

**Biometra**

PRODUCT LINE

# Rocking Platform RT 26 Tumbling Table TT 30

## Instruction Manual

Version 01\_13

Order No. 34-9990-109-23



### Model

RT 26 (230 V)

RT 26 (115 V)

TT 30 (230 V)

TT 30 (115 V)

### Order No.

846-042-200

846-042-290

846-042-300

846-042-390

**analytikjena**



**Please read these instructions carefully  
before using this apparatus!**



## Biometra GmbH

Rudolf-Wissell-Str. 30  
D-37079 Göttingen

Tel: +49 551 50 68 6-0

Fax: +49 551 50 68 6-66

E-mail: [Info@biometra.com](mailto:Info@biometra.com)

Internet: <http://www.biometra.com>

### Service Department

Rudolf-Wissell-Str. 14 - 16

D-37079 Göttingen

Tel.: +49 551 50 68 6-10 or -12

Fax.: +49 551 50 68 6-11

E-mail: [Service@biometra.com](mailto:Service@biometra.com)

## Contents

1	Intended use and specifications .....	4
2	Specifications .....	5
3	Legal Notes .....	5
3.1	Copyright .....	5
3.2	Liability .....	5
3.3	Meaning of the instructions .....	5
4	Safety instructions .....	6
5	Setting-Up Operation .....	7
5.1	Scope of Delivery .....	7
5.2	Unpacking.....	7
6	Installation in the Laboratory .....	8
6.1	Selecting the correct location .....	8
6.2	Attaching the power cord .....	8
7	Instructions for use .....	9
7.1	Rocking Table RT 26 .....	9
7.2	Tumbling Table TT 30 .....	10
7.3	General instructions .....	10
8	Troubleshooting guide .....	11
9	Routine maintenance/cleaning .....	11
10	Transportation and storage.....	11
11	Service .....	12
11.1	Instructions for return shipment.....	12
12	Equipment Decontamination Certificate .....	13
13	Note for Disposal of Electric/Electronic Waste .....	15
14	Warranty .....	16

This document describes the state at the time of publishing. It needs not necessarily agree with future versions.

Subject to change!

## EU – Konformitätserklärung EC - Declaration of Conformity

Göttingen, September 2013

im Sinne der EG-Richtlinie über elektrische Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen 2006/95/EG  
*following the EC directive about electrical equipment for use within certain limits of voltage 2006/95/EC*

und / and

im Sinne der EG-Richtlinie für die elektromagnetische Verträglichkeit 2004/108/EG.  
*following the EC directive about the electromagnetic compatibility 2004/108/EC .*

Hiermit erklären wir, dass folgende **Wipptische**:  
*Herewith we declare that the following **Rocking Platforms**:*

Typen / types:                    **TT 30 (230 V)**  
   **TT 30 (115 V)**

Best.-Nr. / Order No.:        846-042-300, 846-042-390

Typen / types:                    **RT 26 (230 V)**  
   **RT 26 (115 V)**

Best.-Nr. / Order No.:        846-042-200, 846-042-290

den grundlegenden Anforderungen der  
*corresponds to the basic requirements of*

EG-Niederspannungsrichtlinie 2006/95/EG und der  
*EC low voltage directive 2006/95/EC and the*

EG-Richtlinie über die elektromagnetische Verträglichkeit 2004/108/EG entsprechen.  
*EC directive about the electromagnetic compatibility 2004/108/EC .*



Dr. Lutz Heine  
Quality Manager



Certificate number FS 68563

## 1 Intended use and specifications

The Rocking Platform RT 26 and the Tumbling Table TT 30 have been developed specially for the shaking and mixing of substances for scientific purposes in laboratories. They are ideal for applications requiring mixing or agitation of solutions, e.g. staining and destaining.

### Rocking Table RT 26



The Rocking Table RT 26 is used for the shaking of vessels - particularly flasks, bottles and dye pans - with a gentle rocking motion.

