LORDERAN

DISINTEGRATION TESTER

1 · 2 · 3 Stations **Disintegration Tester**

Six tubes per station, rising and falling **55 ± 1 mm** at **30–32 cycles per minute**, then an automatic stop at the timing point.

MODELS BJ-1 BJ-2 BJ-3





BJ-1



BJ-2

1 · 2 · 3 INDEPENDENT STATIONS	**6 · 12 · 18** TUBES	**30–32** /min BASKET FREQUENCY	**55 ± 1** mm STROKE
Rt–45 °C BATH RANGE	**±0.5** °C TEMPERATURE ACCURACY	**1–900** min TIMING RANGE	**600** W POWER

01 Independent stations
Run different products side by side (BJ-2, BJ-3).

02 Auto-stop
The basket stops at the timing point.

03 USP compliant
Stroke and frequency to USP.

APPLICATIONS
Tablets · Capsules · QC release · Formulation R&D

Warranty
Major defects: full refund or replacement.

Free DDP shipping
Duties paid, no surprise import charges.

30-day returns
Most new, unopened items.

PRODUCT OVERVIEW

Up and down, at a precise rhythm

A disintegration tester with one, two or three independent stations, for checking how solid dosage forms break up under prescribed conditions. Each basket rack carries **six tubes**.

The rack moves **55 mm at 30 to 32 cycles per minute** in a bath held from room temperature to 45 °C. The tester times the run and stops the basket automatically at the timing point.

HOW IT WORKS

01 Load
One tablet or capsule in each of the six tubes.

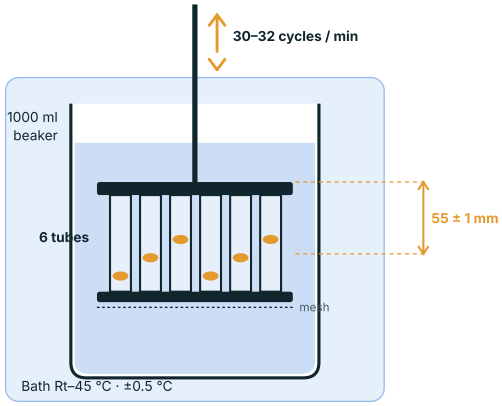
02 Immerse
Rack in a beaker of fluid in the bath, Rt–45 °C, ±0.5 °C.

03 Stroke
55 ± 1 mm at 30–32 cycles per minute.

04 Stop
Basket stops automatically at the set time, 1–900 min.

05 Inspect
Check every tube for residue.

Basket rack. Six tubes rise and fall through the medium at a fixed rate and stroke.



STROKE
55 ± 1 mm
USP 53–57 mm

FREQUENCY
30–32 /min
USP 29–32

BATH
Rt–45 °C
±0.5 °C

TIMING
1–900 min
auto-stop

ACCEPTANCE · USP <701>
6 / 6 or ≥ 16 / 18
All six units disintegrate completely. If one or two fail, repeat on 12 more; at least 16 of the 18 must disintegrate.

Fluid at 37 °C
Bring the fluid to temperature before the rack starts.

Use discs if specified
Some monographs call for discs in each tube.

Define 'complete'
Only soft residue with no firm core counts as disintegrated.

FEATURES

Simple, independent, reliable



Basket rack, six tubes



Beaker and accessories

01 Stations

- **Independent** drive per station (BJ-2, BJ-3)
- Six tubes per station: 6, 12 or 18
- From **260 mm** wide for a single station

02 Control

- **MPU** control of temperature, timing and frequency
- Preset and live values on screen
- Auto-test, diagnose and alarm

03 Motion

- **55 ± 1 mm** stroke
- **30–32** cycles per minute
- **Auto-stop** at the timing point

04 Bath

- Room temperature to **45 °C**
- Accuracy **±0.5 °C**
- 220 V / 50 Hz or 110 V / 60 Hz

TECHNICAL SPECIFICATIONS

Technical specifications

Parameter	BJ-1	BJ-2	BJ-3
TESTING			
Testing Station	1	2	3
Speed	30~32 /min		
Height of Stroke	55±1 mm		
Timing Range	1~900 mins		
Temperature	Rt~45 °C		
Accuracy of Temperature	±0.5 °C		
INSTRUMENT			
Power Supply	220V/ 50Hz, 110V/ 60Hz		
Power	600W		
Dimension	260×300×420 mm	400×300×420 mm	540×300×420 mm

Specifications from the LORDERAN product documentation. Subject to change without notice for product improvement.

AT A GLANCE

MODEL
BJ-1
Stations
1
Power
600W
Dimension
260×300×420 mm

MODEL
BJ-2
Stations
2
Power
600W
Dimension
400×300×420 mm

MODEL
BJ-3
Stations
3
Power
600W
Dimension
540×300×420 mm

THE LORDERAN TABLET TESTING RANGE · THIS MODEL HIGHLIGHTED

Instrument	Models	Highlights
Dissolution, manual turn-over head	RC-1 · RC-3 · RC-6 · RC-8	1–8 vessels, ChP 2020 parameters stored
Dissolution, auto-lifting head	RC-6D · RC-8D · RC-8DS · RC-12D	Up to 12 vessels, self-inspection alarms
Dissolution, auto-lifting + turn-over	RC-3DT · RC-6DT · RC-8DT	3–8 vessels, lifts and turns over
Disintegration tester	**BJ-1 · BJ-2 · BJ-3**	**6–18 tubes, independent stations**
Friability tester	CS-4 · CS-2 · CS-3 · CS-1	1 or 2 drums; CS-1 20–90 rpm
Hardness tester, manual	YD-1	2–199.9 N, ±0.5 %
2-in-1 hardness + friability	PJ-2D	2–199.9 N, two drums
4-in-1 tablet tester	PJ-4D · PJ-6D	Hardness, friability, disintegration, dissolution

DISINTEGRATION TEST REFERENCE · USP <701>

Item	USP <701>	This tester
Stroke	53–57 mm	55 ± 1 mm
Frequency	29–32 cycles / min	30–32 / min
Immersion fluid	37 ± 2 °C	Rt–45 °C, ±0.5 °C
Tubes per basket rack	6	6 per station
Acceptance	6 of 6; if 1–2 fail, ≥ 16 of 18	Auto-stop at the timing point

Reference summary for planning; the current pharmacopoeia and the product monograph govern the test.

APPLICATIONS & SERVICE

Where it works, and what comes with it

Tablets
Uncoated, coated and effervescent forms per monograph.

Capsules
Hard and soft capsules in the basket rack.

QC release
Batch checks with auto-stop timing.

Formulation R&D
Compare prototypes station by station.

INSTALLATION

Supply
220 V / 50 Hz or 110 V / 60 Hz.

Bench
260, 400 or 540 mm wide, 300 mm deep, 420 mm high.

Fluid
Immersion fluid per monograph, at 37 °C.

WARRANTY & SERVICE

Warranty
Major defects under warranty: full refund or replacement.

30-day returns
Return most new, unopened items within 30 days.

Free DDP shipping
Delivered duty paid, no surprise import charges.

Formal quotation
PDF quote on request, with a confirmed ship date.

Request a quotation

Send your application, model and quantity through www.lorderan.com and we will reply with a formal PDF quotation.

DS-BJ-1-3-EN · Rev. B · Nov 2026 · Calculated values are reference figures. Specifications may change without notice for product improvement.

LORDERAN

www.lorderan.com

Laboratory and environmental test equipment