Certified Ergonomics – For really relaxed work!

BRAND

Transferpette®
electronic

F I R S T C L A S S · B R A N D

The First...Worldwide! Ergonomics – approved and certified.
Now, the BRAND Transferpette® electronic pipettes combine the innovation of BRAND mechanical pipettes with electronic control and motorized operation to optimize ergonomics, accuracy and ease of use. All confirmed by the Technical Control Board of Rhineland with the Ergonomics Certificate.

- **Ergonomic**
  - Functional, ergonomic case design
  - Individually adjustable finger rest
- **Easy operation**
  - Intuitive menu structure
  - Comprehensively illustrated user manual
- **Innovative**
  - Significantly reduced tip attachment and ejection forces
- **Five convenient programs**
  - Pipetting
  - Reverse pipetting
  - Mixing
  - Electrophoresis
  - Dispensing
- **Ready for use**
  - 4000 pipetting cycles with one battery charge
  - Battery refresh function
- **Models**
  - Single-channel pipettes: 0.5 - 10 µl, 2 - 20 µl, 20 - 200 µl, 100 - 1000 µl, 0.5 - 5 ml
  - Multichannel pipettes: 0.5 - 10 µl, 1 - 20 µl, 5 - 100 µl, 10 - 200 µl, 15 - 300 µl

TÜV Rheinland Product Safety
ERGONOMIE GEPRÜFT
ERGONOMICS APPROVED

Certified Ergonomics

The first worldwide!

The Transferpette® electronic was the first microliter pipette recognized with the ergonomics approved certificate from the Technical Control Board Rhineland/Berlin-Brandenburg!

Independent and neutral user tests confirm the ergonomics and the operating ease of the product and system! A user acceptance rating of **1.54** for the single-channel Transferpette® electronic is an outstanding result. You can obtain information about the single- and multichannel Transferpette® electronic pipettes at www.tuv.com; ID No. 0011105500 and 5211207400.

Ergonomic

Easy to Use

User Tested

Technical Control Board Certificate for the Transferpette® electronic

Technical Control Board Certificate for the Transferpette®-8/-12 electronic

Certified Ergonomics

Adapts to your hand

The optimal position of the thumb relative to the functional elements of the pipette is the starting point for a relaxed grip. The relaxed hand is an essential part of avoiding Repetitive Strain Injuries – RSI – from serial pipetting operations. The adjustable finger rest lets the Transferpette® electronic adapt to your hand for greatest comfort, whether you are left- or right-handed.

Easy handling – simple to operate

The menus are simple and obvious...there's no long learning curve or complicated programming. You just select the pipetting technique you've always used with mechanical pipettes, but benefit from a power-assist! The technical instructions are especially user friendly and always guide you through all functions with explanatory illustrations and straight-forward explanations.

Lightweight

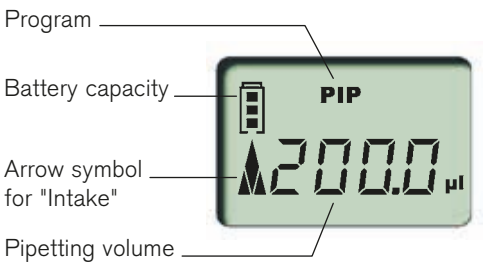
Innovative engineering and high quality materials preserve the light weight of the popular mechanical Transferpette® pipettes, while adding the control advantages of electronics.

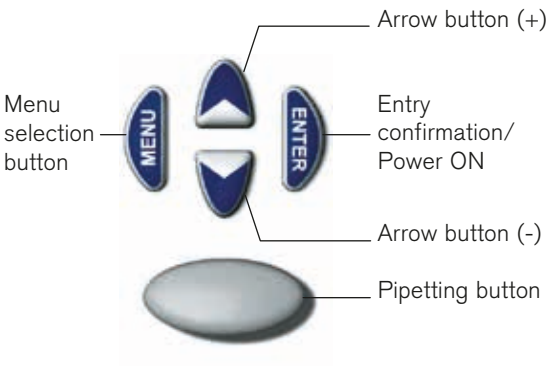
Independently approved and confirmed!