Vessels are placed on the rubber pad that is supplied with the shaker.

The rubber pad is easy to replace.

Vessels must be secured to the shaking platform in central position and evenly spaced.

Shaking frequency is adjustable from 10 to 120 rocks/min.

The tilt angle is 7°.

### Tumbling Table TT 30



The Tumbling Table TT 30 is used for the shaking of vessels - particularly flasks, bottles and dye pans - with a gentle asymmetrical motion.

Vessels are placed on the rubber pad that is supplied with the shaker.

The rubber pad is easy to replace.

Tumbling frequency is adjustable from 3 to 60 cycles/min.

The angle of inclination is 7°.

Do not attempt to operate this device if physical damage is present.

Read the complete instruction manual thoroughly and make sure that every user of the shaker has also read the instructions thoroughly before taking the equipment into operation.

If, after reading the instruction manual, you still have any questions concerning the installation, operation or maintenance of the shaker, please contact BIOMETRA or your local BIOMETRA distributor.

## 2 Specifications

Description	RT 26	TT 30
Dimensions (W x D x H, mm)	289 x 320 x 160	330 x 352 x 210
Platform dimensions (W x D, mm)	260 x 198	300 x 300
Weight (kg)	5.6	6.6
Speed	10 - 120 tilts/min	3 - 60 rpm
Timer	10 – 120 min in 10 min steps, HOLD function	
Tilt angle	7°	
Maximum load (kg)	5	
Electrical requirements: 230 V model	230 V $\pm$ 10 %, 50/60 Hz, 0.1 A	230 V $\pm$ 10 %, 50/60 Hz, 0.15 A
115 V model	115 V $\pm$ 10 %, 50/60 Hz, 0.2 A	115 V $\pm$ 10 %, 50/60 Hz, 0.3 A
Fuse	2 x 0.5 A, 230 V 2 x 1 A, 115 V	
Operating Conditions	4 °C to 70 °C, up to 85 % relative humidity, non-condensing. Suitable for use in cold room and incubators.	
Included accessories	One flat rubber mat	One flat rubber mat and one dimpled mat

## 3 Legal Notes

### 3.1 Copyright

All rights reserved. It is not allowed to copy and publish the manual or parts of it in any form as copies, micro film or other methods without a written authorisation from Biometra.

Biometra is pointing out that applied company and brand names are usually protected trade marks.

### 3.2 Liability

Biometra is not liable for damages and injuries caused by use not considering these operation instructions in parts or completely.

### 3.3 Meaning of the instructions

Biometra recommends that you first read these instructions carefully. Then assemble and disassemble the apparatus to become familiar with the system. After these preliminary steps, you should be ready to transfer a sample.

This operation instruction is part of the product and should be kept over the full life-time of the instrument. It should also be forwarded to subsequent owners and users. Make sure that additions and updates are inserted into the operation instructions.

## 4 Safety instructions

Before you connect the power cable to the mains supply, check that:



the voltage and frequency of the shaker conforms with the line voltage (the voltage rating of your shaker is printed on the type label).



the power switch is set to "0" and the control knobs have all been turned counterclockwise up to the stop. This will prevent spills due to sudden, overly vigorous shaking.



The shaker is not protected for use in explosive atmospheres. Be careful when using it close to flammable and explosive substances.



The laboratory table must be strong and have a flat and non-slip surface.



Before you start up the shaker, make sure that the vessel (process medium) is secure and cannot slip.



Take precautions to prevent attachments or vessels colliding with other objects on the laboratory table during the shaking operation.



To guard against splashing and spills, close the shaking vessels carefully. When you work with open vessels, select the shaking frequency accordingly.



To prevent unintentional violent shaking, it is always advisable to start with a low shaking frequency and to increase it gradually in small steps until you reach the shaking effect you require.



Always place single vessels at the centre of the platform. When working with several vessels, always arrange them equally on the platform.



Take care for the maximum load.



Observe the pertinent safety regulations when working with hazardous media.



