

## **ZGT RPA 8000**

### **RUBBER PROCESS ANALYZER**



IT CAN BE USED FOR TESTING UNVULCANIZED  
RUBBER COMPOUNDS AND VULCANIZABLE RUBBER  
COMPOUNDS.

## ZGT RPA 8000

### TECHNICAL SPECIFICATIONS

It can be used for testing unvulcanized rubber compounds and vulcanizable rubber compounds.

#### RELEVANT STANDARDS

- GB/T 16584
- ISO 6502
- ASTM D6204
- ASTM D6601

|                       |                                                                                                                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temp.                 | Ambient temp. ~ 230°C                                                                                                                                                                                                                           |
| Temp. control         | Specialized micro processor, fast heating and cooling                                                                                                                                                                                           |
| Temp. accuracy        | ±0.3°C                                                                                                                                                                                                                                          |
| Min. temp. reading    | 0.1°C                                                                                                                                                                                                                                           |
| Heating rate          | 30°C~190°C < 6`                                                                                                                                                                                                                                 |
| Temp. returning index | Less than 50 sec to reach ±0.3°C of the set temperature (177°C) after cavity is closed                                                                                                                                                          |
| Oscillation strain    | ±0.005° to ±90° (±0.07% to ±1256%)                                                                                                                                                                                                              |
| Oscillation frequency | 0.1 to 3000cpm (0.0016 to 50Hz)                                                                                                                                                                                                                 |
| Torque range          | 0.001 ~ 225 dN-m (0~200 lb-in)                                                                                                                                                                                                                  |
| Units of measure      | Torque: S*, S', S'' (N-m, dN-m, lb-in, kg-cm)<br>Shear modulus: G*, G', G'' (Pa, Mpa, psi)<br>Temp: °C, °F<br>Frequency: cpm, Hz, rad/s<br>Strain: arc, %<br>Optional calculated results: η', η'', η*, j', j'', j*, tanδ                        |
| Subtest types         | Vulcanization test (fixed temp vulcanization, variable temp. vulcanization, static vulcanization, fixed torque vulcanization etc.)<br>Sweep (including strain sweep, temp. sweep, frequency sweep, matrix timed test etc.)<br>Stress relaxation |
| Power                 | 1φ AC220V±10% 50/60 Hz., 7.5A. Deviations from these ranges may affect performance.                                                                                                                                                             |
| Pressure              | 3.6 kg/cm <sup>2</sup> (0.36 MPa) provided by user                                                                                                                                                                                              |
| Dimension (WxDxH)     | Main unit: 70x85x130 cm                                                                                                                                                                                                                         |
| Weight (approx.)      | Main unit: 210 kg                                                                                                                                                                                                                               |

**Note:** DVT DEVOTRANS reserves the right to modify the equipment described in the brochure. The model in the picture may not be the latest one.