

## COMPRESSION TESTER, 4-Columns

Code : B004



- Used to test the compression strength of concrete cubes/cylinders of different sizes.
- ALFA is the first company in the world to manufacture Computer-Controlled Compression Testers.
- The rigid 4-column design provides stability and strength for a better using experience.
- The load frame carries the ball-seated upper platen which adjusts itself to apply homogeneous loading on the specimen.
- The lower platen is located on the loading piston which protected against debris by a cover.
- The ball seating and the lower platen assemblies are supplied in a way to match the capacity of the machine and the specimens to be tested, ensuring accurate alignment and stable repeatable testing.
- All different models have been designed with reference to the International Standards (ASTM C39 and EN 12390-4), ensured that the machines can easily meet the standards and, where applicable, can be supplied with relevant certification for calibration accuracy and other parameters.
- Supplied complete with spacer discs (Additional spacer discs can be ordered separately).

## **STANDARDS**

ASTM C39 • EN 12390-4

## **TECHNICAL SPECIFICATIONS**

- 4-Column design
- Supplied standard with front safety guard door.
- By combining the stiffness of the frame with the accuracy of the control unit, one machine can perform tests on a variety of specimen types.
- 220 - 240 V / 50 - 60 Hz

## **EQUIPPED WITH**

- Safety front guard
- Limit switch to prevent piston overtravelling

## **SUPPLIED WITH**

- Distance pieces to test:
  - Cubes (15 x 15 cm)
  - Cylinders (Ø 4" X 8") (Ø 10 x 20 cm)
  - Cylinders (Ø 6" X 12") (Ø 15 x 30 cm)

## **ACCESSORIES**

| Item | Code |
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| BELLOWS RUBBER for PRESS SPHYRICAL SEATING                                | B001P013H |
| SPHERICAL SEATING for B001  | B001P020H |
| HYDRAULIC VALVE for B001 - 400 bar  | B001P021H |
| FLEXURAL TESTING MACHINE (C-Frame) - 200 kN                               | B002A20XU |
| FLEXURAL TESTING MACHINE (C-Frame) - 300 kN                               | B002A30XU |
| POWER PACK - 400 Bar  | B002P000U |
| FLEXURAL C-FRAME - 200 kN   | B002P20XH |
| FLEXURAL C-FRAME - 300 kN   | B002P30XH |
| FLEXURAL TESTING MACHINE (Rectangular Frame) - 200 kN                     | B003A20XU |
| FLEXURAL TESTING MACHINE (Rectangular Frame) - 300 kN                     | B003A30XU |
| FLEXURAL TESTING MACHINE (Rectangular Frame) - 600 kN                     | B003A60XU |
| FLEXURE APPARATUS for CONCRETE BEAMS                                      | B003P001H |
| RECTANGULAR COMPRESSION PLATES - 30x40 cm                                 | B003P003H |
| SPACER DISK - 40 mm   | B003P004H |
| SPACER DISK - 50 mm   | B003P005H |
| SPACER DISK - 100 mm  | B003P006H |
| SPLITTING TENSILE APPARATUS for Ø 100 mm CYLINDRER SPECIMENS              | B003P007H |
| SPLITTING TENSILE APPARATUS for Ø 150 mm CYLINDRER SPECIMENS              | B003P008H |
| SPLITTING TENSILE APPARATUS for 150 mm CUBES                              | B003P009H |
| THERMAL PRINTER for COMPRESSION TESTER (B-001 and B-004)                  | B003P010H |
| METAL DOOR for 2000 kN COMPRESSION TESTER                                 | B003P011H |
| METAL DOOR for 3000 kN COMPRESSION TESTER                                 | B003P012H |
| COMPRESSOMETER/EXTENSOMETER (DIAL GAUGE) for Ø75x150mm CONCRETE CYLINDERS | B003P020H |
| COMPRESSOMETER/EXTENSOMETER (DIGITAL) for Ø75x150mm CONCRETE CYLINDERS    | B003P021H |
| COMPRESSOMETER/EXTENSOMETER (LVDT) for Ø75x150mm CONCRETE CYLINDERS       | B003P022H |

