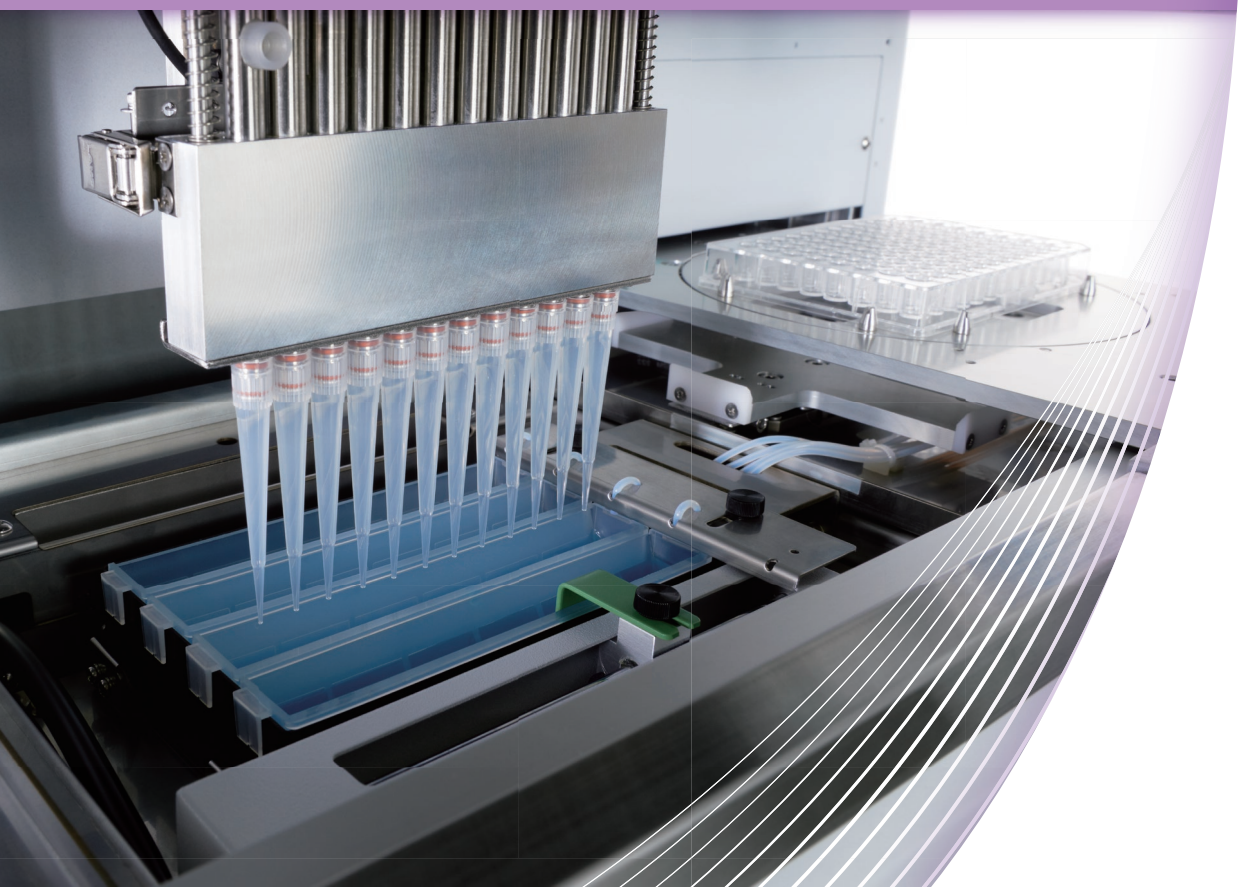
FUTURE LIFESCIENCE PARTNER
NICHIRYO



NICHIRYO PRODUCT LINE-UP

PIPETTE / DISPENSER / CUSTOM MADE & OEM

2017-18



ISO14001 CERTIFIED ISO9001 CERTIFIED

ilac-MRA IAJapan JCSS 0280

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.

NICHIRYO

Future Lifescience Partner

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



President
Takayoshi Itoh

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".

FUTURE LIFESCIENCE PARTNER
NICHIRYO

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.

Challenge
Creation
Cooperation

Guidelines for Action

❶ **Challenge** ..... Always making efforts to achieve the high goal.
❷ **Creation** ..... Thinking differently. Creating innovative products.
❸ **Cooperation** ..... Being always aware of building a cohesive team.

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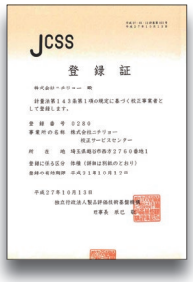
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■To ensure safe and proper use of our products and to avoid harm to people and property, please make sure to carefully read and fully understand the "Safety Precautions" (especially the "Cautions" section) before use. If anything is unclear, please 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 April 2017.
■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.

