

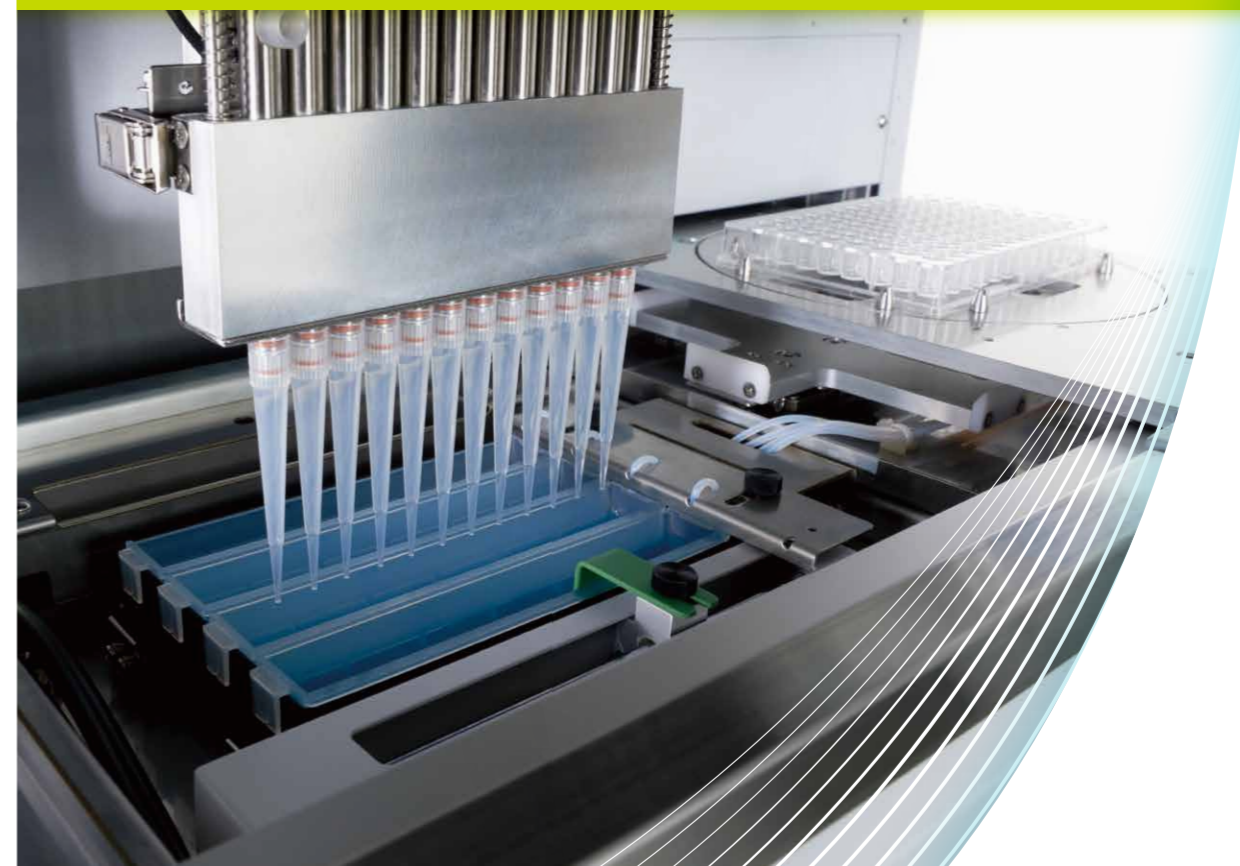


[www.nichiryo.co.jp/en/](http://www.nichiryo.co.jp/en/)

# NICHIRYO PRODUCT LINE-UP

PIPETTE / DISPENSER / CUSTOM MADE & OEM

## 2023-



Distributor

## NICHIRYO CO.,LTD.

### Tokyo Office

PMO Kandaiwamoto-cho II 4F, 2-2-4 Iwamoto-cho  
Chiyoda-ku, Tokyo 101-0032 Japan.  
TEL. +81-3-5829-4539 FAX. +81-3-5829-4504

✉ [info@nichiryo.co.jp](mailto:info@nichiryo.co.jp)

0102132023



ISO 9001:2015 認証取得  
ISO 14001:2015 認証取得



Our calibration service center uses ISO/IEC 17025 (IS Q 17025) as accreditation criteria and is accredited by JCSS which is operating an accreditation scheme in accordance with ISO/IEC 17025. The accreditation body (JA) Japan operating JCSS has signed Mutual Recognition Arrangement (MRA) of Asia Pacific Laboratory Accreditation Cooperation (APLAC) and International Laboratory Accreditation Cooperation (ILAC).  
Our calibration service center is a JCSS accredited laboratory corresponding to international MRA. The accreditation number of our calibration service center is JCSS0280.

We will continue to contribute in the endeavor to make a better society through supporting our customers in their business solutions.

Ever since establishment in 1944, Nichiryo Co.,LTD. has been contributing to society as a liquid handling device manufacturer through supporting customer prosperity.

Today, the Nichiryo liquid handling technology supports customers worldwide in various fields from life science to clinical laboratories.

We will pursue further global operations to bond a profound partnership with customers by offering proactive solutions with "Challenge, Creation and Cooperation".

President **Yoshinori Ito**



### ▶ Corporate Identity

Mutual prosperity with environment, life and sustainable development. Nichiryo as a faithful partner, promise to provide reliable products, service and solutions to all researchers.

### CONCEPT

「i」like human being means Nichiryo always connects with customers in their trust. It also looks like a flowing movement and a broad expanse. We will keep moving toward the future. Adopting green color shows we always devote ourselves to being an environment conscious company.



### ▶ Guidelines for Action

- ① **Challenge** ..... Always making efforts to achieve the high goal.
- ② **Creation** ..... Thinking differently. Creating innovative products.
- ③ **Cooperation** ..... Being always aware of building a cohesive team.

	05	Nichipet Air	
	07	Nichipet Air -Multi Channel- <b>NEW</b>	
	09	Nichipet Premium LT	
	10	Nichipet Premium LT S-PAC	
	11	Nichipet Premium	
	12	Nichipet Premium S-PAC	
	13	Nichipet EX Plus II	
	14	Chemical resistance of Perfluoro rubber O-ring	
<b>PIPETTE</b>	15	Nichipet EX II	
	16	Nichipet EX II S-PAC	
	17	NICHIRYO Le	
	18	Nichipet EX II MULTI	
	19	Nichipet F II & V II / Nichipet ECO	
	20	MODEL 3100 / MODEL 5100	
	21	Premium Tip	
	22	Premium Filter Tip / Smart Pack	
		23	MODEL 8100
		24	Nichimate Stepper
<b>DISPENSER</b>	25	MODEL 2100DG / MODEL 8800	
	26	Pipette Mate NEO	
	27	ACCUPENSER JR. / DISPET	
	28	DISPET EX II / DISPET Mini	
<b>ACCESSORY</b>	29	ACCESSORY	
<b>CUSTOM MADE &amp; OEM</b>	30	Custom-made Pipettes / NSS-1000 II Basic	

- To ensure safe and proper use of our products and to avoid harm to people and property, please make sure to carefully read and fully understand the "Safety Precautions" (especially the "Cautions" section) before use. If anything is unclear, please contact us.
- For accidents or harm caused by misuse and altering of the products without Nichiryo's permission, we will not be held responsible.
- The specifications, usage and designs are as of February 2023.
- The values of accuracy and precision are made with distilled water at room temperature 22°C-23°C.
- Specifications of instruments and optional accessories as well as the contents of the accessory sets are subject to change without notice.
- The products in this catalogue have been photographed without warning labels.
- Windows® is a registered trademark of American Microsoft Company. Pentium® is a registered trademark of American Intel Company.

## Calibration and maintenance service

In order to maintain products in the best condition, we provide calibration service at JCSS accredited laboratory corresponding to international MRA.

■ Products which can be calibrated with JCSS accreditation criteria.

- Nichipet Series
- NICHIRYO Le

■ Certificate of JCSS and MRA



■ Ex. JCSS calibration certificate



Our calibration service center uses ISO/IEC 17025 (JIS Q 17025) as accreditation criteria and is accredited by JCSS which is operating an accreditation scheme in accordance with ISO/IEC 17025. The accreditation body (IA Japan) operating JCSS has signed Mutual Recognition Arrangement (MRA) of Asia Pacific Laboratory Accreditation Cooperation (APLAC) and International Laboratory Accreditation Cooperation (ILAC). Our calibration service center is a JCSS accredited laboratory corresponding to international MRA. The accreditation number of our calibration service center is JCSS0280.

## 5 year warranty for Nichipet Premium

1. The 5-year warranty is only valid when the 5-year warranty registration form is completed and returned to Nichiryo.
2. The 5-year warranty does not cover defects caused by excessive wear and tear or damage due to shipping, accident, abuse, misuse, or usage not in accordance with instruction manual, or damage caused by liquid permeation in the nozzle cone.
3. If you have any questions, please contact local distributor or Nichiryo. Following is contact information for Nichiryo, Japan.

**e-mail : i-sales@nichiryo.co.jp**

\* Above conditions are subject to change without any notice.

## NICHIRYO Dream Bank

You can visit own member page to see Dream Bank point summary, to add your point, to redeem Nichiryo items and to receive other various services. In addition, you can receive member campaign information and other special message from Nichiryo.

**Points redemption** You can get free items from wide range of selections by redeeming Dream Bank points.



**Register now!** From here ▶ <https://www.nichiryo.co.jp/en/dreambank/>

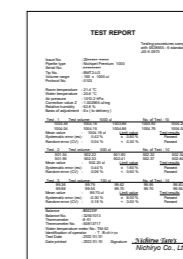
## Quality Assurance System

### Quality Assurance System and Product management

Based on dispenser technology that has been cultivated since our establishment in 1944, the history of Nichiryo's pipettes started from the first micropipette "Justor" launched in 1975, and now it keeps evolving further as "Nichipet series" under ISO9001-based quality assurance system in addition to considerable technological and sales experiences.

Nichiryo is certified according to environmental management system standard ISO14001 of International Organization for Standardization.

Nichiryo is keenly aware that the global environment protection and the pollution prevention are the most important tasks through all business activities and incidental services, and we fulfill our responsibilities to the society and regions by environmental protection activities.



### 1. Quality Assurance System

Nichiryo is accredited with quality management system standard ISO 9001 (JIS Q 9001:2000) certification, and responsibly execute manufacturing and quality control of our products. We maintain our quality assurance system to the high level for our products and services that satisfies users.

### 2. Product Standard and Performance Test

Nichiryo a member of the drafting committee of Japan Industrial Standards JIS K 0970 (Piston operated micro-volumetric apparatus) for the standardization of pushbutton type pipettes enacted in 1989, Nichiryo develops pipettes based on this standard. In addition, the performance test by international standard ISO8655 (Piston operated volumetric apparatus) is executed by the customer's demand.



### 3. Traceability Management

Nichiryo guarantees the accuracy performance of products systematically with calibration traceability to clarify the accuracy of the measured value of Nichiryo's reference standard apparatus, such as the balances, weights, and thermometers, to agree with the national measurement standard. Nichiryo manages pipettes by the serial number, and to facilitate the traceability of them, we have constructed the consistent record system from manufacturing to repair in our company.



Among the world's lightest Micro Pipettes

# Nichipet<sup>®</sup> Air

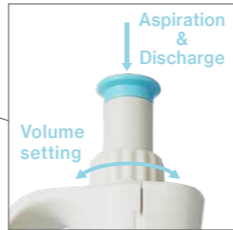
New evolution for world-class light weight, accuracy, and precision.



