ischi
OSD technologies

EVOLUTION IN DISINTEGRATION TESTING

DISI *evo*
Disintegration tester

ischi.com

Basket with innovative technology

+ Modular up to 4 stations
+ LED status
+ 21 CFR Part 11 compliant (optional)
+ Visualization of disintegration profiles

User-friendly touch screen operation

100% unattended end-point detection for each tablet

Fully compliant wireless self-centering baskets

Automatic test start when target temperature has been reached

Continuous monitoring of medium level and temperature

Bathless induction heating allows to bring the water to 37 °C for very short heating times

Easy operation

The DISI Evo is meticulously engineered for precision, efficiency, and user-friendliness. This device offers a swift solution for disintegration tests, demanding minimal maintenance.

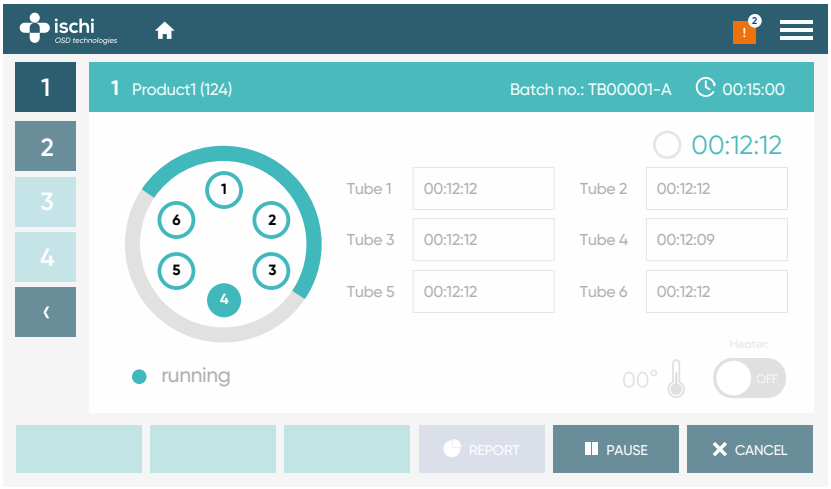
LED indicators promptly signal the device's operational status and test phase, ensuring the operator's attention is captured precisely when needed.

Magnetic coupling

The testing baskets can be effortlessly attached and detached due to the magnetic coupling, eliminating the need for wires entirely.

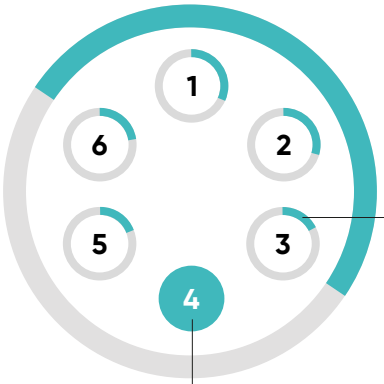
Real-time monitoring of the remaining height of the tablets

During each upward stroke of the basket, an automatic height measurement tracks the remaining thickness of the tablets. This feature is especially advantageous for coated tablets and capsules with residual shells—no specialized discs needed. It's also invaluable for R&D labs seeking detailed insights into tablet disintegration characteristics.



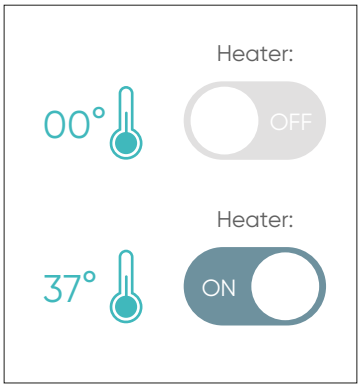
DISI Evo Software

The DISI-Evo, when operated via the Ph21 Software, offers predefined EU Ph. and USP testing methods.
However, its touch display software also allows users to easily create their own methods individually.



The rings display the disintegration process in real-time. When completely filled, it indicates 100% disintegration,

Once a tablet achieves 100% disintegration, the entire dot will tum green.



Advanced Basket technology

While using discs for tests, the tablet heights are detected during every upward movement of the basket. The declining height of the tablets is then showcased on the PC or HMI interface. Should the monograph prohibit the use of discs, the operator can manually halt the test.

Residual height settings can be individually programmed for capsules and other dosage forms.

