

# PPA 2000™

The world standard for measuring complex rubber properties in a production environment

## Features

- n Measures dynamic properties of raw elastomers or mixed rubber.
- n Cure tests, sweep tests, stress relaxation tests.
- n Meets ASTM D5289, D6048, D6204, D6601, D7050, and D7605.
- n Reduces cost of the instrument by selecting only those test templates required for your process.
- n Sealed biconical dies.
- n Low friction reaction torque measurement.
- n Superb temperature stability and control with cooling.
- n Repeatable and reproducible data.
- n Enterprise Pathfinder software simplifies test set up and SPC of processes.
- n Standard five-sample queuing improves productivity.

## Specifications

|                           |  |
|---------------------------|--|
| FREQUENCY:                | 0.1 to 3000 cpm (0.0016 to 50 Hz)  |
| TEMPERATURE RANGE:        | RT to 230°C  |
| MAX RAMP RATE:            | 1 C/s  |
| MAX COOL RATE:            | 0.5 C/s  |
| STRAIN:                   | ±0.3% to ±1250% (±0.02 to ±90 degrees)   |
| MEASURED DATA:            | Torque, temperature, frequency, strain   |
| CALCULATED DATA:          | G', G'', G*, S', S'', S*, tanδ, η', η'', and η*  |
| DATA STORAGE:             | SQL database   |
| REPORTS AND EXPORT FILES: | Numerous formats   |
| INSTRUMENT LANGUAGES:     | English, French, Chinese, German, Italian, Japanese, Portuguese, Russian, Spanish, Slovak, Turkish   |
| ELECTRICAL:               | <ul style="list-style-type: none"><li>• 100/110/120/130 VAC ±10%, 60 ±3 Hz, 10-amp single phase</li><li>• 200/220/240/260 VAC ±10%, 50 ±3 Hz, 5-amp single phase</li></ul> |
| AIR PRESSURE:             | 80 psi (5.6 kg/cm <sup>2</sup> , 551 kPa) minimum  |
| DIMENSIONS:               | Width 68 cm (27 in), height 132 cm (52 in), depth 76 cm (30 in)  |
| WEIGHT:                   | Net 177 kg (389 lb), gross 280 kg (616 lb)   |



PPA 2000



Close-up of lower die

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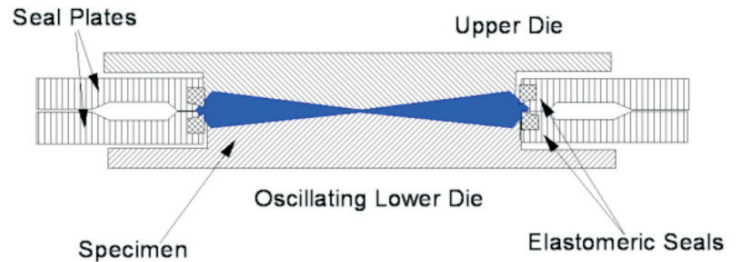
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## Performance

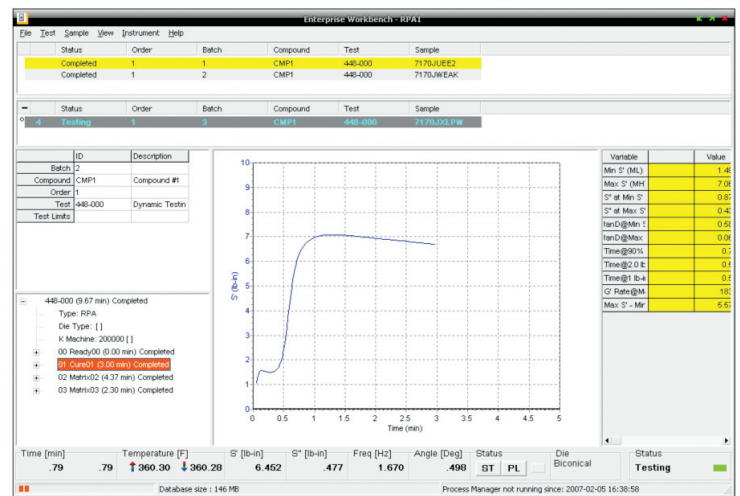
- n Measure dynamic properties of rubber before cure, during cure or post-cure.
- n Characterize raw polymers.
- n Excellent test sensitivity to mixing errors or compound changes.
- n Limited operator influence.
- n Excellent repeatability.
- n Suitable for quality control.
- n Can eliminate or reduce physical property testing.

## Options

- n Purchase only those test templates required for your production needs.
- n Pressure measurement.
- n Sample cutter Model 2000R for rubber.
- n Film combinations to handle various sample types.



Die configuration of PPA 2000



PPA test displayed by the Enterprise software system