Volume adjustment by the exclusive jig is only have to set the volume into the scale marks.



Up to 70% reduction in stroke load pressure compared with conventional models.



Volume setting rotator is independent from the push button. Avoiding the volume shift during pipetting.



The shape to fit the hands based on the ergonomics.



The volume can be checked during pipetting.



Keeps the same durability as previous model and reduce the weight as 56% at maximum. Operability is improved with compact design. Approximate 70g. Fully autoclavable.



\*This image is 20 μL  
In order to discharge the set dispensing amount, maximum volume range of 2μL, 10μL and 20μL have high-performance blow-out function.



Removable with easy rotating  
One-touch removable and can be used for a thin test-tube.

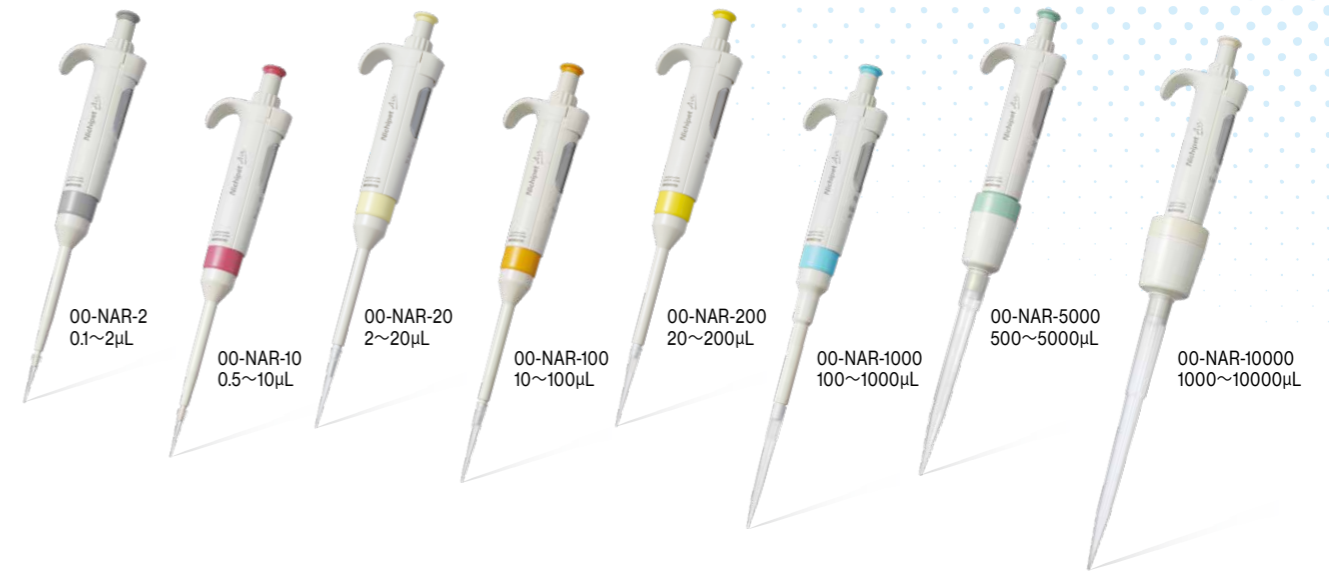


The pipette volume (Cat. No.) is recognized in one glance by volume notation of 3 positions.

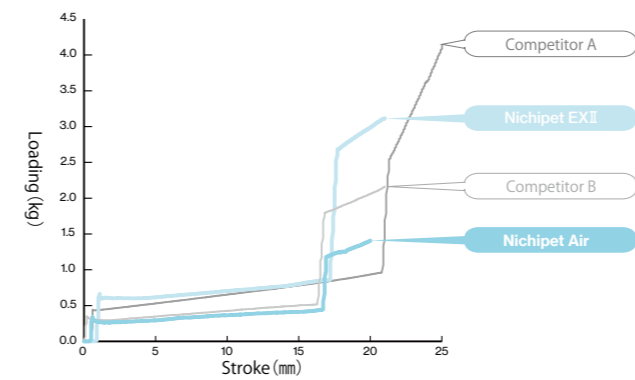
■ In order to reduce fatigue during long-term use, significant weight reduction and stroke load reduction have been achieved.

■ The entire body is autoclaved (121° C, 20 minutes) with possible durability and the highest level of accuracy and repeatability.

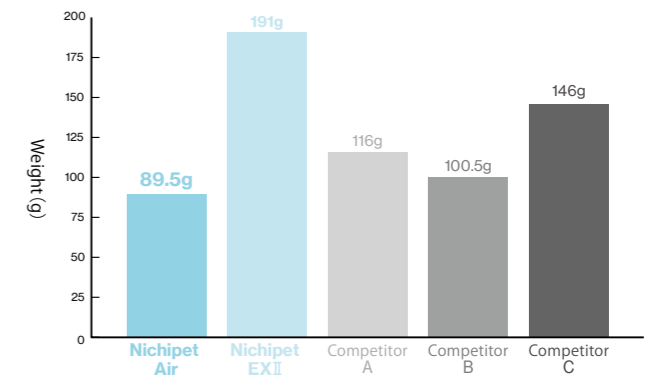
## Product lineup (8 colors)



## Stroke loading comparison with competitors (1000μL)



## Weight comparison with competitors (10000μL)



## Specifications

Cat. No	Volume Setting	Volume range(μL)	Increments(μL)	Usable tips
00-NAR-2 (Gray)	Digital Setting	0.1~2	0.002	BMT2-UT/UTWR/UTWRB, FUT/FUTRB
00-NAR-10 (Pink)		0.5~10	0.01	
00-NAR-20 (Cream)		2~20	0.02	BMT2-SG/SGR/SGRB, FSG/FSGRB
00-NAR-100 (Orange)		10~100	0.1	BMT2-SG/SGR/SGRB, FSE/FSERB
00-NAR-200 (Yellow)		20~200	0.2	BMT2-SG/SGR/SGRB, FAG/FAGRB
00-NAR-1000 (Blue)		100~1000	1	BMT2-LG/LGR/LGRB, FLG/FLGRB
00-NAR-5000 (Green)		500~5000	5	BMT2-X/XR/XRB
00-NAR-10000 (White)		1000~10000	10	BMT2-ZS/ZSR/ZSRB*

\*Exclusive tip for 00-NAR-10000. \*See p.21-22 for tip selection.

## Accuracy and Precision

Cat. No	Volume(μL)	Accuracy (%)	Precision (%)	Cat. No	Volume(μL)	Accuracy (%)	Precision (%)
00-NAR-2 (Gray)	0.2	±12.0*	≤6.0*	00-NAR-200 (Yellow)	20	±1.8	≤0.7
	1	±2.5	≤1.5		100	±1.0	≤0.3
	2	±1.4	≤0.7		200	±0.6	≤0.2
00-NAR-10 (Pink)	1	±2.5	≤1.8	00-NAR-1000 (Blue)	100	±1.0	≤0.6
	5	±1.5	≤0.8		500	±0.8	≤0.2
	10	±1.0	≤0.4		1000	±0.6	≤0.2
00-NAR-20 (Cream)	2	±3.0	≤1.5	00-NAR-5000 (Green)	500	±2.0	≤0.6
	10	±1.2	≤0.6		2500	±0.7	≤0.25
	20	±1.0	≤0.3		5000	±0.5	≤0.15
00-NAR-100 (Orange)	10	±3.0	≤1.0	00-NAR-10000 (White)	1000	±2.0	≤0.6
	50	±1.0	≤0.3		5000	±0.8	≤0.2
	100	±0.8	≤0.2		10000	±0.5	≤0.15

\*Each accuracy and precision are the values which come from measuring with our compatible tip.  
\*The AC and CV of NAR-2 below 0.2 μL and NAR-10 below 1 μL depend on the sampling skill and the sampling condition where pipettes are used.

Among the world's lightest Micro Pipettes

# Nichipet<sup>®</sup> Air -Multi Channel-

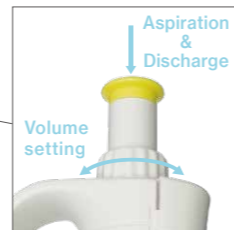
Multi channel model of 'Nichipet Air' among the world's lightest pipette with world class Accuracy and Precision.



Volume adjustment by the exclusive jig is only have to set the volume into the scale marks.



Up to 50% reduction in stroke load pressure compared with conventional models.



Volume setting rotator is independent from the push button. Avoiding the volume shift during pipetting.



The shape to fit the hands based on the ergonomics.



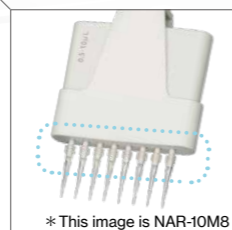
The volume can be checked during pipetting.



Keeps the same durability as previous model and reduce the weight as 20% at maximum. Operability is improved with compact design. Fully autoclavable.

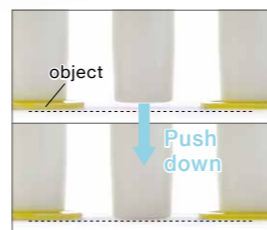


The pipette volume (Cat. No.) is recognized in one glance by volume notation of 4 positions.



\* This image is NAR-10M8

In order to discharge the set dispensing amount, maximum volume range of 10 μL have high-performance blow-out function.



This function improves attachment of the tips from the rack.

- In order to reduce fatigue during long-term use, significant weight reduction and stroke load reduction have been achieved.
- The entire body is autoclaved (121° C, 20 minutes) with possible durability and the highest level of accuracy and repeatability.

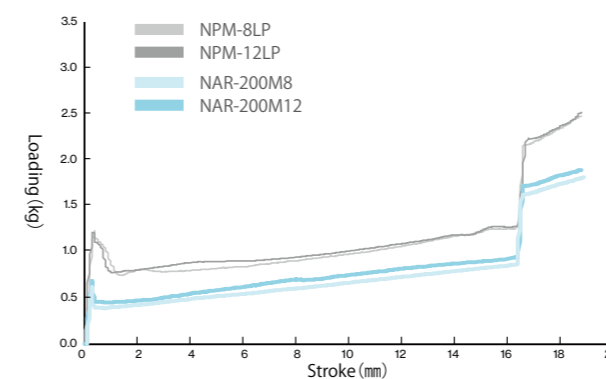
## Product lineup (4 colors)



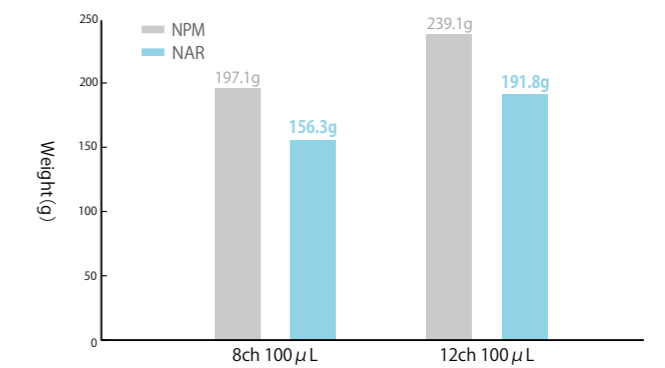
00-NAR-10M8 0.5~10μL  
00-NAR-100M8 10~100μL  
00-NAR-200M8 20~200μL  
00-NAR-300M8 30~300μL

00-NAR-10M12 0.5~10μL  
00-NAR-100M12 10~100μL  
00-NAR-200M12 20~200μL  
00-NAR-300M12 30~300μL

## Stroke loading comparison in 'Nichipet' (200 μL)



## Weight comparison in 'Nichipet' (100 μL)



## Specifications

Cat. No	Channel	Volume Setting	Volume range(μL)	Increments(μL)	Usable tips
00-NAR-10M8 (●Pink)	8	Digital Setting	0.5 - 10	0.01	BMT2-UT / UTWR / UTWRB. FUT / FUTRB
00-NAR-100M8 (●Orange)			10 - 100	0.1	BMT2-SG / SGR / SGRB. FSE / FSERB
00-NAR-200M8 (●Yellow)			20 - 200	0.2	BMT2-SG / SGR / SGRB. FAG / FAGRB
00-NAR-300M8 (●White)			30 - 300	1	BMT2-K/KR/KRB
00-NAR-10M12 (●Pink)	12	Digital Setting	0.5 - 10	0.01	BMT2-UT / UTWR / UTWRB. FUT / FUTRB
00-NAR-100M12 (●Orange)			10 - 100	0.1	BMT2-SG / SGR / SGRB. FSE / FSERB
00-NAR-200M12 (●Yellow)			20 - 200	0.2	BMT2-SG / SGR / SGRB. FAG / FAGRB
00-NAR-300M12 (●White)			30 - 300	1	BMT2-K/KR/KRB

\*See p.21-22 for tip selection.

