

OUR FULL PRODUCT RANGE IN DISSOLUTION, PHYSICALS AND R&D EQUIPMENT





WE SET INNOVATION STANDARDS

ERWEKA - MORE THAN 70 YEARS OF EXPERIENCE

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.



ERWEKA GmbH in Langen, Germany

I 1951

tablets and much more can be produced on site.

I 1968

I 1990

12008

ERWEKA is released following a development Healthcare - the RoboDis I.

I 2012

The fully automatic parallel-operating,

I 2015

automatic tablet hardness tester MultiCheck 6 with patented Oblong NavigatorTM.

1 2019

1 2023

70 years of ERWEKA is laid

LEADING

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 USP, EP and JP. 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.



PHYSICAL TESTER



SERVICE

DISSOLUTION **TESTER**



ALL-PURPOSE

EQUIPMENT

THE RIGHT DEVICE FOR EVERY APPLICATION

FROM MANUAL TO FULLY AUTOMATIC

			1, 2, 5, 6		4		
Ē	Manual		Г	DT light Series DT 950, DT 9510			
Dissolution	Semi-automatic	Dis		Offline/Online/ Offline Systems	R	DFZ II	
Diss	Fully automatic			RoboDis II+			
		Testpara- meter	Weight	Width	Diameter/Length	Thickness	Hardness
£O.	Manual	TBH 325		TBH 125 TBH 325	TBH 125 TBH 325	TBH 125 TBH 325	TBH 125 TBH 325
Hardness	Semi-automatic	TB	H 425		TBH 425	TBH 425	TBH 425
Ha	Fully automatic	Easy(MultiCh		EasyCheck MultiCheck 6	EasyCheck MultiCheck 6	EasyCheck MultiCheck 6	EasyCheck MultiCheck 6

SVM II

TAR II

Disintegration tester ZT 120 Light, ZT 320, 730 **Tapped density tester**

Friability & abrasion tester

Vacuum leak tester VDT/S **Suppository tester** SSP, PM 30, ST 35, SBT 2

Granulate flow tester

GTL, GT & GTB

AT A GLANCE

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



touch interface



Uparadeability

DISSOLUTION

DISSOLUTION TESTER FOR USP 1 TO USP 7



DT 950 Series

- I Digital Dissolution Tester
- I 6-8 test stations
- I 7" touchdisplay with modern user interface and TestAssist
- I 100% USP/EP/JP conform dissolution testing
- I User management, method memory & temperature measurement for each vessel, FTP data export (e.g. for LIMS), updateable via USB



DT 9510 Series

- I Digital Dissolution Tester
- 12-14 test stations
- I Innovative AirLift system
- I 7" touchdisplay with modern user interface and TestAssist
- I 100% USP/EP/JP conform dissolution testing
- I User management, method memory & temperature measurement for each vessel, FTP data export (e.g. for LIMS), updateable via USB

MORE DISSOLUTION DEVICES

PERFECT RESULTS FOR LABORATORIES



DT 126 Light

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



DT 128 Light

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



MediPrep Series

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



USP 4 DFZ II

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



DISSO.NET SOFTWARE

The ERWEKA Disso.NET 4 is the perfect

DT LIGHT SERIES

The ERWEKA DT light Series delivers the

hensive package for a budget for simple dissolution testing with USP method 1,

5 and 6. The DTs are equipped with 6, 8

or 12 test stations and a fixed drive head

(highhead), allowing easy access to each

1000 ml vessel.

proven ERWEKA quality in a compre-

21 CFR Part 11 compliant companion to all our Dissolution Systems, ranging from Dissolution Offline over Online to On-/ Offline Systems up to the fully automated RoboDis II+ system. The software helps you with standard dissolution jobs, easily handles qualification tasks and provides control over each single function and connected devices (e.g. dissolution tester with UV-Vis spectrophotometer). After finishing those tests, Disso.NET creates extensive reports with corporate logos for PDF-file export or exports your results in XLS or XML.



