



HSG-3 & HSG-5 Gradient Heat Sealer

Precision laboratory heat sealer for accurate and repeatable determination of heat seal threshold, with 3 or 5 sets of sealing jaws. Produces seals 15mm wide and 30mm long.

The satisfactory development, manufacture, conversion and application of flexible packaging films necessitates the implementation of precise methods of quality control systems. Efficient determination of heat seal thresholds is achieved with this multi-jaw heat sealer. Up to 5 pairs of jaws can be fitted with independent temperature control providing a temperature gradient on the film. Especially suited for flexible packaging materials, laminates, foils and paper, the HSG-3/5 multi-jaw features accurate

control of temperature, pressure and dwell time of a standard surface area sealing jaw.

With the introduction of a standard test method ASTM F2029-00 and our heat sealer HSG-3/5, you can be confident that your heat seal threshold measurement is common to all producers, converters and end users of flexible packaging materials and their eventual applications.

Meets ASTM F-2029-00 (only when top/lower jaw heated)

Specification

Temperature Control

0 - 300°C (0 - 572°F) 0.1°C resolution
+/- 0.5% +/- 1 digit accuracy.
Operating temperature accuracy +/-
2°C. Resistance Type 'J'
thermo-couple sensing. Single
independent or dual independent
control.

Pressure

0 – 100psi (0 – 6.8 bar, 0 – 689 Kpa)
via digital display and transducer.
Pressure control through precision
regulator. Repeatability +/-0.02 PSI
operation accuracy +/- 5% Supply via
factory compressed air line or
nitrogen or compressed air bottles
min 6 bar (90 psi) max. 7 bar(100 psi).
Pressure medium must be clean and
dry.

Dwell Time

0.01 – 99.9 sec. 0.01 sec resolution
real time base via quartz crystal +/-
0.01% of range. Operating accuracy
+/- 5% (taking into account friction in
piston movement).

Footswitch

Connection port for footswitch
operation. Optional footswitch.

Sealing Jaws

Single jaw option: Top heated with
silicone rubber (60 shore hardness)
15mm wide x 30mm long. Jaws made
from aluminium with machine
ground flat face.

Dual jaw option: Top and Lower
heated 15mm wide x 30mm long.
Jaws made from aluminium with
machine ground flat face.

Environment

5-50°C ambient operating
temperature, RH 75% max
non-condensing) Power: 240V AC
50/60 Hz (110V AC voltage available
on request),

Options

Single (Upper) sealing jaw
temperature control or Dual (Upper
& Lower) sealing jaw temperature
control.

Sealing jaw dimension/profile as
required (inc. Matched crimp 120° x
1.8mm pitch).

Teflon Coated Tape or Teflon Coated
Jaws.

Footswitch,

PVC Dust Cover,

Cold seal system (temperature
circuit removed),

Digital thermometer with s/s band
probe to check jaw temperature.

Auto cycle & delay timer.



UK & INTERNATIONAL

RDM Test Equipment Ltd.
39 Gold Nurseries Business Park
Jenkins Drive
Elsenham
Hertfordshire
CM22 6JX

Tel: +44 (0)1279 817171

Email: sales@rdmtest.com

Website: rdmtest.com

AMERICAS

RDM Test Equipment LLC.
441 Old Hwy 8 NW
Suite 203
New Brighton
Minneapolis
MN55112
USA

Tel: +1 651 766 2565

Mobile: +1 651 485 2372

Email: sales@rdmtest.com

Website: rdmtest.com