

## AI25N

### Digital point load tester (Rock strength index)

STANDARD: ASTM D5731

Used to determine the strength values of a rock specimen both in the field and in the laboratory.

It consists of a load frame for applying loads up to 55 kN, on which a manual hydraulic jack is mounted. The instrument accepts core specimens up to 4" (101,6 mm) diameter which are loaded by two coneshaped points. A graduated scale indicates the distance between the conical points.

The applied load is measured by a **high precision electric load cell** with a digital display unit range 0-56kN proving:

- 65.000 divisions
- 0,001 kN resolution
- Linearity: 0,05%
- Hysteresis: 0,03%
- Repeatability: 0,02%

The strength index (IS) is got by the formula  $P : D^2$  where P is the strength and D the space between the two conical points. Supplied complete with wooden carrying case, goggles, accessories.

Dimensions: 400x530x720 mm.

Weight: 25 kg

ACCESSORY:

**AI25-02** Lower plate and upper plate with seat ball to modify the Point Load Tester into a portable compression tester (see section "C" concrete, mod. C094) pag. 249

SPARE-PART: **AI25-01** Set of two hardened conical points.



AI25N

NEW

section A



60

## C381

### Rock classification Hammer

LOW IMPACT ENERGY MODEL

STANDARDS: ASTM D5873 / ISRM

This impact hammer is used for rock classification test. The core rock specimen normally NX 54,7 mm diameter is held on a special cradle (accessory) in horizontal position, and the hammer tests the same in all its length, to obtain an average of the readings.

Impact energy: 0,74 Nm

Measuring range: 10÷60 N/mm<sup>2</sup>

Weight: 2 kg

ACCESSORY:

## AI21

### Rock cradle

STANDARD: ASTM D5873

To locate EX to NX core rock specimens during the classification tests by the Rock Hammer mod. C381. Weight: 20 kg

## C390

### Calibration anvil

STANDARDS: EN 12504-2 / ASTM D5873, C805

Used for periodical obligatory verification of the test hammers, as specified by EN Standards.

Technical data: see Section "C" Concrete pag. 292

Dimensions: dia. 150x 230 mm. Weight : 16 kg



C381

AI21



C390



AI25-02

## A095

**Polisher - Grinder**, used for the preparation of rock and metallurgical specimens from lapping to final polishing. The disc is 200 mm diameter and the rotation speed is 300 rpm.

The machine is supplied complete with bakelite working disc and set of 25 abrasive silicon carbide discs.

Power supply: 230V 50 Hz 1ph 200W

Dimensions: 370x500x300 mm

Weight: 31 kg

SPARE PART:

## A095-01

ABRASIVE silicon carbide disc. Pack of 25.



A095

MATEST