



About Hawach Scientific

Hawach Scientific Co., Ltd is a modern enterprise, contains well integration of R&D, production, sales, and after-sales service. Hawach located at Xi'an High-Tech Development Zone, which is one of the five national level High-Tech development Zones with a plant covers a production workshop area of 8000m², with 4000m² of the clean room.

We have an international advanced level of production lines of laboratory consumables related to chromatography. Liquid handling and micro-porous filtration etc. Hawach Scientific never stop upgrading our technique, corporate with many famous universities including Northwestern Polytechnical Universities, Xi'an University of Technology, and Shaanxi University of Science and Technology. Hawach has established a laboratory analysis institute, research, and development center. In Hawach Scientific, quality always comes first, in the very beginning, Hawach Scientific started to learn world advanced production technology and experience, especially quality control testing laboratory. We have ultraviolet absorption detectors (UVD) , liquid chromatography, integrity tester, flow rate tester, dielectric strength tester, heating plate, laser particle counter, etc. After production, all articles are delivered to the QC center, only qualified products can be to the next procedure.

Today, we are happy to see our products exported to the United States, Korea, Japan UK, Germany, Dubai, Israel, and Mexico. The quality and service of our products receive consistent approval from customers. Our prospect is to be a leader and century enterprise, Provide superior products, service, and solution to global laboratories and factories. Hawach Scientific's mission is "Accomplish Sciences, help employee realized their dreams."

By joint efforts of Hawach's employee, business partners, and customers, we believe we can be a leader of the laboratory industry.



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1. Pipettes

1.1 Mechanical Pipettes

1.1.1 Standard Pipette Series

Single-channel

Features

- Lightweight, ergonomic, low force design
- Digital display clearly reads volume setting
- The pipettes cover volume range of 0.1µl to 10ml
- Easy to calibrate and maintain with tool supplied
- Design helps avoid repetitive strain injuries
- Calibrated in accordance with ISO8655

121°C Half
Autoclave



Multi-channel

Features

- 8 and 12 channel pipettes are available for standard 96-well plate
- Dispensing head rotates for effortless pipetting convenience
- Individual piston and tip cone assemblies allows for easy repair and maintenance
- Compound material tip cone design allows visual seal verification
- Can be used with universal style pipette tips

121°C Half
Autoclave



1.1.2 Advanced Pipette Series

Single-channel

Features

- Ergonomic design provide excellent operating experience
- Large display window allow for easier volume identification
- Pipettes cover a volume range of 0.1µL to 10mL
- Easy calibration and maintenance
- Each MicroPette supplied with an individual calibration
- Certificate according to ISO8655
- New materials conformed better resistance to fall off compared to TopPette series

121°C Half
Autoclave



Multi-channel

Features

- 8 and 12 channel pipette are appropriate for 96-well plates
- Dispensing head rotates for effortless pipetting convenience
- Individual piston and tip cone assemblies allowing easy repair and maintenance
- Compound material-made tip cone secures high sealing performance
- Compatible with most universal tip brands
- New materials conformed better resistance to fall off compared to TopPette series

121°C Half
Autoclave



1.1.3 Advanced Pipette Plus Series

Single-channel

Features

- Fully autoclavable
- Ergonomic design provides excellent operating experience
- Easy-to-read volume display
- The pipettes cover the volume range from 0.1 uL to 10 MI
- Easy calibration and maintenance
- Manufactured from innovative materials
- Each Advanced Plus Pipette supplied with an individual calibration certificate according to

121°C FULLY
Autoclave



Multi-channel

Features

- 8 and 12 channel pipettes are appropriate for 96-well plates
- Dispensing head rotates for effortless pipetting convenience
- Individual piston and tip cone assemblies allows for easy repair and maintenance
- Compound material-made tip cone secures high sealing performance
- Compatible with most universal tip brands