Make allowance for the tilt angle when using tall vessels.

## 5 Setting-Up Operation

### 5.1 Scope of Delivery

The following parts are supplied. Compare the contents of the shipment before discarding the packing materials. We recommend keeping the original packing for future transport or storage purposes.

Item	RT 26	TT 30
	846-042-200 / 846-042-290	846-042-300 / 846-042-390
Instrument	1	1
Flat rubber mat	1	1
Dimpled rubber mat	-	1
Power cable	1	1
Manual	1	1

#### Senseful, optional accessories:

Blot-Boxes with lids for safe mixing of liquids. The boxes are made of polystyrene and completely transparent.

Order number	Description
846-042-001	Blot-Box with lid, 9.1 cm x 6.6 cm, 3 to 5 ml capacity, for mini gels, 10 pieces/package
846-042-002	Blot-Box with lid, 11.7 cm x 8.9 cm, 6 to 10 ml capacity, for slightly larger mini gels, 10 pieces/package

### 5.2 Unpacking

Before starting the installation, carefully examine the rocker for possible damage or missing parts.

- Open the box and carefully remove the padding. Check that the rocker has not been visibly damaged during transportation. Keep the packing material until you are sure that the rocker works properly.
- Carefully lift the device out of the box.
- Be sure that the following information is included on the serial label located on the back of the unit: Serial Number, Product number, Electrical rating.

- Check that the power cord has a pin configuration that fits into a wall socket according to the local standard.

Should any kind of damage have occurred during transportation, contact the carrier immediately.

Do not attempt to operate this device if physical damage is present.

Please keep the original packing material for return shipment in case of service issues.

## 6 Installation in the Laboratory

### 6.1 Selecting the correct location

When locating the rocker, please consider following:

- Put the rocker on horizontal, leveled and stable surface.
- Leave enough space around the rocker for normal air circulation, min. 10 cm.
- Leave enough space around the rocker for easy access and maintenance.
- Avoid locations subject to shocks and vibrations.
- Avoid locations subject to frequent power fluctuations or power losses (It may affect rocker performance)

Note: There has to be an easy access to the rocker control panel and main plug in case of emergency.

### 6.2 Attaching the power cord

First connect the main power cord to the rocker then connect the plug end of the cord to a grounded wall socket. Avoid lines on which powerful electric motors, refrigerators and similar devices are connected.

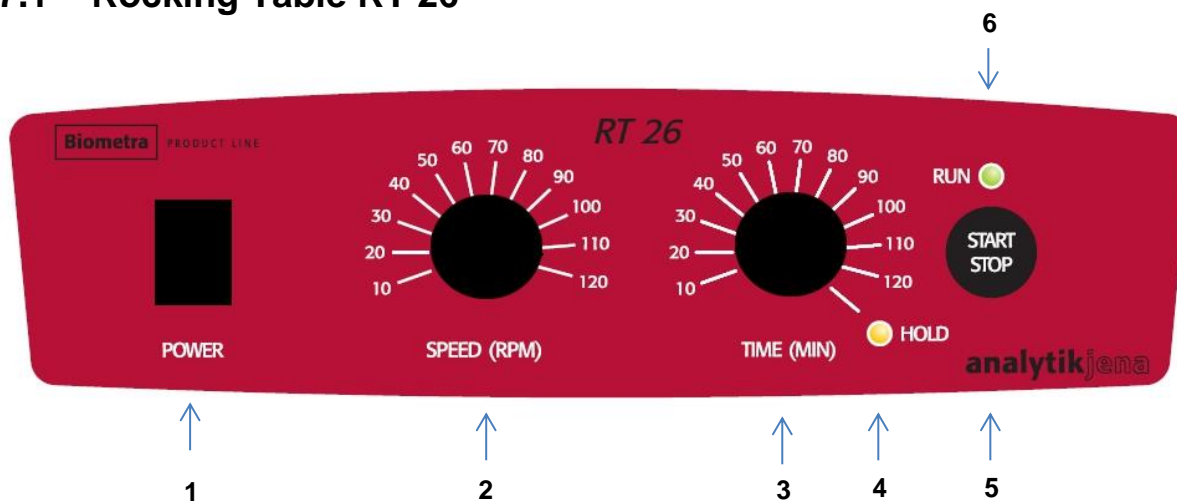


**Be careful when you plug the cord to a grounded wall socket!  
Do not touch plug with wet hand! Do not pull the plug by the cord!**



