

HandyStep® S

The BRAND® HandyStep® S repeating pipette provides unprecedented versatility in a purely mechanical repeating pipette. In conjunction with BRAND® PD-Tip™ Precision Dispenser Tips, the HandyStep® S offers nearly sixty different volume settings with accuracy, precision, and dependability.

- **Comfortable**—The slim design of the HandyStep® S is lightweight, well-balanced, and provides a convenient control layout for smooth dispensing and one-handed volume selection.
- **Reliable**—The robust construction, using innovative polymers, delivers a dependable instrument.
- **Ready-to-go**—The mechanical design, with no batteries to charge or replace, means the HandyStep® S is ready when you are. A convenient integrated table provides a quick reference for dispensed volumes.
- **Flexible**—Ten sizes of PD-Tip™ Precision Dispenser Tips allow the HandyStep® S to dispense 59 different volumes. The open design allows use of third party tips—no more being locked into a sole source.
- **Contact-free**—The tip ejection system allows tip removal without handling.

More than just precise—
slim, light, and dependable



Technical Data

Operating limits and exclusions

Liquids unsuitable for use with the HandyStep® S include, but are not limited to, those with:

- Vapor pressure exceeding 500 mbar
- Viscosity: 20 mPa s with 50 mL PD-Tips™; 260 mPa s with 5 mL PD-Tips™; 977 mPa s with 1 mL PD-Tips™
- Reagents that attack PP (PD-Tip™ cylinder), HDPE (PD Tip™ piston), LCP (PD-Tip™ piston 0.1 mL) or PC/PBT and polycarbonate
- Temperature of instrument and reagent must be between 15° and 40° C
- Instrument and tips must not be autoclaved

Items supplied

The HandyStep® S is supplied with the following items:

- Performance certificate
- Shelf/rack mount
- One each: 0.1 mL, 1 mL and 10 mL PD-Tip™ Precision Dispenser Tips
- Operating manual
- Two-year warranty

HandyStep® S Repeating Pipette

Setting at a glance

Easy to read volume setting indicator

Perfectly aligned

Dispensing lever optimally positioned for easy thumb movement

Simple

Combined piston locking/filling lever makes aspiration easy

Hands-free disposal

Ergonomic tip ejector, for safe and contact-free ejection of contaminated dispenser tips

Chart topper

Tip/volume chart assists with tip selection and volume setting

Big wheel

Volumes easily adjusted with a simple thumb movement

Comfortable

Finger rest provides balance, convenient control access, and relaxed pipetting

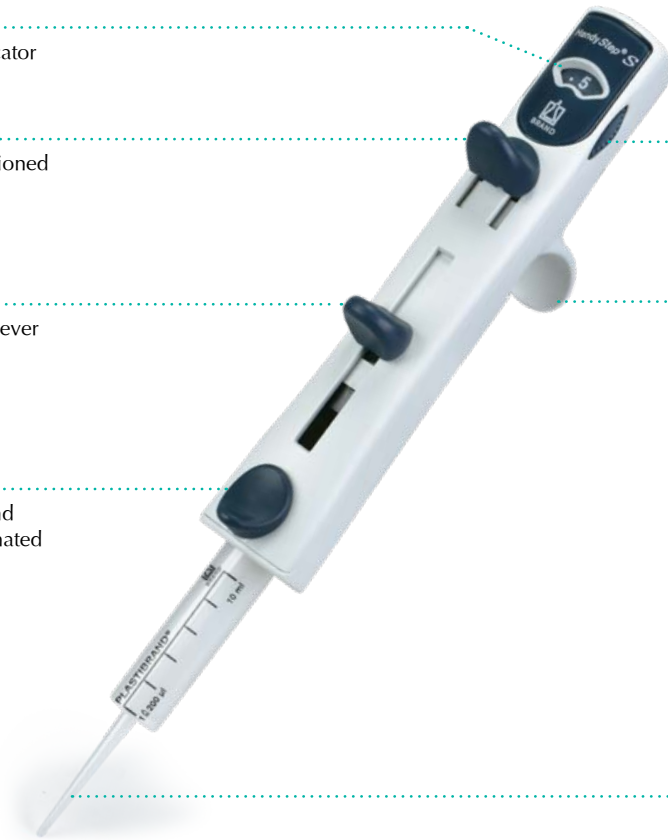
Shelf/rack mount

Shelf/rack mount keeps your HandyStep® S close at hand and retrofits to Transferpette® S carousel stand