121°C
FULLY
Autoclave

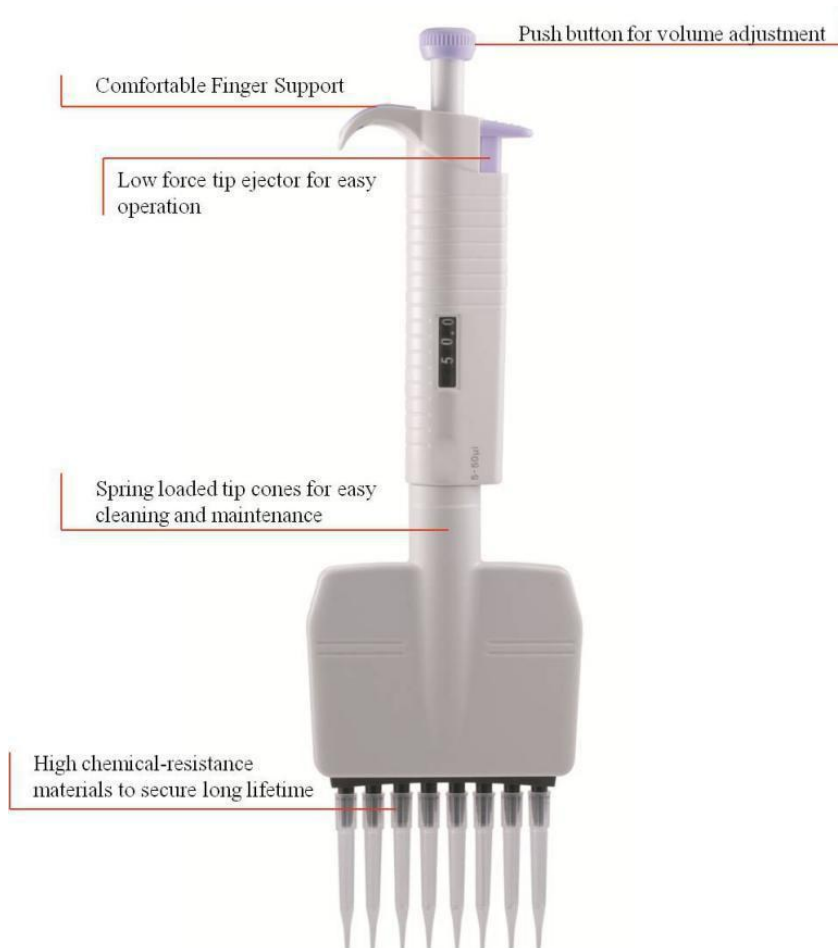


Specifications

Single-channel Adjustable Volume Pipettes						
Volume Range	Increment	Test Volume	Maximum permissible systematic error (Inaccuracy)		Maximum permissible random error (Imprecision)	
			%	µL	%	µL
0.1-2.5µL	0.05µL	2.5µL	2.50%	0.0625	2.00%	0.05
		1.25µL	3.00%	0.0375	3.00%	0.0375
		0.25µL	12.00%	0.03	6.00%	0.015
0.5-10µL	0.1µL	10µL	1.00%	0.1	0.80%	0.08
		5µL	1.50%	0.075	1.50%	0.075
		1µL	2.50%	0.025	1.50%	0.015
2-20µL	0.5µL	20µL	0.90%	0.18	0.40%	0.08
		10µL	1.20%	0.12	1.00%	0.1
		2µL	3.00%	0.06	2.00%	0.04
5-50µL	0.5µL	50µL	0.60%	0.3	0.30%	0.15
		25µL	0.90%	0.225	0.60%	0.15
		5µL	2.00%	0.1	2.00%	0.1
10-100µL	1µL	100µL	0.80%	0.8	0.15%	0.15
		50µL	1.00%	0.5	0.40%	0.2
		10µL	3.00%	0.3	1.50%	0.15
20-200µL	1µL	200µL	0.60%	1.2	0.15%	0.3
		100µL	0.80%	0.8	0.30%	0.3
		20µL	3.00%	0.6	1.00%	0.2
50-200µL	1µL	200µL	0.60%	1.2	0.15%	0.3
		100µL	0.80%	0.8	0.30%	0.3
		50µL	1.00%	0.5	0.40%	0.2
100-1000µL	5µL	1000µL	0.60%	6	0.20%	2
		500µL	0.70%	3.5	0.25%	1.25
		100µL	2.00%	2	0.70%	0.7
200-1000µL	5µL	1000µL	0.60%	6	0.20%	2
		500µL	0.70%	3.5	0.25%	1.25
		200µL	0.90%	1.8	0.30%	0.6
1000-5000µL	50µL	5000µL	0.50%	25	0.15%	7.5
		2500µL	0.60%	15	0.30%	7.5
		1000µL	0.70%	7	0.30%	3
2-10mL	0.1mL	10mL	0.60%	60	0.20%	20
		5mL	1.20%	60	0.30%	15

		2mL	3.00%	60	0.60%	12
8-channel Adjustable Volume Pipettes						
Volume Range	Increment	Test Volume	Maximum permissible systematic error (Inaccuracy)		Maximum permissible random error (Imprecision)	
			%	µL	%	µL
0.5-10µL	0.1µL	10µL	1.50%	0.15	1.50%	0.15
		5µL	2.50%	0.125	2.50%	0.125
		1µL	4.00%	0.04	4.00%	0.04
5-50µL	0.5µL	50µL	1.00%	0.5	0.50%	0.25
		25µL	1.50%	0.375	1.00%	0.25
		5µL	3.00%	0.15	2.00%	0.1
50-300µL	5µL	300µL	0.70%	2.1	0.25%	0.75
		150µL	1.00%	1.5	0.50%	0.75
		50µL	1.50%	0.75	0.80%	0.4
12-channel Adjustable Volume Pipettes						
Volume Range	Increment	Test Volume	Maximum permissible systematic error (Inaccuracy)		Maximum permissible random error (Imprecision)	
			%	µL	%	µL
0.5-10µL	0.1µL	10µL	1.50%	0.15	1.50%	0.15
		5µL	2.50%	0.125	2.50%	0.125
		1µL	4.00%	0.04	4.00%	0.04
5-50µL	0.5µL	50µL	1.00%	0.5	0.50%	0.25
		25µL	1.50%	0.375	1.00%	0.25
		5µL	3.00%	0.15	2.00%	0.1
50-300µL	5µL	300µL	0.70%	2.1	0.25%	0.75
		150µL	1.00%	1.5	0.50%	0.75
		50µL	1.50%	0.75	0.80%	0.4
Fixed Volume Pipettes						
Volume Range	Increment	Test Volume	Maximum permissible systematic error (Inaccuracy)		Maximum permissible random error (Imprecision)	
			%	µL	%	µL
5µL	-	5µL	1.3%	0.065	1.2%	0.06
10µL	-	10µL	0.8%	0.08	0.8%	0.08
20µL	-	20µL	0.6%	0.12	0.5%	0.1