The Transferpette®-8/-12 electronic received the Ergonomics Certificate with a user acceptance rating of **1.55** – outstanding!

Minimal Operating Forces!

Ergonomics at the Center





Designed for comfort in your relaxed hand, the Transferpette® electronic adds simple operating software and well-illustrated documentation to produce a uniquely user-friendly experience.

Everything is easy

Don't strain yourself!

Adjustable finger rest

Intensive and repeated work with poor ergonomic design can lead to muscular problems from the recurring stress. This is known as repetitive strain injury (RSI).

In the laboratory, such injuries include tenosynovitis and carpal tunnel syndrome.
To allow you to perform pipetting in a relaxed manner, the Transferpette® electronic has a continuously adjustable finger rest.

This allows every user – whether right- or left-handed, with large hands or small – to position the pipette in the hand so that the functional elements are within easy reach. The grip remains natural and comfortable for near effortless operation.

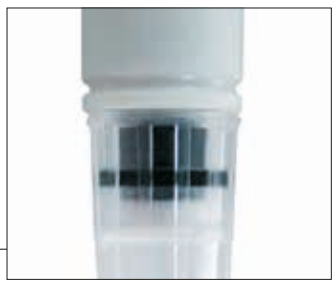
An even lower-force option!

Tip cone with soft-seal components!

Accessories:

Two optional accessories are avaiblable for the single-channel Transferpette® models with volume ranges of 20-200 µl and 100-1000 µl. One is a patented shaft tip that is co-molded of hard and resilient components. These unique tips provide a reliable but gentle seal against tips from many manufacturers, and also release with minimum of force. Also available are three ejector clips sized to serve as tip-mounting stops for tips from other manufacturers. These ensure that tips are not mounted with more force than needed to seal, so that tip ejection will take only a light touch.

The benefits of these accessories are especially noticeable in prolonged pipetting runs,where the cumulative strain of repetitive pipetting is the greatest risk.



Visual inspection!

A resilient sealing ring not only adapts the pipette to small tip variations, but also provides a very distinct visual check for the correct seating and sealing of the tip.

Ejector Clips

Not available on single-channel models with volume ranges of 0.5 - 10 µl, 2 - 20 µl or 0.5 - 5 ml

The Programs

A Focus on the Essentials

Besides pipetting comfort, an important design goal for the Transferpette® electronic was rapid and intuitive work, and simple, fast program changes. The objective was to gain the advantages of electronic operation with no trade-offs.

To simplify operation, complicated progams for rarely used functions were omitted. Thus, the Transferpette® electronic includes all of the functions used routinely in mechanical pipettes, while adding the ergonomic and performance advantages of power-assisted operation and digital accuracy. The functions of the Transferpette® electronic are simple to set and convenient to use.

Pipetting (PIP Mode)

The "standard" program. The set volume is aspirated by the pipette, and then discharged.

Mixing of Samples (PIPmix Mode)

Program for mixing of liquids. The sample is repeatedly aspirated and discharged, and the number of mixing cycles is displayed.

Reverse Pipetting (revPIP Mode)

Program specially designed for the pipetting of liquids with a high viscosity, high vapor pressure or foamy media.

Pipetting with Electrophoresis (GEL Mode)*

Program for loading of electrophoresis gels. The required sample volume is aspirated. During discharge, the volume being dispensed is tracked continuously, allowing the user to stop discharge to avoid over-filling sample wells. The pipette records the exact volume dispensed to ensure accuracy of sample mass calculations. GEL mode may also be used for micro-titrations. The GEL mode is patented.