## Accuracy and Precision

Cat. No	Volume(μL)	Accuracy(%)	Precision(%)	Cat. No	Volume(μL)	Accuracy(%)	Precision(%)
10 μL (00-NAR-10M8) (00-NAR-10M12)	1	±8.0*	≤5.0*	200 μL (00-NAR-200M8) (00-NAR-200M12)	20	±3.0	≤1.5
	5	±4.0	≤2.0		100	±1.0	≤0.7
	10	±2.0	≤1.0		200	±0.8	≤0.3
100 μL (00-NAR-100M8) (00-NAR-100M12)	10	±3.0	≤2.0	300 μL (00-NAR-300M8) (00-NAR-300M12)	30	±3.0	≤1.0
	50	±1.0	≤0.8		150	±1.0	≤0.5
	100	±0.8	≤0.3		300	±0.8	≤0.3

\*Each accuracy and precision are the values which come from measuring with our compatible tip.

\*The AC and CV of NAR-10M8 and 10M12 below 1 μL depend on the sampling skill and the sampling condition where pipettes are used.

Autoclavable Micro Pipette

# Nichipet® Premium LT

Innovation in "Fatigue-Free" & "Comfort"

5-year warranty



This will not be worn out within the clean bench work and be enlarged easy to read the volume.

ceramic plunger  
Non corrosive ceramic used in the plunger. (100µL - 1000µL)

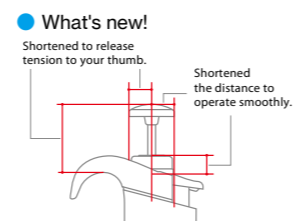
Nozzle top has highly abrasion tolerant. ( 2µL - 1000µL )

Hyper blower system improves dispensing efficiency, especially on 2µL and on 10µL dispensing.

New Feature  
Keeps the same durability as Nichipet Premium and reduces less 70% stroke loading at maximum. Mitigates fatigue and stress from heavy workload.

New material used for 4 notches-lock improves its strength which minimizes the lever shifting and avoids drifting and wearing.

Material used has high tolerance to solvents and to drop impact. It is fully autoclavable as well.



- The durability still is same as Nichipet Premium has. Stroke loading of Nichipet Premium LT becomes less 70% at maximum than before.
  - Hand temperature doesn't permeate through the body of the pipette which works to avoid affecting volume measurement. ( Patented )
- \*All features of Nichipet Premium are available on Nichipet Premium LT.

- Since the volume indicator is made of glass, ultraviolet germicidal of the clean bench will not make it cloud.
- From prolonged irradiation, the surface layer of plastic may deteriorate or discolor, but its performance is not affected.

## Specifications

Cat. No	Volume Setting	Volume range(µL)	Increments(µL)	Usable tips
00-NLT-2	Digital Setting	0.1 - 2	0.002	BMT2-UT/UTWR/UTWRB, FUT/FUTRB
00-NLT-10		0.5 - 10	0.01	BMT2-SSW/SSWR/SSWRB, FSS/FSSRB
00-NLT-20		2 - 20	0.02	BMT2-SG/SGR/SGRB, FSG/FSGRB
00-NLT-100		10 - 100	0.1	BMT2-SG/SGR/SGRB, FSE/FSERB
00-NLT-200		20 - 200	0.2	BMT2-SG/SGR/SGRB, FAG/FAGRB
00-NLT-1000		100 - 1000	1	BMT2-LG/LGR/LGRB, FLG/FLGRB

\*See p.21-22 for tip selection.

## Accuracy and Precision

Cat. No	Volume(µL)	Accuracy (%)	Precision (%)	Cat. No	Volume(µL)	Accuracy (%)	Precision (%)
00-NLT-2	0.2	±12.0*	≤6.0*	00-NLT-100	10	±2.0	≤1.0
	1	±5.0	≤2.5		50	±1.0	≤0.3
	2	±3.0	≤1.0		100	±0.8	≤0.3
00-NLT-10	1	±4.0*	≤3.0*	00-NLT-200	20	±1.0	≤0.5
	5	±1.0	≤1.0		100	±0.8	≤0.3
	10	±1.0	≤0.5		200	±0.8	≤0.2
00-NLT-20	2	±5.0	≤3.0	00-NLT-1000	100	±1.0	≤0.5
	10	±1.0	≤1.0		500	±0.8	≤0.3
	20	±1.0	≤0.4		1000	±0.7	≤0.2

\*Each accuracy and precision are the values which come from measuring with our compatible tip.  
\*The AC and CV of NLT-2 below 0.2µL and NLT-10 below 1µL depend on the sampling skill and the sampling condition where pipettes are used.

Nichiryo's quality starter packages

## Nichipet Premium LT S-PAC

- Package type of 3 selected Pipettes with racked -Tips.
- Ready-to-start packages with 3 sizes of pipettes to perform high AC and CV pipetting.
- 3 packages are available to cover wide range of volume.



Nichiryo Tube Opener (code:00-NTO)  
"Easier" and "safer" to open tube lid with holding pipette

- Attached on grip end, 0.5, 1.5 mL tube and screw cap can be opened easily.
- \*Compatible with Nichipet Premium LT (2-1000µL) and Nichipet EX II (2-1000µL)

## Nichipet Premium LT S-PAC

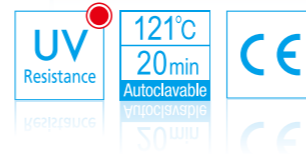
Description	Cat. No	Content
Nichipet Premium LT S-PAC A	00-SP-AL	NLT-10, NLT-100, NLT-1000 BMT2-SSWR (0.5~10 µL), BMT2-SGR (2~200 µL), BMT2-LGR (100~1000 µL), NTO
Nichipet Premium LT S-PAC B	00-SP-BL	NLT-20, NLT-200, NLT-1000 BMT2-SGR (2~200 µL) × 2, BMT2-LGR (100~1000 µL), NTO
Nichipet Premium LT S-PAC H	00-SP-HL	NLT-2, NLT-10, NLT-100 BMT2-UTWR (0.1~10 µL) × 2, BMT2-SSWR (0.5~10 µL), BMT2-SGR (2~200 µL), NTO

Autoclavable Micro Pipette

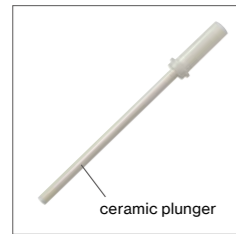
# Nichipet<sup>®</sup> Premium

5 years warranty is proof of high durability.

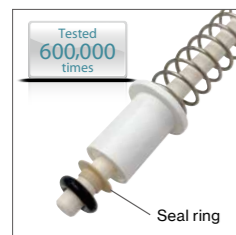
5-year warranty



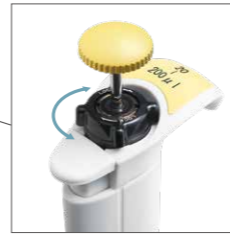
Enlarged and easy to read counter display for volume setting.



Non corrosive ceramic used in the plunger. ( 100 $\mu$ L - 10000 $\mu$ L )



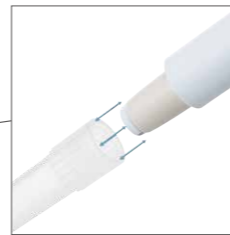
Seal ring for the Premium is tested dispensing / aspirating 600,000 times. Non-greased plunger makes it easy to maintain. ( 2 $\mu$ L - 200 $\mu$ L ) The test was conducted by Nichiryo. The test result may vary with condition of usage.



New material used for 4 notch-lock improves its strength, which minimizes the lever shift from the original position.

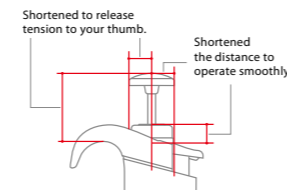


Materials used for pipette body have high tolerance to solvents and drop impact.



Nozzle top has highly abrasion tolerant. ( 2 $\mu$ L - 1000 $\mu$ L )

What's new!



■ Hand temperature doesn't permeate through the body of the pipette which works to avoid affecting volume measurement. ( Patented )

\*All features of Nichipet EXII are available on Nichipet Premium.

- Since the volume indicator is made of glass, ultraviolet germicidal of the clean bench will not make it cloud.
- From prolonged irradiation, the surface layer of plastic may deteriorate or discolor, but its performance is not affected.

Specifications

Cat. No	Volume Setting	Volume range( $\mu$ L)	Increments( $\mu$ L)	Usable tips
00-NPP-2	Digital Setting	0.1 - 2	0.002	BMT2-UT/UTWR/UTWRB, FUT/FUTRB
00-NPP-10		0.5 - 10	0.01	BMT2-SSW/SSWR/SSWRB, FSS/FSSRB
00-NPP-20		2 - 20	0.02	BMT2-SG/SGR/SGRB, FSG/FSGRB
00-NPP-100		10 - 100	0.1	BMT2-SG/SGR/SGRB, FSE/FSERB
00-NPP-200		20 - 200	0.2	BMT2-SG/SGR/SGRB, FAG/FAGRB
00-NPP-1000		100 - 1000	1	BMT2-LG/LGR/LGRB, FLG/FLGRB
00-NPP-5000		1000 - 5000	10	BMT2-X/XR/XRB
00-NPP-10000		1000 - 10000	10	BMT2-Z/ZR/ZRB

\*See p.21-22 for tip selection.

Accuracy and Precision

Cat. No	Volume( $\mu$ L)	Accuracy (%)	Precision (%)	Cat. No	Volume( $\mu$ L)	Accuracy (%)	Precision (%)
00-NPP-2	0.2	$\pm 12.0^*$	$\le 6.0^*$	00-NPP-200	20	$\pm 1.0$	$\le 0.5$
	1	$\pm 5.0$	$\le 2.5$		100	$\pm 0.8$	$\le 0.3$
	2	$\pm 3.0$	$\le 1.0$		200	$\pm 0.8$	$\le 0.2$
00-NPP-10	1	$\pm 4.0^*$	$\le 3.0^*$	00-NPP-1000	100	$\pm 1.0$	$\le 0.5$
	5	$\pm 1.0$	$\le 1.0$		500	$\pm 0.8$	$\le 0.3$
	10	$\pm 1.0$	$\le 0.5$		1000	$\pm 0.7$	$\le 0.2$
00-NPP-20	2	$\pm 5.0$	$\le 3.0$	00-NPP-5000	1000	$\pm 1.0$	$\le 0.3$
	10	$\pm 1.0$	$\le 1.0$		2500	$\pm 0.8$	$\le 0.3$
	20	$\pm 1.0$	$\le 0.4$		5000	$\pm 0.6$	$\le 0.2$
00-NPP-100	10	$\pm 2.0$	$\le 1.0$	00-NPP-10000	1000	$\pm 2.0$	$\le 0.4$
	50	$\pm 1.0$	$\le 0.3$		5000	$\pm 0.8$	$\le 0.3$
	100	$\pm 0.8$	$\le 0.3$		10000	$\pm 0.4$	$\le 0.2$

\*Each accuracy and precision are the values which come from measuring with our compatible tip.