RRT 10 BioDis

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



Disso.NET Software

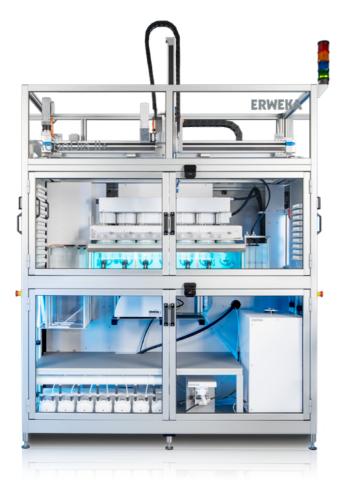
- I Control all functions of each connected testing equipment
- I Full Audit Trail according to 21 CFR Part 11
- I User Management with Active
- I MS SQL database for data storage

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.

DISSOLUTION AUTOMATION

OUR AUTOMATED SYSTEMS



100% 100% USP/

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 half change or full change



Media preparation

RoboDis II+

DISSOLUTION SYSTEMS

WITH DT 950 OR DT 9510



Dissolution Offline System

- USP methods 1, 2, 5 and 6
- I Full stand-alone control of connected hardware: IPC or PVP Pump and sample collector
- I User management, method memory & temperature measurement for each vessel, FTP data export (e.g. for LIMS), updateable via USB



Dissolution Online System

- USP methods 1, 2, 5 and 6
- I Full control by Disso.NET software: Pump and UV/Vis analytic
- I Extensive report functionalities
- User management with Active Directory connection, method memory & temperature measurement for each vessel, FTP data export (e.g. for LIMS), updateable via USB



Dissolution On-/Offline System UV-Vis

- USP methods 1, 2, 5 and 6
- I Full control by Disso.NET software: Pump, sample collector and UV/Vis analytic
- I Extensive report functionalities
- User management with Active Directory connection, method memory & temperature measurement for each vessel, FTP data export (e.g. for LIMS), updateable via USB



Dissolution HPLC On-/Offline System

- USP methods 1, 2, 5 and 6
- I Full control by Disso.NET software: Pump, AutoSampler and direct injection into HPLC analytica
- I Extensive report functionalities
- User management with Active Directory connection, method memory & temperature measurement for each vessel, FTP data export (e.g. for LIMS), updateable via USB

LEVELS OF AUTOMATION

ERWEKA offers several products for different types of automation levels. The semi-automated Dissolution Offline System for automation of three steps of the dissolution process or a semi-automated Dissolution Online System are perfect entry-level systems into the world of 100% USP/EP/JP, automated testing. Our Dissolution On-/Offline System with UV-Vis or HPLC analysis automates five steps of the dissolution process. In addition with a MediPrep the media preparation can also be automated.

WHAT WE OFFER

ERWEKA offers a wide range of test equipment for the physical properties of tablets.

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% USP/EP/JP conform



From manual to fully automatic



Touch display



AutoCal 2.0 electronic calibration available

HARDNESS TESTING

FROM MANUAL TO FULLY AUTOMATIC





- I Magazine with 12 sample chambers (100 samples each, up to 1200 tablets)
- I Fully automatic measurement of up to 5 Parameters: Weight, Thickness, Diameter/Length, Width, Hardness with Oblong Navigator®
- I 100 % USP conform
- I Intuitive Touch-Display











Slider®



I 100 % USP conform

I Intuitive Touch-Display

EasyCheck

I Magazine for 20 samples



I Fully automatic measurement of up to 5 Parameters:



Weight, Thickness, Diameter/Length, Width, Hardness with Oblong







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



TBH 325

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



I Manual entry-level hardness tester

TBH 125

- I Quick testing of up to 99 samples in a row
- I Measurement of up to 3 parameters: Thickness, Diameter/Length, Hardness









HARDNESS TESTER **SERIES**

The versatile range of ERWEKA hardness testers comprises all types of test equipment, from manual and semi-automated up to our fully automatic devices EasyCheck and MultiCheck 6. Our compact entry-level device TBH 125 is ideally suited for testing of up to three parameters, whereas the manual TBH 325 and the semi-automated TBH 425 enable testing of up to four parameters. Besides, our fully automatic combination testers facilitate comfortable testing of up to five parameters! The hardness testers of the series TBH 325 and 425 feature an internal product memory for easy storage of up to 50 products. With the EasyCheck and the MultiCheck 6 up to 100 methods can be easily stored. For calibration all devices support the automatic AutoCal 2.0, devices from series TBH 325 can also be operated in combination with the MC.NET windows software (With audit trail and result memory). Smaller quantities can be automatically tested with the EasyCheck. The MultiCheck 6 with large magazine is especially suited for automated testing of

up to 12 batches.

