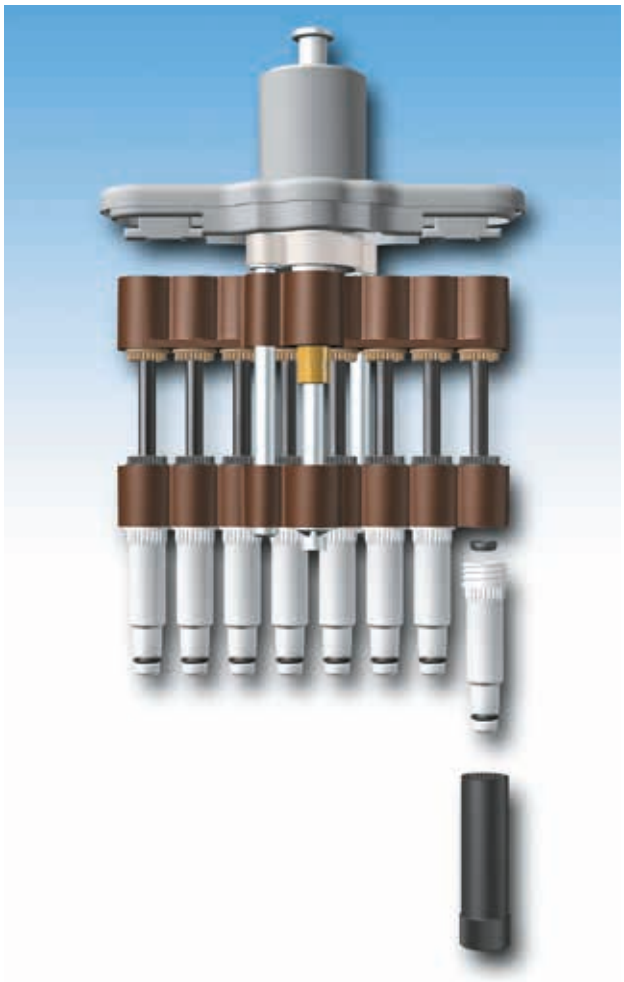
Dispensing (DISP Mode)

A program for the dispensing of liquids in a series of equal aliquots. A volume that has been aspirated is dispensed in steps.

* The GEL mode is not included in the Transferpette® electronic 1000 µl and 5000 µl because these volumes are rarely used in electrophoresis.

Easy to Service

Exchangeable Individual Nose Cones



The operation of 8- or 12-channels simultaneously multiplies the risk of RSI if the forces are not properly managed. The Transferpette® electronic manages them with a simple tap of the pipetting button; pipetting forces are uniform and negligible. A combination of innovations – including resilient V-rings on the tip cones, a stepped tip ejector, the manifold stabilizer and adjustable hand position – all work together to creatively reduce ejection forces when working with a 8- or 12-channel Transferpette® electronic.

The manifold for the Transferpette®-8/-12 electronic has been completely newly developed. Tip cones and seals can now be individually replaced – in the laboratory!

Individual shafts with seals can be easily unscrewed with only a simple gripping tool, which is supplied. Tip cones and seals can now be easily cleaned or replaced. This patented procedure eliminates the expense and long outages associated with sending pipettes out for service, ensuring long service life and low operating costs.

Recalibration is not required!

Saves Work

Stepped surface **FKM seal ring**

The shaft and resilient, V-shaped FKM seal rings are designed so that only minimal attachment force is needed for solid and parallel tip seating. The stepped design allows the ejection force to be distributed to tips sequentially, but within fractions of a second, reducing ejection forces by 75% or more compared with unstepped ejector designs.

Minimal Operating Force!

Freely rotatable over 360° in both directions! Complete manifold can be autoclaved!

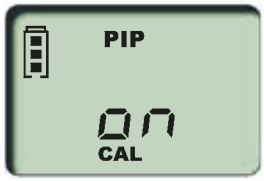
The pipette manifold is freely rotatable with respect to the handle over 360° in both directions, so that you can always work at a relaxed and convenient angle to the titer plate.

Unscrew the manifold from the grip with a few quick turns, and autoclave the entire manifold at 121°C without any further disassembly.

What else would you like?

Useful and Practical

Easy Calibration



Activate function...

...Set...

...Finished!

