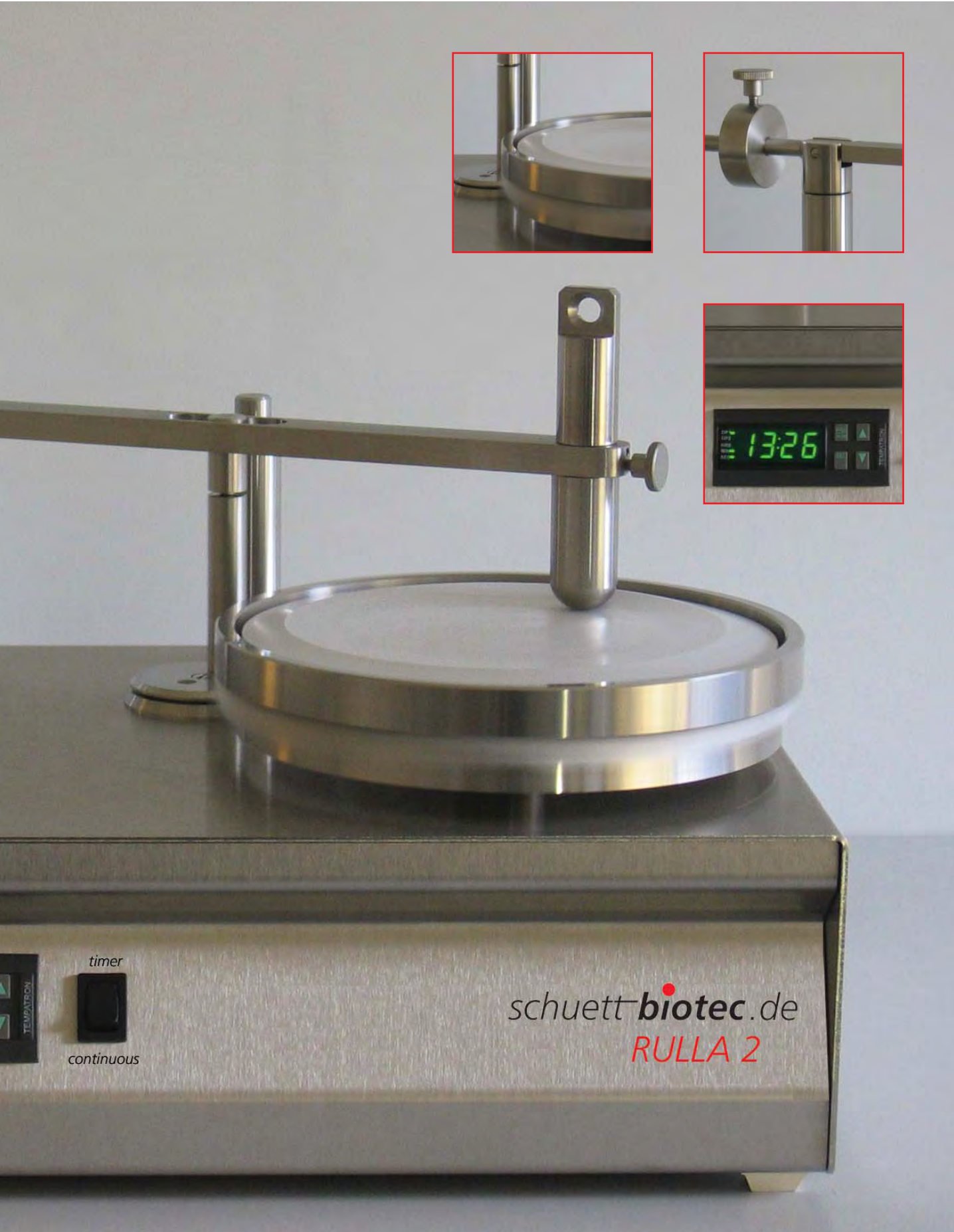


# RULLA 2

Wet-Penetration-Test



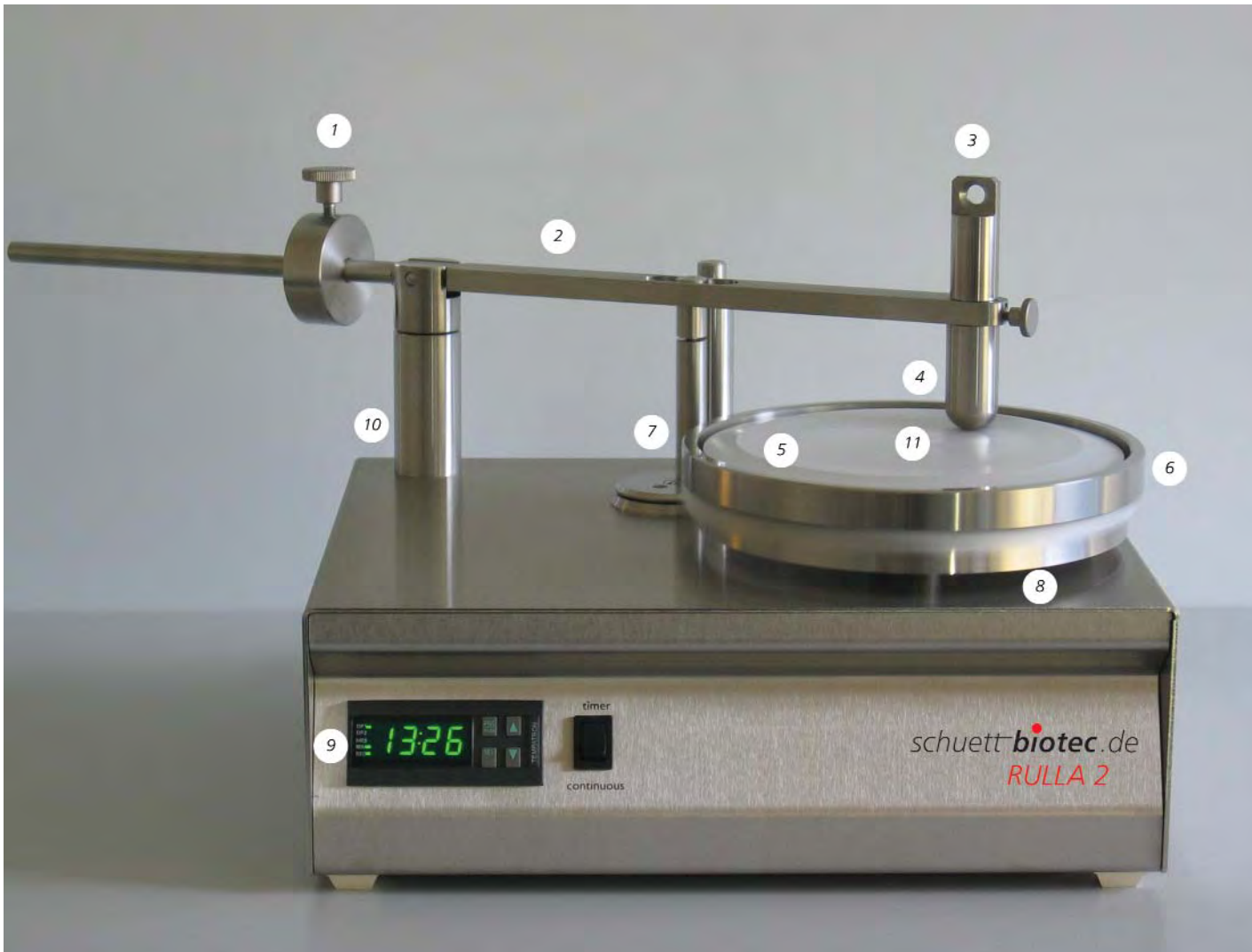
schuett **biotec**.de  
RULLA 2

# RULLA 2 Wet Penetration Test

## RULLA 2

### Wet-Penetration-Test

- Electrically driven, timer controlled turntable
- Holds agar plates of  $\varnothing$  140 mm
- Rotational speed of the turntable  $60 \text{ rpm} \pm 1 \text{ rpm}$
- Sliding weight to adjust the pressing force exerted by the stainless steel finger onto the material over the entire range from 1 N to 3 N
- Excentric speed is 5.60 rpm
- The pressing force (e.g. 3 N +/- 0.02 N) exerted by the stainless steel finger onto the material can be measured/set with a spring balance (included with shipment), which may be hooked to the dynamometer attachment point located on top of the finger



RULLA II Wet-Penetration-Test with tenter frame (optional)

**Description:** (1) Counterweight, (2) Balancing arm with finger, (3) Dynamometer attachment point, (4) Stainless steel finger, (5) Petri dish (optional), (6) Tenter frame (two-part stainless steel ring, optional), (7) Excentric, (8) Turntable, (9) Timer, (10) Ball bearing, (11) Cover-/carrier-/reference material (optional)