## 7 Instructions for use

### 7.1 Rocking Table RT 26

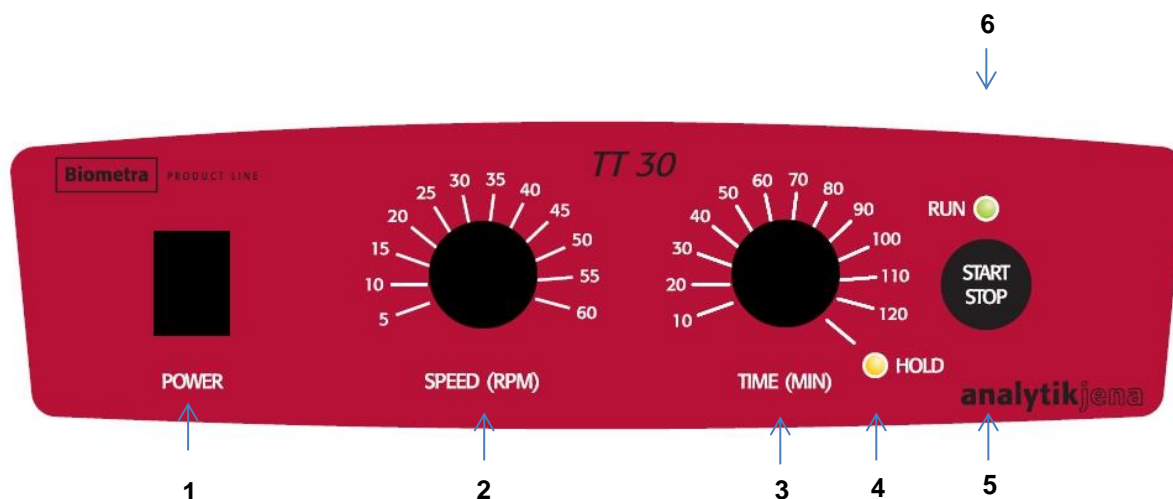


1. **POWER** switch – to turn the rocker *ON* (power switch illuminates) or *OFF*
2. **SPEED** potentiometer – to set the rocker speed
3. **TIME** potentiometer – set time of the rocker to the desired value or on HOLD for continuous running.
4. **HOLD** yellow light – illuminates when the rocker is set on HOLD for continuous running.
5. **START/STOP** button – START or STOP rocking. The device automatically stops after the set time passes.

**Note :** Pressing the **START/stop** button during operation will reset the timer.

6. **RUN** green light – illuminates when the rocker is running.

## 7.2 Tumbling Table TT 30



1. **POWER** switch – to turn the rocker *ON* (power switch illuminates) or *OFF*
2. **SPEED** potentiometer – to set the rocker speed
3. **TIME** potentiometer – set time of the rocker to the desired value or on HOLD for continuous running.
4. **HOLD** yellow light – illuminates when the rocker is set on HOLD for continuous running.
5. **START/STOP** button – START or STOP rocking. The device automatically stops after the set time passes.

**Note :** Pressing the **START/stop** button during operation will reset the timer.

6. **RUN** green light – illuminates when the rocker is running.

## 7.3 General instructions



**Do not use the rocker near water sources. Be sure that water doesn't get on the device, especially during the cleaning procedures.**



**Do not rock flammable or explosive samples**

- Do not expose the shaker to aggressive vapors (e.g. organic solvents).
- Do not insert any objects into the rocker (such as screw driver or metal rods).
- Never operate the shaker without platform securely attached.
- Hazardous samples should be shaken only in appropriate containment vessels.