Every laboratory that is certified according to ISO 9001 or accredited according to ISO/IEC 17 025 or works according to the GLP/GMP guidelines must regularly calibrate its testing equipment and adjust as necessary. The Transferpette® electronic allows you to make simple and quick adjustments without any additional tools. The symbol "CAL" in the display shows that an adjustment was made.

The Battery Refresh Function

For improved performance and to lengthen the service life of the batteries, the Transferpette® electronic is the first (and so far only) microliter pipette with a regenerating (refresh) function. When needed, the battery is fully discharged and recharged by a program-controlled mode to regenerate the storage capacity of the battery.

No Downtime!

The Transferpette® electronic draws its energy from an NiMH battery.

One battery charge allows you to perform over 4000 pipetting cycles.

During the charging process, you can continue to pipette, taking advantage of the handy one-meter charging cable.

Attractive individual stands

for the Transferpette® electronic.

One for All

Each pipette is supplied with its own power supply unit. As an alternative, you can use the three-pipette charging stand to charge up to three single-channel pipettes at the same time. Pipettes charged with the charging stand cannot be used while charging.

Tip Top Performance...

...for better handling and best results.

Pipette tips and filter tips from BRAND are manufactured under clean-room conditions and automatically racked and ecologically packaged. Tips are made of high quality polypropylene with high material transparency. A system consisting of various package units and an ecological rack packed version for sterile tips allows you to work in an easy and pleasant manner. They have clean, exactly centered tip orifices, as well as perfect hydrophobic surfaces. They can be autoclaved at 121 °C.

Racked pipette and filter tips are manufactured from colorless granulates. The carrier plates are colored for easy identification.
The environmentally friendly system makes the transfer of our sterile BIO-CERT® tips into the autoclaved Tip-Box SL easier.
The refilling units (Tip-Racks) are made of environmentally friendly and recyclable PET, and the system generates the minimum of packaging waste.

Sterile
Tip-Rack S

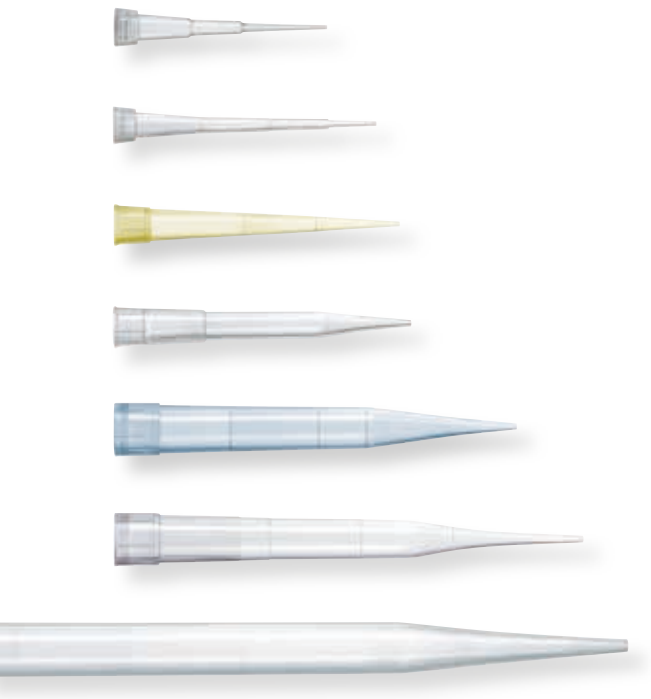
The Tip-Box SL

The lid concept is ideal for working with 1-channel and 8-/12-channel pipettes. The innovative sliding/rock lid can be easily opened and moved in four directions with one finger. Just slide it to the left or the right to work with 8-channel pipettes. Rock to the rear or the front to use 12-channel pipettes. Unused tips remain covered, and the risk of contamination is minimized. The ruggedly built Tip-Box SL can be autoclaved at 121 °C for 20 minutes. It can be refilled with rack packed non-sterile tips (Tip-Rack) or with sterile tips (Tip-Rack S).

