



# IPHT

## Individual Pellet Hardness Tester

### KEY FEATURES

Fully compliant to relevant international standards

Exceeds applicable standards

Automatic calibration

Connects to standard PC via serial port

Dimensions:  
225 x 235 x 590 mm (W x D x H)

Weight: 21 kg

Optional Sample Buffer

AUTOMATIC EQUIPMENT TO DETERMINE CARBON BLACK CRUSH STRENGTH, COMPLIANT TO ASTM D5230 AND D3313 AS WELL AS ISO 8942

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

Designed for reliable measurements of the individual pellet hardness and compliant to the relevant standards of ASTM International and ISO.

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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# SYSTEM CHARACTERISTICS: INDIVIDUAL PELLET HARDNESS TESTER - IPHT

## MEASURING CAPABILITIES

Individual pellet hardness
Individual pellet diameter
Individual pellet stiffness
Calculate statistics about pellet characteristics

## FORCE MEASURING SPECIFICS

Range	Up to 300 cN
Absolute accuracy	± 2 cN
Relative accuracy (between two measurements)	± 1 cN
Sampling rate	50Hz

## 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

## SAFETY & SECURITY

Certifications	CE marking SGS-USTC certified
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## DIMENSIONS & SUPPLY

Power supply	230/115 VAC, 50/60 Hz, 50 VA
Table model	225 x 235 x 590 mm (W x D x H)
Weight	21 kg

## INTERFACES

Serial port (RS232) to standard PC serving as operator  
interface (software included with instrument)

Secondary serial port for optional sample buffer

## SOFTWARE

Menu guided application

Environment	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 4 testers per PC (IPHT and/or DADS/DABS) Multilingual (English, German, French) Retrieve and visualization of previous data Can be installed for retrieve only on any PC having access to the files

## OPTIONS

Sample buffer	Carrousel type for 14 samples providing random access
Damping table	Protection against external vibrations



IPHT with RASB and Damping Table

## CONTACT

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