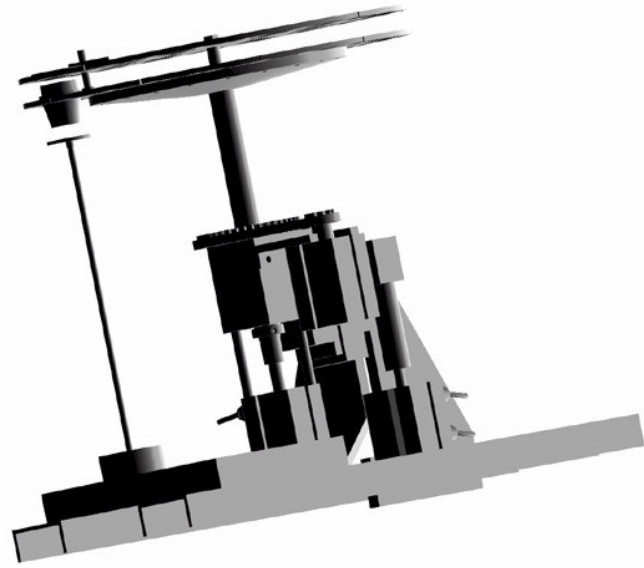
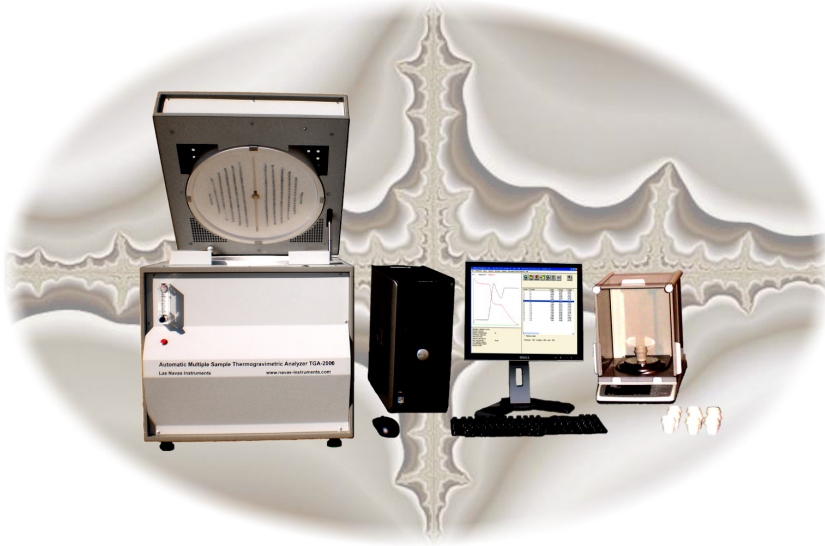




Navas Instruments TGA-3000 Series

Thermogravimetric Analyzers (19 Samples) for:
Coal, coke, graphite, cement, bauxite, iron ore, food, feed,
flour, rubbers, fertilizers, plastics etc ...

Determination of: Moisture, volatiles, ash, fix carbon, LOI



Dual carousel configuration (for Coal), Fully automatic Placement & Removal of crucible-covers inside furnace

(Patented) with additional external balance for increased throughput

The dual carousel configuration allows automatic placement and removal of crucible-covers inside the furnace.

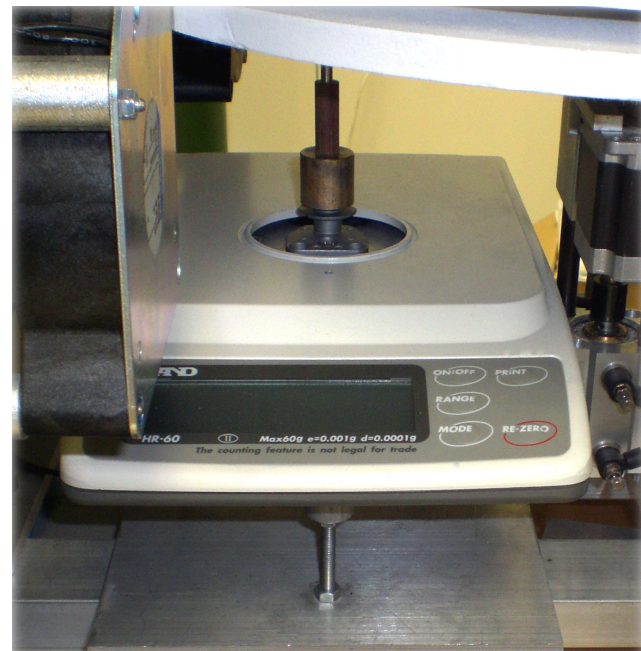
This prevents sample oxidizing and provides better volatile matter accuracy in addition to automation, (It works unattended).

No danger to operator opening furnace at 600 °C.

No danger of falling covers inside furnace.

Auto-recovery from mains power failure.

SINGLE FURNACE OR DUAL FURNACE CONTROLLED BY ONE SINGLE PC



Metal parts instead of ceramics

The carousels are made of a stainless steel alloy for high temperature.