Pipette Tips

Compatibility

Pipette Tips



nano-cap™ 0.1 - 20 µl

Crystal 0.5 - 20 µl

Yellow/neutral 2 - 200 µl

Neutral 5 - 300 µl

Blue/neutral 50 - 1000 µl

Neutral 50 - 1250 µl

Neutral 0.5 - 5 ml

Single-channel Pipettes	nano-cap™ 0.1 - 20 µl	Crystal 0.5 - 20 µl	Yellow/neutral 2 - 200 µl	Neutral 5 - 300 µl	Blue/neutral 50 - 1000 µl	Neutral 50 - 1250 µl	Neutral 0.5 - 5 ml
Transferpette® electronic 0.5 - 10 µl	+	+					
Transferpette® electronic 2 - 20 µl	+	+					
Transferpette® electronic 20 - 200 µl			+	+			
Transferpette® electronic 100 - 1000 µl					+	+	
Transferpette® electronic 500 - 5000 µl							+
Multichannel Pipettes							
Transferpette®-8/-12 electronic, 0.5 - 10 µl	+	+					
Transferpette®-8/-12 electronic, 1 - 20 µl	+	+					
Transferpette®-8/-12 electronic, 5 - 100 µl			+	+			
Transferpette®-8/-12 electronic, 10 - 200 µl			+	+			
Transferpette®-8/-12 electronic, 15 - 300 µl			+*	+			

Transferpette® electronic 5000 µl

Filter Tips

0.1 - 1 µl

0.5 - 10 µl

2 - 20 µl

5 - 100 µl

5 - 200 µl

50 - 1000 µl

Single-channel Pipettes	0.1 - 1 µl	0.5 - 10 µl	2 - 20 µl	5 - 100 µl	5 - 200 µl	50 - 1000 µl
Transferpette® electronic 0.5 - 10 µl	+*	+				
Transferpette® electronic 2 - 20 µl		+				
Transferpette® electronic 20 - 200 µl			+	+*	+	
Transferpette® electronic 100 - 1000 µl						+*
Transferpette® electronic 500 - 5000 µl						
Multichannel Pipettes						
Transferpette®-8/-12 electronic, 0.5 - 10 µl	+*	+				
Transferpette®-8/-12 electronic, 1 - 20 µl		+				
Transferpette®-8/-12 electronic, 5 - 100 µl			+*	+		
Transferpette®-8/-12 electronic, 10 - 200 µl			+*	+*	+	
Transferpette®-8/-12 electronic, 15 - 300 µl				+*	+*	

* Please note:
Tip volume less than nominal volume of the pipette.

For selection of non-sterile and sterile rack packed tips, see the General Catalog.

CE

IVD

Ordering Information

CE
IVD

Transferpette® electronic

		0.5 - 10 µl Cat. No.	2 - 20 µl Cat. No.	20 - 200 µl Cat. No.	100 - 1000 µl Cat. No.	500 - 5000 µl Cat. No.	3-device stand Transferpette® electronic	Individual stand Transferpette® electronic, up to 1000 µl	500 - 5000 µl
with power supply unit									
for Europe (continent)	230V/50 Hz	7052 99	7053 00	7053 03	7053 06	7053 07	7053 90		
for UK/Ireland	230V/50 Hz	7053 09	7053 10	7053 13	7053 16	7053 17	7053 91		
for USA/Japan	110V/50-60 Hz	7053 19	7053 20	7053 23	7053 26	7053 27	7053 92		
for Australia	240V/50 Hz	7053 29	7053 30	7053 33	7053 36	7053 37	7053 93		
without power supply unit		7053 39	7053 40	7053 43	7053 46	7053 47		7053 85	7053 86

Transferpette®-8 electronic

		0.5 - 10 µl Cat. No.	1 - 20 µl Cat. No.	5 - 100 µl Cat. No.	10 - 200 µl Cat. No.	15 - 300 µl Cat. No.
with power supply unit						
for Europe (continent)	230V/50 Hz	7053 99	7054 00	7054 03	7054 04	7054 06
for UK/Ireland	230V/50 Hz	7054 09	7054 10	7054 13	7054 14	7054 16
for USA/Japan	110V/50-60 Hz	7054 19	7054 20	7054 23	7054 24	7054 26
for Australia	240V/50 Hz	7054 29	7054 30	7054 33	7054 34	7054 36

