



# Introducing the ZT Series

The new generation of disintegration testing –  
from manual to fully automated



**ERWEKA**

# From manual to fully automated – ERWEKA ZT Series

The ERWEKA disintegration testers enable easy and convenient determination of the disintegration time of tablets and other solid dosage forms. The broad range of ERWEKA disintegration testers comprises all types of test equipment from the manual ZT 121 light and the ZT 220/320 series up to our fully automated disintegration testers of the ZT 720 series.

Our compact entry-level device ZT 121 light with one test station and the disintegration testers of the ZT 220 and ZT 320 series with up to 4 test stations

are perfectly suited for the manual determination of the disintegration of test samples. The ZT 720 series automatically detects the disintegration of samples by using magnetic sensors.

Versatile options and accessories ensure flexibility and enable the adaption to your specific needs. Our sales team will be pleased to discuss the configuration best suited to your laboratory.

## Options for ZT Series



AutoBasket type A  
(with 6 test tubes,  
for ZT 720 series only)



AutoBasket type B  
(with 3 test tubes,  
for ZT 720 series only)



Quick Clean Basket type A  
(with 6 test tubes or  
type B with 3 test tubes)



Basket type A  
(with 6 test tubes or  
type B with 3 test tubes)



Different coloured discs for type A and B baskets,  
non-magnetic and magnetic for AutoBaskets



Auxiliary tubes for granule testing,  
JP pharmacopoeia confirm

# Compact disintegration testing – ZT 120 light series



Available with 1 or 2 teststations

The ERWEKA ZT 120 light series are the perfect entry-level disintegration tester with one or two simultaneously motor driven USP/EP/JP compliant test station. The compact unit of our light series are equipped with an integrated flow-through heater and a moulded one-piece PET water bath (no leaking/breaking, easy to clean) with cover.

The ZT 121 light can be easily operated via a membrane keypad. Defined test run parameters such as run time and water bath temperature are entered with symbol keys and the actual values are then shown on large and bright LED displays. The run-time counter automatically starts as soon as the basket rack assembly is lowered into the test media.



100%  
USP/EP/JP  
compliant



Easy control  
via a large  
LED display



Compact  
entry-level  
device

## Technical Data

1 or two parallel test station

30 ± 1 strokes/min.

55 ± 2 mm stroke height

Function keys and 2x LED display for entering nominal bath temperature and required run-time

Starts/stops to counting run-time automatically when basket rack is lowered

Integrated flow-through heating system (accuracy ± 0.2 °C)

Temperature range 30 - 50 °C

Run time up to 9 h, 59 min, 59 s ± 1 s

Manual lift-in and -out of the baskets

## Highlights

- External electronic temperature sensor PT 100
- Quick Clean Basket type A (6 test tubes)  
100% USP compliant

## Options

- Water stabiliser with colour indicator
- Qualification documents IQ/OQ/PV
- ERWEKA IQ/OQ/PV service at customer site
- Maintenance service

# Broad range of disintegration and dissolution products

Our disintegration range is the perfect companion to our dissolution products - from manual to fully automated with the RoboDis II.

We offer entry-level manual DT light dissolution tester with 6, 8 or 12 test stations, semi-automated dissolution systems with automatic sample collection, semi-automated dissolution online systems with spectrophotometer or HPLC analysis controlled by our powerful Disso.NET 2018 with audit trail or the high-end fully automated dissolution system RoboDis II for real 24/7 testing.

Apart from the standard USP 1, 2, 5 and 6 dissolution tester, ERWEKA also offers a next generation USP 4 flow-through cell with the DFZ II and a USP 3/7 tester with the BioDis RRT10.

Our extensive knowledge across all USP methods from USP 1 to 7 and the broad range of physical testers make ERWEKA the perfect partner for all pharmaceutical companies.

