

Certified Ergonomics – For really relaxed work!



# 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



# 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 multi-channel Transferpette® electronic pipettes at [www.tuv.com](http://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.

## Lightweight

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

## 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.

## Independently approved and confirmed!

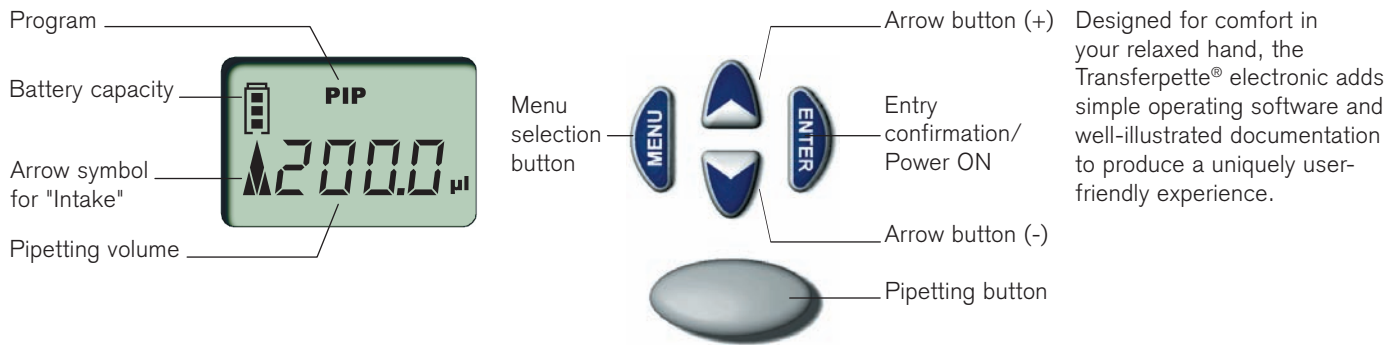
The Transferpette®-8/-12 electronic received the Ergonomics Certificate with a user acceptance rating of **1.55** – outstanding!





# Minimal Operating Forces!

## Ergonomics at the Center



# 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 available 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.



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

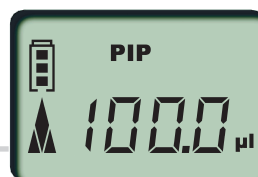
Besides pipetting comfort, an important design goal for the Transferpette® electronic was rapid and intuitive work, and simple, fast program changes. The objective was to gain the advantages of electronic operation with no trade-offs.

To simplify operation, complicated programs 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.



### Dispensing (DISP Mode)

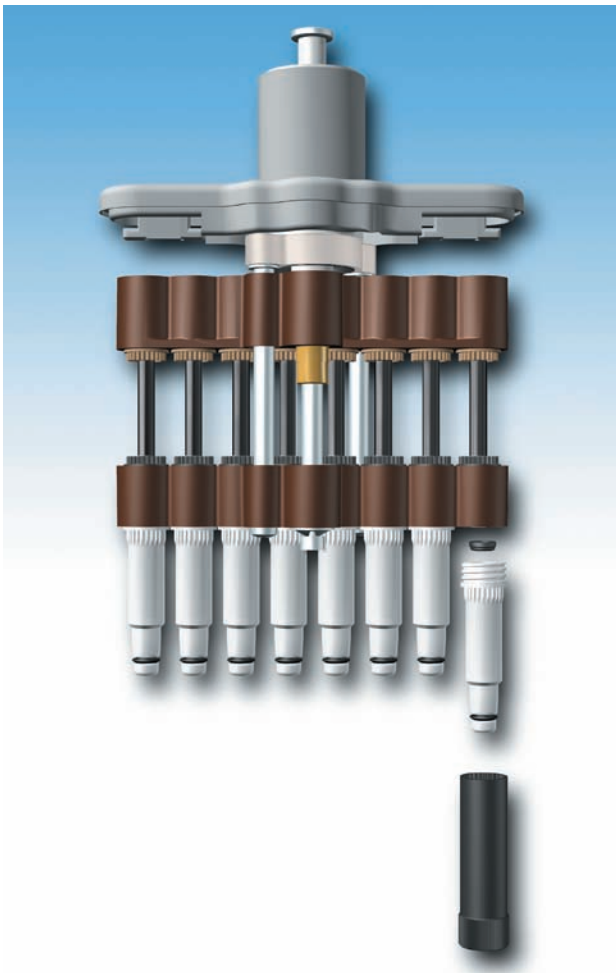
A program for the dispensing of liquids in a series of equal aliquots. A volume that has been aspirated is dispensed in steps.



