

# Charles Ischi AG

TESTING  TECHNOLOGY

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PRODUCTS FOR QUALITY AND  
 IN-PROCESS CONTROL IN THE  
 PHARMACEUTICAL INDUSTRY



**kraemer**  
 ELEKTRONIK GmbH

## Tablet Hardness Tester HC6.2

With new Additional Test and Operational Options:  
 Stand-alone with printer  
 Product memory for up to 99 products  
 PC-Software PH21

HARDNESS DIAMETER WEIGHT THICKNESS FRIABILITY SOFTWARE

## Outstanding Features.

### Compact Design.

The **HC6.2** Tablett Hardness Tester, product by Kraemer Elektronik GmbH, Germany, provides latest technology in a compact and user friendly easy to use design.

### Easy to operate.

Keep it simple! The operation of the **HC6.2** is very quick and easy to operate.

All functions for the operation of the Tablet Hardness Tester are done through the standardized operating and display panel.

### Precise and reliable.

The **HC6.2** Tablet Hardness Tester guarantees a maximum of reliability and precision. It is driven by a precise stepper motor, providing compatible test results compared to the well known Automatic Tablet Testing Systems UTS and Check-master models.

### Easy to calibrate.

Calibrate your tester in two minutes and in three easy steps:

1. Open the security lock and slide display panel to the back.
2. Set the mini-load cell to the vertical position.
3. Start adjustment procedure.

The calibration can be done by the classical 5 kg weight method or by the optional **Dynamic Calibration Device**.



Static Calibration



Dynamic Calibration with certified load cell

**Calibration Set of weights and gauges as well as Qualification Documents IQ/OQ available as an option.**

## Multiple Options.

### Option 1 Basic Tester with Printer.

The basic model measures hardness and diameter, and allows the connection of a deskjet printer via USB-port. The optional memory for 99 products allows the external administration of product specifications and upload via USB memory stick.

### Option 2 Tester, Micrometer, Balance, Printer.

An extension module is available which allows the installation of a thickness gauge and the connection of a balance (Sartorius or Mettler), which can be used as well for friability testing.



Up to five parameters may be printed on one report: Hardness, Diameter, Weight, Thickness and Friability.

### Option 3 Tester, Micrometer, Balance, PC, Printer

Option 3 allows the data acquisition and evaluation by our PH21 software.



The software is fully 21CFR Part11 compatible, available with MS-Access or MS-SQL-Server Database and offers connectivity to data management systems.

### Technical data HC6.2

|                                    |  |
|------------------------------------|--|
| <b>Measuring principle:</b>        | Electronic load cell with strain gauges.   |
| <b>Measuring range:</b>            | 0.5-50N, 4-400N,   |
| <b>Accuracy:</b>                   | ± 0.1N (50N), ± 1N (400N),<br>± 2N (800N)  |
| <b>Units:</b>                      | N, Kp, Sc  |
| <b>Force increase:</b>             | 250 N/sec  |
| <b>Work cycle of pressure jaw:</b> | 0.35 mm/sec  |
| <b>Tablet diameter:</b>            | 2.00 - 30.00 mm  |
| <b>Interface:</b>                  | 2x USB Master, 1x USB Slave,<br>1x RJ45 Ethernet, Option:<br>2x RS232 for balance and<br>thickness gauge |
| <b>Power supply:</b>               | 100 - 240 VAC, 50 / 60 Hz  |
| <b>Dimensions:</b>                 | 230 x 240 x 120 (W x D x H mm)   |
| <b>With option thickness:</b>      | 290 x 240 x 200 mm   |

|                    |   |
|--------------------|---|
| <b>Net weight:</b> | 7 kg (Tester only)                              |
| <b>Printer</b>     | Common Printers with USB Interface (HP Deskjet) |

### Any Questions?

For more information, worldwide references and technical data of the Tablet Testing System please see the Internet at:

[www.ischi.ch](http://www.ischi.ch)



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Certified ISO 9001:2000