Customer Support

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.





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.

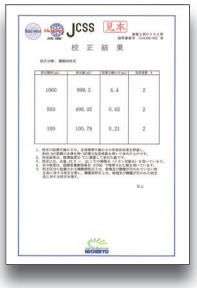


Products which can be calibrated with JCSS,accreditation criteria.

・Nichipet Series
・NICHRYO Le

Ex. JCSS calibration certificate





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.

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.

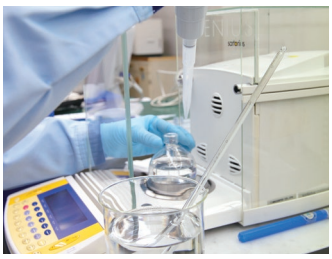


1 Quality Assurance System

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.



Autoclavable Micro Pipette

Nichipet Premium LT

5-year warranty

UV Resistance

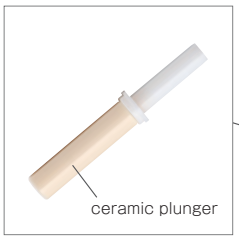
121℃ 20min Autoclavable

CE

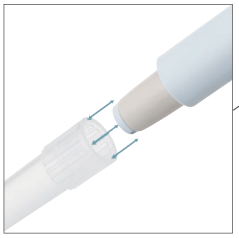
New evolution of “Fatigue Free” Lighter model of LT Debut!



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



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



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





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.



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

Innovation in “Fatigue-Free” and “Comfort”

- New round shape of the Premium mitigates fatigue and stress from heavy workload.
- The durability still remain unchanged as Nichipet Premium has. Stroke loading of Nichipet Premium LT becomes less 70% at maximum than before.
- New design for reducing stroke loading and mitigating fatigue.

Innovation in “Durability” and “Strength”

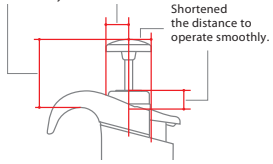
- Seal ring for the Premium is tested dispensing / aspirating 600,000 times.
- Nozzle top is highly abrasion tolerant.
- Non corrosive ceramic is used for the plunger. (100µL – 1000µL)

Innovation in “Stability” and “Precision”

- Hyper Blower System, longer second-push stroke, improves dispensing efficiency. (2µL,10µL)
- Easy-Calibration function provides simple lab calibration.
- 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 LT.

● What's new!



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-SS/SSR/SSRB 、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.17-18 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

＊The AC and CV above are measured with the disposable tips described in the catalogue.
＊The AC and CV at 0.2µL depend much 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.



Nichipet Premium LT

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 LT (2-1000µL) and Nichipet EXII (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-SSR(0.5～10µL)、BMT2-SGR(2～200µL)、BMT2-LGR(100～1000µL)、NTO
Nichipet Premium LT S-PAC B	00-SP-BL	NLT-20、NLT-200、NLT-1000 BMT2-SGR(2～200µL)×2、BMT2-LGR(100～1000µL)、NTO
Nichipet Premium LT S-PAC H	00-SP-HL	NLT-2、NLT-10、NLT-100 BMT2-UTWR(0.1～10µL)×2、BMT2-SSR(0.5～10µL)、BMT2-SGR(2～200µL)、NTO

＊visit our web-site for part lists.

Autoclavable Micro Pipette

Nichipet Premium

5-year warranty

UV Resistance

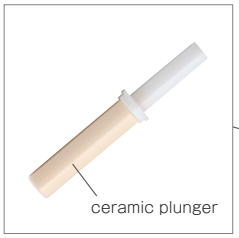
121℃ 20min Autoclavable

CE

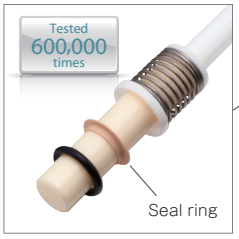
Innovation in durability, strength, stability and comfort the latest model in Nichipet series



Enlarged and easy to read counter display for volume setting.

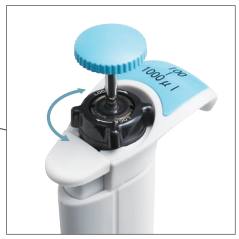


Non corrosive ceramic used in the plunger.
(100µL – 10000µL)



Seal ring for the Premium is tested dispensing / aspirating 600,000 times. Non-greased plunger makes it easy to maintain. (2µL – 1000µL)
The test was conducted by Nichiryo.The test result may vary with condition of usage.