100%

100%  
USP / EP / JP  
compliant

Disso.NET

Controlled by  
Disso.NET



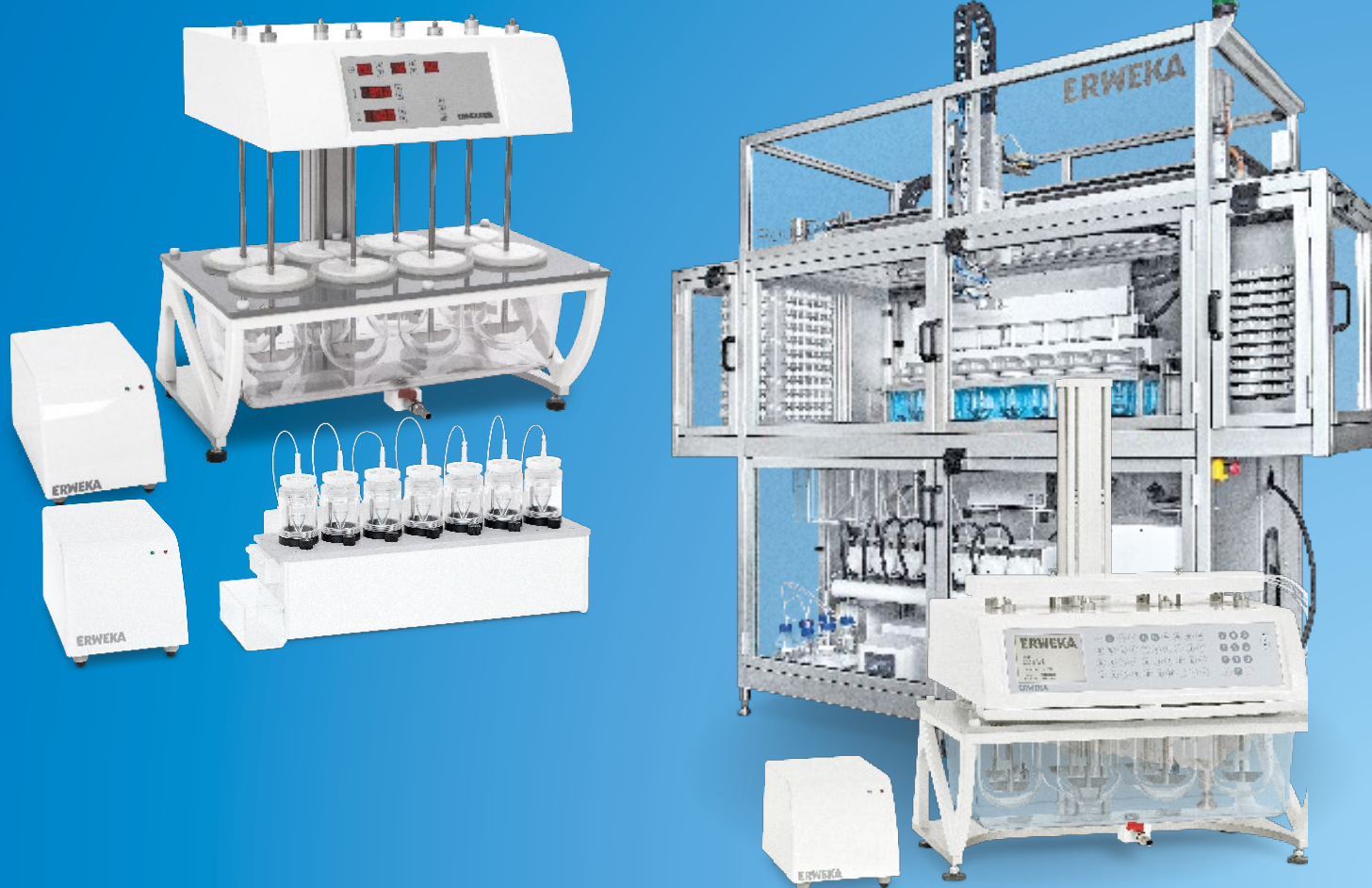
Manual  
testing



Online System  
with UV-Vis or  
HPLC



Sample collector  
FRL 6/7/854



# Asynchronous disintegration testing – ZT 320 Series



The test stations of our ZT 320 series are driven individually. Each test station is controlled by its own keypad. After programming the required test run-time, the basket rack assembly with its loaded samples is automatically lowered into the media. On completion of the preset run-time or when the stop button is pressed, the basket rack is raised from the media to prevent further disintegration of the samples (optional).