Structure



Order Information

Item code	Product name	Volume	Specification	Pcs /Pack
Standard Pipette Series				
Single-channel Adjustable Volume				
SLTSA001	Standard Mechanical pipette	0.1-2.5µl	Half autoclavable	1
SLTSA002	Standard Mechanical pipette	0.5-10µl	Half autoclavable	1
SLTSA003	Standard Mechanical pipette	5-50µl	Half autoclavable	1
SLTSA004	Standard Mechanical pipette	2-20µl	Half autoclavable	1
SLTSA005	Standard Mechanical pipette	10-100µl	Half autoclavable	1

SLTSA006	Standard Mechanical pipette	20-200µl	Half autoclavable	1
SLTSA007	Standard Mechanical pipette	50-200µl	Half autoclavable	1
SLTSA008	Standard Mechanical pipette	100-1000µl	Half autoclavable	1
SLTSA009	Standard Mechanical pipette	200-1000µl	Half autoclavable	1
SLTSA010	Standard Mechanical pipette	1000-5000µl	Half autoclavable	1
Single-channel Fixed Volume				
SLTSF001	Standard Mechanical pipette	5µl	Half autoclavable	1
SLTSF002	Standard Mechanical pipette	10µl	Half autoclavable	1
SLTSF003	Standard Mechanical pipette	20µl	Half autoclavable	1
SLTSF004	Standard Mechanical pipette	25µl	Half autoclavable	1
SLTSF005	Standard Mechanical pipette	50µl	Half autoclavable	1
SLTSF006	Standard Mechanical pipette	100µl	Half autoclavable	1
SLTSF007	Standard Mechanical pipette	200µl	Half autoclavable	1
SLTSF008	Standard Mechanical pipette	250µl	Half autoclavable	1
SLTSF009	Standard Mechanical pipette	500µl	Half autoclavable	1
SLTSF010	Standard Mechanical pipette	1000µl	Half autoclavable	1
SLTSF011	Standard Mechanical pipette	2000µl	Half autoclavable	1
SLTSF012	Standard Mechanical pipette	5000µl	Half autoclavable	1
Eight-channel Adjustable Volume				
SLTEA001	Standard Mechanical pipette	0.5-10µl	Half autoclavable	1
SLTEA002	Standard Mechanical pipette	5-50µl	Half autoclavable	1
SLTEA003	Standard Mechanical pipette	50-300µl	Half autoclavable	1
Twelve-channel Adjustable Volume				
SLTTA001	Standard Mechanical pipette	0.5-10µl	Half autoclavable	1
SLTTA002	Standard Mechanical pipette	5-50µl	Half autoclavable	1
SLTTA003	Standard Mechanical pipette	50-300µl	Half autoclavable	1
Advanced Pipette Series				
Single-channel Adjustable Volume				
SLMSA001	Advanced Mechanical pipette	0.1-2.5µl	Half autoclavable	1
SLMSA002	Advanced Mechanical pipette	0.5-10µl	Half autoclavable	1
SLMSA003	Advanced Mechanical pipette	2-20µl	Half autoclavable	1
SLMSA004	Advanced Mechanical pipette	5-50µl	Half autoclavable	1
SLMSA005	Advanced Mechanical pipette	10-100µl	Half autoclavable	1

SLMSA006	Advanced Mechanical pipette	20-200µl	Half autoclavable	1
SLMSA007	Advanced Mechanical pipette	50-200µl	Half autoclavable	1
SLMSA008	Advanced Mechanical pipette	100-1000µl	Half autoclavable	1
SLMSA009	Advanced Mechanical pipette	200-1000µl	Half autoclavable	1
SLMSA010	Advanced Mechanical pipette	1000-5000µl	Half autoclavable	1
SLMSA011	Advanced Mechanical pipette	2-10ml	Half autoclavable	1

Single-channel Fixed Volume

SLMSF001	Advanced Mechanical pipette	5µl	Half autoclavable	1
SLMSF002	Advanced Mechanical pipette	10µl	Half autoclavable	1
SLMSF003	Advanced Mechanical pipette	20µl	Half autoclavable	1
SLMSF004	Advanced Mechanical pipette	25µl	Half autoclavable	1
SLMSF005	Advanced Mechanical pipette	50µl	Half autoclavable	1
SLMSF006	Advanced Mechanical pipette	100µl	Half autoclavable	1
SLMSF007	Advanced Mechanical pipette	200µl	Half autoclavable	1
SLMSF008	Advanced Mechanical pipette	250µl	Half autoclavable	1
SLMSF009	Advanced Mechanical pipette	500µl	Half autoclavable	1
SLMSF010	Advanced Mechanical pipette	1000µl	Half autoclavable	1
SLMSF011	Advanced Mechanical pipette	2000µl	Half autoclavable	1
SLMSF012	Advanced Mechanical pipette	5000µl	Half autoclavable	1

Eight-channel Adjustable Volume

SLMEA001	Advanced Mechanical pipette	0.5-10µl	Half autoclavable	1
SLMEA002	Advanced Mechanical pipette	5-50µl	Half autoclavable	1
SLMEA003	Advanced Mechanical pipette	50-300µl	Half autoclavable	1

Twelve-channel Adjustable Volume

SLMTA001	Advanced Mechanical pipette	0.5-10µl	Half autoclavable	1
SLMTA002	Advanced Mechanical pipette	5-50µl	Half autoclavable	1
SLMTA003	Advanced Mechanical pipette	50-300µl	Half autoclavable	1