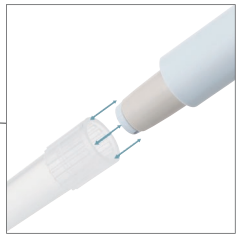




New material used for 4 notche-lock improves its strength, which minimizes the lever shift from the original position.



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



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

Innovation in “Durability” and “Strength”

- Seal ring for the Premium is tested dispensing / aspirating 600,000 times. (2µL – 1000µL)
- Nozzle top is highly abrasion tolerant. (2µL – 1000µL)
- Non corrosive ceramic is used for the plunger. (100µL – 10000µL)

Innovation in “Stability” and “Precision”

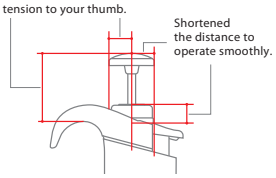
- Hyper Blower System, longer second-push stroke, improves dispensing efficiency. (2µL,10µL)
- Easy-Calibration function provides simple lab calibration.
- Hand temperature doesn’t permeate through the body of the pipette which works to avoid affecting volume measurement. (Patented)

Innovation in “Fatigue-Free” and “Comfort”

- New round shape of the Premium mitigates fatigue and stress from heavy workload.
- Enlarged push button makes it easy to depress.
- White body color mitigates reflection of room light.

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

● What's new!



Specifications

Cat. No	Volume Setting	Volume range(μL)	Increments(μL)	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-SS/SSR/SSRB、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.17-18 for tip selection.

Accuracy and Precision

Cat. No	Volume(μL)	Accuracy(%)	Precision(%)	Cat. No	Volume(μL)	Accuracy(%)	Precision(%)
00-NPP-2	0.2	±12.0*	≦6.0*	00-NPP-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-NPP-10	1	±4.0	≦3.0	00-NPP-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-NPP-20	2	±5.0	≦3.0	00-NPP-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-NPP-100	10	±2.0	≦1.0	00-NPP-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

＊The AC and CV above are measured with the disposable tips described in the catalogue.
＊The AC and CV at 0.2μL depend much 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 (2-1000μL) and Nichipet EXII (2-1000μL)

Nichipet Premium S-PAC

Description	Cat. No	Content
Nichipet Premium S-PAC A	00-SP-AP	NPP-10、NPP-100、NPP-1000 BMT2-SSR(0.5～10μL)、BMT2-SGR(2～200μL)、BMT2-LGR(100～1000μL)、NTO
Nichipet Premium S-PAC B	00-SP-BP	NPP-20、NPP-200、NPP-1000 BMT2-SGR(2～200μL)×2、BMT2-LGR(100～1000μL)、NTO
Nichipet Premium S-PAC H	00-SP-HP	NPP-2、NPP-10、NPP-100 BMT2-UTWR(0.1～10μL)×2、BMT2-SSR(0.5～10μL)、BMT2-SGR(2～200μL)、NTO

＊visit our web-site for part lists.

Solvent Resistant Nichipet EX

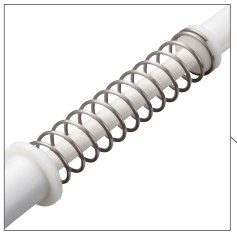
Nichipet EX PlusⅡ

Chemical Resistant Model of Nichipet Series

UV Resistance | 121℃ 20min Autoclavable | CE



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



An alloy spring to avoid metal corrosion by organic solvents.



Chemical-guard O-ring with minimum expansion ratio.





Easy calibration with enclosed jig.



Ceramic plunger is used to prevent from corrosion by solvents. (200uL – 10000uL)



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

- 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.
  - ▷An alloy spring to avoid metal corrosion by organic solvents.
- Hyper blower system, longer second-push stroke, improves dispensing efficiency. (2μL,10μL)
- Fully autoclavable. (121℃ for 20 minutes)
- Enhanced UV resistance for better use in UV hoods.
- Easy-Calibration function provides simple lab calibration.
- Ceramic plungers are used for volume models. (200μL – 10000μL)
- The one-touch locking mechanism makes it easy to lock the sample volume.

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

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-SS/SSR/SSRB、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.17-18 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

＊The AC and CV values below 0.2μL depend much on the operator's skill and the environment under which the pipette is used.
＊The AC and CV values are the values by use of the disposable tips described in the catalogue.
＊The specification and price are subject to change without notice due to modifications for quality improvement.