100%

100 %  
USP / EP / JP  
compliant



Continuous heating of  
water bath by  
flow-through heater



1 to 4  
asynchronous  
test stations



Tool free  
assembly and  
disassembly

## Technical Data

1 to 4 test racks

30 ± 1 strokes/min

55 ± 2 mm stroke height

LED display to show remaining run-time and actual bath temperature

Integrated flow-through heating system (accuracy ± 0.2 °C)

Temperature range 30 - 50 °C

Run time up to 99 h, 59 min, 59 s ± 1 s

Manual lift-in and -out of the baskets

RS 232 interface

USB-A printer interface for documentation print out

## Options

- Automated lift-in and -out of the basket rack assembly/ies on start / completion of the pre-set run-time of each test station
- Basket rack assembly type A (6 test tubes) or type B (3 test tubes) 100 % USP compliant
- Media pre-heat and disintegration rack storage container located in the water bath (ZT 321 and 323 only)
- Quick-Clean-Basket (100 % USP/EP/JP compliant) for fast cleaning of the test stations
- Water stabiliser with colour indicator
- Qualification documents IQ/OQ/PV
- ERWEKA IQ/OQ/PV service at customer site
- Maintenance service

# Automated disintegration testing – ZT 720 Series

The ERWEKA ZT 720 Series automatically determines the disintegration time of samples by using a unique system of magnets and sensors. The ZT 720 is available with one (ZT 721) or two (ZT 722) individually driven test stations and is equipped with an integrated flow-through heater.

Its temperature sensor PT 100 allows constant control of the water bath temperature. The ZT 720 series is controlled through an intuitive 7" touchscreen and is capable of storing and retrieving up to 200 products/methods with results and parameters.

Select the basket type for your individual need: Basket type A comes with 6 test tubes for standard tablets, basket type B contains 3 test tubes for bigger tablets (according to USP/EP standards).

## Options

- AutoBasket type A (6 tubes) & Type B (3 tubes)
- Additional vessel for pre-heating (ZT 721 only)
- Disc remover for removal of type A discs
- Mesh 10 or 40 sieves for AutoBasket type A & B
- IQ/OQ/PV documents and validation service
- Printer

## Touch display

Intuitive navigation due to user-friendly menu structure with a 7" integrated touchscreen display for convenient and easy operation. Access is password protected.

## Speed control

Lift drive with stepper motor for direct speed control. Automated lift-in and lift-out of the basket rack at start/completion of the pre-set run-time.

## AutoBasket

Automated determination of the disintegration time of each sample by built-in sensors within the AutoBasket.

## Acrylic water bath

Effortless cleaning is easily possible due to the removable acrylic water bath, equipped with an outlet valve.



## The new ZT 720 Series touch display

During the development of the ZT 720 touch display we focused on the features which users find most important: Easy and fast creation of methods, quick launching of tests and documentation of test results. The intuitive touch display enables easy operation of all functions.

ZT 720 is equipped with 4 GB memory to store up to 200 products/methods and about 1 million test results, which can be displayed and exported at any time, ensuring that no test results are lost. Comprehensive integrated calibration functions guarantee accurate results and document each calibration process: Maximum convenience combined with an extensive feature set.

### Highlights

- Intuitive navigation due to user-friendly menu structure
- 4 GB memory for methods and test results
- Data export option: USB or LAN interface exports data in XML or CSV format
- Interconnect your systems: Load data from one system to another via USB/SD interface
- Automatic store function of test results after each test
- Back-up function through USB/SD-Card
- Customizable IQ/OQ/PV validation interval periods

### Technical Data

Test stations	1 (ZT 721) or 2 (ZT 722)
Touch display	7"
Memory function	4 GB memory for 200 products/methods and approx. 1 million test results
Lift drive	Step motor
Speed	30 ± 1 mm/min
Height of stroke	55 ± 2 mm
Heating	Integrated flow through heating system
Temperature control	External PT 100 temperature sensor
Automatic determination of the disintegration time	AutoBasket type A (6 test tubes) or AutoBasket type B (3 test tubes plus discs)
Power consumption 230V/115V	1750Watt
Voltage ± 10 %	230VAC / 50 Hz - 60 Hz 115VAC / 50 Hz - 60 Hz
Interfaces	USB A, USB B and LAN
Printer interface for	Oki laser printer / HP laser printer
Dimension: width/depth/height weight	397 mm / 365 mm / 667 mm 30 - 35 kg



AutoBasket for automated testing uses a magnetic guided disc and sensors under the USP/EP compliant sieves



## Contact

Are you curious and want to find out more?  
Head over to our website and download our product brochures,  
watch videos of our equipment in action or find the ERWEKA  
dealer of your country.



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