Advanced Pipette Plus Series

Single-channel Adjustable Volume

SLPSA001	Advanced Plus Mechanical pipette	0.1-2.5µl	Autoclavable	1
SLPSA002	Advanced Plus Mechanical pipette	0.5-10µl	Autoclavable	1
SLPSA003	Advanced Plus Mechanical pipette	2-20µl	Autoclavable	1
SLPSA004	Advanced Plus Mechanical pipette	5-50µl	Autoclavable	1
SLPSA005	Advanced Plus Mechanical pipette	10-100µl	Autoclavable	1

SLPSA006	Advanced Plus Mechanical pipette	20-200µl	Autoclavable	1
SLPSA007	Advanced Plus Mechanical pipette	50-200µl	Autoclavable	1
SLPSA008	Advanced Plus Mechanical pipette	100-1000µl	Autoclavable	1
SLPSA009	Advanced Plus Mechanical pipette	200-1000µl	Autoclavable	1
SLPSA010	Advanced Plus Mechanical pipette	1000-5000µl	Autoclavable	1
Single-channel Fixed Volume				
SLPSF001	Advanced Plus Mechanical pipette	5µl	Autoclavable	1
SLPSF002	Advanced Plus Mechanical pipette	10µl	Autoclavable	1
SLPSF003	Advanced Plus Mechanical pipette	20µl	Autoclavable	1
SLPSF004	Advanced Plus Mechanical pipette	25µl	Autoclavable	1
SLPSF005	Advanced Plus Mechanical pipette	50µl	Autoclavable	1
SLPSF006	Advanced Plus Mechanical pipette	100µl	Autoclavable	1
SLPSF007	Advanced Plus Mechanical pipette	200µl	Autoclavable	1
SLPSF008	Advanced Plus Mechanical pipette	250µl	Autoclavable	1
SLPSF009	Advanced Plus Mechanical pipette	500µl	Autoclavable	1
SLPSF010	Advanced Plus Mechanical pipette	1000µl	Autoclavable	1
SLPSF011	Advanced Plus Mechanical pipette	2000µl	Autoclavable	1
SLPSF012	Advanced Plus Mechanical pipette	5000µl	Autoclavable	1
Eight-channel Adjustable Volume				
SLPEA001	Advanced Plus Mechanical pipette	0.5-10µl	Autoclavable	1
SLPEA002	Advanced Plus Mechanical pipette	5-50µl	Autoclavable	1
SLPEA003	Advanced Plus Mechanical pipette	50-300µl	Autoclavable	1
Twelve-channel Adjustable Volume				
SLPTA001	Advanced Plus Mechanical pipette	0.5-10µl	Autoclavable	1
SLPTA002	Advanced Plus Mechanical pipette	5-50µl	Autoclavable	1
SLPTA003	Advanced Plus Mechanical pipette	50-300µl	Autoclavable	1

Test Report:

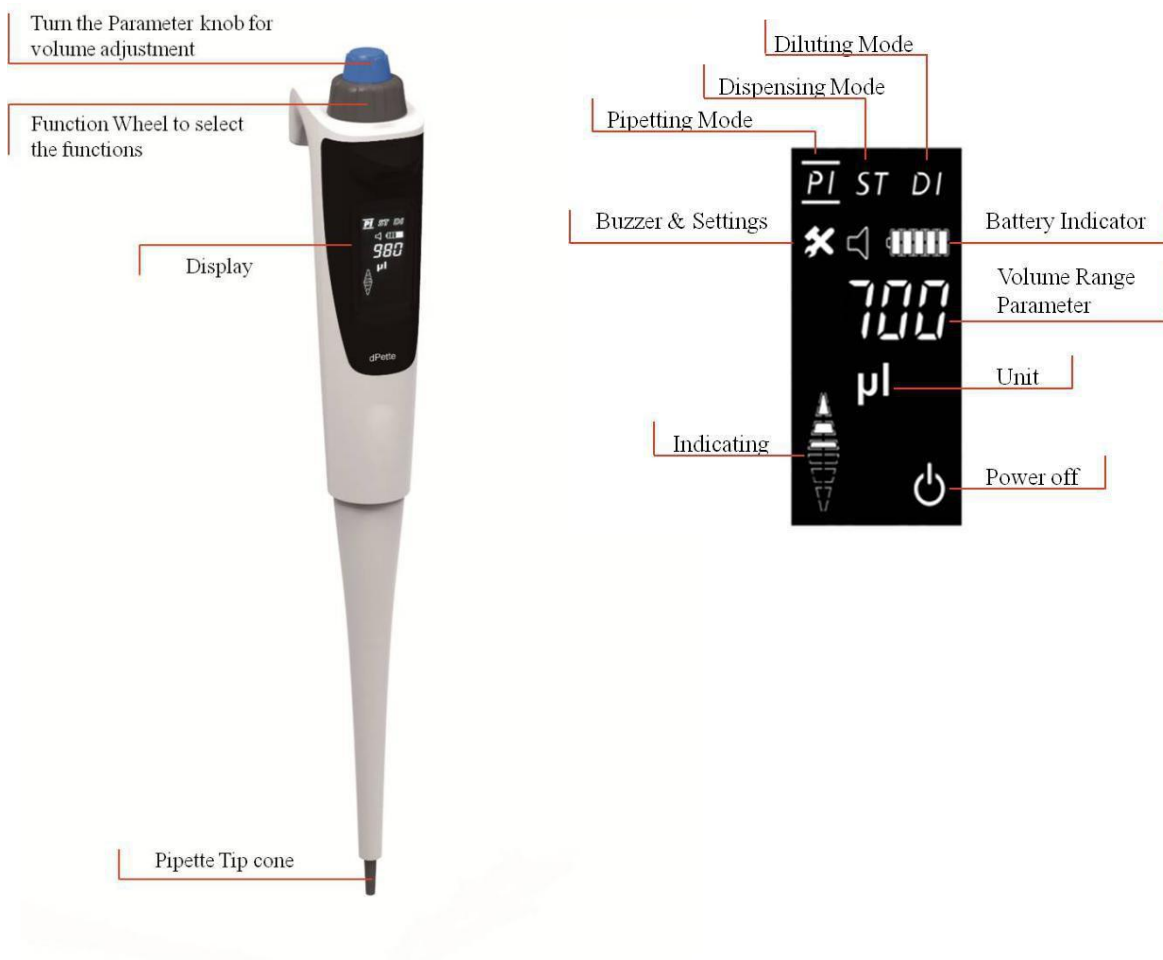
This list is appropriate for Standard Pipette, Advanced Pipette , Advanced Pipette Plus, (Adjustable and Fixed volume).

