

## CBR TESTING MACHINES

STANDARDS: EN 13286-47 / ASTM D1883 / BS 1377-4:1990 / AASHTO T193 / CNR UNI 10009 / NF P94-078

Used to load the penetration piston into the soil sample at a constant rate of 1,27 mm/min, and to measure the applied loads and piston's penetrations at determined intervals.

Matest proposes a wide range of machines: hand operated, motorized, dual speed, universal multispeed; load measurement by load ring, or by electric load cell and digital unit with X/Y graphic recorder of load/penetration through RS 232 port to PC.

### S209 KIT

#### CBR loading machine, hand operated, laboratory model

Load is applied through a mechanical jack and handwheel.

Upper beam can be adjusted in height.

Foreseen of fast approach device of the base plate.

The S209KIT CBR machine comprises:

**S209-01** CBR laboratory frame

**S212-01** CBR penetration piston

**S370-10** Load ring 50 kN capacity

**S376** Dial gauge 10 x 0,01 mm

**S212-03** Dial gauge holder

Dimensions:

430x380x1180 mm

Weight: 80 kg

S209 KIT



ACCESSORIES:

### S210-02

CBR RATE INDICATOR

Used to apply the correct rate of 1,27 mm/min penetration to hand operated CBR machine S209 KIT.

Power supply: 230 V 1ph 50 Hz



S210-02

### S374

**BRAKE DEVICE**, it holds the max. applied load on the dial gauge of the load ring, with manual zero setting. Suitable for S209 KIT and S211 KIT machines.

### S211 KIT

#### CBR loading machine motorized, 50 kN Speed rate: 1,27 mm/min

Load is applied through a screw jack driven by an electric motor at a constant penetration rate of 1,27 mm/min (ASTM, BS, EN Spec.)

achieved by a built in gear box and "assured also under load".

Upper beam can be adjusted in height.

Foreseen of fast approach device of the base plate and electric

end of stroke switches of the load plate to save the machine from wrong manipulations.

The S211KIT CBR machine comprises:

**S211-10** CBR motorized frame

**S212-01** CBR penetration piston

**S370-10** Load ring 50 kN capacity

**S376** Dial gauge 10 x 0,01 mm

**S212-03** Dial gauge holder

Power supply: 230 V 1ph 50 Hz 750 W

Dimensions:

430x380x1180 mm

Weight: 98 kg

S211 KIT



### S374-01

**ELECTRIC DEVICE FOR AUTOMATIC STOP** of the CBR machine when reaching the max. capacity load.

To prevent any overload damage this device is mounted on the proving ring of the S211 KIT machine.

...follows...

material testing equipment

