

Casagrande apparatus

**Liquid limit:
CASAGRANDE method**

Standards

ASTM D4318 | AASHTO T89 |
BS 1377:2 | NF P94-051-1 |
CEN ISO/TS 17892-06 & 17892-12 |
UNI 10014 | UNE 7377

**Liquid limit devices
22-T0030-31 series**

Casagrande apparatus are used, as an alternative to the cone penetrometer, to determine the moisture content at which clay soils pass from a plastic to a liquid state (the liquid limit).

Different versions are available conforming to the various Standards. They are identical in shape and differ mainly in the type of base. Furthermore all models are available in either manually or motor operated versions. The grooving tools, which must also comply with the different Standards, are not included and have to be ordered separately. See the table below.

Weights:

Standard versions: 2 kg (approx.)
Motorized versions: 4 kg (approx.)



22-T0030/F



22-T0031/F

Standards	Liquid limit device code		Grooving tool code
	Standard	Motorized	
BS 1377:2	22-T0030/E	22-T0031/E	22-T0032/P
ASTM D4318 AASHTO T89 CEN ISO TS 17892	22-T0030/F	22-T0031/F (230 V, 50 Hz) 22-T0031/FY (220 V, 60 Hz) 22-T0031/FZ (110 V, 60 Hz)	22-T0032/AP
NF P94-051	22-T0030/G	22-T0031/G (230 V, 50 Hz)	22-T0032/A
UNE 7377	22-T0030/F	22-T0031/F (230 V, 50 Hz)	22-T0032/A
UNI 10014	22-T0030/F	22-T0031/F (230 V, 50 Hz)	22-T0033

22-T0030/E

Casagrande liquid limit device, BS 1377:2 version.

22-T0030/F

Casagrande liquid limit device, ASTM D4318, AASHTO T89, CEN ISO TS 17892-06 & 17892-12, UNE 7377 and UNI 10014 version.

22-T0030/G

Casagrande liquid limit device, NF P94-051 version.

22-T0031/E

Motorized Casagrande liquid limit device, BS 1377:2 version. 230 V, 50 Hz, 1 ph.

22-T0031/F

Motorized Casagrande liquid limit device, ASTM D4318, AASHTO T89, CEN ISO TS 17892-06 & 17892-12, UNE 7377 and UNI 10014 version. 230 V, 50 Hz, 1 ph.

22-T0031/FZ

As above but 110 V, 60 Hz, 1 ph.

22-T0031/FY

As above but 220 V, 60 Hz, 1 ph.

22-T0031/G

Motorized Casagrande liquid limit device, NF P94-051 version. 230 V, 50 Hz, 1 ph.

Accessories and spares

22-T0032

Metal grooving tool, BS version.

22-T0032/P

Plastic grooving tools, BS version. Pack of 10.

22-T0032/A

Metal grooving tool, ASTM version.

22-T0032/AP

Plastic grooving tools, ASTM version. Pack of 10.

22-T0033

Grooving tool, UNI version.

22-T0034

Spare brass cup.

22-T0034/1

Spare roughened cup.



22-T0032/AP



22-T0032/P



22-T0034/1