



• Product Code

- UTAS-0400 Ductility Testing Machine, 220-240 V 50-60 Hz
- UTAS-0420 Ductility Testing Machine with Cooling Unit, 220-240 V 50-60 Hz
- UTAS-0430 Force Ductility Testing Machine, EN 13589, 220-240 V 50-60 Hz
- UTAS-0402 Ductility Briquette Mould, ASTM D113 and AASHTO T51
- UTAS-0404 Ductility Mould Base Plate
- UTAS-0406 Ductility Mould, ASTM D6084, AASHTO T300 and EN13589
(force measurement), Brass
- UTAS-0408 Ductility Mould, EN 13398

• Standards

- UTAS-0400 and
- UTAS-0420 : EN 13398; ASTM D113, D6084; AASHTO T51
- UTAS-0430 : EN 13589, 13398, 13703; ASTM D113, D6084;
AASHTO T51, AASHTO T300

Dimensions	300x1850x550 mm
Weight (approx.)	80 kg
Power	1000 W

UTAS-0430



UTAS-0400





The UTAS-0400 Ductility Testing Machine is used to determine the ductility of bituminous materials in a briquette mould by measuring the breaking elongation at a constant speed of 05 mm/min. It is designed for testing 4 specimens simultaneously. The Internal tank is made of stainless steel. The bath is fitted with an immersion heater in order to obtain (in normal conditions), the 25°C test temperature.

Each machine comprises speed control and water circulator to maintain the homogenous water temperature.

The UTAS-0420 Ductility Testing Machine with Cooling Unit has the same specifications with UTAS-0400 Ductility Testing Machine but with an additional cooling unit and It is not possible to convert UTAS-0400 to UTAS-0420.

UTAS-0430 Force Ductility Testing Machine has 4 loadcells. The accuracy of loadcells are $\pm 0.1\text{N}$ with a maximum capacity of 300N. The UTAS-0430 has a cooling unit

UTAS-0430 model is equipped with BC 100 TFT Graphic Display Automatic Control and Data Acquisition Unit. Failure condition can be down loaded to the Unit. Speed can be set load-displacement curves are drawn through the software.

- Elongation measurement through motor encoder.
- 4 simultaneous load measurement with 18 bit resolution.
- Speed control with servo AC motor between 0.01 to 100mm/min.
- Ethernet connection for computer interface.

Moulds and mould base plates should be ordered separately for all type machine.



Ductility Moulds

UTAS-0430



UTAS-0400