1.2 Electronic Pipette-Epipette

Features

- A motor drive digital control pipette with multifunction Pipetting, Mixing, Stepper and Dilution
- 2 buttons handle all operation and setting
- Light weight, ergonomic design, small body dimension for easy handling that guarantees fatigue free pipetting
- High accuracy, high performance stepper motor assures precision and repeatability and eliminates manual pipetting errors
- A wide range of pipetting modules for selection
- Adjustable speeds for aspiration and dispensing
- Li-ion battery and two charging mode enable longer operation time
- Self calibration – By link it to a PC and a balance with USB connector, user can calibrate Pipette by himself. No need to send it to the third party for calibration.

Structure



Specifications

Channels	Volume (uL)	Increment (uL)	Test Volume (uL)	Inaccuracy		Imprecision	
				(uL)	%	s.d.*uL	CV%*
1	0.5-10	0.01	10	±0.10	±1.0	0.05	0.50
			1	±0.03	±3.0	0.03	2.00
1	5-50	0.1	50	±0.40	±0.80	0.15	0.30
			5	±0.14	±2.75	0.08	1.50
1	30-300	1	300	±1.80	±0.60	0.60	0.20
			30	±0.75	±2.50	0.23	0.75
1	100-1000	5	1000	±5.00	±0.50	1.50	0.15
			100	±2.25	±2.25	0.50	0.50

s.d: Standard Deviation **CV:** Co-efficient of Variation

Order Information

Electronic Pipette-Epipette				
Item code	Product name	Volume	Specification	Pcs/Pack
SLEPSA01	Electronic Epipette Pipette	0.5-10µl	USA plug, 100V-220V/50Hz/60Hz	1
SLEPSA02	Electronic Epipette Pipette		Cn plug, 100V-220V/50Hz/60Hz	1
SLEPSA03	Electronic Epipette Pipette		Euro plug, 100V-220V/50Hz/60Hz	1
SLEPSA04	Electronic Epipette Pipette		UK plug, 100V-220V/50Hz/60Hz	1
SLEPSA05	Electronic Epipette Pipette	5-50µl	USA plug, 100V-220V/50Hz/60Hz	1
SLEPSA06	Electronic Epipette Pipette		Cn plug, 100V-220V/50Hz/60Hz	1
SLEPSA07	Electronic Epipette Pipette		Euro plug, 100V-220V/50Hz/60Hz	1
SLEPSA08	Electronic Epipette Pipette		UK plug, 100V-220V/50Hz/60Hz	1
SLEPSA09	Electronic Epipette Pipette	30-300µl	USA plug, 100V-220V/50Hz/60Hz	1
SLEPSA10	Electronic Epipette Pipette		Cn plug, 100V-220V/50Hz/60Hz	1
SLEPSA11	Electronic Epipette Pipette		Euro plug, 100V-220V/50Hz/60Hz	1
SLEPSA12	Electronic Epipette Pipette		UK plug, 100V-220V/50Hz/60Hz	1
SLEPSA13	Electronic Epipette Pipette	100-1000µl	USA plug, 100V-220V/50Hz/60Hz	1
SLEPSA14	Electronic Epipette Pipette		Cn plug, 100V-220V/50Hz/60Hz	1
SLEPSA15	Electronic Epipette Pipette		Euro plug, 100V-220V/50Hz/60Hz	1
SLEPSA16	Electronic Epipette Pipette		UK plug, 100V-220V/50Hz/60Hz	1

1.3 Pipette Tips

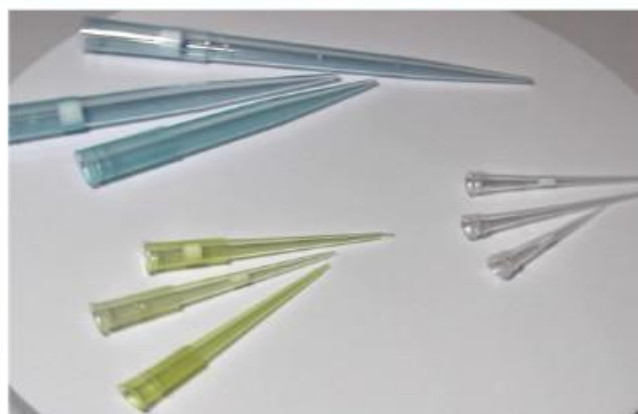
Features

- Tips Volume available from 10µL to 1250µL
- Available in non-sterile and sterile type
- The sterile tips are electronic beam sterilized and 100,000 class clean room produced
- Non-pyrogenic, DNase/RNase free
- Production capacity: 200,000 pcs/size per day
- Complete protection for your samples and pipettes