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| COMPRESSOMETER/EXTENSOMETER (DIAL GAUGE) for Ø100x200mm CONCRETE CYLINDERS | B003P023H |
| COMPRESSOMETER/EXTENSOMETER (DIGITAL) for Ø100x200mm CONCRETE CYLINDERS    | B003P024H |
| COMPRESSOMETER/EXTENSOMETER (LVDT) for Ø100x200mm CONCRETE CYLINDERS       | B003P025H |
| COMPRESSOMETER/EXTENSOMETER (DIAL GAUGE) for Ø150x300mm CONCRETE CYLINDERS | B003P026H |
| COMPRESSOMETER/EXTENSOMETER (DIGITAL) for Ø150x300mm CONCRETE CYLINDERS    | B003P027H |
| COMPRESSOMETER/EXTENSOMETER (LVDT) for Ø150x300mm CONCRETE CYLINDERS       | B003P028H |
| COMPRESSOMETER/EXTENSOMETER (DIAL GAUGE) for Ø160x320mm CONCRETE CYLINDERS | B003P029H |
| COMPRESSOMETER/EXTENSOMETER (DIGITAL) for Ø160x320mm CONCRETE CYLINDERS    | B003P030H |
| COMPRESSOMETER/EXTENSOMETER (LVDT) for Ø160x320mm CONCRETE CYLINDERS       | B003P031H |
| COMPRESSOMETER/EXTENSOMETER (DIAL GAUGE) for 100x100mm CONCRETE CUBES      | B003P032H |
| COMPRESSOMETER/EXTENSOMETER (DIGITAL) for 100x100mm CONCRETE CUBES         | B003P033H |
| COMPRESSOMETER/EXTENSOMETER (LVDT) for 100x100mm CONCRETE CUBES            | B003P034H |
| COMPRESSOMETER/EXTENSOMETER (DIAL GAUGE) for 150x150mm CONCRETE CUBES      | B003P035H |
| COMPRESSOMETER/EXTENSOMETER (DIGITAL) for 150x150mm CONCRETE CUBES         | B003P036H |
| COMPRESSOMETER/EXTENSOMETER (LVDT) for 150x150mm CONCRETE CUBES            | B003P037H |
| COMPRESSOMETER/EXTENSOMETER (DIAL GAUGE) for 200x200mm CONCRETE CUBES      | B003P038H |
| COMPRESSOMETER/EXTENSOMETER (DIGITAL) for 200x200mm CONCRETE CUBES         | B003P039H |
| COMPRESSOMETER/EXTENSOMETER (LVDT) for 200x200mm CONCRETE CUBES            | B003P040H |
| FLEXURAL RECTANGULAR FRAME - 200 kN  | B003P20XH |
| FLEXURAL RECTANGULAR FRAME - 300 kN  | B003P30XH |
| FLEXURAL RECTANGULAR FRAME - 600 kN  | B003P60XH |

**ORDERING INFORMATION**

| Item  | Code      |
|---|-----------|
| COMPRESSION TESTER (1125 kN, ASTM, FA)        | B001A11AU |
| COMPRESSION TESTER (1500 kN, ASTM, FA)        | B001A15AU |
| COMPRESSION TESTER (2000 kN, ASTM, FA)        | B001A20AU |
| COMPRESSION TESTER (2000 kN, EN, FA)          | B001A20EU |
| COMPRESSION TESTER (3000 kN, ASTM, FA)        | B001A30AU |
| COMPRESSION TESTER (3000 kN, EN, FA)          | B001A30EU |
| COMPRESSION TESTER (5000 kN, ASTM, FA)        | B001A50AU |
| PISTON SEAL for 1000 kN B-001 and B-004       | B001P001H |
| PISTON SEAL for 1125 kN B-001 and B-004       | B001P002H |
| PISTON SEAL for 1500 kN B-001 and B-004       | B001P003H |
| PISTON SEAL for 2000 kNB-001 and B-004        | B001P004H |
| PISTON SEAL for 3000 kN B-001 and B-004       | B001P005H |
| PISTON SEAL for 5000 kN B-001 and B-004       | B001P006H |
| COMPRESSION FRAME - 1000 kN, Mono-Block, ASTM | B001P007H |
| COMPRESSION FRAME - 1125 kN, Mono-Block, ASTM | B001P008H |
| COMPRESSION FRAME - 1500 kN, Mono-Block, ASTM | B001P009H |
| COMPRESSION FRAME - 2000 kN, Mono-Block, ASTM | B001P010H |
| COMPRESSION FRAME - 3000 kN, Mono-Block, ASTM | B001P011H |
| CENTERING APPARATUS for [B 001] SERIES        | B001P012H |
| BELLOWS RUBBER for PRESS SPHYRICAL SEATING    | B001P013H |
| COMPRESSION FRAME - 1000 kN, Mono-Block, ASTM | B001P014H |
| COMPRESSION FRAME - 1125 kN, Mono-Block, ASTM | B001P015H |
| COMPRESSION FRAME - 1500 kN, Mono-Block, ASTM | B001P016H |