The innovative measurement principle is based on the attenuation of an electromagnetic field when a short-circuited coil passes through it, a patented method.

Two types of baskets:

A-type disintegration test basket for tablets < Ø 18 mm and
B-type for tablets > Ø 18 mm.

Effortless cleaning

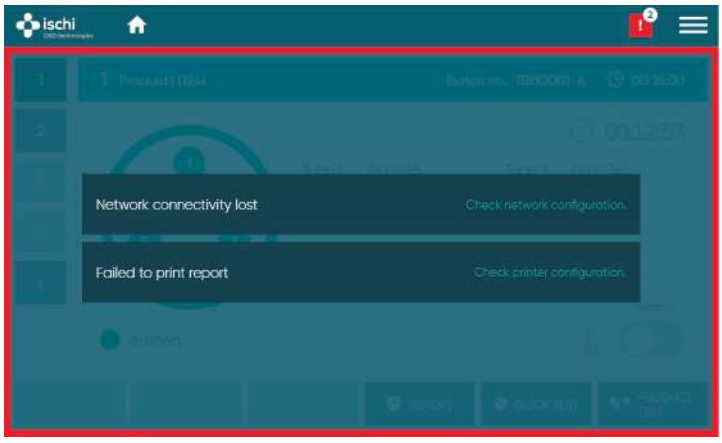
With just a few simple steps, you can easily dismantle the testing baskets for cleaning. Not only is the basket assembly remarkably durable, but it can also be effortlessly disassembled and fully submerged in a cleaning bath.

Smart display

Prioritizing user convenience, we've streamlined the customer experience to ensure significant time savings in the lab.

Our cutting-edge HMI control unit, available as an optional addition, can be conveniently positioned either in front of or on top of the tester.

Its high-resolution capacitive display, featuring 1024x600 pixels, delivers sharp contrast and expansive viewing angles, guaranteeing a comfortable and effortless operation.



Information center

Our Information Center offers a swift snapshot of all outstanding issues, accompanied by direct links to specific warnings. From expired calibration intervals to unsuccessful exports, it efficiently highlights areas of concern. The Information Center empowers users to promptly address and resolve all challenges from a single window.

Data Management

The DISI Evo, boasting a versatile 7-inch touch display, provides an expansive suite of features dedicated to comprehensive data management. Here are its primary standard offerings:

- Storage Capabilities: Infinite storage potential for both products and methods.
- Streamlined Testing: Deactivate and lock any unused products and methods.
- Method Assignments: Link methods to single or multiple products seamlessly.
- Report Access: On-demand calibration and adjustment report printing.
- Data Preservation: Dependable data storage in the durable onboard memory.
- Report Preview: A readily accessible report catalog for data perusal.
- Flexible Reporting: Options to export or print reports, with or without visual graphics.
- Data Export: Effortless report saving, either manual or automated, to USB drives or network folders. Direct PDF export available.
- Data Safety: In-built automatic backup utility with user-defined timing to either USB or network folder.

The DISI Evo presents two intuitive operation modes:
Via the Ph21 PC Software on a Windows-based platform. Its familiar user interface ensures rapid user adaptation
or
Directly using the touch display HMI, offering tactile convenience.
Both operational modes are in line with the FDA 21CFRT1 standards, safeguarding data with stringent password protocols. Tailored access control can be set up based on specific requirements. Furthermore, all vital activities are securely recorded in a protected event logbook (audit trail). Operators are kept informed in real-time about tablet heights and receive immediate alerts regarding any unsuccessful tests, like unmet disintegration timeframes.

DimensionsW x D x H (mm)	480 x 250 x 750
Weight	
Weight	7.8 kg
Volume beaker	1 000 ml
Main Supply	
Voltage	100–240 V
Frequency	47–63 Hz
Power consumption	300 W
Fuses	3 A Fast
Interface HMI	
DISI	1 x RJ45 POE
Network / Printer	1 x RJ45
Printer / USB storage	2 x USB
Environmental conditions	
Temperature range	18-30°C
Max. temperature for basket	40°C
Relative humidity	20–80% non-condensing
Reproducibility drives	
Stroke frequency	30 strokes/min +- 0.1
Stroke	55 mm

ISCHI Worldwide

Our own network of offices and distributors around the world allows us to promptly provide support and solve problems of any complexity.

For information about a distributor in your city, please contact us by mail info@ischi.com

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