# Test according to EN ISO 22610

## INFECTION CONTROL AND HEALTHCARE Wet Bacterial Penetration Test

- test according to EN ISO 22610
- toothed wheel transmission, free of slippage; load compensated drive system
- programmable digital timer
- housing, finger and turntable made of stainless steel
- optional accessories:
  - Tenter frame
  - Cover-/carrier-/
  - Reference material
  - Petri dishes with Ø 140 mm

Apparatus for measuring the resistance to wet bacterial penetration of surgical drapes and surgical gowns

### Test according to EN ISO 22610

Principle of operation is based on and in accordance with CEN/TC205 WG 14 as per EN ISO 22610. Surgical drapes, gowns and clean air suits, used as medical products, for patients, clinical staff and equipment - Test method to determine the resistance to wet bacterial penetration.

Originally the Swedish standard HSS 8760019 was used as a basis for these measurements.

# Free of Slippage & Load Compensated

### Toothed wheel transmission, free of slippage, load compensated drive system

The RULLA 2 wet penetration test is supplied with a fixed ratio toothed wheel transmission which works free of slippage and guarantees to reliably cover the complete test area with the practically wearfree stainless steel finger during the preset time of 15 minutes. The load compensated drive system ensures a constant rotational speed of the agar plate holder of  $60 \pm 1$  rpm over the entire force pressure range of 1 N to 3 N effected by the stainless steel finger.

### Programmable timer

The timer is preset by the manufacturer to 15 minutes, i.e. the proper period needed to perform the test according to the above



standard. The digital timer is user-programmable to set other test periods in the range of 1 second to 99 minutes and 59 seconds with an accuracy of  $\pm 1$  sec.

The large LED display shows either the preset test period or while in operation shows the remaining run-time.

### Housing, finger and turntable made of stainless steel

All essential parts of the housing are made of stainless steel, i.e. can easily be cleaned. The finger and the agar plate holder are made of stainless steel and can easily be removed for cleaning and disinfecting.



# Housing & Accessories

### Optional accessories

The major accessories to perform the test are optionally available. The support-cylinder is used during preparation for the test to stabilize the cover-/carrier-/reference material and assists in getting a smooth working surface of the materials inside the tenter frame. Additives to the agar and the strain of *S. aureus* are not offered.

A dynamometer attachment point is located in-line with the center of the finger for a spring balance to calibrate the pressing force of the stainless steel finger onto the test material.

**Technical Data**

Dimensions (w x h x d)	520 x 220 x 280 mm
Weight	approx. 10.5 kg
Power	230 V, 50-60 Hz, 60 W or 115 V, 50-60 Hz, 60 W

**Ordering Information****Cat.-No.**

<b>RULLA 2 Wet-Penetration-Test, 230 V</b> incl. built-in digital timer and precision spring balance	<b>3.091 100</b>
<b>RULLA 2 Wet-Penetration-Test, 115 V</b> incl. built-in digital timer and precision spring balance	<b>3.092 100</b>

**Accessories**

<b>RULLA 2 Tenter frame</b> 800 g +/- 1 g, stainless steel (inner + outer ring)	<b>3.091 110</b>
<b>RULLA 2 Support cylinder, autoclavable,</b> Ø 90 mm, 40 mm height	<b>3.091 120</b>
<b>RULLA 2 Wet-Penetration-Test Set</b> consisting of: 1x HDPE safety sheet and 1x PU/PE carrier sheet (qty=100)	<b>3.091 130</b>
<b>RULLA 2 Reference material</b> according to EN ISO 22610: 135 g/m <sup>2</sup> micro-filament polyester fabric washed three times according to ISO 15707 (qty=10)	<b>3.091 140</b>
<b>RULLA 2 Petri dishes</b> Ø 140 mm, 20 mm height (qty=176)	<b>3.091 200</b>

**Spare parts**

<b>RULLA 2 Precision spring balance</b> According to EN ISO 22610, see also EN 13795 and EN 14126	<b>3.991 110</b>
---	------------------

**schuett** **biotec**.de

Rudolf-Wissell-Straße 13, D-37079 Göttingen, Germany  
Fon +49 (0) 551/5 04 10-0, Fax +49 (0) 551/5 04 10-99  
info@schuett-biotec.de  
www.schuett-biotec.de