\*The AC and CV of NPP-2 below 0.2 $\mu$ L and NPP-10 below 1 $\mu$ L depend on the sampling skill and the sampling condition where pipettes are used.

Nichiryo's quality starter packages

## Nichipet Premium S-PAC

- Package type of 3 selected Pipettes with racked -Tips.
- Ready-to-start packages with 3 sizes of pipettes to perform high AC and CV pipetting.
- 3 packages are available to cover wide range of volume.



Nichipet Premium

3 pcs

Racked Tip

3 or 4 racks

Tube Opener

3 pcs



Nichiryo Tube Opener (code:00-NTO)

"Easier" and "safer" to open tube lid with holding pipette



■ Attached on grip end, 0.5, 1.5 mL tube and screw cap can be opened easily.

\*Compatible with Nichipet Premium ( 2-1000 $\mu$ L ) and Nichipet EXII ( 2-1000 $\mu$ L )

### Nichipet Premium S-PAC

Description	Cat. No	Content
Nichipet Premium S-PAC A	00-SP-AP	NPP-10, NPP-100, NPP-1000 BMT2-SSWR (0.5~10 $\mu$ L), BMT2-SGR (2~200 $\mu$ L), BMT2-LGR (100~1000 $\mu$ L), NTO
Nichipet Premium S-PAC B	00-SP-BP	NPP-20, NPP-200, NPP-1000 BMT2-SGR (2~200 $\mu$ L) $\times$ 2, BMT2-LGR (100~1000 $\mu$ L), NTO
Nichipet Premium S-PAC H	00-SP-HP	NPP-2, NPP-10, NPP-100 BMT2-UTWR (0.1~10 $\mu$ L) $\times$ 2, BMT2-SSWR (0.5~10 $\mu$ L), BMT2-SGR (2~200 $\mu$ L), NTO

Solvent Resistant Nichipet EX II

# Nichipet® EX Plus II

Chemical Resistant Model of Nichipet Series



- Advanced durability against organic solvent dispensing.
  - ▷PTFE (Fluorine resin) in the air tight chamber of the instrument.
  - ▷A Perfluoro rubber O-ring with low cubical expansion in the air tight parts.
  - ▷All models have plungers made in materials resistant to organic solvents.

- Hyper Blower System; a longer push stroke from the second stop position, to improve dispensing efficiency. (2μL, 10μL)
- Easy-Calibration function provides simple lab calibration.
- The one-touch locking mechanism makes it easy to lock the sample volume.

\*All features of Nichipet EXII are available on Nichipet EXPlusII.

- Since the volume indicator is made of glass, ultraviolet germicidal of the clean bench will not make it cloud.
- From prolonged irradiation, the surface layer of plastic may deteriorate or discolor, but its performance is not affected.

## Specifications

Cat. No	Volume setting	Volume range(μL)	Increments (μL)	Usable tips
00-NPLO2-2	Digital setting	0.1 - 2	0.002	BMT2-UT/UTWR/UTWRB, FUT/FUTRB
00-NPLO2-10		0.5 - 10	0.01	BMT2-SSW/SSWR/SSWRB, FSS/FSSRB
00-NPLO2-20		2 - 20	0.02	BMT2-SG/SGR/SGRB, FSG/FSGRB
00-NPLO2-100		10 - 100	0.1	BMT2-SG/SGR/SGRB, FSE/FSERB
00-NPLO2-200		20 - 200	0.2	BMT2-SG/SGR/SGRB, FAG/FAGRB
00-NPLO2-1000		100 - 1000	1	BMT2-LG/LGR/LGRB, FLG/FLGRB
00-NPLO2-5000		1000 - 5000	10	BMT2-X/XR/XRB
00-NPLO2-10000		1000 - 10000	10	BMT2-Z/ZR/ZRB

\*See p.21-22 for tip selection.

## Accuracy and Precision

Cat. No	Volume(μL)	Accuracy(%)	Precision(%)	Cat. No	Volume(μL)	Accuracy(%)	Precision(%)
00-NPLO2-2	0.2	±12.0*	≦6.0*	00-NPLO2-200	20	±1.0	≦0.5
	1	±5.0	≦2.5		100	±0.8	≦0.3
	2	±3.0	≦1.0		200	±0.8	≦0.2
00-NPLO2-10	1	±4.0*	≦3.0*	00-NPLO2-1000	100	±1.0	≦0.5
	5	±1.0	≦1.0		500	±0.8	≦0.3
	10	±1.0	≦0.5		1000	±0.7	≦0.2
00-NPLO2-20	2	±5.0	≦3.0	00-NPLO2-5000	1000	±1.0	≦0.3
	10	±1.0	≦1.0		2500	±0.8	≦0.3
	20	±1.0	≦0.4		5000	±0.6	≦0.2
00-NPLO2-100	10	±2.0	≦1.0	00-NPLO2-10000	1000	±2.0	≦0.4
	50	±1.0	≦0.3		5000	±0.8	≦0.3
	100	±0.8	≦0.3		10000	±0.4	≦0.2

\*Each accuracy and precision are the values which come from measuring with our compatible tip.

\*The AC and CV of NPLO2-2 below 0.2 μL and NPLO2-10 below 1 μL depend on the sampling skill and the sampling condition where pipettes are used.

\*The Nichipet EX PlusII is made of parts resistant to organic solvents which makes it more durable than previous pipettes in environments with organic solvents. However, it does not guarantee accuracy of dispensing organic solvents.

\*As the body of the Nichipet EX PlusII is not resistant to organic solvents, make sure it does not come in contact with the organic solvents.

## The chemical resistance of Perfluoro rubber O-ring

▷A perfluoro rubber O-ring is installed in Nichipet EX plusII.

▷The volume growth of Perfluoro rubber against acid, alkalis, ammonia water, ester, furan and amine is small.

A : Volume expansion rate below 5%	.....	No problem at all
B : Volume expansion rate 5% - 20%	.....	No problem
C : Volume expansion rate 20% - 50%	.....	Possible with some conditions
D : Volume expansion rate over 50%	.....	Nonusable

Chemicals	Temperature	Test days	Perfluoro	Fluorine rubber normal O-ring	Chemicals	Temperature	Test days	Perfluoro	Fluorine rubber normal O-ring
Inorganic acid & Organic acid					Ketone, Ester, Ether				
Glacial acetic acid	40°C	21	A	C	Acetone	40°C	21	B	D
Acetic anhydride	40°C	21	A	C	Methyl ethyl ketone	40°C	21	A	D
Inorganic alkalies					Methyl isobutyl ketone	40°C	21	B	D
28% Ammonia water	40°C	21	A	D	Isophorone	40°C	21	A	D
Furan & Aldehyde					Diacetone alcohol	40°C	21	A	C
Tetrahydrofuran	40°C	21	C	D	gamma - Butyrolactone	40°C	21	A	C
2-Methyl Tetrahydrofuran	40°C	21	B	D	Diethylene carbonate	40°C	21	A	D
Acetaldehyde	25°C	21	B	D	Acetylacetone	40°C	21	A	D
Acetophenone	40°C	21	A	C	Methyl formate	25°C	21	B	D
Inclusive nitrogen compound					Methyl acetate	40°C	21	A	D
Acrylic nitrile	40°C	21	A	C	Acetic ether	40°C	21	B	D
Ethylene diamine	40°C	21	B	D	Isoamyl acetate	40°C	21	A	D
Pyridine	40°C	21	A	C	Methyl acetoacetate	40°C	21	A	C
N,N - dimethylformamide	40°C	21	A	D	Ethyl acetoacetate	40°C	21	A	C
N,N - dimethylacetamide	40°C	21	A	D	Acrylic acids	40°C	21	A	C
N-methyl-2-pyrrolidone	100°C	7	A	D	Ethyl acrylate	40°C	21	A	D
Carbon hydride, Carbon hydride halide					Diethyl oxalate	40°C	21	A	D
Toluene	40°C	21	A	B	Triethyl phosphate	40°C	21	A	D
Xylene	40°C	21	A	B	Tricresyl phosphate	100°C	7	A	C
Chloroform	40°C	21	B	B	Diethyl ether	25°C	21	B	C
Alcohols					1,4 - dioxan	40°C	21	A	C
Methyl carbitol	40°C	21	A	B	Methyl - t - butyl ether	100°C	7	A	C
Ethyl carbitol	40°C	21	A	B					
Others, Oil, Steam									
DN cut HS-1 cutting oil	130°C	11	A	A					
O-148LCT Air craft engine oil	175°C	20	A	B					

\* For more information, please feel free to contact us.



Autoclavable Micro Pipette

# Nichipet® EXII

Best Selling Model of Nichipet Series



Volume display made of durable glass material protects the damage from UV irradiation and keep the pipette safer in clean bench even over a long time.



Designed with a lock mechanism, it is easier to adjust volume smoothly.



Materials used for pipette body have high tolerance to solvents. Non-grease designed. No need to worry about continuous autoclaving.



The ejector pipe fixed by a screw is easier to remove.



Non corrosive ceramic used in the plunger. (200μL - 10000μL)



Resin material of ejector pipe could enhance high tolerance to solvents.

- Hyper blower system, longer second-push stroke, improves dispensing efficiency. (2μL, 10μL)
- Easy and convenient single hand locking lever.
- PTFE (Fluorine resin) is used in the airtight chamber of the instrument, so the instrument keeps its air tightness and precise reproducibility for long hours.
- Filtered nozzles are used for volume models. (1000μL - 10000μL)
- Tip ejector allows for tip ejections without touching the tip.
- Tip ejector is made of plastic to avoid damaging glass tubes.

- Since the volume indicator is made of glass, ultraviolet germicidal of the clean bench will not make it cloud.
- From prolonged irradiation, the surface layer of plastic may deteriorate or discolor, but its performance is not affected.

## Specifications

Cat. No	Volume setting	Volume range (μL)	Increments(μL)	Usable tips
00-NPX2-2	Digital setting	0.1 - 2	0.002	BMT2-UT/UTWR/UTWRB, FUT/FUTRB
00-NPX2-10		0.5 - 10	0.01	BMT2-SSW/SSWR/SSWRB, FSS/FSSRB
00-NPX2-20		2 - 20	0.02	BMT2-SG/SGR/SGRB, FSG/FSGRB
00-NPX2-100		10 - 100	0.1	BMT2-SG/SGR/SGRB, FSE/FSERB
00-NPX2-200		20 - 200	0.2	BMT2-SG/SGR/SGRB, FAG/FAGRB
00-NPX2-1000		100 - 1000	1	BMT2-LG/LGR/LGRB, FLG/FLGRB
00-NPX2-5000		1000 - 5000	10	BMT2-X/XR/XRB
00-NPX2-10000		1000 - 10000	10	BMT2-Z/ZR/ZRB

\*See p.21-22 for tip selection.

