AZA LAB / MATERIAL TESTING EQUIPMENT

AUTOMATIC CEMENT COMPRESSION & FLEXURE TESTING MACHINES

AZA0817 SERIES | TECHNICAL DATASHEET



PRODUCT OVERVIEW

The AZA0817 Series Automatic Cement Compression & Flexural Testing Machine is designed for accurate, reliable and repeatable determination of the compressive and flexural strength of cement mortar specimens. Available in single-chamber and dual-chamber configurations, the series combines a rigid two-column loading frame, automatic hydraulic power pack and digital data acquisition and control system.

Automatic load application, real-time test monitoring and digital result storage reduce operator intervention and improve testing consistency. Suitable for cement laboratories, construction materials testing facilities, quality-control departments and research institutions.

KEY CAPABILITIES

Automatic hydraulic loading | Digital touchscreen control | Load/time and stress/time graphs | Storage of more than 10,000 results | Overload protection

TECHNICAL SPECIFICATIONS

01 / TESTING FRAME

Parameter	AZA0817 A Compression	AZA0817 B Flexure	AZA0817 C Compression
Capacity	250 kN	15 kN	250 kN
Class 1 measuring range	2.5–250 kN	0.5–15 kN	2.5–250 kN
Piston diameter	160 mm	80 mm	160 mm
Horizontal clearance	300 mm	200 mm	300 mm
Maximum working pressure	125 bar	30 bar	125 bar
Rapid approach rate	50 mm/min	80 mm/min	50 mm/min
Dimensions (W × L × H)	830 × 500 × 1650 mm	1050 × 500 × 1650 mm	1050 × 500 × 1650 mm
Approx. weight	265 kg	410 kg	410 kg

02 / COMMON TECHNICAL SPECIFICATIONS

Parameter	Specification
Frame construction	Rigid two-column
Platen dimensions (upper / lower)	165 mm / 165 mm
Platen surface roughness	≤3.2 µm
Maximum vertical clearance	263 mm
Maximum piston travel	50 mm
Hydraulic system	Automatic dual-stage
Loading rate	50 N/s–2.4 kN/s
Loading rate accuracy	±5%
Pump type	Low-pressure gear / high-pressure radial piston
Motor	1 HP / 0.75 kW, inverter controlled
Power supply	380 V, 50–60 Hz, 3 phase
Rated power	750 W
Hydraulic oil capacity	20 L
Recommended hydraulic oil	Grade 46
Power pack dimensions	360 × 380 × 900 mm
Power pack weight	Approx. 80 kg
Display	800 × 480 pixel colour resistive touchscreen
Analogue channels	2 (load cell / pressure transducer)
Graphical display	Load vs. time / stress vs. time
Data storage	More than 10,000 test results
Connectivity	USB printer support / remote network access
Safety features	Overload protection valve

03 / APPLICABLE STANDARDS

EN 196-1 · EN 459-2 · EN 1015-11 · EN 13454-2 · ASTM C109 · ASTM C348 · ASTM C349 · BS 3892-1 · BS 4551-1

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