Flexible

Compatible with PD-Tip™ Precision Dispenser Tips, as well as many third-party tips



HandyStep® S with BRAND® PD-Tip™ Precision Dispenser Tips

Accuracy Table

Nominal Volume PD-Tip™, mL	Volume Range, µL	Stroke setting Δ % of nominal volume ($A^* \leq \pm$ %)			Stroke setting Δ % of nominal volume ($CV^* \leq$ %)		
		1 Δ 2%	3 Δ 6%	5 Δ 10%	1 Δ 2%	3 Δ 6%	5 Δ 10%
0.1	2-10	4.0	2.4	1.6	6.0	3.0	2.0
0.5	10-50	2.5	1.5	1.0	2.5	1.5	1.0
1	20-100	2.5	1.5	1.0	2.0	1.2	0.8
1.25	25-125	2.5	1.4	0.9	2.0	1.1	0.7
2.5	50-250	1.8	1.1	0.7	1.5	0.9	0.6
5	100-500	1.8	1.1	0.7	1.5	0.9	0.7
10	200-1000	1.8	1.1	0.7	2.0	1.2	0.8
12.5	250-1250	1.8	1.1	0.8	3.2	2.0	1.4
25	500-2500	1.5	0.9	0.6	3.04	1.5	1.0
50	1000-5000	1.5	0.8	0.5	5.0	1.8	1.2

A*=Accuracy, CV*=Coefficient of Variation

*Error limits refer to the partial volume set relative to the PD-Tip™, obtained when instrument, PD-Tip™ and distilled water are equilibrated at ambient temperature (20° C) and with smooth operation. The testing is according to DIN EN ISO 8655-5.

Note: the nominal volume is the maximum adjustable partial volume for each PD-Tip™ size.

Volume table

Setting	1	1.5	2	2.5	3	3.5	4	4.5	5
PD-Tip™, mL	Volume, µL								
0.1	2	3	4	5	6	7	8	9	10
0.5	10	15	20	25	30	35	40	45	50
1	20	30	40	50	60	70	80	90	100
1.25	25	37.5	50	62.5	75	87.5	100	112.5	125
2.5	50	75	100	125	150	175	200	225	250
5	100	150	200	250	300	350	400	450	500
10	200	300	400	500	600	700	800	900	1000
12.5	250	375	500	625	750	875	1000	1125	1250
25	500	750	1000	1250	1500	1750	2000	2250	2500
50	1000	1500	2000	2500	3000	3500	4000	4500	5000
Steps	49	32	24	19	15	13	11	10	9

Ordering information

Description	Cat. No.	2019 List Price
HandyStep® S repeating pipette	705110	\$389.20
HandyStep® S shelf/rack mount	705130	32.00

HandyStep[®] electronic

The BRAND[®] HandyStep[®] electronic is a microprocessor-controlled, motorized repeating pipette that combines broad tip compatibility and user comfort with the convenience and efficiency of an electronic pipette.

- Works with all standard tips—**
 The HandyStep[®] electronic is compatible with BRAND[®] PD-Tip[™] Precision Dispenser Tips, Eppendorf[®] Combitips advanced[®], and more.
- Recognizes tips automatically—**
 The pipette automatically recognizes the size of encoded BRAND[®] PD-Tip[™] Precision Dispenser Tips upon tip insertion and displays the tip's volume, default dispensing volume, and default number of dispensing steps.
- Reduces repetitive motion by up to 97%—**The instrument features a unique Auto-Dispense operating mode in which the pipette “learns” the operator’s dispensing rhythm and dispenses at that rhythm as long as the control button is depressed—no programming needed.

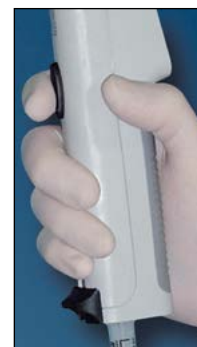
Battery compartment

Users can swap batteries in seconds for virtually continuous pipetting.



Control button

Just a subtle squeeze of the index finger on this button controls aspiration and dispensing for effortless pipetting.



Tip recognition mechanism

The rugged tip recognition mechanism enables the instrument to automatically display the tip volume and default dispensing volume, when a BRAND[®] PD-Tip[™] Precision Dispenser Tip is inserted.

