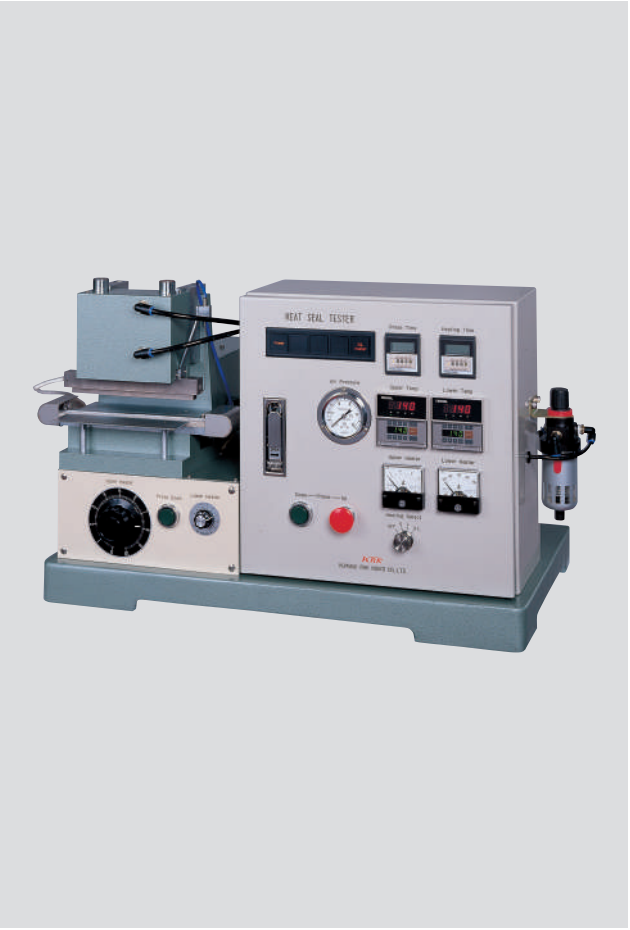
No.2348
Heat seal tester

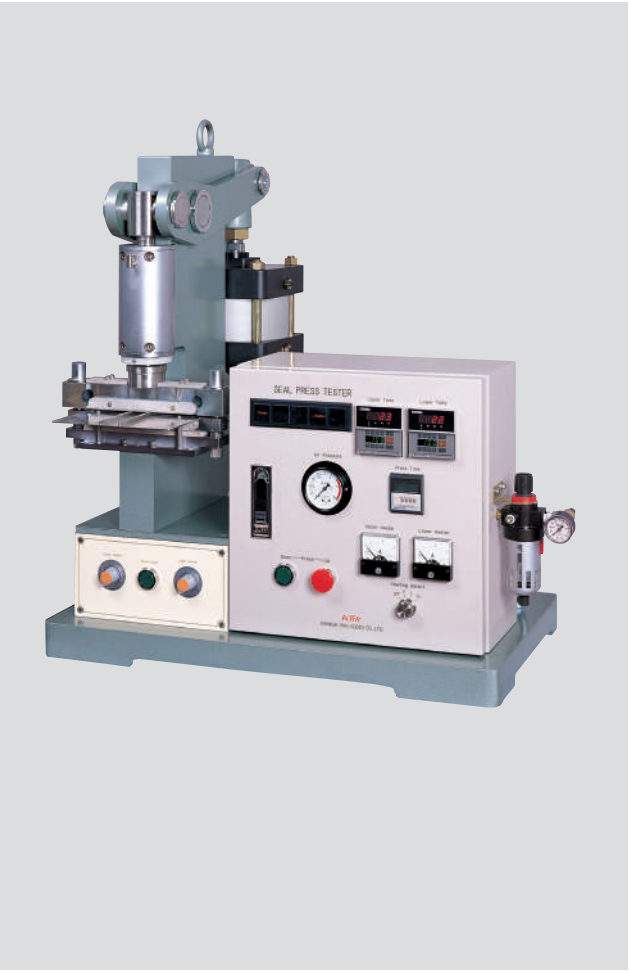
Heat seal tests on plastic films and laminated materials determine the strength and other characteristics of a specimen's heat-sealed section. For that purpose, heat-sealed specimens must be fabricated first. This tester provides flexible setting of the heat seal conditions, including the heating bar temperature, pressure and pressurizing time, helping fabricate specimens easily in a laboratory.



Heat plate size: 15mm wide, 200mm long
Temperature: max. 200° C
Compression pressure: 0.5MPa
Compression: pneumatic
Compression time: 0.2sec. to 10min.
Upper heating bar: heater 300W, temperature sensor inserted
Lower heating bar: with built-in impulse heater
Power source: 100/110VAC 50/60Hz 7A
Air source: 0.5MPa
Outer dimensions: 850 x 500 x 500mm
Instrument weight: 90kg

No.2375
Seal press tester

When evaluating workability, including embossing fitness, of paper for crepe paper, towel paper, etc., conventional press-based equipment has drawbacks in that pressure or temperature cannot be set meticulously. With this tester, embossing fitness of specimens can be evaluated against the seal strength needed for paper towel's wrap-around seal section, for example, or for coffee filter's sealed section on the edges. Also, this tester enables to identify the required strength by applying different pressure, temperature and humidity settings and checking the behavior of the sealed sections. To serve the above purpose, the tester incorporates a pressurizing bar with a set of concave and convex-shaped teeth members and a large-sized air cylinder to press the bar down on the specimen. It can operate with a pressure up to 6300 kg and a heating temperature up to 150 ° C. In addition, a safety mechanism is employed to allow pressurizing operation to take place only when the operator uses both hands to press the start switch.



Specimen: standard crepe paper 55 to 65g/m^2
Clamping area: 5mm wide, 25mm long
Total clamping pressure: 6300kgf, pneumatic, steplessly variable
Service air pressure: 0.8 to 0.9MPa in maximum pressurization
Tooth geometry: pitch 1.85mm, inclination 10 °, tooth geometry for non-standard specimens will be determined on the basis of experiments
Interval between upper and lower teeth: max. 5mm
Clamping time: set by timer 0.5 to 100min.
Heating: cartridge heater with tooth plate inserted, upper and lower heater 250W each
Temperature: max. 150° C
Temperature control: PID and manual regulator
Power source: 100/110VAC 50/60Hz 7A
Air source: 0.7MPa
Outer dimensions: 810 x 565 x 840mm
Instrument weight: 205kg