Transferpette®-12 electronic

		0.5 - 10 µl Cat. No.	1 - 20 µl Cat. No.	5 - 100 µl Cat. No.	10 - 200 µl Cat. No.	15 - 300 µl Cat. No.
with power supply unit						
for Europe (continent)	230V/50 Hz	7054 49	7054 50	7054 53	7054 54	7054 56
for UK/Ireland	230V/50 Hz	7054 59	7054 60	7054 63	7054 64	7054 66
for USA/Japan	110V/50-60 Hz	7054 69	7054 70	7054 73	7054 74	7054 76
for Australia	240V/50 Hz	7054 79	7054 80	7054 83	7054 84	7054 86

Final test values related to nominal value, which is printed on the device (= max. volume) and the indicated volume steps, according to DIN EN ISO 8655.

Precision values for the Transferpette® electronic

Volume range µl	Partial volume, µl	A* ≤ ± %	CV** ≤ %	Increment µl	Tip type µl
0.5 - 10	10	1.0	0.4	0.01	20
	5	1.5	0.8		
	1	5.0	2.0		
2 - 20	20	1.0	0.4	0.02	20
	10	1.5	0.8		
	2	5.0	2.5		
20 - 200	200	0.8	0.2	0.2	200/300
	100	1.2	0.3		
	20	4.0	0.6		
100 - 1000	1000	0.6	0.2	1.0	1000
	500	1.0	0.3		
	100	3.0	0.6		
500 - 5000	5000	0.6	0.2	5.0	5000
	2500	1.0	0.3		
	500	3.0	0.6		

A* = Accuracy, CV** = Coefficient of variation

Precision values for the Transferpette®-8/-12 electronic

Volume range µl	Partial volume, µl	A* ≤ ± %	CV** ≤ %	Increment µl	Tip type µl
0.5 - 10	10	1.2	0.8	0.01	20
	5	2.0	1.5		
	1	8.0	4.0		
1 - 20	20	1.0	0.5	0.02	20
	10	2.0	1.0		
	2	8.0	3.0		
5 - 100	100	0.8	0.25	0.1	200/300
	50	1.6	0.4		
	10	4.0	1.5		
10 - 200	200	0.8	0.25	0.2	200/300
	100	1.4	0.4		
	20	4.0	1.3		
15 - 300	300	0.6	0.25	0.5	300
	150	1.2	0.4		
	30	3.0	1.2		

A* = Accuracy, CV** = Coefficient of variation

Items supplied

Transferpette® electronic, battery, power supply unit, silicon oil.

Transferpette®-8/-12 electronic, battery, power supply unit, device stand, tip-box SL, refill units, reagent reservoir and silicon oil.