Classification

Sterility	Sterile	Non-Sterile
General Tips	Sterile tips	Non-sterile tips
Filtered Tips	Sterile, filtered, tips	Non-sterile, filtered tips
low Adsorption Tips	Sterile, low adsorption tips	Non-sterile, low adsorption tips
low Adsorption Filtered Tips	Sterile, low adsorption, filter tips	Non-sterile, low adsorption, filtered tips



Hawach Pipette Tips Selection Guide:

Step 1: Determine If you need filtered or non-filtered tips:

Tips with filter (filtered tips):

Prevent contamination of pipettes
and prevent cross-contamination of samples

Tips without filter (non-filtered tips):

Suitable when contamination is not a concern

Step 2: Choose your tip type : length and sterile required?

Standard Tips:

To be compatible with your pipette of choice
Available in filtered tips and non-filtered tips

- * Sterile or non-sterile both available
- * Ordinary and low adsorption both available

Extended Length Tips:

According to customer requests
Available in sterile, filtered, sterile non-filtered, or non-sterile non-filtered versions

- * Sterile or non-sterile both available
- * Ordinary and low adsorption both available

Step 3: Choose the volume:

Volume range (10 μ L/20 μ L/100 μ L/200 μ L/300 μ L/1000 μ L/1250 μ L)

Step 4: Choose the packaging type:

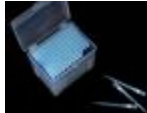
1) Bulk(Bag) Package	1000pcs/bag
2) Box (rack)Package	96pcs/100pcs per box/rack
3) Stack Package	96pcs/rack*10racks /stack

For application with below range, please choose sterilized, filtered pipette tips.
It helps protect both pipettes and samples against contamination.

- Aerosols
- Liquids
- Radioisotope-labeled samples
- Biological materials

Order Information

PHOTO	CAT#	VOLUME	DESCRIPTION	PACKAGE	G.W. (KG)	CARTON SIZE(CM)
Ordinary Pipette Tips (10µL/20µL/100µL/200µL/300µL/1000µL/1250µL)						
Bulk (Bag) Package						
	T-10-D	10µL	10µL Ordinary Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 20bags/Carton	3	44*26*19
	T-10-D-L	10µL	10µL Ordinary Pipette Tips, Extended , Non-sterile, 1000pcs/bag	1000pcs/bag, 20bags/Carton	3	44*26*19
	T-20-D	20µL	20µL Ordinary Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 20bags/Carton	7	60*32*30
	T-100-D	100µL	100µL Ordinary Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 20bags/Carton	7	60*32*30
	T-200-D	200µL	200µL Ordinary Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 20bags/Carton	7	60*32*30
	T-300-D	300µL	300µL Ordinary Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 20bags/Carton	7	60*32*30
	T-1000-D	1000µL	1000µL Ordinary Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 5bags/Carton	6	70*25*34
	T-1250-D	1250µL	1250µL Ordinary Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 5bags/Carton	6	70*25*34
Box (Rack) Package						
	T-10-HS	10µL	10µL Ordinary Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	7	50*35*29
	T-10-HS-L	10µL	10µL Ordinary Pipette Tips, Extended , Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	7	50*35*29
	T-20-HS	20µL	20µL Ordinary Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	8.5	49*40*28
	T-100-HS	100µL	100µL Ordinary Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	8.5	49*40*28
	T-200-HS	200µL	200µL Ordinary Tip, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	8.5	49*40*28

	T-300-HS	300μL	300μL Ordinary Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	8.5	49*40*28
	T-1000-HS	1000μL	1000μL Ordinary Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 100pcs/box	100pcs/box, 50box/Carton	13	60*52*29
	T-1250-HS	1250μL	1250μL Ordinary Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	14	60*49*28
Stack Package						
	T-10-RHS	10μL	10μL Ordinary Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96 pcs/rack, 10racks/stack	96 pcs/rack, 10racks/stack, 5stacks/ Carton	14	45.5*24*26.5
	T-200-RHS	200μL	200μL Ordinary Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96 pcs/rack, 10racks/stack	96 pcs/rack, 10racks/stack, 5stacks/ Carton	17	45*29*26.5
	T-1250-RHS	1250μL	1250μL Ordinary Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96 pcs/rack, 10racks/stack	96 pcs/rack, 10racks/stack, 5stacks/ Carton	28	43*28*27
Low Adsorption Pipette Tips (10μL/20μL/100μL/200μL/300μL/1000μL/1250μL)						
Bulk (Bag) Package						
	TL-10-D	10μL	10μL Low Adsorption Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 20bags/Carton	3	44*26*19
	TL-10-D-L	10μL	10μL Low Adsorption Pipette Tips, Extended , Non-sterile, 1000pcs/bag	1000pcs/bag, 20bags/Carton	3	44*26*19
	TL-20-D	20μL	20μL Low Adsorption Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 20bags/Carton	7	62*32*32
	TL-100-D	100μL	100μL Low Adsorption Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 20bags/Carton	7	62*32*32
	TL-200-D	200μL	200μL Low Adsorption Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 20bags/Carton	7	62*32*32
	TL-300-D	300μL	300μL Low Adsorption Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 20bags/Carton	7	62*32*32
	TL-1000-D	1000μL	1000μL Low Adsorption Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 5bags/Carton	6	70*25*34
	TL-1250-D	1250μL	1250μL Low Adsorption Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 5bags/Carton	6	70*25*34