## Accuracy and Precision

Cat. No	Volume(μL)	Accuracy(%)	Precision(%)	Cat. No	Volume(μL)	Accuracy(%)	Precision(%)
00-NPX2-2	0.2	±12.0*	≤6.0*	00-NPX2-200	20	±1.0	≤0.5
	1	±5.0	≤2.5		100	±0.8	≤0.3
	2	±3.0	≤1.0		200	±0.8	≤0.2
00-NPX2-10	1	±4.0*	≤3.0*	00-NPX2-1000	100	±1.0	≤0.5
	5	±1.0	≤1.0		500	±0.8	≤0.3
	10	±1.0	≤0.5		1000	±0.7	≤0.2
00-NPX2-20	2	±5.0	≤3.0	00-NPX2-5000	1000	±1.0	≤0.3
	10	±1.0	≤1.0		2500	±0.8	≤0.3
	20	±1.0	≤0.4		5000	±0.6	≤0.2
00-NPX2-100	10	±2.0	≤1.0	00-NPX2-10000	1000	±2.0	≤0.4
	50	±1.0	≤0.3		5000	±0.8	≤0.3
	100	±0.8	≤0.3		10000	±0.4	≤0.2

\*Each accuracy and precision are the values which come from measuring with our compatible tip.

\*The AC and CV of NPX2-2 below 0.2 μL and NPX2-10 below 1 μL depend on the sampling skill and the sampling condition where pipettes are used.

Nichiryo's quality starter packages

## Nichipet® EXII S-PAC

- Package type of 3 selected Pipettes with racked -Tips.
- Each package contains 3 Nichipet EXIIs, 3 sample racked tips and 3 tube openers.



## Nichipet EXII S-PAC

Description	Cat. No	Content
Nichipet EX II S-PAC A	00-SP-A2	NPX2-10, NPX2-100, NPX2-1000 BMT2-SSWR (0.5~10 μL), BMT2-SGR (2~200 μL), BMT2-LGR (100~1000 μL), NTO
Nichipet EX II S-PAC B	00-SP-BN2	NPX2-20, NPX2-200, NPX2-1000 BMT2-SGR (2~200 μL) × 2, BMT2-LGR (100~1000 μL), NTO
Nichipet EX II S-PAC H	00-SP-H2	NPX2-2, NPX2-10, NPX2-100 BMT2-UTWR (0.1~10 μL) × 2, BMT2-SSWR (0.5~10 μL), BMT2-SGR (2~200 μL), NTO

Light & Ergonomic Pipette

# NICHIRYO *Le*

Light weight and easy to use even for first-time users.

- The enlarged and stream lined grip fits well with your fingers and can be kept firmly in hand and used with much less stress.
- The user-friendly and enlarged push-button can be pressed easily and used for a long time with less risk of RSI.
- The enlarged push button makes it easy to set the volume and there is no need to lock the dial for immediate operation.



Specifications

Cat. No	Volume setting	Volume range(μL)	Increments (μL)	Usable tips
00-NLE-10	Digital setting	0.5 – 10	0.02	BMT2-SSW/SSWR/SSWRB, FSS/FSSRB
00-NLE-20		2 – 20	0.02	BMT2-SG/SGR/SGRB, FSG/FSGRB
00-NLE-100		10 – 100	0.2	BMT2-SG/SGR/SGRB, FSE/FSERB
00-NLE-200		20 – 200	0.2	BMT2-SG/SGR/SGRB
00-NLE-1000		100 – 1000	2	BMT2-LG/LGR/LGRB, FLG/FLGRB

\*See p.21-22 for tip selection.

Accuracy and Precision

Cat. No	Volume(μL)	Accuracy(%)	Precision(%)	Cat. No	Volume(μL)	Accuracy(%)	Precision(%)
00-NLE-10	1	±6.0*	≤5.0*	00-NLE-200	20	±1.2	≤1.0
	5	±2.0	≤2.0		100	±1.0	≤0.8
	10	±1.2	≤0.8		200	±0.8	≤0.6
00-NLE-20	2	±5.0	≤3.0	00-NLE-1000	100	±1.2	≤0.8
	10	±2.0	≤2.0		500	±1.0	≤0.6
	20	±1.2	≤0.8		1000	±0.7	≤0.5
00-NLE-100	10	±2.0	≤1.0	*Each accuracy and precision are the values which come from measuring with our compatible tip. *The AC and CV of NLE-10 below 1 μL depend on the sampling skill and the sampling condition where pipettes are used.			
	50	±1.2	≤0.8				
	100	±1.0	≤0.6				

Autoclavable Multi Channel Pipette

# Nichipet® EXII MULTI

Multi Channel model of Nichipet EXII  
Reduced fatigue for pipetting.

- Reduced the weight up to 30% ( in-house comparison)
- Easy maintenance
- Reduced ejector load
- Lock mechanism for volume setting
- Durable body
- Revolving handle (360°) to fixate convenient position in pipetting.

- Since the volume indicator is made of glass, ultraviolet germicidal of the clean bench will not make it cloud.
- From prolonged irradiation, the surface layer of plastic may deteriorate or discolor, but its performance is not affected.



Specifications

Cat. No	Channel	Volume setting	Volume range(μL)	Increments(μL)	Usable tips
00-NPM-8V	8	Digital setting	0.5 – 10	0.01	BMT2-UT/UTWR/UTWRB, FUT/FUTRB
00-NPM-8S			5 – 100	0.1	BMT2-SG/SGR/SGRB, FSE/FSERB
00-NPM-8L			20 – 200	0.2	BMT2-SG/SGR/SGRB, FAG/FAGR
00-NPM-8K			30 – 300	1	BMT2-K/KR/KRB
00-NPM-12V	12		0.5 – 10	0.01	BMT2-UT/UTWR/UTWRB, FUT/FUTRB
00-NPM-12S			5 – 100	0.1	BMT2-SG/SGR/SGRB, FSE/FSERB
00-NPM-12L			20 – 200	0.2	BMT2-SG/SGR/SGRB, FAG/FAGR
00-NPM-12K			30 – 300	1	BMT2-K/KR/KRB

\*See p.21-22 for tip selection.

Accuracy and Precision

Cat. No	Volume(μL)	Accuracy(%)	Precision(%)	Cat. No	Volume(μL)	Accuracy(%)	Precision(%)
00-NPM-8V	1	±8.0*	≤5.0*	00-NPM-8L	20	±3.0	≤0.6
	5	±4.0	≤2.0		100	±1.0	≤0.4
00-NPM-12V	10	±2.0	≤1.0	00-NPM-12L	200	±0.9	≤0.3
	10	±3.0*	≤2.0*		30	±3.0	≤1.0
00-NPM-8S	50	±1.0	≤0.8	00-NPM-8K	150	±1.0	≤0.5
	100	±0.8	≤0.3		300	±0.6	≤0.3

\*Each accuracy and precision are the values which come from measuring with our compatible tip.  
\*The AC and CV of NPM-8V and 12V below 1 μL and NPM-8S and 12S below 10 μL depend on the sampling skill and the sampling condition where pipettes are used.

Fixed Volume & Three Volume Micro Pipette

# Nichipet® FII & VII

- The light and slender design along with the smooth movement of the plunger reduces the operator's fatigue.
- Built-in tip ejector
- PTFE (Fluorine resin) is used in the airtight chamber of the instrument, so the instrument keeps its air tight seal and precise reproducibility for long hours.

Nichipet FII

- ▷ Suitable when only one volume is needed.
- ▷ A wide range of standard volumes from 10µL – 1000µL.
- ▷ Other volumes within the range available for special order.

Nichipet VII

- ▷ Three different volume models
- ▷ Volume change by simply turning the knob.



Specifications

Type	Cat. No	Volume setting	Volume range(µL)	Accuracy(%)	Precision(%)	Usable tips
FII	00-NPF2-10	Fixed	10	±1.2	≤0.4	BMT2-SSW/SSWR/SSWRB, FSS/FSSRB
	00-NPF2-20		20	±0.8	≤0.3	BMT2-SG/SGR/SGRB, FSG/FSGRB
	00-NPF2-25		25	±0.8	≤0.3	BMT2-SG/SGR/SGRB
	00-NPF2-30		30	±0.8	≤0.3	
	00-NPF2-50		50	±0.6	≤0.3	
	00-NPF2-100		100	±0.6	≤0.3	BMT2-SG/SGR/SGRB, FSE/FSERB
	00-NPF2-200		200	±0.6	≤0.2	BMT2-SG/SGR/SGRB, FAG/FAGRB
	00-NPF2-500		500	±0.5	≤0.2	BMT2-LG/LGR/LGRB
	00-NPF2-1000		1000	±0.5	≤0.2	BMT2-LG/LGR/LGRB, FLG/FLGRB
VII	00-NPV2-S	Three variable settings	10/20/50	±1.2 – ±0.7	≤0.6 – ≤0.3	BMT2-SG/SGR/SGRB, FSG/FSGRB
	00-NPV2-M		50/100/200	±0.7 – ±0.5	≤0.4 – ≤0.3	BMT2-SG/SGR/SGRB, FAG/FAGRB
	00-NPV2-L		200/500/1000	±0.7 – ±0.5	≤0.3 – ≤0.2	BMT2-LG/LGR/LGRB, FLG/FLGRB

\*See p.21-22 for tip selection.

Variable Volume Macro Pipette

# MODEL 3100

- Four different volume models from 1 mL to 10mL
- Light weight and slender body
- Easy to operate
- Liquid touches only disposable tip
- PTFE piston ensures complete sealing of the syringe.



Specifications

Cat. No	Volume range(mL)	Increment(mL)
00-31N-1000	0.2 – 1.0	0.1
00-31N-2000	0.4 – 2.0	0.1
00-31N-5000	1.0 – 5.0	0.5
00-31N-10000	2.0 – 10.0	0.5

● Accuracy and Precision ± 1.0% / ≤ 1.0%

Disposable tips

Cat. No	Volume range(mL)	Color	Q'ty(bag)
00-MPT-1	0.2 – 1.0	Clear	1000
00-MPT-2	0.4 – 2.0	Clear	200
00-BMT2-X	1.0 – 5.0	Clear	200
00-BMT2-Z	2.0 – 10.0	Clear	200

Glass Tip Pipette

# Nichipet® ECO

- The accuracy and precision of a micropipette with the stability and reliability of glass tips.
- The glass tip enables bias free liquid handling for endocrine disruptor's analysis.
- Four different sizes covering a wide volume range. ( 20µL – 10000µL )
- Glass tip is secured to the unit with a double O-ring design.
- Comes with a PTFE nozzle and ceramic piston.



