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Sample preparation

Portable saw

C0351

For cutting samples.

- Max. blade Ø: 350 mm.
- Rotation speed: 3 900 rpm.
- Elect. supply: 230 V 2 000 W.
- Fixation device supplied.
- Dimensions: 560 x 460 x 390 mm.
- Weight: 20 kg.



C0351

Indispensable accessory

Diamond blade

C0350/3

Ø 350 mm

Rock hardness

L-type rock sclerometer

According to ASTM D5873

C0185

- Similar to the N sclerometer for concrete but with three times lower percussion energy. Particularly adapted for sensitive components to shocks and pieces with thin walls.
- Measurement range: 10 to 70 MPa.
 - Weight: 1.5 kg.



C0185

Support for sclerometer and sample test tube

A0121

- Weight: 10 kg.



A0121

Digital point load tester

According to ASTM D5731

A0125

- For in-situ or laboratory determination of the resistance of a rock of max. dia. 101.6 mm (4") according to formula P / D^2 .
- P = force in kN.
 - D2 = distance between the punches.
- With graduated indication scale of the distance between points and 0/56 kN digital manometer, resolution 0.001 kN and 1% precision.
- Manual control jack, 55 kN.
- Delivered in wooden crate with accessories and protection mask.
- Dimensions: 370 x 320 x 710 mm.
- Weight: 25 kg.



A0125

Other version

C0094

- With Ø 65 mm plates for compression of cylinders.
- Distance between plates: 110 mm.



C0094

Structure and homogeneity of rocks

Ultrasonic test equipment

According to EN 12504-4 / ASTM C597-02
BS 1881 / ISO 1920-7:2004

E0746

For nondestructive test of materials.
Resulting data on digital display (Velocity, speed).

Accessory Exponential transducer

E0643/R11



E0746

Transit time measurement :

- Range 0.1 to 9999 μ s resolution 0.1 μ s.
- Transmitter Optimized energizing pulse 125V, 250V, 350V, 500V, AUTO.
- Bandwidth 20 kHz to 500 kHz.
- Selectable gain steps 1x, 10x, 100x, AUTO.
- Battery 4 x AA batteries, primary or rechargeable.
- Mains Via USB charger.
- Power ratings 3,6 to 6 volt.
- Operating temperature -10° to 60°C.

The set consisting of :

Display unit, 2 transducers (54 kHz), 2 BNC cables 1.5 m, couplant, calibration rod 25 μ s, USB charger with USB-cable, 4 x AA (LR) batteries, data carrier with software, documentation and carrying case.

It can supports a wide range of transducers from 24 kHz up to 500 kHz.

- Dimensions 172 x 55 x 220 mm.
- Weight 1.31 kg.

Characteristics of rocks

Automatic shaker

According to EN 1997-2 / BS 1377:2

A0117

Used to determine the specific gravity of soils, it rotates two gas jars at approx. 50 rpm to satisfy BS Standard. The shaker is equipped with an original friction device conforming the unit to CE Safety Directive.

- Power supply: 230 V 50 Hz 1ph 150 W.
- Dimensions: 550 x 430 x 500 mm.
- Weight: 20 Kg.



A0117

Slake durability apparatus

According to ASTM D4644

A0131

This equipment has been developed to assess the durability of rock to weakening and disintegration when subjected to the simulated effects of climatic slaking.

- Power supply: 230V 1ph 50Hz 250W.
- Dimensions: 350x740x300 mm approx.
- Weight: 30 kg approx.



A0131



Permeability and triaxial test

Measurement of the permeability of rock with constant load with Hoek cell

including :

Oil/water constant pressure set

S0342

Pressure adjustment from 0 to 3 500 kPa.

- Elect. supply: 230 V 50 Hz.
- Weight: 20 kg.

Burette 50 ml / 0.1 ml

A0142/1

Supplied with stand.



S0342

A0142/1

Measurement of the resistance of rock subjected to a triaxial test with Hoek cell

Used to perform triaxial tests on rocks.

Composed of a cell body for use up to 70 MPa, 2 self-obturing connections for connecting an hydraulic pump equipped with a manometer for constant pressurisation.

The axial load is exerted with a compression machine by means of a pivot joint to prevent any eccentricity



Hoek cells

Hoek cell with permeability lid

Type of cell Ø / H mm	Ref.	Code	Spare membrane	Permeability lid
21,46 x 40	A0135	-	A0135/3	A0135/5
30,10 x 60	A0136	AX	A0136/3	A0136/5
38,10 x 75	A0137	1,5"	A0137/3	A0137/5
42,04 x 85	A0138	BX	A0138/3	A0138/5
54,74 x 100	A0139	NX	A0139/3	A0139/5

Indispensable accessories for triaxial test

Strain gauge

AJ0001.13

Extensometric bridge

AJ0013/1

With 6 measurement channels.

Hydraulic pump

A0142

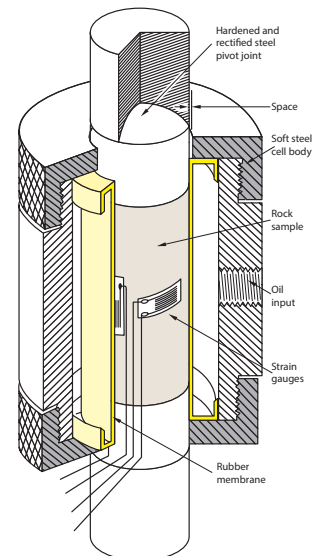
To maintain pressure.

Compression machine

C0049M



Hydraulic pump A0142



Hoek cell section drawing

Shear

Shear apparatus

A0130

Can be used with samples up to 115 x 125 mm or with core samples up to \varnothing 102 mm.

A vertical and a horizontal load are applied by means of 2 jacks with hydraulic pump.

The force is read out with 2 manometers,

50 kN / 1 kN (other manometers on request).

- Dimensions: 600 x 250 x 460 mm.
- Weight: 46 kg.



A0130

Delivered complete with 2 moulds

Set of 4 comparators

According to ASTM D5607

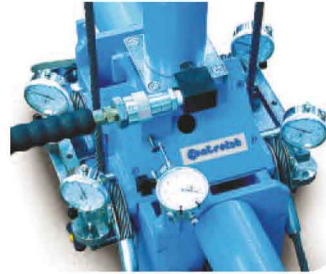
A0130/1

10 x 0.002 mm with support for measurement of vertical displacement



A0130/6

Mould



A0130/1