



C377

Micro-coring equipment

STANDARD: UNI 10766

The extraction of a micro-core sample from a concrete structure or masonry is an extremely valid non-destructive method, as it allows analysis and accurate evaluations of the manufacture (compression resistance, ecc.) without causing any damages to the structure, considering the dimension of the hole that can be eventually clogged with mortar.

Micro-coring system is ulteriorly valid and reliable if combined with ultrasonic tester and concrete hammer.

Micro-core extraction is easy, and requires the presence of one operator only.

The equipment comprises:

- Suitable electric drill. 230V 1F 50Hz
- Flanged guide assembly
- Drilling mask
- Impregnated diamond bit for cores with Ø 28 x 100 mm
- Impregnated diamond bit for cores with Ø 28 x 200 mm
- 2 Self-blocking pincers to fit the flanged guide assembly to the surface

Set of accessories comprising: anchors, bits, wrenches, screws.

Carrying case.

Dimensions: 550x400x200 mm approx.

Weight: 10 kg. approx.

C377-05

TRIMMING/CUT-OFF MACHINE FOR CORES.

Suitable to cut and trim cores to be prepared for compression tests, where the flatness of both surfaces is a basic condition to obtain correct results.

The equipment is made of stainless steel and aluminum and it is supplied complete with diamond blade dia. 180 mm.

For this purpose it must be used the drill mod. C377-10 (enclosed into micro-coring equipment) and the water tank with foot pump mod. C377-01.



C377-05

Note:

The maximum values foreseen for compression tests on micro-cores are usually lower than 60 kN. Portable compression machine mod. C094 (see pag. 249), or a cement compression tester (see pag. 342) may be conveniently used.

Trimming of cores may be even obtained with the grinding machine mod. C298 + device mod. C300-08 (see pag. 279)



C377

C377-01

ACCESSORIES:

C377-01

WATER TANK WITH FOOT PUMP, that leaves the hands of the operators free for coring

AS ALTERNATIVE:

C377-02

AIR-WATER PRESSURE TANK, 10 liters capacity

SPARE PARTS:

C377-10 ELECTRIC DRILL, suitable for the microcoring purposes.

C377-15 DIAMOND BIT, dia. 28 x 100 mm

C377-16 DIAMOND BIT, dia. 28 x 200 mm



C377-02