＊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℃	21	A	C	Acetone	40℃	21	B	D
Acetic anhydride	40℃	21	A	C	Methyl ethyl ketone	40℃	21	A	D
Inorganic alkalies					Methyl isobutyl ketone	40℃	21	B	D
28% Ammonia water	40℃	21	A	D	Isophorone	40℃	21	A	D
Furan & Aldehyde					Diacetone alcohol	40℃	21	A	C
Tetrahydrofuran	40℃	21	C	D	gamma - Butyrolactone	40℃	21	A	C
2-Methyl Tetrahydrofuran	40℃	21	B	D	Diethylene carbonate	40℃	21	A	D
Acetaldehyde	25℃	21	B	D	Acetylacetone	40℃	21	A	D
Acetophenone	40℃	21	A	C	Methyl formate	25℃	21	B	D
Inclusive nitrogen compound					Methyl acetate	40℃	21	A	D
Acrylic nitrile	40℃	21	A	C	Acetic ether	40℃	21	B	D
Ethylene diamine	40℃	21	B	D	Isoamyl acetate	40℃	21	A	D
Pyridine	40℃	21	A	C	Methyl acetoacetate	40℃	21	A	C
N, N - dimethylformamide	40℃	21	A	D	Ethyl acetoacetate	40℃	21	A	C
N, N - dimethylacetamide	40℃	21	A	D	Acrylic acids	40℃	21	A	C
N-methyl-2-pyrrolidone	100℃	7	A	D	Ethyl acrylate	40℃	21	A	D
Carbon hydride, Carbon hydride halide					Diethyl oxalate	40℃	21	A	D
Toluene	40℃	21	A	B	Triethyl phosphate	40℃	21	A	D
Xylene	40℃	21	A	B	Tricresyl phosphate	100℃	7	A	C
Chloroform	40℃	21	B	B	Diethyl ether	25℃	21	B	C
Alcohols					1, 4 - dioxan	40℃	21	A	C
Methyl carbitol	40℃	21	A	B	Methyl - t - butyl ether	100℃	7	A	C
Ethyl carbitol	40℃	21	A	B					
Others, Oil, Steam									
DN cut HS-1 cutting oil	130℃	11	A	A					
0-148LCT Air craft engine oil	175℃	20	A	B					

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

＊visit our web-site for part lists.

Autoclavable Micro Pipette

Nichipet EX Ⅱ

Best Selling Model of Nichipet Series

UV Resistance

121℃ 20min Autoclavable

CE



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.



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



Non corrosive ceramic used in the plunger.
(200uL – 10000uL)





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



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



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

- Fully autoclavable. (121℃ for 20 minutes)
- Enhanced UV resistance.
- Hyper blower system, longer second-push stroke, improves dispensing efficiency. (2μL,10μL)
- Easy digital volume setting.
- Easy and convenient single hand locking lever.
- Eight sizes to cover a wide volume range. (0.1μL – 10000μL)
- 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.
- Ceramic plungers are used for volume models. (200μL – 10000μL)
- 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.

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-SS/SSR/SSRB、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.17-18 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

＊The AC and CV values are the values by use of the disposable tips described in the catalogue.
＊The AC and CV at 0.1µL depend much on the operator's skill and the environment in which the pipette is 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

3 pcs



Racked Tip

3 or 4 racks



Tube Opener

3 pcs



Nichipet EXII S-PAC

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

＊visit our web-site for part lists.

Light & Ergonomic Pipette

NICHIRYO Le

Only 83g !
Ergonomic & Economical Model for Starters

- 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-SS/SSR/SSRB、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、FAG/FAGRB
00-NLE-1000		100 – 1000	2	BMT2-LG/LGR/LGRB、FLG/FLGRB

＊See P17-18 for tip selection.

Accuracy and Precision

Cat. No	Volume(µL)	Accuracy(%)	Precision(%)
00-NLE-10	1*	±6.0	≦5.0
	5	±2.0	≦2.0
	10	±1.2	≦0.8
00-NLE-20	2*	±5.0	≦3.0
	10	±2.0	≦2.0
	20	±1.2	≦0.8
00-NLE-100	10	±2.0	≦1.0
	50	±1.2	≦0.8
	100	±1.0	≦0.6
00-NLE-200	20	±1.2	≦1.0
	100	±1.0	≦0.8
	200	±0.8	≦0.6
00-NLE-1000	100	±1.2	≦0.8
	500	±1.0	≦0.6
	1000	±0.7	≦0.5

＊The AC and CV values at 0.5µL by NLE-10 and 2µL by NLE-20 largely depend on the operator's skill and the environment under which the pipette is used.
＊The AC and CV values are the values by use of the disposable tip described in the catalogue.

