

Compression Testing Machine



CRT-CTM250-II

High quality and versatile compression testing machine with certification of a UKAS accredited calibration

The CRT-CTM250-II was developed to perform a variety of compressive strength tests including Duriez, Indirect Tensile Strength and Marshall Stability. A rigid floor-standing test frame with bench-height working surface, twin columns and adjustable height cross-head houses a hydraulic cylinder with a load capacity of up to 300kN. The movement of the cylinder is controlled by custom software with feedback from either the stroke transducer or the load cell fixed to the cross-head. During testing, the machine operator is protected by a safety enclosure.

Standards

- EN 12697-12
- EN 12697-23
- EN 12697-44 (Semi-circular bending beam)
- ASTM D6931
- NF P98-251-1/4 Duriez

Key Features

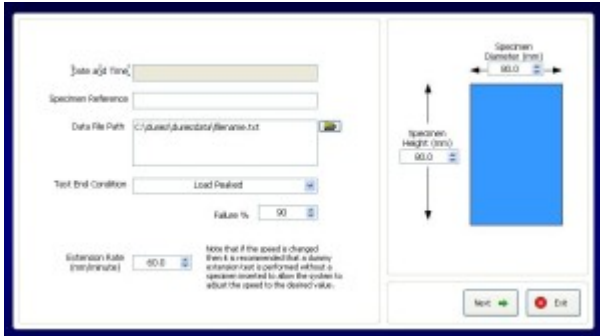
- Highly rigid test frame
- Hydraulic loading under computer control
- Pancake load cell (250kN capacity)
- Innovative quick-release Duriez mould system
- Three position adjustable cross-head height
- Large bench-height working surface
- Can be configured for tensile tests if required
- Includes PC preloaded with test software
- Interlocked safety enclosure with clear polycarbonate door
- Supplied with certification of a UKAS accredited calibration

Key Uses

- Duriez assessment of moisture susceptibility
- Measurement of Tensile Strength in indirect tensile mode
- Measurement of Marshall Stability and Flow
- Various strength tests

Software

- User friendly, intuitive and reliable Windows™ software developed using LabVIEW™
- Software performs compaction, specimen de-moulding and the strength test
- Real time plots of displacement and force are displayed on screen
- The rate of loading is accurately closed-loop controlled by the software
- Displacement and load information are saved to disk during both compaction and the strength test
- Stored test data can be analysed and compared with other test data utilising a spreadsheet package
- Utilities are included for transducer check, diagnostic routines and calibration
- Flexible software with additional options available for non-standard tests



Accessories

Accessories are not included in the price of main device (unless stated otherwise) and may be purchased separately if required.

CRT-LEUTNER	Leutner Test Accessories 100/150mm (CRT-LEUTNER)
CRT-DURM-80	Duriez mould with internal Ø of 80mm
CRT-DURMBT-80	Base and top for 80mm Duriez mould
CRT-DURMS-80	Pair of half-circle spacers for 80mm mould
CRT-DURM-120	Duriez mould with internal Ø of 120mm
CRT-DURMBT-120	Base and top for 120mm Duriez mould
CRT-DURMS-120	Pair of half-circle spacers for 120mm mould
MA0009	Indirect Tensile Testing Head 100/150mm
CRT-CTM-SCB	Semi Circular Beam Bending system to perform EN 12697-44 Crack propagation and tensile strength

Specifications

Technical specifications are subject to change without notice.

Ram Stroke mm	400
Ram speed range	50 to 70 mm/min
Load Cell kN	250
Deformation Transducer mm	400
Clearance Between Columns mm	530
Electrical Supply	3 Phase 415 Volts 50Hz @ 16A (others available)
Dimensions mm (W x D x H)	2100 x 616 x 2111
Working space required mm (W x D x H)	2300 x 1616 x 2300
Estimated Weight Kg	1000
PC	Included

¹ others available upon

Calibration & Maintenance

Calibration, Annual Service and Maintenance Contracts are available for this device. Please enquire for further details. Note: This device should be checked and calibrated annually.