

## HIGHLIGHTS OF DTC HOT TACK TESTER

DTC **More than 30 years** (33 years to be precise) of experience of producing HOT TACK.

More than 100 systems sold worldwide. ( Partial Reference list attached)

Suitable for performing **Hot tack test as per Method A & B.**

The Standard ASTM F 1921 also mentions the DTC instrument as a suitable instrument for performing the tests as required by the Standard.

DTC Hot tack instrument can easily perform the test procedures according to the Standard, Moreover, also provides test possibilities far beyond the standard tests described in the standard like,

- Impulse sealing tools,
  - Trim Sealing tools,
  - Sealing processes with Air Pre-heating of the seal interface, etc.
- These devices are available as options. This makes it **future ready and offers security on investment** for future need comes up for above.

As per standard procedure where samples are sealed together on the same side, ofcourse DTC has the facility. However, it also offers possibility to seal

- Side “A” to side “B”,
- Two different materials. Like,
  - Paper to film,
  - film to stiff paper board,
  - two stiff boards.

All of above cases can be handled by DTC Hot tack testers.

**Calibration and compensation for SURFACE TEMPERATURE of Die.** Very important to actually control Interface Temperature as close as possible.

**Digital Pressure Regulation for Sealing Pressure – Simple Digital Entry and no valve or knobs !!!** Easy, simple & Accurate. No possibility of manual errors.

The mechanical design is characterized by a rugged yet elegant framework. Housing the sealing and peeling mechanisms & Specimen insertion system, all assisted by either **servo controls or pneumatic actuators.**

DTC instrument is a transparent system with access to hard- and software, diagnostics, data handling etc. The test procedure is more intuitive as the operator can see at a glance the whole test procedure and decide whether the test did run correctly and how the specimen behaved.

The whole test sequence comprising sealing and peeling are shown graphically for each individual test. This provides an intuitive presentation to the operator allowing immediate judgement of whether the test is correct or not.

Possible to save the Graph of Sequence of the test for each test for studying later on.

Record of Set and Measured (Actual) Parameter side by side for ease of viewing and checking.

Operator can take Judgement about worthiness of the test and on his confirmation, it is transferred to Result Table.

**Standard Hot Tack Test as Batch possible to perform with following possibilities :**

- **Variable Temperature**  
Allows to study the optimum sealing temperature for given Pressure, Dwell Time & delay time.
- **Variable Seal Pressure**
- **Variable Dwell Time**
- **Variable Delay Time**

Facility to calculate **Peeling Energy** is very unique and is **instrumental for evaluating the materials capability to take the forces encountered in the packaging process.** Thus the data for setting machine speed in a form-filling process can be established.

**Excel routines for Graph including Result table with statistics for,**

- **Batch Results**
- **Comparison of Batches (same material or different material) – up to 5 batches on one.**

Test setup can be stored and recalled for future use.