ZT 730 SERIES

The ERWEKA ZT 730 Series with cable-free AirBasket automatically determines the disintegration time of samples by using a unique system of magnets and sensors.

ZT 320 SERIES

The user friendly ZT 320 series comes with one to four individually operated test stations, each connected to an individual keypad for easy setting of the required run time parameters as well as to start and stop the operation.

ZT LIGHT SERIES

The ERWEKA ZT 120 light series is the perfect entry-level disintegration tester with one or two single-motor driven USP/EP/JP compliant test station.

PHYSICAL TESTER

PHYSICAL TESTING RANGE FROM ERWEKA



ZT 730

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











controllable test stations

individual keypad per station

ZT 320



I Manual disintegration tester with individually

I Up to 4 test statios for Basket Type A and B with











ZT Light Series

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



GTB II

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



TAR II

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



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



ST 35

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

SVM II

The SVM II is our latest generation of tapped density tester. With unprecedented flexbility and intelligent features, it makes tapped density testing as easy and reliable as never before.

TAR II

The TAR II is the next step in intelligent, upgradeable friability & abrasion testing according to USP/EP/JP. Its unprecedented flexibility and intelligent features such as TestAssist and direct balance data transfer make TAR II the most advanced friability tester on the market.



AR 403

The ERWEKA AR 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 smallscale production.



R&D EQUIPMENT

AR 403 - THE ERWEKA METHOD

,	Attachment	Туре	Max. Volume	Max. Capacity	VT required	UG required	Liquids	Oint- ments & Creams	Powder	Granula- tes	Pellets	Tablets/ Dragees
	Conical Mill	СМ		30 kg						·		
	Ball Mill	KM 5	51	40 %								
	Cube Mixer	KB 15	3,51	40%								
	Cube Mixer	KB 20	81	40%								
	Cube Mixer	KB 20 S	81	40 %								
	Double Cone Mixer	DKM	11,91	50%								
	Drum Hoop Mixer	RM 5	51	40%					•	•		
	High Speed Mixer	SW 1/S	51	70 %								
	V-Mixer	VB-3	31	21						•		
	Planetary Stirrer	PRS	51	60%								
	Coating pan	DKE	9,51	30 %								•
	Filling & Dosing	FDS II	191	1.000/h								
	Pelletizer	GTE	9,5								•	
	Polishing drum	PT	21	40%								
	Double Roll Crusher	TG 2000		20 kg/h						•		
	Wet granulator	FGS II		30 kg								

DIFFERENT ATTACHMENTS

PERFECT FOR R&D AND SMALL-SCALE PRODUCTION



Cube Mixer KB

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



Ball Mill KM

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



- I Device for the production of pellets
- I 400 mm diameter, 9.5 liters I Material: Stainless steel

Pelletizer GTE



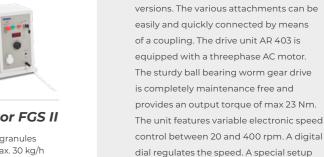
- I Different sieve mesh sizes
- I Material: Stainless steel



Wet granulator FGS II

- available

- I Production of moist granules
- I Working capacity: Max. 30 kg/h



ALL-PURPOSE SYSTEM

The ERWEKA All-Purpose system is based

on a powerful drive unit available in two

mode limits the rotations per minute to 20

rpm to ensure save installation of the at-

tachments. Through permanent nominal/

actual adjustment the preselected speed is maintained, even under varying load.



Coating pan DKE/DKS

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



Tablet press EP-1

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



VERDER scientific

VERDER SCIENTIFIC

ENABLING PROGRESS.

Under the roof of VERDER SCIENTIFIC we support thousands of customers worldwide in realizing the ambition we share.

As their technology partner behind the scenes, we deliver the solutions they need to make progress and to improve the everyday lives of countless people. Together, we make the world a healthier, safer and more sustainable place.



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