



# ERWEKA Tablet test equipment

Product overview

Our full product range in Dissolution, Physicals  
and R&D equipment

# Setting the pace for an industry

Technology leader for 70 years!



1951

ERWEKA is founded by ERwin, WErner and KARl. The aim is to equip every pharmacy in Germany after the Second World War with a versatile device with which ointments, powders, tablets and much more can be produced on site.

1968

The first dissolution tester from ERWEKA is launched. The field is still young and ERWEKA helps with development and research in close cooperation with USP and FDA and a network of professors.

1990

In 1990 ERWEKA introduces the first fully automatic tablet hardness tester - the MultiCheck.

2008

The first fully automated dissolution system from ERWEKA is released following a development cooperation with Bayer Healthcare - the RoboDis I.

2012

The fully automatic, parallel-operating, completely software-controlled dissolution system RoboDis II is introduced.

## We set innovation standards

ERWEKA is a leading international manufacturer of testing equipment for the pharmaceutical industry. We supply equipment for tablet development and quality control testing to major pharmaceutical and life science companies, development and contract laboratories, and universities around the world.

ERWEKA is the only company in the industry to offer the full range of solid dosage form testing equipment. We are the manufacturer with the most extensive product range and experience in the tablet testing equipment industry. Our benchmark is top quality. From development to design and manufacturing to service for our instruments, we are uncompromising in our commitment to premium standards. We stand for excellent product quality, appealing design and individual customer support.

Our customers have been relying on us for over 70 years. With general-purpose equipment for pharmacists' needs, which we were the first company in the world to develop and produce in 1951, we laid the foundation for our broad product range. Today, we are the manufacturer with the most comprehensive automation offering for performing the most common testing procedures according to the harmonized pharmacopoeias.

ERWEKA customers around the world benefit from these decades of experience and the technologies we have developed.

2015

Introduction of the fully automatic tablet hardness tester MultiCheck 6 with patented Oblong Navigator™.

2019

Move into the new, state-of-the-art company building at Pittlerstraße 45 in Langen.

2021

ERWEKA launches the first fully digital dissolution tester DT 950 with TestAssist in February.

2023

The foundation for the next 70 years of ERWEKA is laid: ERWEKA becomes part of Verder Scientific.



**Dissolution  
Tester**

**Physical Tester**



**All-purpose  
equipment**

**Service**



# Leading

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in quality and technology

We place the highest demands on the development and manufacturing of our products. For us, it goes without saying that all our test equipment meets the requirements of the globally harmonized pharmacopoeias. As early as the development stage, we are guided by three key questions: Does the new equipment meet all the customer's requirements, is it user-friendly, and does it fit smoothly into laboratory workflows?

We plan our product series for the long term and ensure that we offer mature and therefore fault-free products. In manufacturing, we use only high-quality materials that are durable and require little maintenance. Suppliers are selected according to the strictest guidelines and the delivered parts are checked again by us. Our instruments are therefore characterized by stable and robust mechanics. This promotes measurement accuracy and longevity. Before a product leaves our factory, it is subjected to extensive quality control. The quality requirements that we place on the equipment in this process are higher than demanded.

## Dissolution

	USP Methods		
<b>Manual</b>	DT 126, DT 128 DT 950, DT 9510	1, 2, 5, 6	3, 7
<b>Semi-automatic</b>	Dissolution Offline/Online/ On-Offline Systems		RRT 10 DFZ II
<b>Fully automatic</b>	RoboDis II+		

## Physicals Hardness

	Testparameter	Weight	Width	Diameter/Length	Thickness	Hardness
<b>Manual</b>	TBH 325	TBH 325	TBH 125 TBH 325	TBH 125 TBH 325	TBH 125 TBH 325	TBH 125 TBH 325
<b>Semi-automatic</b>	TBH 425			TBH 425	TBH 425	TBH 425
<b>Fully automatic</b>	EasyCheck MultiCheck 6	EasyCheck MultiCheck 6	EasyCheck MultiCheck 6	EasyCheck MultiCheck 6	EasyCheck MultiCheck 6	EasyCheck MultiCheck 6

## Physicals

<b>Disintegration tester</b>	ZT 120 Light, ZT 320, 720, 730	<b>Granulate flow tester</b>	GTL, GT & GTB
<b>Tapped density tester</b>	SVM II	<b>Vacuum leak tester</b>	VDT/S
<b>Friability &amp; abrasion tester</b>	TAR II	<b>Suppository tester</b>	SSP, PM 30, ST 35, SBT 2

# Dissolution

## Dissolution Tester for USP 1 to USP 7

ERWEKA offers dissolution testers for every single harmonized USP/EP/JP method - starting with USP 1 up to USP 7, including our manual DT 126 / 128 Light instruments as well as the digital dissolution testers of the DT 950/9510 series.

