

## Thermogravimetric analyzer TGA-1000

Thermogravimetric analysis (TG, TGA) is to observe the change of sample quality with temperature or time in the process of heating, constant temperature or cooling, with the purpose of studying the thermal stability and composition of materials. It is widely used in research and development, process optimization and quality control of plastics, rubber, coatings, pharmaceuticals, catalysts, inorganic materials, metal materials and composite materials.



### Main feature

- Built-in one millionth high-precision balance, good stability and repeatability.
- The dish-type balance is used to ensure complete sealing and 100% gas collection.
- Curie point temperature calibration is adopted, which is more accurate.
- Built-in digital mass flowmeter, automatic and fast gas switching, fast and stable.
- After the experiment, the buzzer will remind you and the data will be saved automatically.
- Seven-inch LCD display, the map and curve are clear at a glance.
- The software is suitable for computers with different resolutions and can be upgraded online for free.
- Support the user's self-programming program and realize the full automation of measurement steps.
- Temperature compensation is adopted to reduce baseline drift.

### Technical parameter



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|                                     |   |   |                           |
|-------------------------------------|---|---|---------------------------|
| TG range                            | 0~1000mg  | TG resolution   | 0.1ug                     |
| TG accuracy                         | ±2ug  | temperature range   | Room temperature - 1000°C |
| heating rate                        | 0.1-50°C/min  | temperature resolution  | 0.01°C                    |
| Temperature accuracy                | ±0.1°C  | Temperature repeatability   | ±0.1°C                    |
| Curve scanning                      | Heating scanning  | Temperature control mode  | Full automatic control    |
| trade sample                        | Ni/Fe   | Atmosphere control  | Gas mass flowmeter        |
| display mode                        | 24bit color, 7-inch touch screen  | working power supply  | AC220V 50Hz/60Hz          |
| Overall dimension (w*d*h)           | 30*38*70cm  | Net weight  | 40KG                      |
| Packing size (w*d*h)                | 48*40*80  | Gross weight  | 60KG                      |
| Computer configuration requirements | <b>Minimum hardware configuration</b> <ul style="list-style-type: none"> <li>● Celeron dual core</li> <li>● 2GB system memory</li> <li>● Resolution 1366*768 pixels or higher.</li> <li>● Hard disk 500G</li> </ul> | <b>Minimum software configuration</b> <ul style="list-style-type: none"> <li>● Win10/Win11</li> <li>● Adobe PDF reader</li> </ul> |                           |

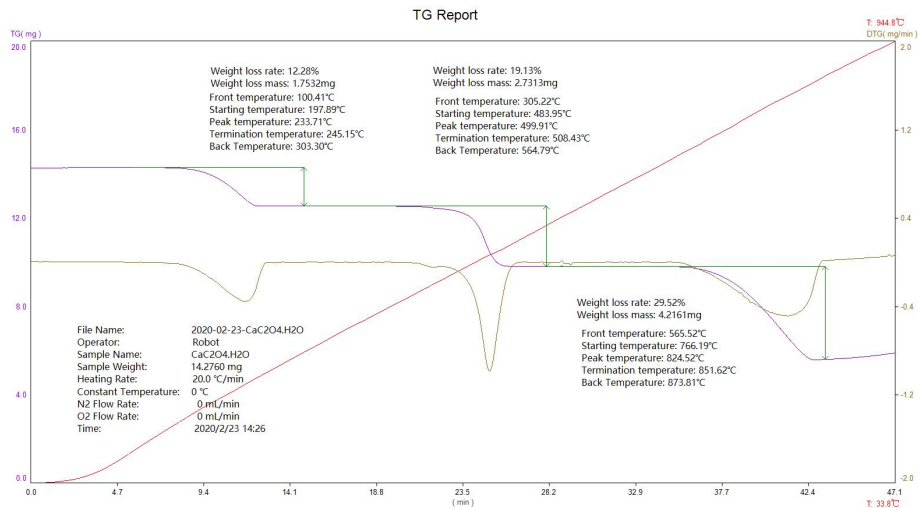
### Parts list

| serial number | name                            | quantity |
|---------------|---------------------------------|----------|
| 1             | Balance main engine             | 1 set    |
| 2             | Balance controller              | 1 set    |
| 3             | Working program CD              | 1 piece  |
| 4             | Software encryption dog         | 1        |
| 5             | Cooling fan (with power supply) | 1        |
| 6             | Power cable                     | 3 pieces |



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|    |  |             |
|----|--|-------------|
| 7  | USB cable                                | 1 root      |
| 8  | Glass tube fuse (5A)                     | 4.          |
| 9  | tweezers                                 | 1<br>branch |
| 10 | Sample spoon                             | 1<br>branch |
| 11 | certificate                              | 1 copy      |
| 12 | Ventilation joint                        | 4.          |
| 13 | Alumina crucible ( $\phi$ $\Phi$ 5×4 mm) | 400         |
| 14 | Left hanging basket                      | 2           |
| 15 | Right hanging basket                     | 1           |
| 16 | hang spring                              | 4<br>pieces |
| 17 | boom                                     | 3<br>pieces |
| 18 | Standard samples (Ni, Fe)                | Each 1      |
| 19 | calcium oxalate                          | 1g          |
| 20 | 100mg lap code                           | 1           |
| 21 | Calibrator                               | 1 set       |
| 22 | Instructions                             | 1 copy      |
| 23 | Ventilation plastic pipe (blue)          | 3<br>meters |
| 24 | Ventilation plastic pipe (orange)        | 3<br>meters |
| 25 | Phillips screwdriver                     | 1           |
| 26 | A screwdriver                            | 1           |
| 27 | handkerchief                             | 1           |
| 28 | banister brush                           | 1<br>branch |
| 29 | Pressure reducing valve connector        | two         |





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