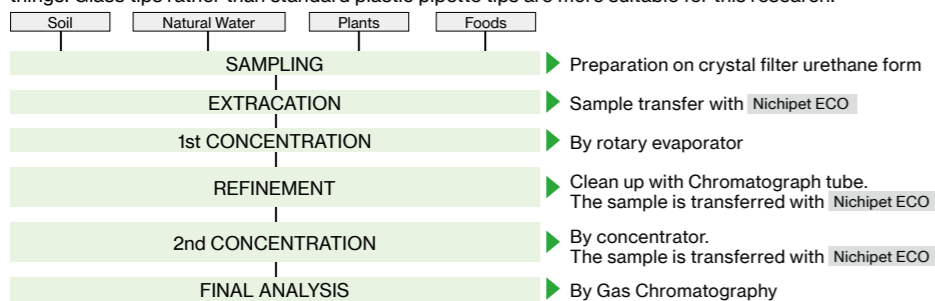
Specifications

Cat. No	Volume range(µL)	Increment(µL)	Accuracy(%)	Precision(%)	Usable tips
00-NPC-200	20 – 200	0.2	±6.0 – ±3.0	≤6.0 – ≤3.0	Glass Tip S
00-NPC-1000	100 – 1000	1.0	±5.0 – ±3.0	≤5.0 – ≤3.0	Glass Tip L
00-NPC-5000	1000 – 5000	10.0	±5.0 – ±3.0	≤5.0 – ≤3.0	Glass Tip X
00-NPC-10ML	1000 – 10000	50.0	±6.0 – ±3.0	≤6.0 – ≤3.0	Glass Tip Z

Glass tips

Cat. No	Volume range(µL)	Q'ty(box)
00-GLT-S	20 – 200	10
00-GLT-L	100 – 1000	10
00-GLT-X	1000 – 5000	10
00-GLT-Z	1000 – 10000	10

Further research into "Environmental Hormone" is strongly requested to clarify the precise cause and effect on the human system and wild living things. Glass tips rather than standard plastic pipette tips are more suitable for this research.



Three Volume Ultra Macro Pipette

# MODEL 5100

- Two models, each with three standard volume settings.
- Volume change done by placing a volume spacer in the pipette.
- Any special volume spacer between 30 to 50 mL for 5100L is available for special order.



Specifications

Cat. No	Volume setting(mL)
00-5100L	30.0    40.0    50.0

● Accuracy and Precision ± 1.0% / ≤ 1.0%

Disposable tips

Cat. No	Volume range(mL)	Q'ty(bag)
00-51TL	50.0	5

Disposable Tips

# Premium Tip

## Tip

- The fine design and finishing of the top of the tips reduce the surface tension of liquid and ensure the tip to be residue free.
- The excellent sealing and discharge ability enable high accuracy of pipetting.
- Chemical and heat resistant, for which the advanced material "Highly purified polypropylene" is used.
- Fully autoclavable. (121°C for 20 minutes) Racks can be autoclaved as well. (\*Exceeding the recommended standard for autoclaving may cause deformities)
- The tips being able to be attached directly from the racks avoids dirt and dust from getting in, thus rising the efficiency of the operations.
- DNase/RNase free (excludes X/Z series)
- UV resistant



UV Resistance  
121°C 20min Autoclavable  
RNase/DNase FREE

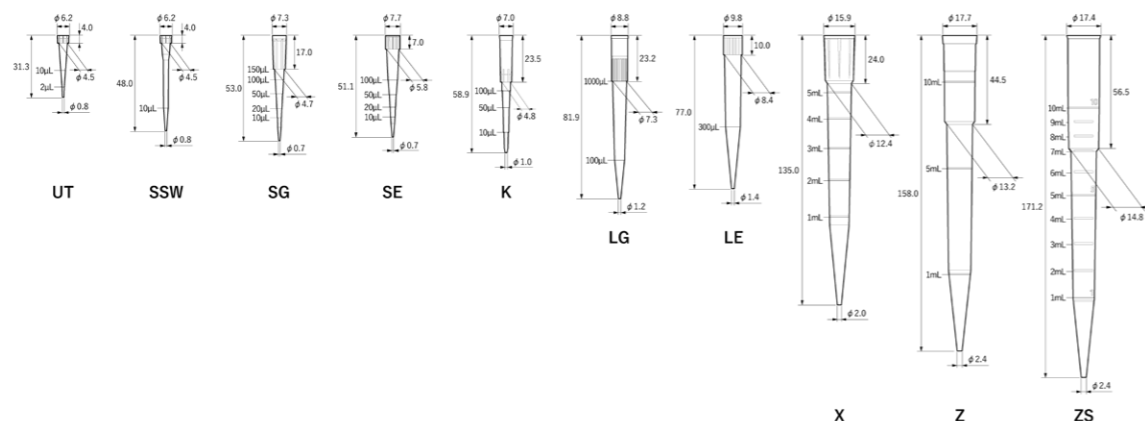
## Specifications

\* The tips are available for pipette models with in the volume range of the tip mentioned above.

Type	Cat. No.	Specification	Volume range(μL)	Color	Q'ty(box)	Usable models
UT	00-BMT2-UT	Bulk tip	0.1~10	Natural	1000	NAR-2, 10 / NAR-10M8, 10M12 NPP-2 / NLT-2 NPX-NPX2-2 / NPLO-NPLO2-2 NP7-8V, 12V / NPM-8V, 12V
	00-BMT2-UTWR	Racked tip			960 (96pcs. × 10 <sup>2</sup> /s)	
	00-BMT2-UTWRB	Racked tip (sterilized)			960 (96pcs. × 10 <sup>2</sup> /s)	
SSW	00-BMT2-SSW	Bulk tip	0.5~10	Natural	1000	NPP-10 / NLT-10 NPX-NPX2-10 / NPLO-NPLO2-10 NLE-10 / NPF2-10
	00-BMT2-SSWR	Racked tip			960 (96pcs. × 10 <sup>2</sup> /s)	
	00-BMT2-SSWRB	Racked tip (sterilized)			960 (96pcs. × 10 <sup>2</sup> /s)	
SG	00-BMT2-SG	Bulk tip	2~200	Natural	1000	NAR-20, 100, 200 / NAR-100M8, 100M12, 200M8, 200M12 NPP-20, 100, 200 / NLT-20, 100, 200 NPX-20, 100, 200 / NPLO2-20, 100, 200 NLE-20, 100, 200 / NPF2-20~200 NPV2-S, M / NP7-8S, 8L, 12S, 12L NPM-8S, 8L, 12S, 12L
	00-BMT2-SGR	Racked tip			960 (96pcs. × 10 <sup>2</sup> /s)	
	00-BMT2-SGRB	Racked tip (sterilized)			960 (96pcs. × 10 <sup>2</sup> /s)	
SE	00-BMT2-SE	Bulk tip	2~200	Natural	1000	NPX-20, 100, 200 NPLO-20, 100, 200
	00-BMT2-SER	Racked tip			960 (96pcs. × 10 <sup>2</sup> /s)	
	00-BMT2-SERB	Racked tip (sterilized)			960 (96pcs. × 10 <sup>2</sup> /s)	
K	00-BMT2-K	Bulk tip	30~300	Natural	1000	NAR-300M8, 300M12 NP7-8K, 12K NPM-8K, 12K
	00-BMT2-KR	Racked tip			960 (96pcs. × 10 <sup>2</sup> /s)	
	00-BMT2-KRB	Racked tip (sterilized)			960 (96pcs. × 10 <sup>2</sup> /s)	
LG	00-BMT2-LG	Bulk tip	100~1000	Natural	1000	NAR-1000 NPP-1000 / NLT-1000 NPX2-1000 / NPLO2-1000 NLE-1000 / NPF2-500, 1000 / NPV2-L
	00-BMT2-LGR	Racked tip			960 (96pcs. × 10 <sup>2</sup> /s)	
	00-BMT2-LGRB	Racked tip (sterilized)			960 (96pcs. × 10 <sup>2</sup> /s)	
LE	00-BMT2-LE	Bulk tip	100~1000	Natural	1000	NPX-1000 NPLO-1000
	00-BMT2-LER	Racked tip			960 (96pcs. × 10 <sup>2</sup> /s)	
	00-BMT2-LERB	Racked tip (sterilized)			960 (96pcs. × 10 <sup>2</sup> /s)	
X	00-BMT2-X	Bulk tip	1000~5000	Natural	200	NAR-5000 NPP-5000 NPX-NPX2-5000 NPLO-NPLO2-5000/11DG-5000
	00-BMT2-XR	Racked tip			100 (50pcs. × 2 <sup>2</sup> /s)	
	00-BMT2-XRB	Racked tip (sterilized)			100 (50pcs. × 2 <sup>2</sup> /s)	
Z	00-BMT2-Z	Bulk tip	1000~10000	Natural	200	NPP-10000 NPX-NPX2-10000 NPLO-NPLO2-10000
	00-BMT2-ZR	Racked tip			80 (40pcs. × 2 <sup>2</sup> /s)	
	00-BMT2-ZRB	Racked tip (sterilized)			80 (40pcs. × 2 <sup>2</sup> /s)	
ZS	00-BMT2-ZS	Bulk tip	1000~10000	Natural	200	NAR-10000
	00-BMT2-ZSR	Racked tip			80 (40pcs. × 2 <sup>2</sup> /s)	
	00-BMT2-ZSRB	Racked tip (sterilized)			80 (40pcs. × 2 <sup>2</sup> /s)	

## TIP

(measure : mm)



## Filter Tip

- Prevents cross-contamination in PCR testing.
- Suitable for virus/bacteria and RI research.
- Sterilized racked tips available for DNA free research.
- No effect on the accuracy by the inside filter.
- Efficient for avoiding carry over by cellulose acetate filters.
- DNase/RNase free



UV Resistance  
RNase/DNase FREE

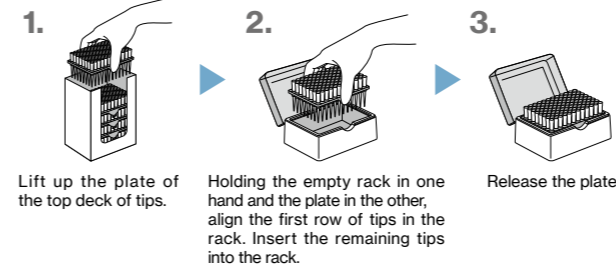
## Specifications

Type	Cat. No.	Specification	Volume range(μL)	Color	Q'ty(box)	Usable models
UT	00-BMT2-FUT	Bulk tip	0.1~10	Natural	1000	NAR-2, 10 / NAR-10M8, 10M12 NPP-2 / NLT-2 NPX-NPX2-2 / NPLO-NPLO2-2 NP7-8V, 12V / NPM-8V, 12V
	00-BMT2-FUTRB	Racked tip (sterilized)			960 (96pcs. × 10 <sup>2</sup> /s)	
SS	00-BMT2-FSS	Bulk tip	0.5~10	Natural	1000	NAR-10 NPP-10 / NLT-10 NPX-NPX2-10 / NPLO-NPLO2-10 NLE-10 / NPF2-10
	00-BMT2-FSSRB	Racked tip (sterilized)			960 (96pcs. × 10 <sup>2</sup> /s)	
SG	00-BMT2-FSG	Bulk tip	2~200	Natural	1000	NAR-20 NPP-20 / NLT-20 NPX-NPX2-20 / NPLO-NPLO2-20 NLE-20 / NPF2-20
	00-BMT2-FSGRB	Racked tip (sterilized)			960 (96pcs. × 10 <sup>2</sup> /s)	
SE	00-BMT2-FSE	Bulk tip	10~100	Natural	1000	NAR-100 / NAR-100M8, 100M12 NPP-100 / NLT-100 NPX-NPX2-100 / NPLO-NPLO2-100 NLE-100 / NPF2-100
	00-BMT2-FSERB	Racked tip (sterilized)			960 (96pcs. × 10 <sup>2</sup> /s)	
AG	00-BMT2-FAG	Bulk tip	20~200	Natural	1000	NAR-200 / NAR-200M8, 200M12 NPP-200 / NLT-200 / NPX-NPX2-200 NPLO-NPLO2-200 / NPF2-200 NPV-M / NPM-8LP, 12LP
	00-BMT2-FAGRB	Racked tip (sterilized)			960 (96pcs. × 10 <sup>2</sup> /s)	
LG	00-BMT2-FLG	Bulk tip	100~1000	Natural	1000	NAR-1000 NPP-1000 / NLT-1000 NPX-NPX2-1000 / NPLO-NPLO2-1000 NLE-1000 / NPF2-1000 / NPV2-L
	00-BMT2-FLGRB	Racked tip (sterilized)			960 (96pcs. × 10 <sup>2</sup> /s)	
LE	00-BMT2-FLE	Bulk tip	100~1000	Natural	1000	NPX-NPX2-1000 NPLO-NPLO2-1000 / NLE-1000 NPF2-1000 / NPV2-L
	00-BMT2-FLERB	Racked tip (sterilized)			960 (96pcs. × 10 <sup>2</sup> /s)	

