

IPHT

INDIVIDUAL PELLET HARDNESS TESTER

HITEC

LUXEMBOURG

AUTOMATIC EQUIPMENT TO DETERMINE CARBON BLACK INDIVIDUAL PELLET HARDNESS, COMPLIANT TO ASTM D5230 AND ISO 8942.

The Individual Pellet Hardness Tester (IPHT) is an automated tester to determine individual crush strength of carbon black pellets. The Individual Pellet Hardness Tester has been initially developed in 1993 and is in use with many international carbon black manufacturers and rubber goods producers.

The IPHT has been designed to provide reliable measurements of individual pellet hardness according to ASTM International and ISO standards.

This IPHT has been further optimized to facilitate cleaning and be less sensitive to vibrations.

The extensive control software runs on standard Windows® based PCs and is constantly kept up to date to stay compatible with latest PC technology and to reflect possible changes to the respective standards.

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KEY FEATURES

Fully compliant to relevant international standards

Integrated Random Access Sample Buffer (RASB) and damping table

Easy to clean

Connects to standard PC via serial port

Dimensions:
461x435x857 mm (WxDxH)

Weight: 58 kg

CUSTOMER SATISFACTION PROMISE

We offer worldwide installation and training services by our experienced engineers and technicians.

Contact our sales & service team for more information: sales@hitec.lu

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MEASURING CAPABILITIES

Pellet hardness
Pellet diameter
Pellet stiffness
Calculate statistics about pellet characteristics

FORCE MEASURING SPECIFICS

Range Up to 250 cN
Absolute accuracy ± 2 cN
Relative accuracy (between two measurements) ± 1 cN

PELLET SIZE MEASURING SPECIFICS

Range 0.8 to 3 mm
(interchangeable sample tip for different pellet size range)
Absolute accuracy ± 0.1 mm
Relative accuracy ± 0.02 mm

CALIBRATION

Automatically executed before each series of n pellets (n = typically 20 or 50)
Force transducer
Zero-thickness point
Equipment deflection under load

COMPRESSION MODES

ASTM D5230 Constant support speed in mm/sec
ASTM D3313 Constant force rate in cN/sec





SAMPLING

Sampling rate 55.6 Hz
Sample buffer Carroussel type for 14 samples for random access

SAFETY & SECURITY

Certifications CE marking
SGS-USTC certified

DIMENSIONS & SUPPLY

 Compressed air Min. 4 BAR
Max. 6 BAR
 Power supply 230/115 VAC, 50/60 Hz,
50 VA
 Table model 461 x 435 x 857 mm
(W x D x H)
 Weight 57.5 kg

SOFTWARE

Menu guided application
Microsoft Windows® 32/64 bit
XP/W7/W8

FEATURES

Automatic verification of "good" condition of the tester
Integrated electronic manual
Extended data treatment
Extended maintenance support
Extensive logging capabilities (all activities in log files)
Up to four testers per PC (IPHT and/or DADS/DABS)
Multilingual (English, German, French)
Retrieve and visualization of previous data
Software can be installed for retrieve only on any PC having access to the files



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