ERWEKA's dissolution testers can be equipped with 6 or 8 (12 or 14) test stations depending on the product line.



USP methods  
1, 2, 5 and 6



Intuitive  
touch interface



Upgradeability

### DT 950 Series

- Digital Dissolution Tester
- 6-8 test stations
- 7" touchdisplay with modern user interface and TestAssist
- 100% USP/EP/JP conform dissolution testing



### DT 9510 Series

- Digital Dissolution Tester
- 12-14 test stations
- Innovative AirLift system
- 7" touchdisplay with modern user interface and TestAssist
- 100% USP/EP/JP conform dissolution testing



100%



## DT 126 Light

- High-Head with 6 test stations
- Vessels + USP method 2 Paddle included
- USP method 1 optionally available



100%



## DT 128 Light

- High-Head with 8 test stations
- Vessels + USP method 2 Paddle included
- USP method 1 optionally available



## Disso.NET 4 Software

- Control all functions of each connected testing equipment
- Full Audit Trail according to 21 CFR Part 11
- User Management with Active Directory
- MS SQL database

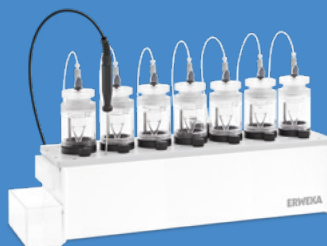


SDS

81  
161

## MediPrep Series

- Media preparation with 8 or 16 liter tank
- Preparation in less than 25 minutes
- Up to 14l 1% SDS media with MediPrep 1622
- Up to 50 users with different access levels
- Touch screen control



## USP 4 DFZ II

- Flow-through cell dissolution systems
- Available as closed, open or stand-alone system
- Variety of different cells available
- Controlled by Disso.NET USP 4
- Optimized cell w. optional individual cell heating
- Easy cleaning and highly leak proof



100%

USP 3/7

## RRT 10 BioDis (USP 3/7)

- Different pH-values IV/IVC dissolution testing according to USP 3 and USP 7
- Touch display control
- Several tools and accessories available

# Dissolution Automation

## Our automated systems

### RoboDis II+

The RoboDis II+ is currently the only parallel, fully automatic dissolution system on the market. All steps of the dissolution process are computer-controlled and thus performed without user intervention. The heart of the fully automatic system is the Disso.NET software developed by ERWEKA. It directs all functions including the precise movement of the robot arm, the control of the analytical devices, the data processing as well as the complete documentation.

In the standard configuration, the RoboDis II+ tests up to 10 batches according to USP methods 1 (Basket) or 2 (Paddle). Thanks to parallel sampling, very short cycle times can be selected to capture detailed release profiles from customers. Integrated system suitability tests (SST) and video monitoring ensure high reliability. Like all ERWEKA products, the RoboDis II+ operates 100% USP/EP/JP compliant.

The RoboDis II+ is the productivity booster for R&D and quality assurance in the pharmaceutical industry.