## Smart Pack

- Easy & quick tip setting
- Eco-friendly & low-waste

### How to refill



UV Resistance  
RNase/DNase FREE

## Specifications

Type	Cat. No.	Specification	Volume range(μL)	Color	Q'ty(box)	Usable models
Smart Pack UT	00-ETS-JUTW	Refill tip	0.1~10	Natural	96pcs × 10decks	NPP-2 / NLT-2 NPX-NPX2-2 / NPLO-NPLO2-2 NP7-8V, 12V / NPM-8V, 12V
	00-ETS-JUTW10	Rack			96pcs × 10decks × 10boxes	
	00-ETS-UTWRK	Rack			5racks	
Smart Pack SG	00-ETS-JSG	Refill tip	2~200	Natural	96pcs × 5decks × 2boxes	NPP-20, 100, 200 / NLT-20, 100, 200 / NPX2-20, 100, 200 NPLO2-20, 100, 200 / NLE-20, 100, 200 NPF2-20~200 / NPV2-S, M / NP7-8S, 8L, 12S, 12L NPM-8SP, 8LP, 12SP, 12LP
	00-ETS-JSG10	Rack			96pcs × 5decks × 2 × 10boxes	
	00-ETS-SGRK	Rack			5racks	
Smart Pack LG	00-ETS-JLG	Refill tip	100~1000	Natural	96pcs × 5decks × 2boxes	NPP-1000 / NLT-1000 NPX2-1000 / NPLO2-1000 NLE-1000 / NPF2-500, 1000 / NPV2-L
	00-ETS-JLG10	Rack			96pcs × 5decks × 2 × 10boxes	
	00-ETS-LGRK	Rack			5racks	

Variable Repetitive Syringe Dispenser

# MODEL 8100

- Up to 35 variations of dispensing
- Easy single handed operation
- Easy to change volume settings and syringes.
- Suitable for dispensing viscose liquids due to the positive displacement system.
- Autoclavable syringes. ( 121°C for 20 minutes, Except SG-V, N3, Z )
- Without using O-ring, SG-V, N3 and Z are more suitable for dispensing solvents.
- Slender syringe are easier to extract liquids from vials.
- Syringes and pistons are made from PP ( N3, Z are made from PE ).



Syringes for 8100



Specifications

Cat. No	Product name
00-8100	MODEL 8100

Accuracy and Precision

syringe	dial No	1	2	3	4	5	Accuracy(%)	Precision(%)
00-SG-V	0.06mL	1μL	2μL	3μL	4μL	5μL	± 2.5	≦ 2.5
00-SG-S	0.6mL	10μL	20μL	30μL	40μL	50μL	± 1.5	≦ 1.0
00-SG-M	1.5mL	25μL	50μL	75μL	100μL	125μL	± 1.2	≦ 1.1
00-SG-N3	3mL	50μL	100μL	150μL	200μL	250μL	± 1.0	≦ 0.9
00-SG-L	6mL	100μL	200μL	300μL	400μL	500μL	± 0.9	≦ 0.8
00-SG-Y	15mL	250μL	500μL	750μL	1000μL	1250μL	± 0.8	≦ 0.8
00-SG-Z	60mL	1mL	2mL	3mL	4mL	5mL	± 1.4	≦ 1.0
Maximum number of dispenses		58	28	18	13	10		

\* Above data of SG-S and SG-M are taken with the syringe having a Nichiryo pipette tip (type TS) on the nozzle.

● Syringes

Cat. No	Description	Q'ty(bag)	Cat. No	Description	Q'ty(bag)
00-SG-V2	0.06mL syringe	100	00-SG-L	6mL syringe	100
00-SG-S	0.6mL syringe (with 100 TS tips)	100	00-SG-Y	15mL syringe	50
00-SG-M	1.5mL syringe (with 100 TS tips)	100	00-SG-Z	60mL syringe (With one adaptor)	50
00-SG-N3	3mL syringe	100	00-SG-ZA	Adaptor for 60mL syringe	1

Variable Repetitive Syringe Dispenser

# Nichimate Stepper

- 40 variations of dispensing are enabled by 8 syringes and 5 stages.
- Suitable for dispensing viscose liquids due to the positive displacement system.
- Sterilized syringes are also available.
- Syringe is made of PP and Piston is of PE. ( Piston for NS-V is made of stainless. )



Syringes for Stepper



Specifications

Cat. No	Product name
00-NSTP	Nichimate Stepper

Accuracy and Precision

syringe	dial No	1	2	3	4	5	Accuracy(%)	Precision(%)
00-NS-V	0.05mL	1μL	2μL	3μL	4μL	5μL	± 5.0	≦ 8.0
00-NS-S	0.5mL	10μL	20μL	30μL	40μL	50μL	± 1.7	≦ 1.8
00-NS-M	1.25mL	25μL	50μL	75μL	100μL	125μL	± 1.6	≦ 2.1
00-NS-N	2.5mL	50μL	100μL	150μL	200μL	250μL	± 1.2	≦ 1.7
00-NS-L	5mL	100μL	200μL	300μL	400μL	500μL	± 2.0	≦ 2.4
00-NS-X	12.5mL	250μL	500μL	750μL	1000μL	1250μL	± 1.1	≦ 1.7
00-NS-Y	25mL	0.5mL	1mL	1.5mL	2mL	2.5mL	± 1.2	≦ 1.2
00-NS-Z	50mL	1mL	2mL	3mL	4mL	5mL	± 1.5	≦ 1.7
Maximum number of dispenses		48	23	15	11	8		

\* NS-V requires use of BMT-UT tips. NS-Y/Z requires use of NS-ADP adaptor. Syringes are disposable.

● Syringes

Cat. No	Description	Q'ty(box)	Cat. No	Description	Q'ty(box)
00-NS-V	0.05mL syringe (with 100 BMT-UT tips)	100	00-NS-SB	0.5mL sterilized syringe	100
00-NS-S	0.5mL syringe	100	00-NS-MB	1.25mL sterilized syringe	100
00-NS-M	1.25mL syringe	100	00-NS-NB	2.5mL sterilized syringe	100
00-NS-N	2.5mL syringe	100	00-NS-LB	5mL sterilized syringe	100
00-NS-L	5mL syringe	100	00-NS-XB	12.5mL sterilized syringe	100
00-NS-X	12.5mL syringe	100	00-NS-ADPY	Attachment for 25mL (for 25mL Syringes / 00-NS-Y)	1
00-NS-Y	25mL syringe (with one attachment)	50	00-NS-ADPZ	Attachment for 50mL (for 50mL Syringes / 00-NS-Z)	1
00-NS-Z	50mL syringe (with one attachment)	25			

Hand-held Dispenser

# MODEL 2100DG

- Dispensing from most types of liquid containers is possible.
- Easy to use with fixed volume adjustment
- Light weight design for one-hand operation
- The glass cylinder and plunger are protected by plastic housings.



Specifications

Cat. No	Volume range(mL)	Increment(mL)	Volume readout
00-21DG-1	0.2 – 1.0	0.01	0/20 – 1/00
00-21DG-2	0.4 – 2.0	0.01	0/40 – 2/00
00-21DG-5	1.0 – 5.0	0.02	1/00 – 5/00
00-21DG-10	2.0 – 10.0	0.1	02/0 – 10/0

\*Liquid contact parts ; PTFE, Tygon®Polypropylene, Pyrex®Glass, Ceramic and Platinum Iridium.

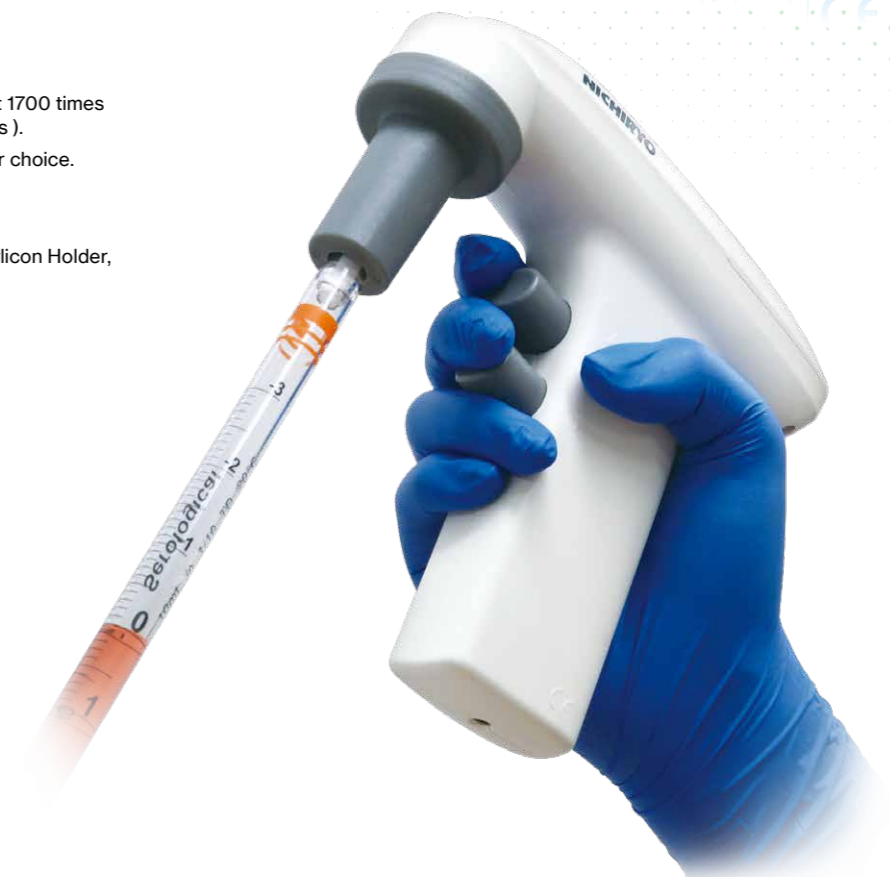
Accuracy and Precision

±1.0% / ≤0.2%

Pipette Controller

# Pipette Mate NEO

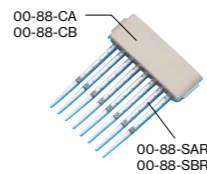
- User Friendly pipette controller, 167g only
- Long-life Lithium Ion battery is installed. About 1700 times dispensing are possible by full charge ( 4 hours ).
- Dial-typed adjustable speed controller for your choice.
- UV resistant for clean bench work.
- Self- standing type without holder.
- Fully autoclavable spare parts. ( Nosecone, Sylicon Holder, and Filter )
- Complies with CE and RoHS.



8-Channel Variable Repetitive Syringe Dispenser

# MODEL 8800

- Suitable for dispensing to 96 well micro plates.
- Six different volumes between 10µL – 100µL
- The dispensing speed can be altered.



