

## **Hot Solids Penetration Test Equipment**

### ***Description:***

Comprises a special hand held crucible to contain the 6 mm diameter steel ball. Within the base of the crucible is located the junction of a thermocouple. The thermocouple is connected to an electronic digital thermometer.

A cylindrical steel support tube and insulating funnel complete the equipment set up. The sample to be tested is placed horizontally on top of the support tube. The funnel is placed on top of the sample. The ball is placed in the crucible and heated using a propane burner, until the required temperature is attained. The ball is then tipped out of the crucible into the opening of the funnel.

The photograph shows a mains powered digital indicator which we use for several other applications other than temperature – eg pressure, air flow rate, humidity etc. The one supplied will be a battery powered, LCD indicator, appropriate to the thermocouple used.

### ***Services required:***

A hand held propane burner is suggested for heating the crucible with the ball inside. This should be purchased locally, to ensure a continuing supply of replacement gas cartridges.

### ***Approximate packed size & weight:***

40 x 15 x 12 cm : 2 kg

### ***Relevant standard:***

BS EN 168 : 2001, para 11.1

***Delivery:*** 8 weeks from receipt of order and deposit.

Effective: May 2008