Autoclavable Multi Channel Pipette

Nichipet EXⅡ MULTI

UV Resistance | 121℃ 20min Autoclavable | CE

Multi-Channel model of Nichipet EXⅡ
Reduced fatigue for pipetting

- Reduced the weight up to 30%. (in-house comparison)
- Easy maintenance.
- Reduced ejector load.
- Strong material for UV resistance.
- Fully autoclavable . (121℃ for 20 minutes)
- Lock mechanism for volume setting.
- Durable body.
- 4 sizes (V, S, L, K) covering wide volume range from 0.5 to 300µL.
- Revolving handle (360°) to fixate convenient position in pipetting.



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/FAGRB
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/FAGRB
00-NPM-12K			30 – 300	1	BMT2-K/KR/KRB

＊See P17-18 for tip selection.

Accuracy and Precision

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

＊The AC and CV values are the values by use of the disposable tips described in the catalogue.

＊visit our web-site for part lists.

Fixed Volume and Triple 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-SS/SSR/SSRB、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 P17-18 for tip selection.

Glass Tip Pipette

Nichipet ECO



Glass Tip



■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.

Soil / Natural Water / Plants / Foods

- SAMPLING ▶ Preparation on crystal filter urethane form
- EXTRACATION ▶ Sample transfer with Nichipet ECO
- 1st CONCENTRATION ▶ By rotary evaporator
- REFINEMENT ▶ Clean up with Chromatograph tube. The sample is transferred with Nichipet ECO
- 2nd CONCENTRATION ▶ By concentrator. The sample is transferred with Nichipet ECO
- FINAL ANALYSIS ▶ By Gas Chromatography

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

Variable 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 15 to 25 mL for 5100S and 30 to 50 mL for 5100L is available for special order.



Specifications

Cat. No	Volume setting(mL)		
00-5100S	15.0	20.0	25.0
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)
00-51TS	25.0	5
00-51TL	50.0	5

＊visit our web-site for part lists.

Disposable Tips

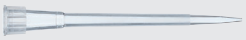
Premium Tip

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℃ 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.

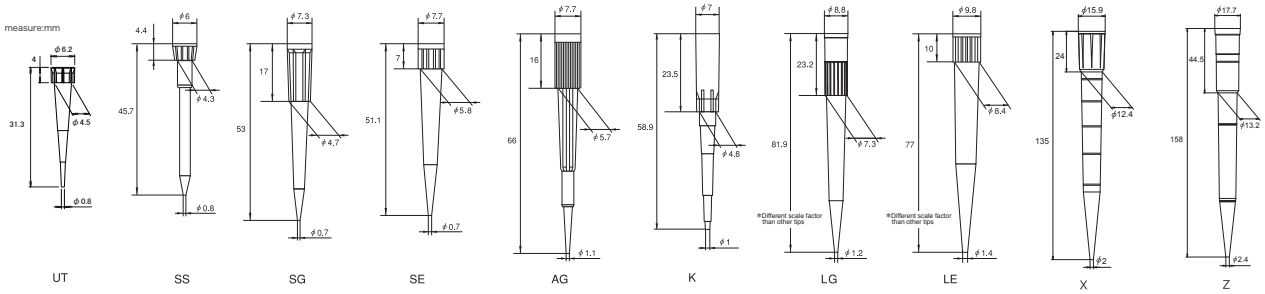


Specifications

Type		Cat. No.	Specification	Volume range(μL)	Color	Q'ty(box)	Usable models
UT		00-BMT2-UT	Bulk tip	0.1～10	Natural	1000	NPP-2 / NLT-2 NPX･NPX2-2 / NPLO･NPLO2-2 NP7-8V､12V / NPM-8VP､12VP
		00-BMT2-UTWR	Racked tip			960 (96pcs.×10^c/$_s$)	
		00-BMT2-UTWRB	Racked tip(sterilized)				
SS		00-BMT2-SS	Bulk tip	0.5～10	Natural	1000	NPP-10 / NLT-10 NPX･NPX2-10 / NPLO･NPLO2-10 NLE-10 / NPF2-10
		00-BMT2-SSR	Racked tip			960 (96pcs.×10^c/$_s$)	
		00-BMT2-SSRB	Racked tip(sterilized)				
SG		00-BMT2-SG	Bulk tip	2～200	Natural	1000	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-BMT2-SGR	Racked tip			960 (96pcs.×10^c/$_s$)	
		00-BMT2-SGRB	Racked tip(sterilized)				
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^c/$_s$)	
		00-BMT2-SERB	Racked tip(sterilized)				
K		00-BMT2-K	Bulk tip	50～300	Natural	1000	NP7-8K､12K NPM-8KP､12KP
		00-BMT2-KR	Racked tip			960 (96pcs.×10^c/$_s$)	
		00-BMT2-KRB	Racked tip(sterilized)				
LG		00-BMT2-LG	Bulk tip	100～1000	Natural	1000	NPP-1000 / NLT-1000 NPX2-1000 / NPLO2-1000 NLE-1000 / NPF2-500､1000 / NPV2-L
		00-BMT2-LGR	Racked tip			960 (96pcs.×10^c/$_s$)	
		00-BMT2-LGRB	Racked tip(sterilized)				
LE		00-BMT2-LE	Bulk tip	100～1000	Natural	1000	NPX-1000 NPLO-1000
		00-BMT2-LER	Racked tip			960 (96pcs.×10^c/$_s$)	
		00-BMT2-LERB	Racked tip(sterilized)				
X		00-BMT2-X	Bulk tip	1000～5000	Natural	200	NPP-5000 NPX･NPX2-5000 NPLO･NPLO2-5000 11DG-5000
		00-BMT2-XR	Racked tip			100 (50pcs.×2^c/$_s$)	
		00-BMT2-XRB	Racked tip(sterilized)				
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^c/$_s$)	
		00-BMT2-ZRB	Racked tip(sterilized)				

