

PMST

PELLETIZED POWDER MASS STRENGTH TESTER

Test equipment to determine the mass strength of pelleted carbon black as per ASTM D1937.

The test method ASTM D1937 "... is designed to determine the force required to pack a cylindrical column with pelleted carbon black. The results of this test are believed to relate to the ability of the carbon black to flow in bulk handling systems." ... "Mass strength gives an indication of the flowability in bulk handling. It is affected by pellet properties such as hardness, size, shape, and especially fines content."*

* Excerpts from chapter 1 resp. 4, of ASTM D1937-18

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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Key features

- State-of-the-art design
- Standalone device with programmable controller with 5.7" display, 640×480 px
- Software guided measurement sequence according to ASTM D1937
- Software guided load cell calibration
- 4 robust push buttons for "dirty" operations
- Stepper motor driven plunger with position feedback of sample height
- Force measurement by load cell
- Linear carriage with load cell, stepper motor driven with accurate load application up to 30 mm/s and with position reading
- Anodized aluminum frame and fully dust proof stainless steel electronic cabinet
- Compact table model – small footprint
- AC mains supply only (no compressed air) – wide range mains 100 to 240 VAC

HITEC Luxembourg S.A.

49, rue du Baerendall L-8212 Mamer
T +352 49 84 78 - 1 | F +352 40 13 03
info@hitec.lu | www.hitec.lu

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PMST CHARACTERISTICS

Force measuring specifics

Force reading range	500 N
Force reading resolution	0.1 N
Force reading accuracy absolute	0.2% of actual value + 1 N

Travel drive & measuring specifics

Position relative to slide door (position 0 mm)	
Position reading resolution	0.1 mm
Position reading accuracy	± 0.8 mm
Travel range	255 mm

Sample cylinder / piston assembly

ASTM D 1937 compliant compression chamber	
Material	Stainless steel
Cylinder diameter	52.39 mm
Cylinder height	95.25 mm (3 ¾")
Plunge diameter	50.8 mm (2")




Calibration

Software supported load cell calibration by means of certified masses (optional)

Automatic zeroing of force reading before each test

Automatic zero thickness position at power up of tester

Dimensions & supply

 Power supply	100-240 VAC (+-10%), 50/60 Hz
 Table model	61 x 44 x 90 cm (W x D x H)
 Weight	67 kg

Software

Standalone measuring application

Menu guided on built-in display

Software assisted measurement sequence according to ASTM D1937

- Display of list of the different load steps with result OK respectively NOK
- Memorizes history of up to 50 tests with date & time and list of load steps

Software assisted load cell calibration by means of standard weights:

- Gain calculation and linearity verification
- Memorizes history of up to 50 calibrations

Settings menu for various parameters

Safety

- CE marking
- SGS-USTC certified

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

PMST by HITEC Luxembourg

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Actual: Position 255.0 mm Load 0.5 N

Load step size:	2 N
Hold time:	10 s
Load speed:	5.0 mm/s
High positioning speed:	30 mm/s
Slow positioning speed:	1.00 mm/s
Number of calibration masses:	3
Init position:	255.0 mm
Date and time:	2021 / 06 / 09 12 : 17

↑ ↓ (to navigate)

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