



# IPHT

## INDIVIDUAL PELLET HARDNESS TESTER

### Automatic equipment to determine carbon black crush strength, 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 manufactures and producers of rubber products. 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.

### Key features

- Fully compliant to relevant international standards
- Exceed applicable standards
- Integrated Random Access Sample Buffer (RASB) and damping table
- Easy to clean
- Connects to standard PC via serial port

### 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](mailto:sales@hitec.lu)

Visit our online catalog for more information:

<https://shop.hitec.lu/product/ipht/>

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# IPHT

## CHARACTERISTICS

### Measuring capabilities

Pellet hardness

Pellet diameter

Pellet stiffness

Calculate statistics about pellet characteristics

### Force measuring specifics

Range Up to 250 cN

Absolute accuracy  $\pm 2$  cN

Relative accuracy  $\pm 1$  cN  
(between two measurements)

### Pellet size measuring specifics

Range 0.8 to 3.5 mm  
(interchangeable sample tip for different pellet size range)

Absolute accuracy  $\pm 0.1$  mm

Relative accuracy  $\pm 0.02$  mm

### Calibration

Automatically executed before each series of n pellets (n = typically 20 or 50)

Force transducer

Zero-thickness point (ZEROING)

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


Certifications


CE marking

SGS-USTC certified

### Hardware specifications

 Compressed air Min. 4 bar  
Max. 6 bar

 Power supply 100-240 VAC +- 10%, 50/60 Hz

 Table model 461 x 435 x 857 mm (W x D x H)

 Weight 55 kg

### Software

Menu guided application

Microsoft Windows® 32/64 bit W10

### 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)

Retrieve and visualization of previous data

*All product, product specifications and data are subject to change without notice to improve reliability, function or design.*