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

■ TIP



Filter Tip



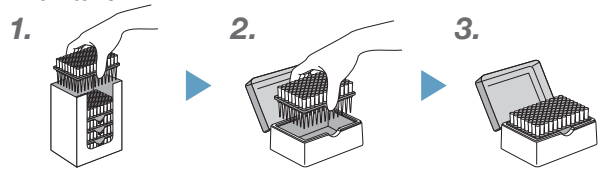
- Prevents cross-contamination in PCR testing.
- Suitable for virus/bacteria and RI research.
- Sterilized racked tips available for DNA free research.
- No effect on the accuracy by the inside filter.
- Efficient for avoiding carry over by cellulose acetate filters.
- DNase/RNase free. (excludes AG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

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	NPP-2 / NLT-2 NPX･NPX2-2 / NPLO･NPLO2-2 NP7-8V、12V / NPM-8VP、12VP
		00-BMT2-FUTRB	Racked tip(sterilized)			960 (96pcs.×10^c/$_s$)	
SS		00-BMT2-FSS	Bulk tip	0.5～10	Natural	1000	NPP-10 / NLT-10 NPX･NPX2-10 / NPLO･NPLO2-10 NLE-10 / NPF2-10
		00-BMT2-FSSRB	Racked tip(sterilized)			960 (96pcs.×10^c/$_s$)	
SG		00-BMT2-FSG	Bulk tip	2～20	Natural	1000	NPP-20 / NLT-20 NPX･NPX2-20 / NPLO･NPLO2-20 NLE-20 / NPF2-20
		00-BMT2-FSGRB	Racked tip(sterilized)			960 (96pcs.×10^c/$_s$)	
SE		00-BMT2-FSE	Bulk tip	10～100	Natural	1000	NPP-100 / NLT-100 NPX･NPX2-100 / NPLO･NPLO2-100 NLE-100 / NPF2-100
		00-BMT2-FSERB	Racked tip(sterilized)			960 (96pcs.×10^c/$_s$)	
AG		00-BMT2-FAG	Bulk tip	20～200	Natural	1000	NPP-200 / NLT-200 / NPX･NPX2-200 NPLO･NPLO2-200 / NLE-200 NPF2-200 / NPV-M / NPM-8LP、12LP
		00-BMT2-FAGRB	Racked tip(sterilized)			960 (96pcs.×10^c/$_s$)	
LG		00-BMT2-FLG	Bulk tip	100～1000	Natural	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^c/$_s$)	
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^c/$_s$)	

Smart Pack

- Easy & quick tip setting.
- Eco-friendly & low-waste.
- How to refill



1. Lift up the plate of the top deck of tips.
2. Holding the empty rack in one hand and the plate in the other, align the first row of tips in the rack. Insert the remaining tips into the rack.
3. Release the plate.



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-8VP、12VP
	00-ETS-JUTW10				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				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				96pcs×5decks×2×10boxes	
	00-ETS-LGRK	Rack		——	5racks	

＊visit our web-site for part lists.

