

CONCRETE PRESS & **BENDING TEST SYSTEM**

SERVO HYDRAULIC



BCO-CDF/ST



DESCRIPTION

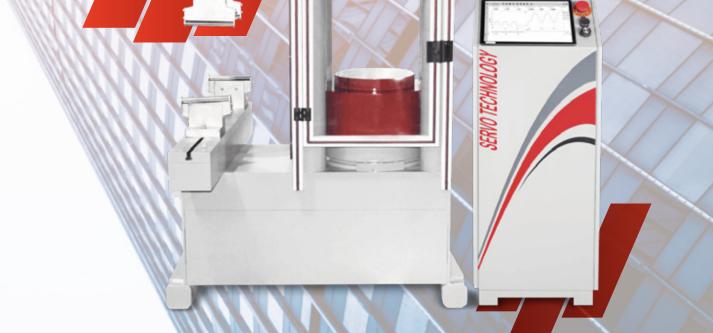
The BESMAK BCO-CDF/ST Series is a high-performance servo-hydraulic concrete press that combines compression and bending tests in a single, compact, and ergonomically designed machine. This system delivers exceptional accuracy, thanks to its robust servo-hydraulic load frames, intuitive software with powerful testing capabilities, high-capacity digital controllers, and durable jaws and fixtures. Compression and bending tests are conducted in compliance with ASTM and ISO standards, ensuring reliable and standardized results.

The BCO-CDF/ST Series Test System includes a rigid combined compression and bending body, a hydraulic unit with intermediate spacing components, a 2-channel electronic controller, a Linux-based 10-inch LCD display with built-in testing software, PC software, and a user manual. This automated testing system offers high capacity and flexible configurability, providing dependable test results for a wide range of applications. Its advanced features and user-friendly design make it an ideal solution for precise and efficient material testing.

APPLIED STANDARDS

✓ EN 12390-4 ✓ EN 12390-4 ✓ EN 1339 ✓ EN 1340 ✓ ASTM C39

In One Machine: Superior
Precision and Reliability in
Compression and Bending
Tests





TECHNICAL SPECIFICATIONS

FRAME

- High stability with low friction single-effect piston
- Testable sample sizes: Cube (150x150x150, 200x200x200 mm), Cylinder
- (100x200, 150x300, 160x320 mm), Concrete Beam (100x100x400/500 mm, 150x150x600/750 mm)
- Upper head: 3° movement for homogeneous load distribution.
- Compression plate diameter: 320 mm, hardness min. 53 HRC
- Hardened and smoothened surfaces
- Test transition: Compression and bending sides have manual or automatic transition.



This testing device

provides high performance, **flexibility**, and reliable results, making it an excellent solution for concrete testing.

COMPRESSION STROKE

60 mm

COMPRESSION CAPACITY RANGE

0-3000 kN

LOAD MEASUREMENT

Precision of 1% according to EN-ISO-7500-1 standard

4 COLUMN

Compression and bending frame on the side

BENDING STROKE

120 mm

BENDING CAPACITY RANGE

0-300 kN

HYDRAULIC UNIT

Servo system, quick loading, high flow electric motor-driven

HIGH STABILITY, LOW FRICTION

Maximum impact on stabilization and friction with a single-acting piston



FRAMES

PRODUCT CODE	PRODUCT NAME
BCO-CDF3000-150/ST	Fully Automatic 4-Column Hydraulic Compression and Bending Test Machine, Combined Frame, 3000kN Compression / 150kN Flexural Capacity
BCO-CDF3000-200/ST	Fully Automatic 4-Column Hydraulic Compression and Bending Test Machine, Combined Frame, 3000kN Compression / 200kN Flexural Capacity
BCO-CDF3000-300/ST	Fully Automatic 4-Column Hydraulic Compression and Bending Test Machine, Combined Frame, 3000kN Compression / 300kN Flexural Capacity

ACCSESORIES



BALL SEAT FOR 2000/3000 KN COMPRESSION MACHINE

BCO-199/1



HARDNESS PLATEN FOR CONCRETE COMPRESSION MACHINE

BCO-HP



TOUCH SCREEN

BMT-CUT/LCD-10



AUTO - CENTERING DEVICE BGE-671/1



PISTON SEAL SET BGE-605/3



PRESSURE TRANSDUCER

BGE-PT



DISTANCE FOR 2000/3000 KN CONCRETE PRESS

BCO-DP



LVDT LVDT



3-4 POINT BENDING FIXTURE FOR CONCRETE BEAM

Concrete Beam BCO-FF



NEOPREN PADS AND CAPPING RETAINERS

BCO-122



FLEXURAL FIXTURE FOR CONCRETE KERBS

BCO-KRB



DISTANCE FOR 2000/3000 KN CONCRETE PRESS

BCO-DP



COMPRESSOMETER-EXTENSOMETER COMP



FLEXURAL FIXTURE FOR FLAGSTONE (LONG SAMPLE)

BCO-FF / Flagstone Long Sample



CEMENT COMPRESSION APPARATUS

BCE-CCJ



CEMENT FLEXURAL APPARATUS

BCE-CFJ



COMPRESSION JIG ASSEMBLY FOR ROCK-CORE SPECIMENS

BRC-710



COMPRESSION FIXTURE FOR FLEXURAL TEST MACHINE BCO-CF

DUAL CAPACITY SINGLE POWER

Unlimited Performance in Testing



BESMAK MATERIAL TESTING MACHINES



www.besmaklab.com

info@besmaklab.com ⊠

+90 312 815 56 20 🔇

Saray Avenue Aksoy Street No:53 Kazan, Ankara/TURKEY