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



## 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 un-stepped 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.

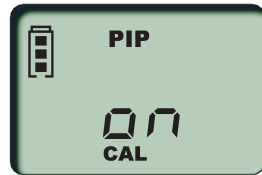




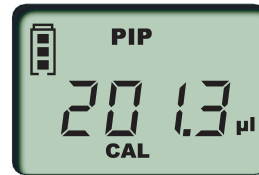
# What else would you like? \_\_\_\_\_

## Useful and Practical

### Easy Calibration



Activate function...



...Set...



...Finished!

Every laboratory that is certified according to ISO 9001 or accredited according to ISO/IEC 17025 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.

PLASTIBRAND® pipette tips and filter tips are manufactured under clean-room conditions and automatically racked and ecologically packaged. PLASTIBRAND® 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 new 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 PLASTIBRAND®

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™<br>0.1 - 20 µl     |
|   | Crystal<br>0.5 - 20 µl       |
|   | Yellow/neutral<br>2 - 200 µl |
|   | Neutral<br>5 - 300 µl        |
|   | Blue/neutral<br>50 - 1000 µl |
|   | Neutral<br>50 - 1250 µl      |
|  | Neutral<br>0.5 - 5 ml        |

| Single Channel Pipettes                    |                          |                        |                              |                       |                              |                         |
|--|--------------------------|------------------------|------------------------------|-----------------------|------------------------------|-------------------------|
|  | nano-cap™<br>0.1 - 20 µl | Crystal<br>0.5 - 20 µl | Yellow/neutral<br>2 - 200 µl | Neutral<br>5 - 300 µl | Blue/neutral<br>50 - 1000 µl | Neutral<br>50 - 1250 µl |
| Transferpette® electronic<br>0.5 - 10 µl   | +                        | +                      |                              |                       |                              |                         |
| Transferpette® electronic<br>2 - 20 µl     | +                        | +                      |                              |                       |                              |                         |
| Transferpette® electronic<br>20 - 200 µl   |                          |                        | +                            | +                     |                              |                         |
| Transferpette® electronic<br>100 - 1000 µl |                          |                        |                              |                       | +                            | +                       |
| Transferpette® electronic<br>500 - 5000 µl |                          |                        |                              |                       |                              | +                       |

| Multi Channel Pipettes                          |                          |                        |                              |                       |                              |                         |
|---|--------------------------|------------------------|------------------------------|-----------------------|------------------------------|-------------------------|
|   | nano-cap™<br>0.1 - 20 µl | Crystal<br>0.5 - 20 µl | Yellow/neutral<br>2 - 200 µl | Neutral<br>5 - 300 µl | Blue/neutral<br>50 - 1000 µl | Neutral<br>50 - 1250 µl |
| Transferpette®-8/-12<br>electronic, 0.5 - 10 µl | +                        | +                      |                              |                       |                              |                         |
| Transferpette®-8/-12<br>electronic, 1 - 20 µl   | +                        | +                      |                              |                       |                              |                         |
| Transferpette®-8/-12<br>electronic, 5 - 100 µl  |                          |                        |                              | +                     | +                            |                         |
| Transferpette®-8/-12<br>electronic, 10 - 200 µl |                          |                        |                              | +                     | +                            |                         |
| Transferpette®-8/-12<br>electronic, 15 - 300 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<br>0.5 - 10 µl   | +          | *           | +         |            |            |              |
| Transferpette® electronic<br>2 - 20 µl     |            |             | +         |            |            |              |
| Transferpette® electronic<br>20 - 200 µl   |            |             |           | +          | +          | +            |
| Transferpette® electronic<br>100 - 1000 µl |            |             |           |            |            | +            |
| Transferpette® electronic<br>500 - 5000 µl |            |             |           |            |            |              |