## 8 Troubleshooting guide

Be sure to disconnect the rocker from the main power source immediately in case of any signs of malfunction and contact Biometra GmbH, Service Department.

Problem	Explanation/Solution
POWER switch doesn't light up	Check the power connection, Check fuses
Rocker does not START	Check the power connection, Check fuses

## 9 Routine maintenance/cleaning

- No routine maintenance or lubrication is required.
- It is recommended that the rocker is kept clean to insure long trouble-free operation.

The outside housing can be cleaned with a soft, damp cloth when needed (mild suds).

Do not use any aggressive or abrasive cleaners (acetone, nitro, polish, chlorine bleach, detergents based on chlorine, scouring powder, ammonium, cleaning wool or agents with metallic constituents etc.). This may permanently damage the rocker finish.



**Before cleaning the rocker, always unplug the power cord from the wall socket!**

If your BIOMETRA product ever needs to be repaired, you should enlist the services of a specialist who has been authorized by BIOMETRA to carry out such work. Contact your local BIOMETRA dealer or get in direct touch with BIOMETRA.

## 10 Transportation and storage

To prevent damage, it is best to store and transport the shaker and its components in their original packaging or other suitable container. Close the packaging with adhesive tape.

Store the mixer/shaker in a dry place.



**CAUTION:** Protect the instrument from impact and vibration during transport.

## 11 Service

Should you have any problems with this unit, please contact our service department or your local Biometra dealer:

### Biometra GmbH

#### Service Department

Rudolf-Wissell-Straße 14 - 16

D-37079 Göttingen

Phone: ++49 551 / 50 68 6 -10 or 12

Fax: ++49 551 / 50 68 6 -11

e-mail: Service@biometra.com



If you would like to send the unit back to us, please read the following return instructions.

### 11.1 Instructions for return shipment

- Return only defective devices. For technical problems which are not definitively recognisable as device faults please contact the Technical Service Department at Biometra.
- Please contact our service department for providing a **return authorization number (RAN)**. This number has to be applied clearly visible to the outer box. **Returns without the RAN will not be accepted!**

- **Important:**



Carefully clean all parts of the instrument from residues, and of biologically dangerous, chemical or radioactive contaminants. If an instrument is contaminated, Biometra will be forced to refuse to accept the device. The sender of the repair order will be held liable for possible damages and losses resulting from insufficient decontamination of the device.

- Please **prepare written confirmation** (use the “**Equipment Decontamination Declaration**” following on the next page) that the device is free of biologically dangerous, chemical or radioactive contaminants. This confirmation must be attached to the outside of the packaging.
- Use the original packing or a similarly robust packing when returning the device. If not available, contact Biometra or your local distributor.
- Label the outside of the box with “CAUTION! SENSITIVE INSTRUMENT!” and the RAN number sticker. Attach the Decontamination Declaration!
- Please enclose a note which contains the following:
  - a) Sender’s name and address,
  - b) Name of a contact person for further inquiries with telephone number.
  - c) **Precise description of the fault**, which also reveals during which procedures the fault occurred, if possible.

## 12 Equipment Decontamination Certificate

To enable us to comply with German law (i.e. §71 StrlSchV, §17 GefStoffV and §19 ChemG) and to avoid exposure to hazardous materials during handling or repair, please complete this form, prior to the equipment leaving your laboratory.