Specifications

Cat. No	Description	Q'ty
00-8800	MODEL 8800 (cartridge A&B one each, syringe A&B eight each)	1
00-88-SAR	Syringe A (520µL)	100
00-88-SBR	Syringe B (1300µL)	100
00-88-CA	Cartridge A (for syringe A)	10
00-88-CB	Cartridge B (for syringe B)	10

Accuracy and Precision

syringe	dial No	1	2	3	Accuracy(%)	Precision(%)
Syringe A (520µL)		10µL	20µL	40µL	±2.0	≤1.2
Syringe B (1300µL)		25µL	50µL	100µL		
Maximum number of dispenses		50	25	12	Size : 285 × 82 × 23mm (with syringes set)	

Specifications

Cat. No	Description
00-PMNEO	Pipette Mate NEO
Batteries	Lithium Ion (3.6V, 600mAh)
Charger	100/240V 50/60Hz,0.2A
Filter	20mm × 0.2µm (Hydrophobic)
Pipette Types	plastic or glass from 1 to 100mL *Plastics and glass pipettes not sold by Nichiryo

Cat. No	Description
00-PM-N003	Battery cover
00-PM-N005	Head fitting
00-PM-N013	Tube holder
00-PM-N100	Filter, 0.2µm
00-PM-N024	Travel charger 5V US
00-PM-N030	Travel charger base unit
00-PM-N025	Travel charger UK adaptor*
00-PM-N026	Travel charger AU adaptor*
00-PM-N027	Travel charger EU

\*UK and AU adaptors need a travel charger base unit.

## Variable Volume Bottle Dispenser **ACCUPENSER JR.**

- The Post with scale can be laid down without altering volume settings.
- The precision parts of the glass are constructed and protected on the inside.
- The liquid contact parts are chemically resistant.
- The parts can easily be dismantled and changed.
- Liquid can be added with the funnel without changing the setting of the device.
- The extension tube with tip allows dispensing to be done without moving the device or sample bottle. Please use a PTFE (Fluorine resin) tube set with tip (sold separately) for strong acids and organic solvents.
- Autoclavable without disassembling
- The wetted parts are chemically resistant.  
Borosilicate glass, Glass, fluorocarbon polymers

\*Tube: Glass, Silicon



### Specifications

Cat. No	Volume range (mL)	Increment (mL)	Accuracy (%)	Precision (%)	Size of provided bottle	Width (mm) × high (mm)
00-AJ-1	0.2 - 1	0.05	±1.0	≦0.1	250mL	75 × 210 (165)
00-AJ-2	0.4 - 2	0.1	±1.0	≦0.1	250mL	75 × 210 (165)
00-AJ-5	1 - 5	0.1	±1.0	≦0.1	500mL	100 × 210 (165)
00-AJ-10	2 - 10	0.25	±1.0	≦0.1	1L	146 × 210 (165)

\*The bottle has threads compatible with 500mL and 1L bottles for free combinations. ( ) indicates the height when the scale post is lying down.

## Variable Volume Bottle-top Dispenser **DISPET**

- Can be attached directly to all standard reagent bottles.
- Comes with an adapter (ø22mm) for direct attachment to smaller reagent bottles. (100mL >) (not DP-5 and DP-10)
- Light weight and compact design for easy handling.
- Liquid contact parts are chemically resistant material.
- Extra tube (220mm) is included and can be cut into a more convenient size.
- The wetted parts are chemically resistant.  
Borosilicate glass, fluorocarbon polymers, Ceramic, Platinum-Iridium



### Specifications

Cat. No	Volume range (mL)	Increment (mL)	Accuracy (%)	Precision (%)	Amber bottle (option)	Width (mm) × high (mm)
00-DP-1B	0.2 - 1	0.05	±1.0	≦0.2	200mL	59 × 255
00-DP-2B	0.4 - 2	0.1	±1.0	≦0.2	200mL	59 × 255
00-DP-5B	1 - 5	0.1	±1.0	≦0.2	350mL	66 × 290
00-DP-10B	2 - 10	0.25	±1.0	≦0.2	1L	98 × 350

\*The threads for all bottle sizes are the same.  
\*Please add "B" at the end of Cat.No when a bottle is needed.

### Adapter

Cat. No	Size	Cat. No	Size	Cat. No	Size
DP-1118	18mm	DP-1124	24mm	DP-1133	33mm
DP-1119	19mm	DP-1125	25mm	DP-1138	38mm
DP-1122	22mm	DP-1128	28mm	DP-1145	45mm

## Autoclavable Bottle-top Dispenser **DISPET EX II**

- Autoclavable (121°C for 20 minutes)
- 3 sized adapters for fitting with various types of bottles.
- Chemical resistant materials are used for liquid contact parts.
- Adjustable Inlet tube for various types of bottles.
- Liquid returning mechanism for minimizing the waste of reagents.
- The wetted parts are chemically resistant.  
Borosilicate glass, fluorocarbon polymers, Ceramic, Platinum-Iridium



### Specifications

Cat. No	Volume range (mL)	Increment (mL)	Accuracy (%)	Precision (%)	Thread	Attached adapters
00-DPX2-20	0.2 - 2.0	0.05	±0.5	≦0.1	GL-45	GL-28, GL-32, GL-38
00-DPX2-50	0.5 - 5.0	0.1	±0.5	≦0.1		
00-DPX2-100	1.0 - 10.0	0.2	±0.5	≦0.1		
00-DPX2-250	2.5 - 25.0	0.5	±0.5	≦0.1		
00-DPX2-500	5.0 - 50.0	1	±0.5	≦0.1		
00-DPX2-1000	10.0 - 100.0	2	±0.5	≦0.1		

### Adapter

Cat. No	Size	Cat. No	Size
00-DPX-003A	32 / 28mm	00-DPX-003C	45 / 38mm
00-DPX-003B	45 / 32mm	00-DPX-003D	45 / 40mm

\*Numbers right side of "/" are caliber size of the bottles.

## Bottle-top Dispenser **DISPET Mini**

- Suitable for repetitively micro volume dispensing.
- Light and compact model for easy-to-carry-out.
- Chemical resistant materials are used for liquid contact parts.
- The wetted parts are chemically resistant.  
Borosilicate glass, fluorocarbon polymers, Platinum-Iridium

\*Bottles are available as optional parts.



### Specifications

Cat. No	Volume range (μL)	Accuracy (%)	Precision (%)	Thread
00-DPM-250	100 / 250	±2.0	≦0.4	GL-28
00-DPM-1000	500 / 1000	±1.0	≦0.2	GL-28
00-DPM-2000	1000 / 2000	±1.0	≦0.2	GL-28

Pipette Stand



Cat. No ..... 00-NAR-STD  
 Storing capacity ... 8pcs  
 Compatible models ... Nichipet Air\*  
 Nichipet Air -Multi Channel-  
 Nichipet Premium  
 Nichipet Premium LT  
 NICHIRYO Le



Cat. No ..... 00-MLT-STD2 (ABS)  
 Storing capacity ... 6pcs  
 Compatible models ... Nichipet premium LT  
 Nichipet Premium  
 Nichipet EX II  
 Nichipet EX Plus II  
 Nichiryo Le  
 Nichipet EX II MULTI



Cat. No ..... 00-NLE-STD (ABS)  
 Storing capacity ... 1pcs  
 Compatible models ... Nichipet premium LT  
 Nichipet Premium  
 Nichipet EX II  
 Nichipet EX Plus II  
 Nichiryo Le



Cat. No ..... 00-BM-STD  
 (Acrylic resin)  
 Storing capacity ... 6pcs  
 Compatible models ... Nichipet premium LT  
 Nichipet Premium  
 Nichipet EX II  
 Nichipet EX Plus II  
 Nichipet F II & V II

Dispenser Stand



**Variable Repetitive Syringe Dispenser MODEL 8100**

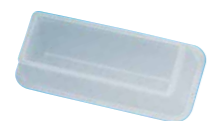
Cat. No ..... 00-8100S  
 (Acrylic resin)  
 Storing capacity 2pcs



**Ergonomically Designed Repetitive Dispenser Nichimate Stepper**

Cat. No ..... 00-NS-STD  
 (Acrylic resin)  
 Storing capacity 2pcs

Tray



Cat. No ..... 00-88-TY  
 Q'ty ..... 50pcs  
 Compatible models ... Nichipet EX II MULTI  
 MODEL 8800

Tube Opener



Cat. No ..... 00-NTO-001  
 Q'ty ..... 3pcs  
 Compatible models ... Nichipet premium LT  
 Nichipet Premium  
 Nichipet EX II  
 Nichipet EX Plus II

Volume adjustment tool



Cat. No ..... 00-NAR-AT  
 Q'ty ..... 1pcs  
 Compatible models ... Nichipet Air  
 Nichipet Air -Multi Channel-

Filter

**For NPP-1000**  
 Cat. No 00-NP-0601000  
 Q'ty ..... 10pcs



**For NPLO II -1000**  
 Cat. No ..... 00-LO2-0601000  
 Q'ty ..... 10pcs



**For NPX II -1000**  
 Cat. No 00-NX2-0601000  
 Q'ty ..... 10pcs



**For NPP,NPX II,NPLO II -5000,10000**  
 Cat. No ... 00-NX2-0615000  
 Q'ty ..... 100pcs



**For NAR-5000,10000**  
 Cat. No ... 00-NAR-F15000  
 Q'ty ..... 10pcs



CUSTOM MADE & OEM

Custom-Made products

**Custom-made Pipettes**

- Talk to us when you wish to have pipettes or molding products that you cannot find in the market.
- Full Turnkey Contract starting from planning, developing, manufacturing and maintaining products will be possible.
- Modification to our existing product is also welcomed.
- Our custom-made molding products include disposable tip, micro plate, cell culture vessels and other plastic product.



Custom-Made Automatic Dispenser

**NSS-1000 II Basic**

- Cost effective custom made automatic dispensing systems
- Stand alone dispensers as well as dispensing components to be integrated into larger system units will be possible.
- Working areas ranging from A4-sized desk top type to larger work station type will be possible.
- Software to meet customers' requirements concerning C-language and Visual Basic will be possible.



Custom-made system example

Appearance	Name	Main features	Appearance	Name	Main features
	<b>Dilution system for mechanical oil</b>	Function to prevent contamination with air pressure feed-in. 1000mm(W)×500mm(D)×500mm		<b>Sample preparation system by disposable tip</b>	Simple dispensing of samples from test tubes to micro plates using disposable tips. 500mm(W)×800mm(D)×150mm
	<b>Two channel micro plate dilution system</b>	Dilutes samples on micro plates. Two channels with disposable and washable tips. 700mm(W)×450mm(D)×700mm		<b>Automatic picking system for Electrophoresis gel</b>	Determines sample spots fractionated by electrophoresis through image analysis and performs safe picking with the rotation and suction feature. 756mm(W)×700mm(D)×750mm
	<b>Multiple dispensing and dilution system</b>	Automatic dispenser with two syringe pumps for dispensing processes and liquid line cleaning. 800mm(W)×450mm(D)×700mm		<b>Five channel high-speed dispensing system</b>	System for dispensing five different liquids using five syringe pumps and five probes. 800mm(W)×500mm(D)×700mm
	<b>Dispenser for PCR preparation</b>	Reformatting from four 96-well micro plates to one 384-well micro plate. 500mm(W)×400mm(D)×500mm		<b>Powder sample dispensing system</b>	High accuracy dispenses of small powder samples with the suction and discharging function. Can also be connected to electronic balances or combined with liquid dispensing. 720mm(W)×700mm(D)×550mm
	<b>Five channel high throughput dilution system</b>	Automatic tip interval span feature and stacker for tips and micro plates are included. 1000mm(W)×610mm(D)×500mm			