Rapid, relaxed, and reliable
repetitive pipetting from BRAND[®]



Technical Data

Operating limits and exclusions

Liquids unsuitable for use with the HandyStep® electronic and PD-Tip™ Precision Dispenser Tips include, but are not limited to, those with:

- Vapor pressure exceeding 500 mbar
- Viscosity: 20 mPa S with 50 mL PD-Tips™; 260 mPa S with 5 mL PD-Tips™; 977 mPa S with 1 mL PD-Tips™
- Chemicals incompatible with tips used, see page 30 for PD-Tip™ materials of construction
- Temperature of instrument and reagents must be between 15° and 40° C
- The HandyStep® electronic cannot be autoclaved

Items supplied

Each HandyStep® electronic includes:

- NiMH battery
- Charging stand with 110 V power supply
- Five assorted volume PD-Tip™ Precision Dispenser Tips
- Performance certificate
- Operating manual
- One-year warranty

Use the tips you want

The only electronic repetitive pipette compatible with all standard Precision Dispenser Tips, the HandyStep® electronic accepts:

- BRAND® PD-Tip™ Precision Dispenser Tips
- Rainin® Encode™ Precision Dispenser Tips
- Eppendorf® Combitips advanced®
- Fisherbrand® Dispenser Tips
- VWR® Combi-Syringes
- Gilson® Repet-Tips

Accuracy and precision for the HandyStep® electronic

PD-Tip™	Volume Range	Volumes Between	Increment	A* < ±				CV* ≤			
				100%	50%	10%	1%	100%	50%	10%	1%
0.1 mL	1 µL-100 µL	1 µL-100 µL	0.1 µL	1.0	1.0	1.6	8.0	0.5	1.0	2.0	12
		5 µL-100 µL	0.1 µL								
0.5 mL	5 µL-500 µL	100 µL-500 µL	1 µL	0.9	0.9	1	5.0	0.3	0.6	1.0	5.0
1.0 mL	10 µL-1000 µL	10 µL-1000 µL	1 µL	0.6	0.9	1.0	5.0	0.3	0.5	0.8	4.0
		12.5 µL-100 µL	0.5 µL								
1.25 mL	12.5 µL-1250 µL	100 µL-1000 µL	1 µL								
		1 mL-1.25 mL	10 µL	0.6	0.6	0.9	5.0	0.2	0.5	0.7	4.0
2.5 mL	25 µL-2500 µL	25 µL-1000 µL	1 µL								
		1 mL-2.5 mL	10 µL	0.5	0.6	0.7	3.5	0.15	0.3	0.6	3.0
5.0 mL	50 µL-5000 µL	50 µL-1000 µL	1 µL								
		1 mL-5 mL	10 µL	0.5	0.5	0.7	3.5	0.15	0.4	0.7	3.0
10.0 mL	100 µL-10 mL	100 µL-10 mL	10 µL	0.4	0.5	0.7	3.5	0.15	0.5	0.8	4.0
		125 µL-1000 µL	5 µL								
12.5 mL	125 µL-12.5 mL	1 mL-10 mL	10 µL								
		10 mL-12.5 mL	100 µL	0.5	0.5	0.8	3.5	0.15	0.6	1.4	6.5
25.0 mL	250 µL-25 mL	250 µL-10 mL	10 µL								
		10 mL-25 mL	100 µL	0.5	0.5	0.6	3.0	0.15	0.3	1.0	6.0
50.0 mL	500 µL-50 mL	500 µL-10 mL	10 µL								
		10 mL-50 mL	100 µL	0.5	0.5	0.5	3.0	0.15	0.4	1.2	9.0

A* = Accuracy, CV* = Coefficient of variation

*Error limits refer to the nominal volumes and partial volumes relative to the PD-Tip™ obtained with instrument and distilled water at equilibrium with ambient temperature at 20° C, and with smooth operation. The error limits defined in ISO 8655 are not exceeded.

The nominal volume is the maximum volume which is printed on the PD-Tip™.

Ordering information

Description	Cat. No.	2019 Cat. No.
HandyStep® electronic with charging stand & NiMH battery, 110 V, 50-60 Hz	705002	\$1,049.00

Spare parts & accessories

Spare NiMH battery	705025	77.20
Charging stand	705020	226.40
AC adapter, 110 V	705052	84.40