| Multi Channel Pipettes                          |            |             |           |            |            |              |
|---|------------|-------------|-----------|------------|------------|--------------|
|   | 0.1 - 1 µl | 0.5 - 10 µl | 2 - 20 µl | 5 - 100 µl | 5 - 200 µl | 50 - 1000 µl |
| Transferpette®-8/-12<br>electronic, 0.5 - 10 µl | +          | *           | +         |            |            |              |
| Transferpette®-8/-12<br>electronic, 1 - 20 µl   |            |             | +         |            |            |              |
| Transferpette®-8/-12<br>electronic, 5 - 100 µl  |            |             |           | +          | *          | +            |
| Transferpette®-8/-12<br>electronic, 10 - 200 µl |            |             |           | +          | *          | +            |
| Transferpette®-8/-12<br>electronic, 15 - 300 µl |            |             |           |            | +          | *            |

Transferpette®  
electronic 5000 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.



## Ordering Information



### Transferpette® electronic

|                                   | 0.5 - 10 µl<br>Cat. No. | 2 - 20 µl<br>Cat. No. | 20 - 200 µl<br>Cat. No. | 100 - 1000 µl<br>Cat. No. | 500 - 5000 µl<br>Cat. No. | 3-device stand<br>Transferpette®<br>electronic | Individual stand<br>Transferpette® electronic,<br>up to 1000 µl 500 - 5000 µl |
|-----------------------------------|-------------------------|-----------------------|-------------------------|---------------------------|---------------------------|--|---|
| <b>with power supply unit</b>     |                         |                       |                         |                           |                           |  |   |
| 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  |   |
| <b>without power supply unit</b>  | 7053 39                 | 7053 40               | 7053 43                 | 7053 46                   | 7053 47                   |  | 7053 85 7053 86   |

### Transferpette®-8 electronic

|                                   | 0.5 - 10 µl<br>Cat. No. | 1 - 20 µl<br>Cat. No. | 5 - 100 µl<br>Cat. No. | 10 - 200 µl<br>Cat. No. | 15 - 300 µl<br>Cat. No. |
|-----------------------------------|-------------------------|-----------------------|------------------------|-------------------------|-------------------------|
| <b>with power supply unit</b>     |                         |                       |                        |                         |                         |
| 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<br>Cat. No. | 1 - 20 µl<br>Cat. No. | 5 - 100 µl<br>Cat. No. | 10 - 200 µl<br>Cat. No. | 15 - 300 µl<br>Cat. No. |
|-----------------------------------|-------------------------|-----------------------|------------------------|-------------------------|-------------------------|
| <b>with power supply unit</b>     |                         |                       |                        |                         |                         |
| 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) according to DIN EN ISO 8655.