The carousels do not bend nor warp under temperature stress, metal does not break like ceramics.

Ceramics charges with static electricity and may produce unstable balance readings.

No deformation, unbreakable, durable

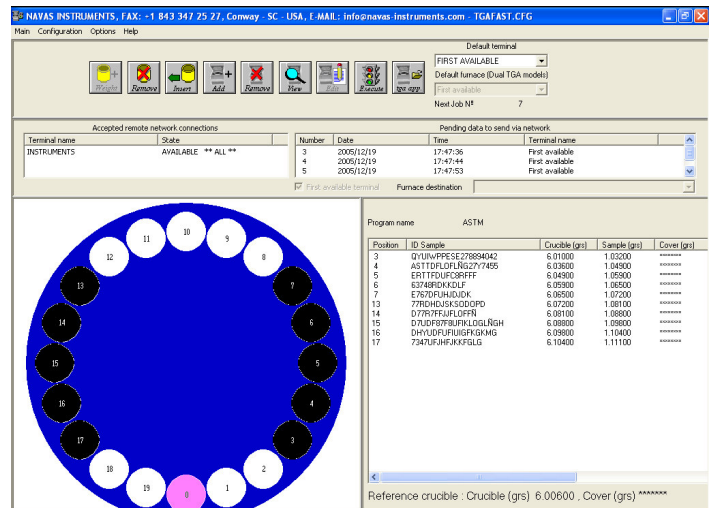
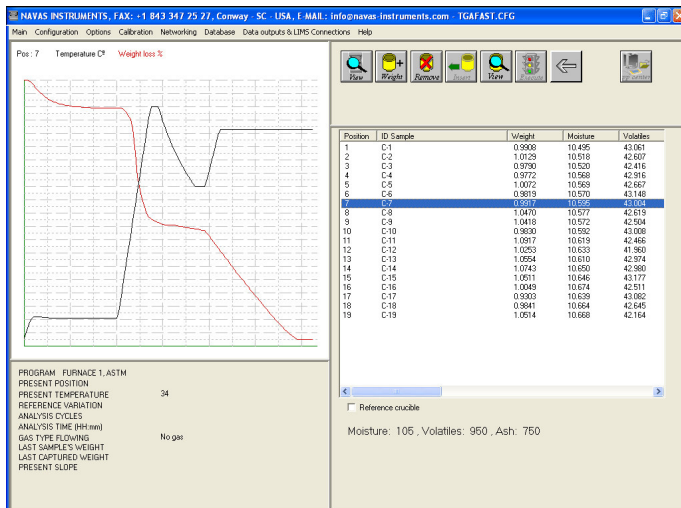
All heated parts metallic: carousels, crucibles, pedestal, covers.

Ceramic crucibles can be used (as an option) for analysis of corrosive materials.

1 Full year warranty on all parts including carousels and crucibles.

Standard components

Navas Instruments buys complete brand name balances and temperature controllers from recognized manufacturers. The balance has display FOR EASY service. The temperature controller has 2 displays: 1 for the set point and other for the present temperature. The balance and the temperature controller are programmable using the buttons in the devices. These devices are manufactured by the experts in the business. All the electric and pneumatic parts in the TGA can be acquired in the market: Magnetic switches, relays, pneumatic valves, pistons, fans etc... With no dependency on Navas Instruments, However for our customers convenience we do maintain a complete parts and service department. Other TGA manufacturers use special electronics and ceramic parts that can only be purchased from the manufacturer at very high prices. All sensors are magnetic not affected by dust. Very few proprietary electronics (Only 2 boards), that are located in 2 PC slots. ACCESS FOR SERVICE from back, sides, front and underneath.



TGA Windows Application & Productivity Center Software

The **Windows software** allows easy instrument operation. Integration with **Microsoft Office**, results are stored in Microsoft Access Data base automatically, data can be exported automatically and manually in TXT, CSV and XLS formats to Microsoft Excel or several Laboratory Information Management Systems (**LIMS**), data can also be printed automatically after analysis and manually with customizable layouts. Configurable parameters for all slopes up to 8 sets of settings: Final temperatures, plateau deviations, Hold times, gases, ramp rates etc... Volatiles calibration with non linear regression software with least squares, quadratic and cubic formulas. **EASY TO USE DIAGNOSTICS SCREEN.**

The **Productivity & Performance Center (Patent Pending)** allows using an external balance to get initial weights of crucibles, samples and/or covers during analysis time, crucibles are placed in plastic trays for loading later into the TGA carousel for next batch after present analysis finishes, This software allows a 20-200% more runs/day, TGA-3000 uses 1 single PC to manage the instrument and the external balance at the same time (**Networking is optional**).

Navas Instruments TGA-3000 Series

Multiple Sample (19) Thermogravimetric Analyzer

Complies with standard methodologies related to this type TGA analysis

Brief technical specifications ...

Temp. range: 50 ~ 1000 ° C ±1 ° C
Sample size: 0.1 ~ 10 grams.
Standard deviation of ± 0.0002 g
Weight Loss/Gain range: 0 ~ 100 %
etc ...



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