



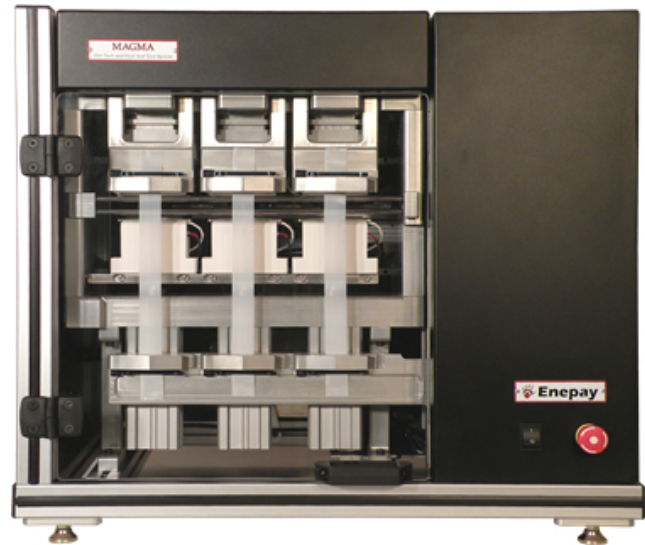
# MAGMA

## Packaging Film Hot Tack and Heat Seal Test System

### Key Productivity Features

- Test three samples at one time
- Load samples quickly
- Run sample sets unattended
- Analyze and export data easily
- Configure and calibrate with no tools

The patented MAGMA measures the hot tack and the heat seal properties of film used in flexible packaging. Completely automated with its companion Pilot software, MAGMA forms and tests heat seals under a wide range of pressures, temperatures and dwell times, and then immediately displays test data and statistics. The system produces curves and statistics such as heat seal strength versus temperature, hot tack strength versus temperature, and averages and standard deviations of force data.



### Test three samples at one time

MAGMA Hot Tack and Heat Seal Test System simultaneously tests three samples at each condition of pressure, temperature, dwell time, cooling time, and peel rate. During the peel operation load cells measure the individual load response of each specimen. Result: your test throughput is triple that of other testers.

### Load samples quickly

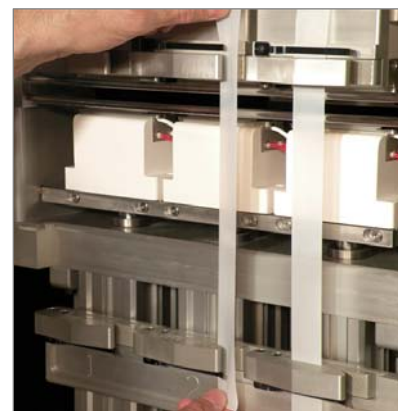
Inserting a specimen into each test station is a fast, single-motion action:

- Simply grasp the top and bottom of the test specimen.
- Slide it into the upper and lower side-entry grips.
- Release.

### Run sample sets unattended

Once a sample set is loaded you simply hit "Start" in the Pilot software and let the system do everything for you from start to finish. Under control of the Pilot software, MAGMA automatically:

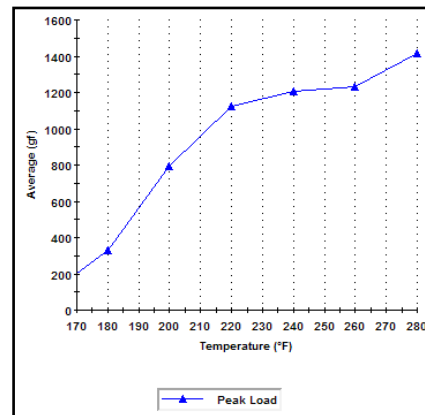
- heats the seal jaws to the required temperature,
- seals the three specimens at the specified pressure and dwell time,
- cools (if required) the newly sealed specimens,



- peels the seals at the predefined peel rate while collecting force data on each specimen,
- displays the data for your review, and
- prompts you to load your next specimen set when performing temperature sweeps.

## Analyze and export data easily

Pilot software gives you powerful data analysis tools. Plot heat seal strength or hot tack strength versus temperature, view average force and standard deviation at each temperature, and analyze other test results. Test data can be easily exported in various formats for viewing and analysis by others.



## Configure and calibrate with no tools

- Configuring the seal jaws for different seal geometries is easy. Replace each of the six jaws in just seconds using absolutely no tools.
- Calibrating each peel force transducer takes minimum effort:
  - Position an included calibration platform onto the transducer fixture.
  - Place each calibration weight on the platform and record its value in the Pilot software.
  - You do not use any tools during the entire process.

## Take advantage of MAGMA's unequalled testing productivity

Measuring the hot tack and heat seal properties of packaging film has never been easier and faster. Contact Enepay Corporation and learn more about how MAGMA can help you produce more data in less time.

## Specifications

Number of specimens	3 simultaneous	Peel force per specimen, maximum	100 N / 22.5 lb
Specimen width range	10 - 40 mm / 0.4 - 1.6 in	Seal force per specimen, maximum	1,460 N / 330 lb
Specimen length, minimum	280 mm / 11 in	Max seal pressure = max seal force divided by seal area	
Specimen thickness, maximum	0.25 mm / 0.010 in	Test speed, maximum	200 mm/sec / 8 in/sec
Seal jaw depth (standard)	12.7 mm / 0.5 in	Input voltage	120 or 240 VAC, single phase
Seal jaw depth (optional)	6.4 - 25.4 mm / 0.25 - 1.00 in	Air supply pressure, minimum	0.55 MPa / 80 psi
Seal temp, max (standard)	230 deg C / 450 deg F	Weight, not including PC	82 kg / 180 lb
Seal temp, max (optional higher)	contact Enepay	Dimensions, not inc PC (mm)	640 h x 710 w x 530 d
Dwell time range	0.05 - 100 sec	Dimensions, not inc PC (in)	25 h x 28 w x 21 d

The MAGMA Test System may be covered by one or more pending or issued patents, including U.S. Patent No. 7,607,357.



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