COMPANY / INSTITUTE \_\_\_\_\_

ADDRESS \_\_\_\_\_

PHONE NO \_\_\_\_\_ FAX NO \_\_\_\_\_

E-MAIL \_\_\_\_\_

EQUIPMENT	Model	Serial No
	_____	_____
	_____	_____
	_____	_____
	_____	_____

If on loan / evaluation Start Date: \_\_\_\_\_ Finish Date \_\_\_\_\_

Hazardous materials used with this equipment:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Method of cleaning / decontamination:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

The equipment has been cleaned and decontaminated:

NAME \_\_\_\_\_ POSITION \_\_\_\_\_  
 (HEAD OF DIV./ DEP./ INSTITUTE / COMPANY)

SIGNED \_\_\_\_\_ DATE \_\_\_\_\_

PLEASE RETURN THIS FORM TO BIOMETRA GMBH OR YOUR LOCAL BIOMETRA DISTRIBUTOR TOGETHER WITH THE EQUIPMENT.  
**PLEASE ATTACH THIS CERTIFICATE OUTSIDE THE PACKAGING. INSTRUMENTS WITHOUT THIS CERTIFICATE ATTACHED WILL BE RETURNED TO SENDER.**

**General Information for Decontamination:**

Please contact your responsible health & safety officer for details.

**Use of radioactive substances:**

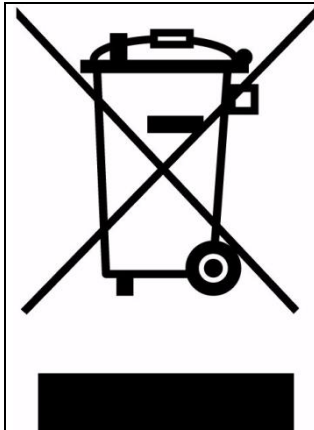
Please contact your responsible person for details.

**Use of genetically change organism or parts of those:**

Please contact your responsible person for details.

## 13 Note for Disposal of Electric/Electronic Waste

Due to the application in a laboratory the darkhood must be decontaminated before return as electronic waste.

<b>Hinweis</b>	<b>für die Entsorgung von Elektroaltgeräten</b>	
<b>Note</b>	<b>for disposal of electric / electrical waste</b>	
<b>Renseignement</b>	<b>du traitement des déchets des appareils électrique / électronique</b>	

Das Symbol der durchgestrichenen Abfalltonne bedeutet für unsere Kunden in Deutschland, daß dieses Produkt von der Firma Biometra kostenlos zur Entsorgung zurückgenommen wird.

Zu diesem Zweck kontaktieren Sie bitte unsere Service-Abteilung!  
Außerhalb Deutschlands wenden Sie sich bitte an den für Sie zuständigen Händler.

Dieses Symbol gilt nur in Staaten des EWR\*.

\*EWR = Europäischer Wirtschaftsraum, umfasst die EU-Mitgliedsstaaten sowie Norwegen, Island und Liechtenstein.

This symbol (the crossed-out wheelie bin) means, that this product should be brought to the return or separate systems available to end-users according to yours country regulations, when this product has reached the end of its lifetime.

For details, please contact your local distributor!

This symbol applies only to the countries within the EEA\*.

\*EEA = European Economics Area, comprising all EU-members plus Norway, Iceland and Liechtenstein.

Cet symbole (conteneur à déchets barré d'une croix) signifie que le produit, en fin de vie, doit être retourné à un des systèmes de collecte mis à la disposition des utilisateurs finaux en conséquence des réglementations par la loi de votre pays.

Pour des information additionel nous Vous demandons de contacter votre distributeur!

Cet symbole s'applique uniquement aux pays de l'EEE\*.

\*EEE = Espace économique européen, qui

## 14 Warranty

This laboratory instrument is produced with the highest practical standards of materials, workmanship, and design. The design and manufacture of parts have been conceived with one purpose - to produce units which will give satisfactory service.

Biometra GmbH guarantees this unit to be free from defects in materials or workmanship under normal use or service for **24 month** from date of shipment.

If, during this time, this unit proves defective in materials or workmanship, Biometra GmbH will repair or replace it free of charge if returned to us prepaid.

This guarantee does not cover damage in transit, damage caused by carelessness, misuse or neglect, or unsatisfactory performance as a result of conditions beyond our control; or consequential losses as a result of failure of our product.