### Precision values for the Transferpette® electronic

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

A\* = Accuracy, CV\*\* = Variation coefficient

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

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

A\* = Accuracy, CV\*\* = Variation coefficient

### 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.

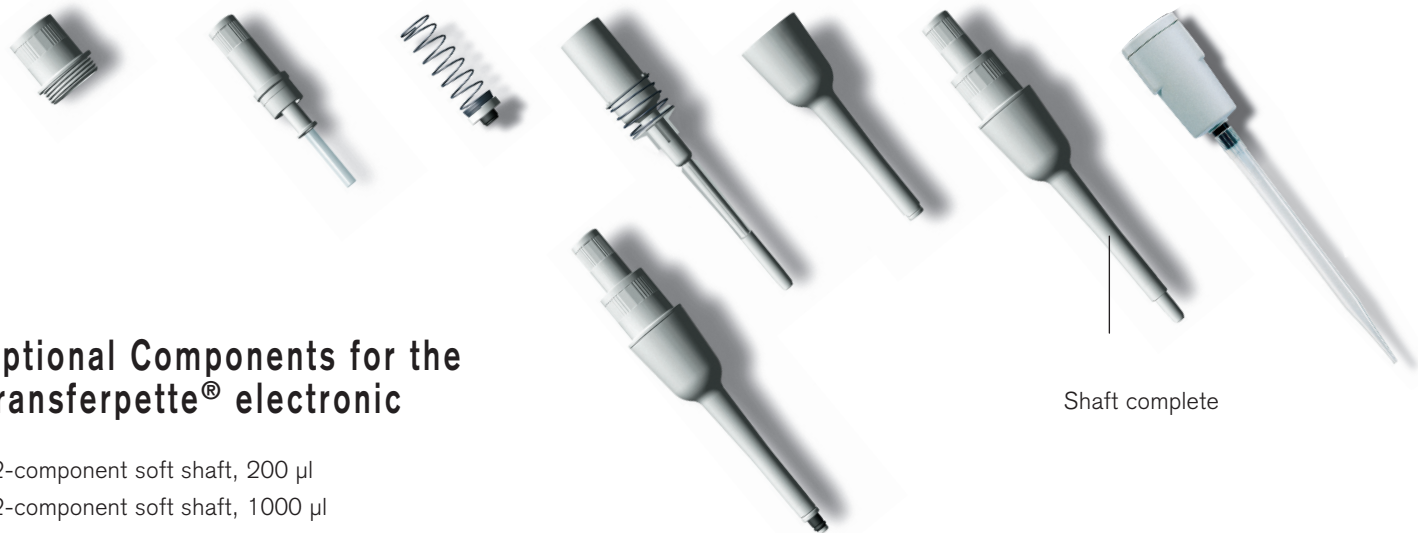
# Service

## 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.

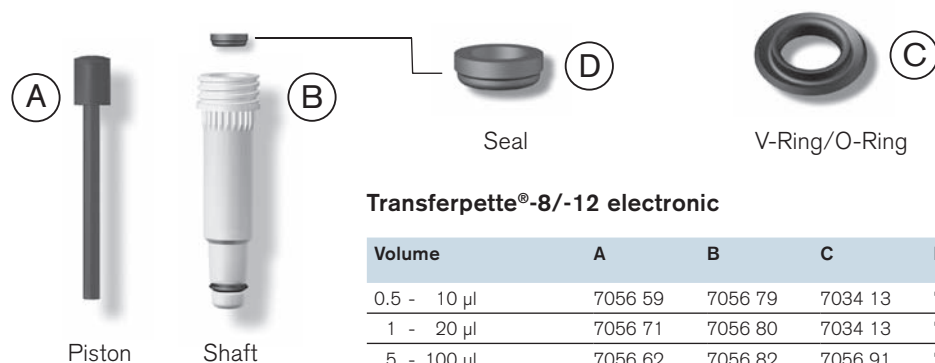


### Optional Components for the Transferpette® electronic

- 2-component soft shaft, 200  $\mu$ l
- 2-component soft shaft, 1000  $\mu$ l

### 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  $\mu$ l).



Transferpette®-8/-12 electronic

| Volume           | A       | B       | C       | D       |
|------------------|---------|---------|---------|---------|
| 0.5 - 10 $\mu$ l | 7056 59 | 7056 79 | 7034 13 | 7033 40 |
| 1 - 20 $\mu$ l   | 7056 71 | 7056 80 | 7034 13 | 7033 41 |
| 5 - 100 $\mu$ l  | 7056 62 | 7056 82 | 7056 91 | 7056 44 |
| 10 - 200 $\mu$ l | 7056 63 | 7056 83 | 7056 91 | 7056 45 |
| 15 - 300 $\mu$ l | 7056 64 | 7056 84 | 7034 91 | 7033 46 |



Reagent reservoir, PP

| Volume | No. | Cat. No. |
|--------|-----|----------|
| 60 ml  | 10  | 7034 59  |

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