CODE **GT2396**
MODEL. . . . .***DILA-MICRO L74 HS***
OVERALL DIMENSIONS. 1200x400x300mm
POWER . . . . 3,5 Kw
WEIGHT . . . . 30 kg

POWER SUPPLY

DIMENSIONS . . . . 480x400x 300 mm
WEIGHT . . . . 40 Kg
VOLTAGE . . . . 230 V

OPTICAL DILATOMETER L74 HS 1600 C

DESCRIPTION

**One complete horizontal optical Dilatometer (RT up to 1600°C) incl.
Software to do function analysis Dilatometer/Microscope complete with computer/printer**

TECHNICAL SPECIFICATIONS

- *Optical Dilatometer complete with soft- and hardware, incl. calibration standards and accessories*
- *Data acquisition software for controlling of the Dilatometer with several Parameter adjustments incl. temperature programming, gas control etc.*
- *Temperature range: RT up to 1600°C*
- *Sample length: up to max. 20 mm*
- *Sample diameter: max. 7 mm*
- *Resolution: up to 1µm*
- *Vacuum: up to 10E-4mbar*
- *Calibration standards: calibration standard with table included*

HARDWARE:

- *Dilatometer basic unit with optical system and light source*
- *Version 1: Optics for expansion, resolution 2,35um/px, camera window 3,7 x 2,8mm*
- *Version 2: Optics for heating microscope 8,8um/px, camera window 14 x 10mm*
- *Measuring system out of Al2O3*
- *Sample thermocouple Type S*
- *power supply*
- *furnace RT up to 1600°C*
- *Computer / Laptop, State of the Art*

SOFTWARE:

- *Software package compatible with Windows XP, VISTA, 7, 8 etc. all necessary measuring parameter are included in the menu structure individual commentaries*
- *Heat up and cool down speeds*
- *End of the heating curve as well as duration of holding temperature*
- *Repetition of the programming cycles up to 99 times*
- *16 programmable segments*
- *Function menus are easy to handle*
- *eEaluation software with many functions to get complete results of several data's*
- *ASCII Export*
- *Calculation of Delta L, Alpha physical, Alpha technical (CTE) and TG*
- *Mathematical calculation of curves*
- *Statistical evaluation of curves with mean and confidence interval*
- *Print out of the results as curve or table*
- *Softening point software (protects the measuring system of melting samples)*
- *Evaluation can be done simultaneously to an ongoing measurement*
- *Measuring data will be corrected through correction curve*
- *L75/DTA software package for DTA measurement on Dilatometer*
- *Evaluation prep.for TG / HDSC and RCS*

ACCESSORIES AND SPARE PARTS

GT2389	Closed loop water cooling unit L75/WCU
GT2389	Grinding machine for sample preparation L75/GRIND
GT2393	vacuum tight design for 10E-4mbar L74/VACUUM