B070M
SOFTMATIC
AUTOMATIC DIGITAL RING AND BALL APPARATUS

This high technology digital microprocessor tester, designed and manufactured by Matest, automatically determines the softening point of asphalts and pitches.

Cyber Plus Progress
7" colour touch screen with smart interface.

Cooling system enables to quickly cool down the samples, allowing to perform many more tests per day.

Two laser sensors detect the balls fall determining the softening point.

◾ MAIN FEATURES

❚ Real time display of the Temperature (°C)-Time(sec) graph along the entire test.
❚ Touch-screen TFT LCD graphic display, 800x480 pixels, 7 inches.
❚ Unlimited memory (USB pendrive, internal Micro SD) editable data via PC.
❚ Multilanguage selection.
❚ Microprocessor friendly-driven menu to control all the test phases.
❚ Top quality components: laser sensors, electronic magnetic stirrer, ceramic-glass heating plate.
❚ Fully automatic.

The tester is basically composed of:
- Ceramic-glass heating plate with automatic cut off at the end of the test cycle.
- Motherboard with microprocessor, which controls: heater/stirrer, temperature probe, laser sensors, pre-heating phase of the plate, and memorizes all the test parameters.
- Steel balls centering device.

COMMON APPLICATIONS

▎ STANDARDS: EN 1427 | ASTM D36 | AASHTO T53 | NF T66-008; comparable to: BS 2000 | DIN 52011 UNE 7111 UNI 4161 | CNR N.35

▎ AUTOMATIC AND ACCURATE CALCULATION OF THE SOFTENING POINT AT THE END OF THE TEST

▎ THE TEST IS SUITABLE ALSO FOR BITUMINOUS BINDERS RECOVERED FROM BITUMINOUS MIXES, E.G. BY EXTRACTION OR PREVIOUSLY AGED WITH RTFOT AND PAV
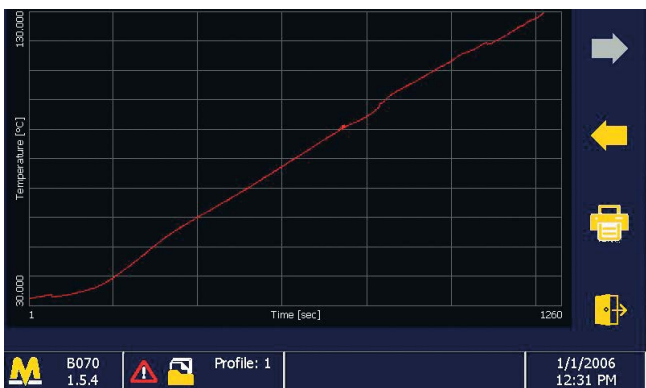
## CYBER PLUS PROGRESS - USER INTERFACE AND EASY TO USE STEP-THROUGH OPERATION
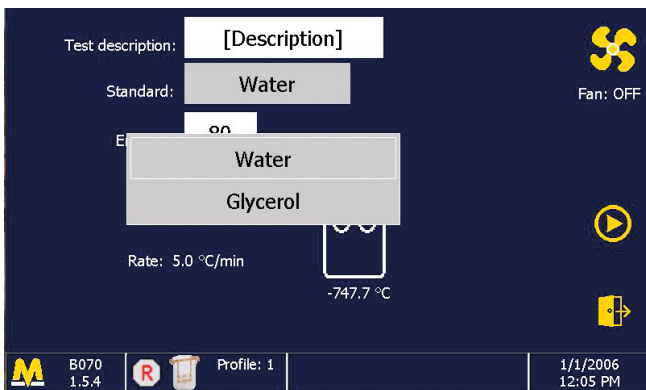
Two test parameters can be selected :
- test on boiled distilled water for softening point from 30 to 80 °C.
- test on glycerol for softening point from 80 up to 150 °C
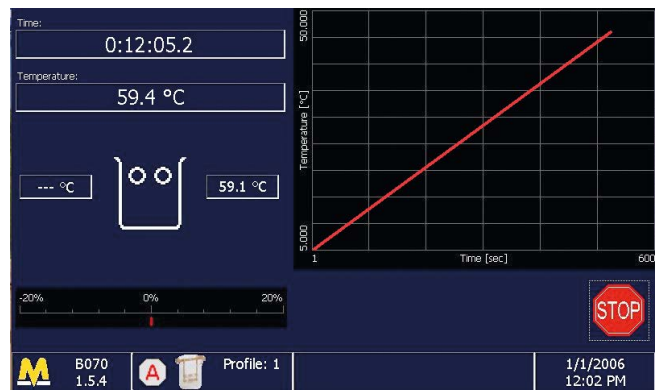
The bath temperature is measured by an electronic system maintaining the gradient (5 °C/min) as specified by the Standards.

A magnetic stirrer with electronic speed adjustment from 0 to 160 rpm also ensures a uniform temperature in the vessel during the test execution.
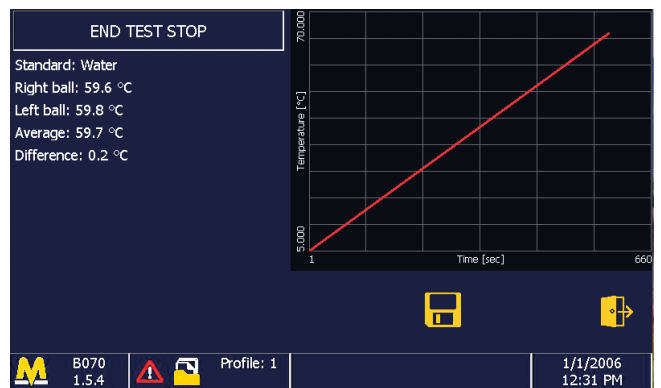
Results at the end of the test showing mean and difference between the two specimens evaluated. The results can be exported in TXT to prepare a customized report. Unlimited data storage

USER-FRIENDLY SOFTWARE

A user-friendly software not only comprises functionalities that can benefit the user, but also makes it easy for users to access all its features. The software guides the user step by step during the execution of the test, starting surface from the preheating phase up to the insertion of the balls on the bitumen