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| COMPRESSION FRAME - 2000 kN, Mono-Block, ASTM         | B001P017H |
| COMPRESSION FRAME - 3000 kN, Mono-Block, ASTM         | B001P018H |
| COMPRESSION TESTER UPGRADE PACK                       | B001P019H |
| SPHERICAL SEATING for B001                            | B001P020H |
| HYDRAULIC VALVE for B001 - 400 bar                    | B001P021H |
| COMPRESSION TESTER (1500 kN, ASTM, SA)                | B001S15AU |
| COMPRESSION TESTER (2000 kN, ASTM, SA)                | B001S20AU |
| COMPRESSION TESTER (2000 kN, EN, SA)                  | B001S20EU |
| COMPRESSION TESTER (3000 kN, ASTM, SA)                | B001S30AU |
| COMPRESSION TESTER (3000 kN, EN, SA)                  | B001S30EU |
| COMPRESSION TESTER (1000 kN, ASTM, Servo)             | B001V10AU |
| COMPRESSION TESTER (2000 kN, ASTM, Servo)             | B001V20AU |
| COMPRESSION TESTER (2000 kN, EN, Servo)               | B001V20EU |
| COMPRESSION TESTER (2000 kN, AS, Servo-Controlled)    | B001V20SU |
| COMPRESSION TESTER (3000 kN, ASTM, Servo)             | B001V30AU |
| COMPRESSION TESTER (3000 kN, EN, Servo)               | B001V30EU |
| FLEXURAL TESTING MACHINE (C-Frame) - 200 kN           | B002A20XU |
| FLEXURAL TESTING MACHINE (C-Frame) - 300 kN           | B002A30XU |
| POWER PACK - 400 Bar                                  | B002P000U |
| FLEXURAL C-FRAME - 200 kN                             | B002P20XH |
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| FLEXURAL TESTING MACHINE (Rectangular Frame) - 200 kN | B003A20XU |
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| FLEXURAL RECTANGULAR FRAME - 300 kN                                   | B003P30XH |
| FLEXURAL RECTANGULAR FRAME - 600 kN                                   | B003P60XH |
| COMPRESSION TESTER (2000 kN, EN, 4-Column, FA)                        | B004A20EU |
| COMPRESSION TESTER (3000 kN, EN, 4-Column, FA)                        | B004A30EU |
| COMPRESSION FRAME - 1000 kN, 4-Column, EN                             | B004P001H |
| COMPRESSION FRAME - 1125 kN, 4-Column, EN                             | B004P002H |
| COMPRESSION FRAME - 1500 kN, 4-Column, EN                             | B004P003H |
| COMPRESSION FRAME - 2000 kN, 4-Column, EN                             | B004P004H |
| COMPRESSION FRAME - 3000 kN, 4-Column, EN                             | B004P005H |
| COMPRESSION FRAME - 1000 kN, 4-Column, EN                             | B004P006H |
| COMPRESSION FRAME - 1125 kN, 4-Column, EN                             | B004P007H |
| COMPRESSION FRAME - 1500 kN, 4-Column, EN                             | B004P008H |
| COMPRESSION FRAME - 2000 kN, 4-Column, EN                             | B004P009H |
| COMPRESSION FRAME - 3000 kN, 4-Column, EN                             | B004P010H |
| COMPRESSION TESTER (2000 kN, EN, 4-Column, SA)                        | B004S20EU |



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| COMPRESSION TESTER (3000 kN, EN, 4-Column, SA)    | B004S30EU |
| COMPRESSION TESTER (2000 kN, EN, 4-Column, Servo) | B004V20EU |
| COMPRESSION TESTER (3000 kN, EN, 4-Column, Servo) | B004V30EU |

**OTHER PHOTOS**