100%

100% USP/EP/JP conform



USP Methods 1 and 2



10 or 40 batch configuration



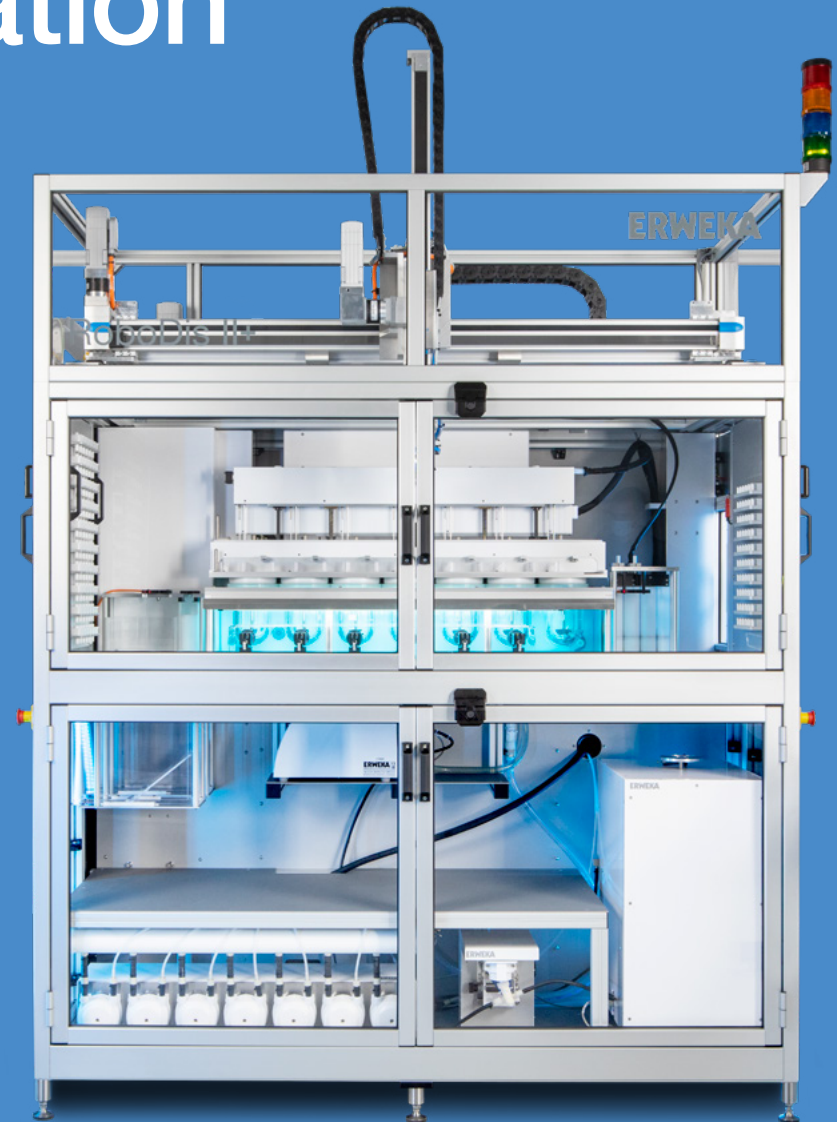
Online UV-Vis or direct injection into HPLC Analysis

pH

pH half change or full change



Media preparation







## Dissolution Offline System

- USP methods 1, 2, 5 and 6
- Full stand-alone control of connected hardware: IPC or PVP Pump and sample collector
- User management, method memory & temperature measurement for each vessel



## Dissolution Online System

- USP methods 1, 2, 5 and 6
- Full control by Disso.NET software: Pump and UV/Vis analytic
- Extensive report functionalities
- User management with Active Directory connection



## Dissolution On-/Offline System UV-Vis

- USP methods 1, 2, 5 and 6
- Full control by Disso.NET software: Pump, sample collector and UV/Vis analytic
- Extensive report functionalities
- User management with Active Directory connection



## Dissolution On-/Offline System HPLC

- USP methods 1, 2, 5 and 6
- Full control by Disso.NET software: Pump, AutoSampler and direct injection into HPLC analytica
- Extensive report functionalities
- User management with Active Directory connection
- Double filtration optionally available with AFC 825



# Physicals

## Our hardness testers

ERWEKA offers a wide range of test equipment for the physical properties of tablets and production related materials.

Our tablet hardness testers - from the manual TBH 125 to the fully automatic EasyCheck and MultiCheck 6 testers are industry proven and can be found all over the world.

100%

100%  
USP/EP/JP  
conform



From manual to  
fully automatic



Touch display



AutoCal 2.0  
electronic calibration  
available



All kinds  
of tablets



Evenly shaped &  
round tablets

### MultiCheck 6

- Magazine with 12 sample chambers (100 samples each!)
- Fully automatic measurement of up to 5 Parameters: Weight, Thickness, Diameter/Length, Width, Hardness with Oblong Navigator®
- 100 % USP conform
- Intuitive Touch-Display



### EasyCheck

- Magazine for 20 samples
- Fully automatic measurement of up to 5 Parameters: Weight, Thickness, Diameter/Length, Width, Hardness with Oblong Slider®
- 100 % USP conform
- Intuitive Touch-Display





## TBH 425

- Magazine for 10 samples
- Automatic measurement of up to 4 parameters: Thickness (optional), Diameter/Length and Hardness
- Weight measurement via external balance



## TBH 325

- Manual hardness tester
- Memory for up to 50 products
- Measurement of up to 4 parameters: Thickness (optional), Diameter/Length, Hardness, Weight (external)



## TBH 125

- Manual entry-level hardness tester
- Quick testing of up to 99 samples in a row
- Measurement of up to 3 parameters: Thickness (optional), Diameter/Length, Hardness



