Zwick / Roell

Zwick
Materials Testing

Product Information

Zwick 3103 IRHD Micro Compact Hardness tester

Range of application

The IRHD Micro Compact hardness tester (Zwick 3103) is designed for hardness tests to IRHD micro on plastics and rubber. The requirements of test standards DIN 53519-2, ISO 48, ASTM D 1415, NFT 46003, BS 903, part A26 are fulfilled.

The hardness tester is put to use in quality assurance, in goods received and outgoing goods checks at manufacturers and processors from the plastics and rubber industry.

Advantages/Features

- The IRHD Micro Compact hardness tester consists of a basic casing with integrated electronics and display, a height adjustable support table for the specimen and a column with an inbuilt IRHD micro (DIN 53519-2) measurement device.
  The hardness tester can be put to use for tests on O-rings, seals, shaped parts and hoses whereby the minimum thickness must be 0,5 mm.
- A two-line LC display provides information on the measurement range, the measurement time and the test data.
- A code switch enables you to set the measurement time (0...75 s) and the language (d/e/f).
- The test data is shown automatically on the display after the measurement time has expired. The test data can be transmitted to a PC for further processing and archiving via an RS232 interface when using the test software *testXpert*® (069020.0X.X0). The current test data is shown on the display in that any previous data is overwritten by new data.
- The test results are automatically transmitted and statistically evaluated in a correspondingly prepared test report under *testXpert*®. An informative test report is a must according to ISO 9000 to guarantee the best quality for your products.
- Convincing points are:
  - short familiarization time
  - short test cycle
  - no tiring approach to the initial test point „100“
  - rapid adjustment for series tests
  - no adjustment necessary
  - data transmission is possible via serial interface.
- The control unit (opiton) serves to monitor the test loads of IRHD hardness testers according to the requirements of applicable standards.
- Rapid centring device for O-rings (option): This test stand is equipped with a centring station for O-rings and a magnifying glass for controlling the positioning as measurements are almost impossible on O-rings with an IRHD or Shore hardness tester without a fixing device.
- A special centring station for centring rubber hoses is optionally available.
- Magnifying glass (option).

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Zwick 3103 IRHD Micro Compact Hardness tester

Order no.	H04.3103.000	
	Value	Units
Soft touch keyboard with LC display	2-Line	
Measurement duration	0 ... 999	s
Memory capacity	2000	values
Power supply	230 V/~50 Hz or 115 V/~ 60 Hz	
Power consumption	max 15	VA
Interface/Data output, baud rate	RS232 C, V24, 600...9600 Baud	
Dimensions	200 x 250 x 550	mm
Weight, test stand/electronics unit	11	kg

Accessories

Description	Order no.
Rapid centring device for O-rings (material, dia. 0,5 ...6 mm)	**H04.3104.011**
Shiftable mounting block with prism for exact centring of hoses; can be placed on the test anvil	**H04.3104.010**
Magnifying glass with swivel arm	**H04.3104.009**
Control device for measurement device IRHD micro, normal, soft consisting of; base plate 500 x 300 mm, column with trapezoidal thread for coarse height adjustment, arm with fine adjustment	**H04.3104.017**
Stilt for IRHD indentor, pendulously fixed between the weigh pan and the indentor	**H04.3104.018**
Manufacturer's test certificate „M" to DIN 53519, sheet 2 IRHD micro with the supplement Measurement means to ISO 9000 total force, contact pressure, loading sleeve, indentor	**H04.3104.092**

Software *testXpert®*

Description		Order no.
Master test program for accepting test data from different devices	German	**069020.00.00**
via an RS232 C interface	English	**069020.00.10**
Standard test program for accepting test data from different devices	German	**069020.01.00**
via an RS232 C interface	English	**069020.01.10**