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.
- Syringes, exclusive of SG-V,N3,Z are autoclavable. (121℃ for 20 minutes)
- 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	≦4.0 – ≦2.5
00-SG-S	0.6mL	10μL	20μL	30μL	40μL	50μL	±1.5	≦1.5 – ≦1.0
00-SG-M	1.5mL	25μL	50μL	75μL	100μL	125μL	±1.2	≦1.0 – ≦0.8
00-SG-N3	3mL	50μL	100μL	150μL	200μL	250μL	±1.0	≦0.9 – ≦0.6
00-SG-L	6mL	100μL	200μL	300μL	400μL	500μL	±0.8	≦0.8 – ≦0.4
00-SG-Y	15mL	250μL	500μL	750μL	1000μL	1250μL	±0.8	≦0.6 – ≦0.3
00-SG-Z	60mL	1mL	2mL	3mL	4mL	5mL	±1.0	≦1.0 – ≦0.5
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	6.0mL syringe	100
00-SG-S	0.6mL syringe (with 100 TS tips)	100	00-SG-Y	15.0mL syringe	50
00-SG-M	1.5mL syringe (with 100 TS tips)	100	00-SG-Z	60.0mL syringe (With one adapter)	50
00-SG-N3	3.0mL syringe	100	00-SG-ZA	Adapter for 60mL syringe	1

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%

＊visit our web-site for part lists.

Variable Repetitive Syringe Dispenser

Nichimate Stepper



- Up to 40 variations of dispensing.
- Suitable for dispensing viscose liquids due to the positive displacement system.
- Sterilized syringes are also available.
- Syringes for Eppendorf 4780 are fitted into Nichimate Stepper.
- 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	≦8.0 – ≦3.0
00-NS-S	0.5mL	10μL	20μL	30μL	40μL	50μL	±1.5	≦1.4 – ≦0.6
00-NS-M	1.25mL	25μL	50μL	75μL	100μL	125μL	±1.2	≦0.8 – ≦0.5
00-NS-N	2.5mL	50μL	100μL	150μL	200μL	250μL	±0.7	≦0.8 – ≦0.3
00-NS-L	5mL	100μL	200μL	300μL	400μL	500μL	±0.5	≦0.6 – ≦0.3
00-NS-X	12.5mL	250μL	500μL	750μL	1000μL	1250μL	±0.5	≦0.6 – ≦0.3
00-NS-Y	25mL	0.5mL	1mL	1.5mL	2mL	2.5mL	±0.3	≦0.6 – ≦0.3
00-NS-Z	50mL	1mL	2mL	3mL	4mL	5mL	±0.3	≦0.6 – ≦0.2
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)
00-NS-V	0.05mL syringe (with 100 BMT-UT tips)	100
00-NS-S	0.5mL syringe	100
00-NS-M	1.25mL syringe	100
00-NS-N	2.5mL syringe	100
00-NS-L	5.0mL syringe	100
00-NS-X	12.5mL syringe	100
00-NS-Y	25.0mL syringe (with one attachment)	50
00-NS-Z	50.0mL syringe(With one attachment)	25

Cat. No	Description	Q'ty(box)
00-NS-SB	0.5mL sterilized syringe	100
00-NS-MB	1.25mL sterilized syringe	100
00-NS-NB	2.5mL sterilized syringe	100
00-NS-LB	5.0mL sterilized syringe	100
00-NS-XB	12.5mL sterilized syringe	100
00-NS-ADPY	Attachment for 25mL(for 25mL Syringes / 00-NS-Y)	1
00-NS-ADPZ	Attachment for 50mL(for 50mL Syringes / 00-NS-Z)	1

8-Channel Variable Repetitive Syringe Dispenser

MODEL 8800



- Syringe type 8 channel dispenser.
- Suitable for dispensing to 96 well micro plates.
- Up to eight syringes can be selected for dispensing into various types of tissue culture 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

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)	

Pipette Controller

Pipette Mate NEO

UV Resistance

- User Friendly pipette controller, 167g only.
- Long-life Lithium Ion battery installed, 4-hours charging for 1700 times.
- 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.



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-N018	Battery L14430-600mAh /w cable
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.

＊visit our web-site for part lists.

Variable Volume Bottle Dispenser

ACCUPENSER JR.

121℃ 20min Autoclavable

- The Post with scale can be laid down without altering volume settings.
- The precision parts of the glass in 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 treads 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 EXII

121℃ 20min Autoclavable

- Autoclavable. (121℃ for 20 minutes)
- 3 sized adapters for fitting with various types of bottles.
- Chemical-guard materials 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

*Bottles are available as optional parts.





