MATERIALS

特に、低粘度液体材料に最適。アルコール、揮発性液剤、UV硬化型樹脂など。

Ideal for low viscosity liquid such as alcohol, volatile liquid, UV resin, etc.

## 用途 APPLICATIONS

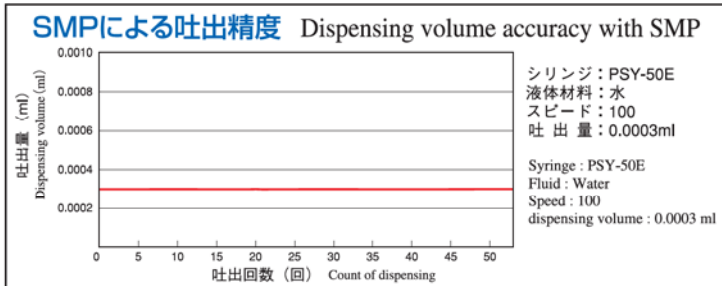
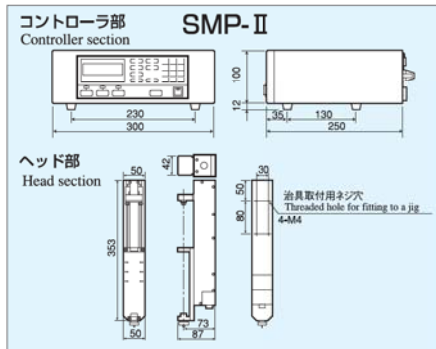
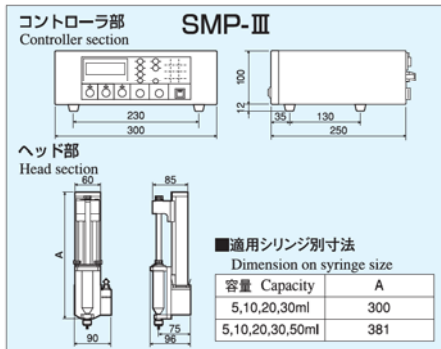
微量充填、微量分注、点付塗布、線引塗布、接着、ポットイング、など。

Micro-volume filling, small volume dispensing, dotting, lining, dispensing adhesives, potting, etc.

## 仕様 SPECIFICATIONS

型式/model	SMP-III	SMP-II
制御方式/Control system	マイコンデジタル制御プランジャ方式 吐出スピードコントロール機構 Micro processor-controlled plunger system with dispensing speed control mechanism	
吐出量設定範囲/ Dose volume setting range	最小値/Min.	0.000004ml (5mlシリンジ搭載時/at fitting 5ml syringe) 0.000001ml (マイクロシリンジ搭載時/at fitting micro-syringe)
	最大値/Max.	9.999999ml
適用液体材料/Applicable liquid types	特に低粘度液体材料、溶剤タイプ材料に最適/Specially optimized for low viscosity liquid	
搭載シリンジ/Equipment syringe	PSY-Eシリーズ/PSY-E series 5ml~50ml オプション: マイクロシリンジ仕様/Option: Micro-syringe	PSY-Eシリーズ/PSY-E series 5ml~50ml
メモリー機能/Memory function	400CH/400 channels	
電源・消費電力/Power supply・Power consumption	AC100V~240V 50/60Hz・45W	
重量/Weight	ヘッド部/Head section	2.3kg (5~30ml用/equipment 5-30ml syringe) 2.8kg (5~50ml用/equipment 5-50ml syringe)
	コントローラ部/Controller section	1.8kg
		4.2kg

## 外形寸法図 DIMENSIONS



### 卓上ロボット搭載例 A case of installation to desktop robot

※ヘッドカバーはオプションです。  
Head cover is an optional extra



**安全に関するご注意 Safety precaution**  
正しく安全にお使いいただくため、ご使用前に必ず「取扱説明書」をよくお読み下さい。  
Make sure to read the instruction manual before you use the unit, for your safety.

※本仕様は、おことわりなく変更する場合があります。  
The specifications of the system may change without notice.

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世界のディスペンサー

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# 容積計量式 高精度充填システム

*Volume measuring type high-precision filling system*

NEW



バイアルへの試薬・診断薬の高精度充填  
Vials that are precisely filled with reagent or diagnostic medicine

## 特 長

- 独自のデジタル制御プランジャ方式により 高精度微量充填を実現。
- 充填スピード調整機構により液剤粘性に対応、気泡の混入を防止。
- 注入量は数値入力による簡単自動設定。最大400chのメモリ機能を装備。
- 小型多連ヘッドにより装置への搭載も容易。

## FEATURES

- High-precision minimal filling available thanks to original digitally controlled plunger
- Supporting various levels of viscosity and preventing aeration by filling speed control mechanism
- Value entry with ease for automatic setting of filling volume  
Up to 400-channel memories available
- Easy mounting on other equipment thanks to adoption of small multihead