Box (Rack) Package

	TL-10-HS	10µL	10µL Low Adsorption Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Case	7.0	50*35*29
	TL-10-HS-L	10µL	10µL Low Adsorption Pipette Tips, Extended , Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Case	7.0	50*35*29
	TL-20-HS	20µL	20µL Low Adsorption Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Case	8.5	49*40*28
	TL-100-HS	100µL	100µL Low Adsorption Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Case	8.5	49*40*28
	TL-200-HS	200µL	200µL Low Adsorption Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Case	8.5	49*40*28
	TL-300-HS	300µL	300µL Low Adsorption Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Case	8.5	49*40*28
	TL-1000-HS	1000µL	1000µL Low Adsorption Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 100pcs/box	100pcs/box, 50box/Case	13.0	60*52*29
	TL-1250-HS	1250µL	1250µL Low Adsorption Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Case	14.0	60*49*28

Filter Pipette Tips (10µL/20µL/100µL/200µL/300µL/1000µL/1250µL)

Bulk (Bag) Package

	TF-10-D	10µL	10µL Filter Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 20bags/Case	3.0	44*26*19
	TF-10-D-L	10µL	10µL Filter Pipette Tips, Extended , Non-sterile, 1000pcs/bag	1000pcs/bag, 20bags/Case	3.0	44*26*19
	TF-20-D	20µL	20µL Filter Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 20bags/Case	7.0	60*32*30
	TF-100-D	100µL	100µL Filter Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 20bags/Case	7.0	60*32*30
	TF-200-D	200µL	200µL Filter Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 20bags/Case	7.0	60*32*30
	TF-300-D	300µL	300µL Filter Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 20bags/Case	7.0	60*32*30

	TF-1000-D	1000µL	1000µL Filter Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 5bags/Carton	6.0	70*25*34
	TF-1250-D	1250µL	1250µL Filter Pipette Tips, Non-sterile, 1000pcs/bag	1000pcs/bag, 5bags/Carton	6.0	70*25*34

Box (Rack) Package

	TF-10-HS	10µL	10µL Filter Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	7	50*35*29
	TF-10-HS-L	10µL	10µL Filter Pipette Tips, Extended , Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	7	50*35*29
	TF-20-HS	20µL	20µL Filter Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	8.5	49*40*28
	TF-100-HS	100µL	100µL Filter Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	8.5	49*40*28
	TF-200-HS	200µL	200µL Filter Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	8.5	49*40*28
	TF-300-HS	300µL	300µL Filter Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	8.5	49*40*28
	TF-1000-HS	1000µL	1000µL Filter Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 100pcs/box	100pcs/box, 50box/Carton	13	60*52*29
	TF-1250-HS	1250µL	1250µL Filter Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	14.5	60*49*28

Low Adsorption Filter Pipette Tips (10µL/20µL/100µL/200µL/300µL/1000µL/1250µL)

Box (Rack) Package

	TFL-10-HS	10µL	10µL Low Adsorption Filter Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	7	50*35*29
	TFL-10-HS-L	10µL	10µL Low Adsorption Filter Pipette Tips, Extended , Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	7	50*35*29
	TFL-20-HS	20µL	20µL Low Adsorption Filter Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	8.5	49*40*28
	TFL-100-HS	100µL	100µL Low Adsorption Filter Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	8.5	49*40*28

	TFL-200-HS	200µL	200µL Low Adsorption Filter Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	8.5	49*40*28
	TFL-300-HS	300µL	300µL Low Adsorption Filter Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	8.5	49*40*28
	TFL-1000-HS	1000µL	1000µL Low Adsorption Filter Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 100pcs/box	100pcs/box, 50box/Carton	13	60*52*29
	TFL-1250-HS	1250µL	1250µL Low Adsorption Filter Pipette Tips, Sterile, Non-pyrogenic, DNase/RNase free, 96pcs/box	96pcs/box, 50box/Carton	14.5	60*49*28

1.4 Pipette Stands

Hawach pipette stand has two type:

- Liner stands to hold up to 6 pipettes
- Round stands fits the Advanced Pipette Plus series and hold up to 6 pipettes



Order Information

Item code	Specification	Pcs/Pack
SLPSL001	Linear Stands, holds up to 6 pipettes	1
SLPSR001	Round Stands, fits Advanced Plus Series	1

2. Bottle-Top Dispenser

2.1 Electronic Bottle-Top Dispenser

Features

- Motor operation minimizes the grip force
- Electronic control decreases the repetitive strain injury
- The remote control panel makes the operating process without the manual disturbance
- Two Dispensing modes, dispenser and stepper function options

Note: the bottles sold separately

Specifications

Volume range	0.1~99.9mL, Max piston lift is 10mL, resolution is 100 μ L
Volume accuracy	Dispenser: R = 10mL $\pm$ 30 μ L; CV = 10ml $\pm$ 10 μ L Stepper: R = 1ml $\pm$ 6 μ L; CV = 1ML $\pm$ 9 μ L
Operating temperature range	10°C~30°C
Quality control	DIN EN ISO 8655
Control type	External control