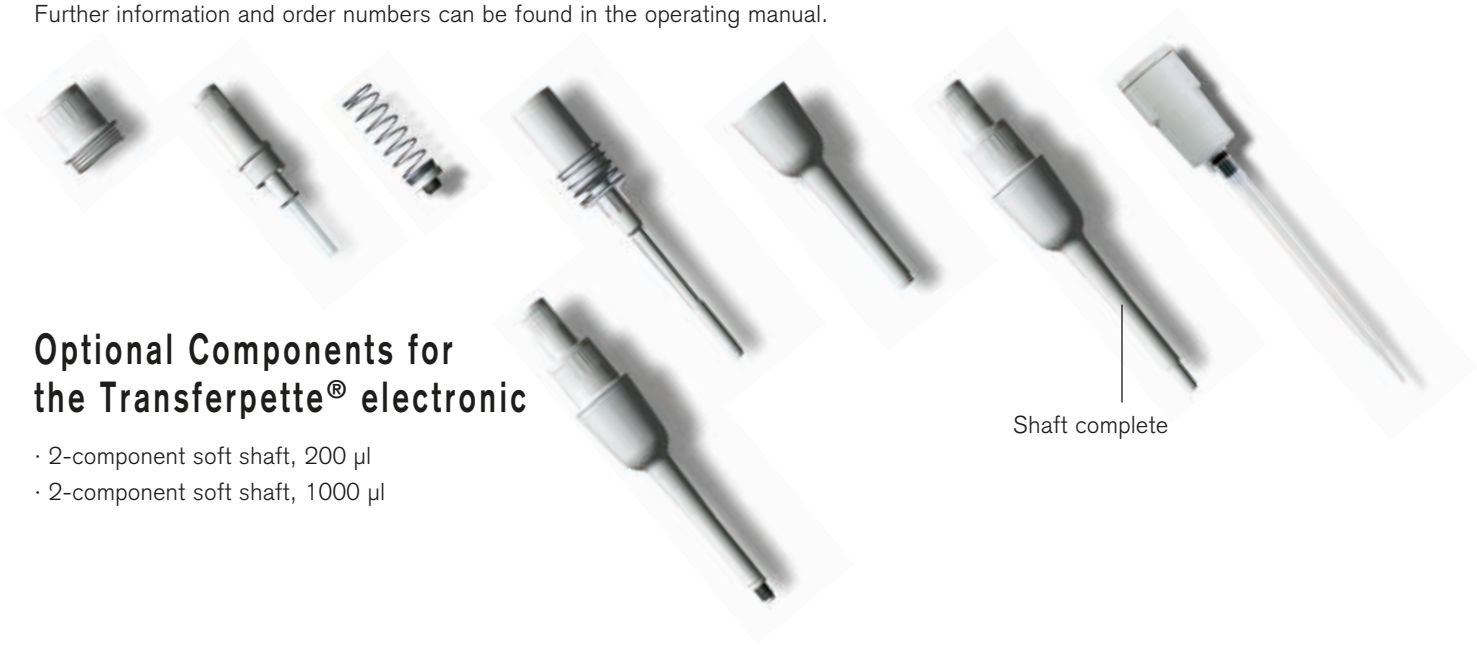
Service

Spare Parts · Servicing · Accessories

Spare Parts Transferpette® electronic

The pipette shaft for the Transferpette® electronic can be unscrewed and can be completely autoclaved at 121 °C at 2 bar for 20 minutes induction time (t_e) according to DIN.

In order to allow simple servicing and cleaning, the pipette shaft can be disassembled if necessary. All components, which are shown, can be replaced and are available as individual spare parts. Further information and order numbers can be found in the operating manual.

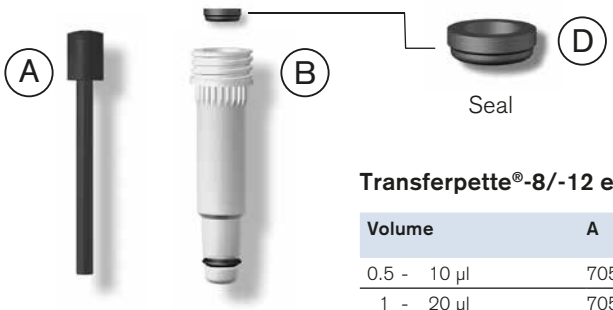


Optional Components for the Transferpette® electronic

· 2-component soft shaft, 200 µl
· 2-component soft shaft, 1000 µl

Spare Parts Transferpette®-8/-12 electronic

The design and measurements of the spare parts correspond to the particular nominal volume (Fig. spare parts Transferpette®-8/-12 electronic 10 - 100 µl).



Transferpette®-8/-12 electronic

Volume	A	B	C	D
0.5 - 10 µl	7056 59	7056 77	7033 80	7033 40
1 - 20 µl	7056 71	7056 78	7033 80	7033 41
5 - 100 µl	7056 62	7056 82	7034 91	7056 44
10 - 200 µl	7056 63	7056 83	7034 91	7056 45
15 - 300 µl	7056 64	7056 84	7034 91	7033 46

Reagent reservoir, PP

Volume	Pack of	Cat. No.
60 ml	10	7034 59

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