

# Robotic Thermal Dilatometer DLY—9000-ROBOT



Reduces quality control work with fully automated operation

The robotic thermal dilatometer is a system that automatically measures the coefficient of thermal expansion of materials in a manufacturing line. It was designed with the goal of standardizing measurements and saving labor costs in performing these quality control checks. It is an ideal system for quality management with its unattended operation and suite of data charting and graphing functions.

A maximum of 48 samples (based on past results) can be set and fully automatic thermal expansion measurements can be performed.

This system is perfect for quality control.

## Applications

- Quality control of carbon materials and raw materials
- Quality control of electronic component materials
- Quality control of honeycomb ceramics
- Quality management of various solid materials
- Automated glass transition of polymer materials (T<sub>g</sub>)

## Features

- Functions to graph and tabulate measurement results
- Capable of fully automatic measurements just by setting samples and configuring PC settings
- Up to a maximum of 48 samples
- You can select from 20, 50, 100 mm long sample length versions according to your purposes
- Error check function for each measuring portion is standard equipment
- Completely unattended, automatic measuring and analysis
- Safety measures for water supply cut-off, electric leakage, power outage, etc. are standard equipment
- Measuring cycle is greatly improved by infrared heating
- Automated measuring accuracy check with reference sample at startup

## Specifications

<b>Robotic Thermal Dilatometer</b>	
<b>Type</b>	<b>DLY-9000-ROBOT</b>
<b>Measurement Properties</b>	<b>Thermal expansion, contraction, glass transition</b>
<b>Temperature Range</b>	<b>RT to 1100°C</b>
<b>Sample Size</b>	<b>φ or sq. 5 mm x 20 mm length φ or sq. 10 mm x 50 mm length φ or sq. 10 mm x 100 mm length</b>
<b>Measurement Atmosphere</b>	<b>Air, inert gas</b>
<b>Application</b>	<b>Customizable to special specifications</b>