Heat Sealing of Medical Packaging

Precision Heat Sealing Machines for Pouches, Reels & Trays
SealAssure® Constant Heat Technology for Guaranteed Process Control
Gas Flush/Vacuum Heat Sealer to Protect Oxygen Sensitive Products
Medical Heat Sealer with Flexible Pouch Guillotine Cutter
Seal Strength & Seal Integrity Testing Solutions
Validation Documentation & Service Provider
Complete Solutions for Sealing, Testing & Validation

ASSURED QUALITY
TESTING SOLUTIONS
The HSX-Series Medical Heat Sealer with SealAssure® guarantees process control for production of medical pouch sealing.

SealAssure® is a technique for the use of constant heat-sealing jaws in combination with precision PLC controlled sealing parameters and process tolerance alarms, to guarantee production sealing within the process parameters you define.

The HSX-Series Medical Heat Sealers provide a sealing solution for a wide range of 2D and 3D pouch sealing applications. A standard range of three sealing jaw widths from 400mm to 800mm produce a precision seal in a wide range of packaging materials including Tyvek®, PE, PP, PET, and non-wovens. Options are available for gas flushing/vacuum inside the pack to protect Oxygen sensitive products and for a guillotine cutter to trim off any waste.
Validation to ISO11607-2 or other requirements is simplified by the logical HMI touchscreen system that provides definitive process control settings and process tolerance alarms that automatically inhibit the sealing cycle to prevent any possibility of process drift / out of tolerance.

HSX-Series machines use dual zone control and thermocouple temperature monitoring, precision regulated sealing pressure and highly accurate dwell time. A range of intelligent features further enhance the process control and operator experience, making the HSX-Series the leading solution for medical packaging sealing applications.

All systems are supplied with a comprehensive User Manual. Optional installation, commissioning and user training, Factory Acceptance Testing and IQ/OQ documentation and execution can be provided anywhere in the world.
Tray sealing requires a precision die/sealing bed to ensure correct location and thickness of the heat seal between a flexible film and a rigid/semi-rigid container. The HSP-Series provides flexibility for a wide range of tray and pot sizes, with machines either dedicated to one size or with the ability to change tooling for a variety of sizes.

Temperature, Pressure and Dwell Time controls come in a choice of ‘open’ controls (as shown below), or with an HSX-Series HMI/PLC controller for password protected recipes and process alarms with the benefits of SealAssure®.
Medical packs may be checked by a variety of techniques to ensure both adequate seal strength to withstand the physical demands of the supply chain, and seal integrity to maintain sterility until opened.

The SST-3XS Seal Strength Tester performs **tensile peel testing**, measuring the strength of heat seals. A range of accessories can be provided to adapt the instrument to test cut strip samples, or various whole pack sizes. Results are automatically recorded via a PC interface, and reports may be printed or exported. Tests to ASTM, ISO and TAPPI standards can be performed.

The Lippke 4000/4500 Package Tester is designed for **seal integrity testing** (leak) using the pressure decay method and **burst testing** to measure whole pack seal strength. These methods are defined in various ISO and ASTM standards.

The VC1380 Vacuum Leak System detects the smallest leaks and holes in pharmaceutical blister packs and other flexible, semi-rigid, and rigid packages such as glass vials. It automates the classic methylene blue dye test, making it reproducible.
Terminally Sterilized Barrier Packaging systems for many medical devices are designed to be manufactured and packed to ensure they remain sterile throughout the supply chain until opened. ISO11607 Part 2 details the documented process validation program to demonstrate efficacy and reproducibility of the packaging process.

RDM Test Equipment machines are designed to control process parameters and alert operators to any out-of-tolerance states. To demonstrate this, machines can be supplied with IQ/OQ documentation and our experienced engineers can provide on-site services to help smooth the process of achieving validation for your process.

RDM Test Equipment provide the following services:

- Installation & commissioning on-site
- Operator training
- Full machine calibration with calibration certificate traceable to national standards
- Factory acceptance testing
- IQ/OQ execution on-site
- Ongoing annual service and maintenance
The company was formed in 1985 by brother in-laws David Murrell and Mike James, both graduate Mechanical & Electrical Engineers from Middlesex and Essex Universities respectively. Their vision to help material and packaging technologists develop and control materials is as relevant today as it was then.

Initially focusing on measuring heat seal characteristics, the company now provide a range of over 100 testing instruments for packaging, polymers, pulp, paper, board, textiles, rubber, and foam; used in many industries including food & beverage, medical devices & pharmaceuticals, inks, printing & coating, electronic, industrial and educational establishments.

The RDM brand of Test Equipment is manufactured in the UK, backed by customer service, technical support and on-site maintenance & calibration services all based from the Hertfordshire head office, operating under ISO9001 accreditation.

RDM products are available globally, either directly from our UK and USA offices or from our worldwide partners.

About us

RDM Test Equipment is a British manufacturer and distributor of quality testing solutions that have become ‘industry standard’ in Packaging & Materials Testing. With over 30 years experience, our passion is to help solve your material or package challenges. We don’t just manufacture and sell testing products, from our in-house laboratory, we also provide testing consultancy and contract testing services.

Our Partners & Brands

RDM Test Equipment manufacture flexible packaging test equipment focused on heat sealing, hot tack, seal strength.

Mocon is the world leader in permeation measurement instruments for testing the barrier properties of flexible packaging materials.

TMI manufactures physical property testing instruments for the packaging, paper, pulp, plastic film, foil, ink, coatings, non-woven, textile, adhesive and corrugated industries.

Messmer Büchel is a specialist manufacturer and supplier of quality control equipment designed to meet the needs of the pulp, paper and corrugated industries.

Cerulean manufacture the Laboratory Carton Tester, based on the original Newton Carton Tester, the only instrument to test a complete carton.

Tobias Associates Inc is a manufacturer of innovative graphic arts equipment. In addition to the printing industry, Tobias also serves the photographic, micrographic, radiograph, pulp and paper and electronic publishing industries.

Adam Equipment is an ISO 9001:2000 certified global organisation with more than 30 years experience in the production and sale of electronic balances & scales.

Korutest manufactures the Chalmers DST, which is considered to be the most superior corrugated board testing instrument.
International

RDM products are available globally, either directly from our offices in UK and USA, or from our international partners.

Refer to www.rdmtest.com for your nearest distributor.

UK & International:
RDM Test Equipment Ltd
Unit 39 Golds Nurseries Business Park
Jenkins Drive, ELSENHAM
Hertfordshire, CM22 6JX
United Kingdom

T: +44 1279 817171
E: sales@rdmtest.com

Americas:
RDM Test Equipment LLC
441 Old Hwy 8 NW
Suite 200/201, New Brighton
Minneapolis, MN 55112, USA

T: +1 651 766 2565
M: +1 651 485 2372
E: sales@rdmtest.com