Structure



2.2 Mechanical Bottle-Top Dispenser

Features

- Excellent chemical resistance, components are made of PTFE, FEP, BSG, PP
- Fully autoclavable at 121°C
- Four ranges of bottle-top dispenser covering a volume range from 0.5mL to 50mL
- Easy for cleaning and maintenance
- The optional flexible discharge tube with safety handle permits fast and precise dispensing
- Vapor pressure Max: 500 mbar, viscosity max: 500 mm²/s, temperature max: 40°C, density max: 2.2g/cm³
- It is supplied with S40, GL32, GL38, GL25, GL28 sized adaptors

Structure



Specifications

Product	Volume Range (mL)	Graduation (mL)	A $\leq$ $\pm$		CV $\leq$	
			%	μ L	%	μ L
1	0.5-5	0.1	0.5	25	0.1	5
2	1.0-10	0.2	0.5	50	0.1	10
3	2.5-25	0.5	0.5	125	0.1	25
4	5.0-50	1.0	0.5	250	0.1	50

Some accessories are applied for different bottles, the list are show below:

Products	Description	Products	Description
1	GL45, Adapter, 45mm	5	GL25, Adapter, 32/25mm
2	S40, Adapter, 45/40mm	6	GL28, Adapter, 32/28mm
3	GL32, Adapter, 45/32mm	7	Reagent Bottle (Brown, 1L, Options)
4	GL38, Adapter, 45/38mm	8	Filling tube(m)
9	Discharge tube(m)		

Order Information

Item Code	Product name	Volume	Specification	Pcs/Pack
Electronic Bottle-Top Dispenser				
SLEBT001	Electronic Bottle-Top Dispenser	0.1-99.9 ml	USA plug, 100V-220V/50Hz/60Hz	1
SLEBT002	Electronic Bottle-Top Dispenser		Cn plug, 100V-220V/50Hz/60Hz	1
SLEBT003	Electronic Bottle-Top Dispenser		Euro plug, 100V-220V/50Hz/60Hz	1
SLEBT004	Electronic Bottle-Top Dispenser		UK plug, 100V-220V/50Hz/60Hz	1
Mechanical Bottle-Top Dispenser				
SLMBT001	Mechanical Bottle-Top Dispenser	0.5-5ml	-	1
SLMBT002	Mechanical Bottle-Top Dispenser	1-10ml	-	1
SLMBT003	Mechanical Bottle-Top Dispenser	2.5-25ml	-	1
SLMBT004	Mechanical Bottle-Top Dispenser	5-50ml	-	1

3. Stepper

Features

- Hawach stepper tips are particularly suitable for dispensing of fluids with high viscosity, high vapor pressure etc.
- Tips are made from high-quality materials (Cylinder: PP, Piston: PE-HD) without soft lubricants or other additives.



Stepper Tips Specification

The first and last dispensing liquid should be discarded for precision.

Dial setting		1	2		3			4		5
Number of steps		48	23		15			11		8
product	Syringe Volume (mL)	Sample Volume (uL)					A%		P%	Description
1	0.5	10	20	30	40	50	±0.8	≤ 0.7	0,5 ml, piston PE-HD, cylinder PP, 1 packing, 5 pcs/packing	
2	1.25	25	50	75	100	125	±0.8	≤ 0.5	1,25 ml, piston PE-HD, cylinder PP, 1 packing, 5 pcs/packing	
3	2.50	50	100	150	200	250	±0.8	≤ 0.4	2,5 ml, piston PE-HD, cylinder PP, 1 packing, 5 pcs/packing	
4	5.00	100	200	300	400	500	±0.4	≤ 0.3	5ml, piston PE-HD, cylinder PP, 1 packing, 5 pcs/packing	
5	12.50	250	500	750	1000	1250	±0.3	≤ 0.3	12,5 ml, piston PE-HD, cylinder PP, 1 packing, 5 pcs/packing	
6	25.00	500	1000	1500	2000	2500	±0.2	≤ 0.3	25ml, piston PE-HD, cylinder PP, 1 packing, 2pcs/packing with 1 pc adaptor	
7	50.00	1000	2000	3000	4000	5000	±0.2	≤ 0.2	50ml, piston PE-HD, cylinder PP, 1 packing, 2pcs/packing with 1 pc adaptor	

Order Information

Item code	Specification	Pcs/Pack
SLSSM001	Hawach Stepper	1
SLSSMT001	Tips for stepper, 0,5 ml, piston PE-HD, cylinder PP, 5 pcs/pk	5
SLSSMT002	Tips for stepper, 1,25 ml, piston PE-HD, cylinder PP, 5 pcs/pk	5
SLSSMT003	Tips for stepper, 2,5 ml, piston PE-HD, cylinder PP, 5 pcs/pk	5
SLSSMT004	Tips for stepper, 5ml, piston PE-HD, cylinder PP, 5 pcs/pk	5
SLSSMT005	Tips for stepper, 12,5 ml, piston PE-HD, cylinder PP, 5 pcs/pk	5
SLSSMT006	Tips for stepper, 25ml, piston PE-HD, cylinder PP, 2pcs/pk with 1pc adaptor	2
SLSSMT007	Tips for stepper, 50ml, piston PE-HD, cylinder PP, 2pcs/pk with 1pc adaptor	2
SLSSMT008	Tips for stepper, 25/50ml adaptor, 10 pcs/pk	10