# More Physicals

More physical testers from ERWEKA



## ZT 730

- Fully automatic disintegration tester with cable-free AirBasket
- Automatic disintegration detection
- Typ A- and Typ B-Basket available
- One (ZT 731) or two (ZT 732) test stations
- Sealed electronics for easy dishwasher cleaning of the baskets
- User management, method and product memory



## ZT 320

- Disintegration tester with individually controllable test stations
- Up to 4 test stations for Basket Type A and B with individual keypad per station



## ZT Light Series

- Compact, entry-level disintegration tester
- 1 or 2 test stations
- Easy to control via LED-Display





## TAR II

- Friability & abrasion tester with intuitive touch interface and intelligent TestAssist for automatic calculation
- Optional intelligent balance connection with automatic data transfer
- 100 % USP/EP/JP conform



## GTB II

- Powder- and granulate flow measurement with 5 available measuring methods
- Fully automatic laser detection of angle of repose
- GT and GTL also available



## SVM II

- 5-in-1 tapped density tester
- Intuitive touch interface with intelligent TestAssist for automatic calculation of Hausner-Factor and compressibility index
- One or two test stations, upgradable thanks to innovative SwitchPlate system
- Testing according to USP 1, 2 and 3



## ST 35

- Suppository disintegration tester
- 3 test stations
- Magnetic stirrers available

# R&D Equipment

## All-purpose program

The ERWEKA all-purpose equipment is perfect for small-scale production in the pharmaceutical, chemical, cosmetic and food industries. It is also ideal for research and development of powders, tablets, ointments, creams and much more.

The modular design is compact, economical and offers a powerful drive motor with a wide range of easily interchangeable fixtures perfectly suited for R&D and small-scale production.



Attachment	Type	Max. Volume	Max. Capacity	VT required	UG required	Liquids	Ointments & Creams	Powder	Granulates	Pellets	Tablets/Dragees
Conical Mill	CM		30 kg					<input type="checkbox"/>	<input type="checkbox"/>		
Ball Mill	KM 5	5 l	40 %					<input type="checkbox"/>	<input type="checkbox"/>		
Cube Mixer	KB 15	3,5 l	40 %		<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		
Cube Mixer	KB 20	8 l	40 %		<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		
Cube Mixer	KB 20 S	8 l	40 %		<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		
Double Cone Mixer	DKM	11,9 l	50 %		<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		
Drum Hoop Mixer	RM 5	5 l	40 %					<input type="checkbox"/>	<input type="checkbox"/>		
High Speed Mixer	SW 1/S	5 l	70 %					<input type="checkbox"/>	<input type="checkbox"/>		
V-Mixer	VB-3	3 l	2 l					<input type="checkbox"/>	<input type="checkbox"/>		
Planetary Stirrer	PRS	5 l	60 %			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Coating pan	DKE	9,5 l	30 %		<input type="checkbox"/>						<input type="checkbox"/>
Filling & Dosing	FDS II	19 l	1.000/h			<input type="checkbox"/>	<input type="checkbox"/>				
Pelletizer	GTE	9,5 l			<input type="checkbox"/>					<input type="checkbox"/>	
Polishing drum	PT	2 l	40 %		<input type="checkbox"/>						<input type="checkbox"/>
Double Roll Crusher	TG 2000		20 kg/h						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wet granulator	FGS II		30 kg					<input type="checkbox"/>			



## Cube Mixer KB

- Tumbling motion to generate a homogeneous mixture within the shortest possible time
- Attached via ERWEKA universal gear UG
- Material: Acrylic glass / stainless steel
- Three different versions available



## Ball Mill KM

- Grinding of crystalline materials
- Drum volume: 5 l
- Ball diameter: 30-50 mm



## Pelletizer GTE

- Device for the production of pellets
- 300 mm diameter, 9.5 liters
- Material: Stainless steel



## Wet granulator FGS II

- Production of moist granules
- Working capacity: Max. 30 kg/h
- Different sieve mesh sizes available
- Material: Stainless steel



## Coating pan DKE/DKS

- Coating pan for coated tablets
- Volume: 9,5 l
- Max. Capacity: 30%.
- Outer diameter: 275 mm
- Material: Stainless steel



## Tablet press EP 1

- Tablet production up to 20 mm diameter
- Press speed infinitely variable
- Max. Throughput: 4000 tablets / hour
- Max. Filling depth: 17 mm

# Contact

Are you curious and want to find out more? Visit our website and download our product brochures, watch videos of our test equipment or find your ERWEKA dealer.



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