



HT-2PC Automatic Hot Tack Tester

With automatic film feeding and industrial pc for fast, easy and repeatable measurement of hot tack seal strength of packaging films, to ASTM F1921.

Features

Automatic film feeding for fast, error free results. Manual feeding when needed.

Flexibility and data integrity for 200 tests across 20 sealing settings, per study.

Heat seal/peel graphs & trend graph for peak load & selected variable parameter: Jaw Temperature, Pressure, Dwell, or Cooling Time.

Easy operation via pre-set 'Parameter Templates' for Single, Replicate and sequential Tests; simple to set-up, fully automatic and fast results.

'Playlist' controls (like a music playlist) automatically advances sealing conditions.

PLC control of sealing & peeling parameters. Accurate PID temperature, precision load cells for pressure and high speed peel measurement.

Industrial PC, Windows 10 IoT, USB and ethernet connectivity. Export, print and create pdf and csv files.



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HT-2PC Software Features

User Interface

Graphical user interface operated from one main 'Dashboard' screen.

Touchscreen with optional use of keyboard and mouse.

15" tilting panel PC with Intel Atom CPU.

Comprehensive user access control for Engineer, Supervisor and Operator users.

Set Up

Parameter templates for Single, Replicate, and Sequential tests.

Save user defined parameter templates for later recall & re-use.

Define a variable parameter within a test series.

Add custom fields for traceability, e.g. batch number.

Choose results to be viewed in results table.

Measuring

Each series of tests saves to a single file, for a series of measurements.

Variable parameter (temperature, pressure, time) per file.

Exclusion of invalid measurements, Supervisor limited deletion

Playlist of tests runs automatically.

Rearrange, add or delete tests from playlist during measuring.

Analysis

Tabular view of measurement results.

View included and/or excluded results

User definable columns in tabular view

Import/Export/Reports

Export to Microsoft Excel® as .csv

Export reports to pdf

Print selected items as individual or batch reports and/or create pdf

Print preview, with graph zoom and pan.



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Specification

Sealing specification

Sealing Jaws: 2 x brass sealing jaws mounted within heater blocks with sensors and heaters

Sealing Jaws: 10 x 40mm standard (5mm and 15mm optional)

Sample width: max 30mm allowing 5mm each side

Sample thickness max 1mm (material must be flexible to fold)

Sealing dwell time: 0.01 to 99.99s

Sealing temperature: ambient to 350°C depending on sealing jaws

Sealing pressure: 0.1 to 3.0 N/mm²

Sealing pressure sensor: Strain gauge

Sealing temperature control: electronic PID

Peeling specification

Cooling time: 0.01 to 99.9sec

Peeling speed: 21 to 750mm/s

Peeling by vertically moving lower sample clamp

Peel control: electric servo motor

Sample length: min 300mm

Hot tack force measurement

Measurement range: 0 to 100N

Sampling speed: max 500Hz depending on peel speed

Number of readings: 2000 per measurement

Sensor: strain gauge force transducer

Testing Mechanics

Sample clamps: 2 auto air activated

Sample folding blade: auto motor controlled

Software

Microsoft Windows® 10 IoT preloaded on touchscreen pc

Setting, storing and recalling of test parameters

Storing, recalling and reporting of measured results

Reporting

Measurement trend graphs: hot tack force vs temperature, pressure, dwell time, and cooling time. Peak Load vs time.

Data Table: measured results, traceability data, date & time, variable parameter

Outputs

USB and Ethernet connections

Connections

Power: 85 to 250VAC, 50/60Hz 180VA

Air supply: 6 to 8 bar clean dry compressed air

Physical

Weight: 60kg

Size: 430W x 430D x 700H mm

Design

Meets international standards including; ASTM F1921, DIN 55571



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