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-32	GL-28、GL-38、GL-45
00-DPX2-50	0.5 – 5.0	0.1	±0.5	≦0.1	GL-32	GL-28、GL-38、GL-45
00-DPX2-100	1.0 – 10.0	0.2	±0.5	≦0.1	GL-32	GL-28、GL-38、GL-45
00-DPX2-250	2.5 – 25.0	0.5	±0.5	≦0.1	GL-45	GL-28、GL-32、GL-38
00-DPX2-500	5.0 – 50.0	1	±0.5	≦0.1	GL-45	GL-28、GL-32、GL-38
00-DPX2-1000	10.0 – 100.0	2	±0.5	≦0.1	GL-45	GL-28、GL-32、GL-38

Adapter

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

00-DPX-003F…For DPX-25,50,100
00-DPX-003C…For DPX-250,500,1000

Bottle-top Dispenser

DISPET Mini

- Suitable for repetitively micro volume dispensing.
- Light and compact model for easy-to-carry-out.
- Chemical-guard materials 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

*visit our web-site for part lists.

Pipette Stand



Cat. No ····· 00-MLT-STD2(ABS)
Storing capacity ··· 6pcs
Compatibility ····· Nichipet premium LT
Nichipet Premium
Nichipet EXⅡ
Nichipet EX PlusⅡ
Nichiryo Le
Nichipet EXⅡ MULTI



Cat. No ····· 00-BM-STD(Acrylic resin)
Storing capacity ··· 6pcs
Compatibility ····· Nichipet premium LT
Nichipet Premium
Nichipet EXⅡ
Nichipet EX PlusⅡ
Nichipet FⅡ&VⅡ



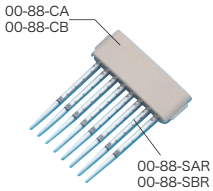
Cat. No ····· 00-NLE-STD(ABS)
Storing capacity ··· 1pcs
Compatibility ····· Nichipet premium LT
Nichipet Premium
Nichipet EXⅡ
Nichipet EX PlusⅡ
Nichiryo Le



Cat. No ····· 00-7000S(PVC)
Storing capacity ··· 2pcs
Compatibility ····· Nichipet EXⅡ MULTI
Nichipet 7000

Dispenser Stand

8-Channel Variable Repetitive Syringe Dispenser MODEL 8800





00-8800S

Cat. No	Description	Q'ty
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
00-8800S	Storing capacity (Acrylic resin) (capacity:2pcs)	1



Ergonomically Designed Repetitive Dispenser Nichimate Stepper

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



Variable Repetitive Syringe Dispenser MODEL 8100

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

Tray



Cat. No ····· 00-88-TY
Q'ty····· 50pcs
Compatibility ····· Nichipet EXⅡ MULTI
Nichipet 7000
MODEL 8800

Tube Opener



Cat. No ····· 00-NTO-001
Q'ty····· 3pcs
Compatibility ····· Nichipet premium LT
Nichipet Premium
Nichipet EXⅡ
Nichipet EX PlusⅡ

Filter

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

For NPP-5000,10000
Cat. No ···00-NP-0615000
Q'ty·····100pcs

For NPXⅡ-1000
Cat. No ···00-NX2-0601000
Q'ty·····10pcs

For NPLOⅡ-1000
Cat. No ···00-LO2-0601000
Q'ty·····10pcs

For NPXⅡ,NPLOⅡ-5000,10000
Cat. No ···00-NX2-0615000
Q'ty·····100pcs

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.

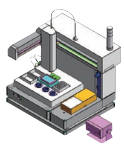


Custom-Made Automatic Dispenser
NSS-1000Ⅱ Basic

- 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
	**Dilution system for mechanical oil**	Function to prevent contamination with air pressure feed-in. 1000mm(W)×500mm(D)×500mm		**Sample preparation system by disposable tip**	Simple dispensing of samples from test tubes to micro plates using disposable tips. 500mm(W)×800mm(D)×150mm
	**Two channel micro plate dilution system**	Dilutes samples on micro plates. Two channels with disposable and washable tips. 700mm(W)×450mm(D)×700mm		**Automatic picking system for Electrophoresis gel**	Determines sample spots fractionated by electrophoresis through image analysis and performs safe picking with the rotation and suction feature. 756mm(W)×700mm(D)×750mm
	**Multiple dispensing and dilution system**	Automatic dispenser with two syringe pumps for dispensing processes and liquid line cleaning. 800mm(W)×450mm(D)×700mm		**Five channel high-speed dispensing system**	System for dispensing five different liquids using five syringe pumps and five probes. 800mm(W)×500mm(D)×700mm
	**Dispenser for PCR preparation**	Reformatting from four 96-well micro plates to one 384-well micro plate. 500mm(W)×400mm(D)×500mm		**Powder sample dispensing system**	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
	**Five channel high throughput dilution system**	Automatic tip interval span feature and stacker for tips and micro plates included. 1000mm(W)×610mm(D)×500mm			

＊visit our web-site for part lists.

www.nichiryo.co.jp/en/

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