DIGITAL ROCK STRENGTH INDEX APPARATUS

The rock strength index apparatus consists of a high stability load frame 100 kN cap. with hydraulic loading ram actuated by a hand pump. Loading frame and manual pump are independent resulting in a superior functionality and usability of the equipment.

The unit is conforming to ASTM D5731 and ISRM suggested method and the wide testing area allows to test both rock cylinders and irregular shaped samples.

It features an ergonomic digital readout unit with graphic display battery operated and membrane keyboard.

The compression load is measured by a in-built pressure transducer, assuring the best accuracy and resistance to the failure shocks. A ruler is assembled on the frame allowing the direct measurement of the distance D between the conical platens before and after the test.

The complete set is housed in an ergonomic carrying case with wheels.

SPECIFICATION

- 100 kN capacity
- 128 x 80 pixels graphic display with 6 keys membrane keyboard
- In-built rechargeable LiPo type battey
- Effective resolution: 18 bit (1/262'000 div.)
- Load measurement accuracy: ± 1 %
- Load resolution: 1 N
- Load measurement by pressure transducer
- Lower crossbeam position measurement by in built meter
- Piston travel: 100 mm
- Distance between conical platens: 100 mm
- Distance between compression platens (accessory 32-D0550/D5): 102 mm
- Distance between columns: 108 mm
- Dimensions and weight of frame / hydraulic jack:
  - Dimensions (l x w x h): 200x200x418 mm
  - Weight: 14 kg
- Dimensions and weight of manual pump:
  - Dimensions (l x w x h): 798x160x310 mm
  - Weight: 8.3 kg
- Dimensions and weight of carrying case:
  - Dimensions (l x w x h): 447 x 265 x 558 mm
  - Weight: 7.7 kg

STANDARDS

- ASTM D5731
- ISRM

FEATURES

- 100 kN capacity
- Superior functionality and usability of the equipment, since the pump is separate from the frame
- Ergonomic digital read out unit with wide graphical display and 6 keys membrane keyboard
- Effective resolution: 18 bit (1/262'000 div.)
- Load measurement accuracy: ± 1 %
- Load resolution: 1 N
- Supplied complete with traceable calibration certificate for load measurement accuracy
- Set of lower and upper platen with spherical seat for compression tests on small cylinders available as accessory

ACCESSORIES

32-D0550/A7

Set of hardened conical platens

32-D0550/A9

Set of spare gaskets for the hydraulic cylinder fitted in the point load tester model 45-D0550

32-D0550/D5

Set of lower and upper platen 52 mm dia with spherical seat for compression test on concrete microcors

32-D0550/D6

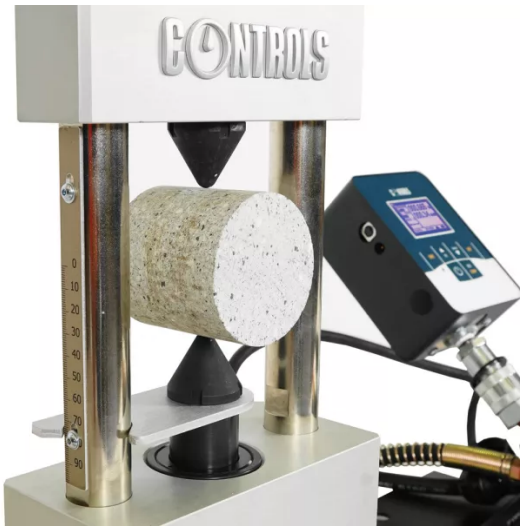
Mounting/Dismounting tool for the conical points fitted on point load machine 45-D0550

32-D1717

Clear safety goggles

ORDERING CODE

32-D0550

Digital rock strength index apparatus, 100 kN cap.conforming to ASTM D5731 and ISRM suggested method.

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