

## Large Roller Compactor - Pneumatic Tyred Roller



### CRT-RCENLD-III

[quote]Optimisation of repeatability and productivity through the automation of human interface [/quote]

Roller compaction is the laboratory method that most closely simulates on-site compaction. The machine can be configured to operate with a single wheel or twin wheels depending on the mould size. The wheels track the surface in overlapping wheel-paths using sequences specified in EN 12697-33 or custom sequences designed by the user. The base of the mould is incrementally raised by a precision jacking system and the system is tracked to keep it level with the top of the mould. Compacted slabs can be from 50 to 150mm thick. 500 x 180mm slabs are usually wheel tracked in the Cooper Technology Large Wheel Tracker, whilst 600 x 400mm slabs are normally cut to produce trapezoidal or prismatic specimens for fatigue, modulus tests and Duriez test.

### Standards

- EN 12697-33 Pneumatic tyred roller
- NF P98-250-2

### Key Features

- Compacts uniform slabs of asphaltic paving mixture
- Computer control for repeatable standard EN 12697-33 compaction patterns
- Option for customer defined compaction patterns to be programmed and saved
- Single or dual wheeled configuration
- Mould size (length x width) 500 x 180mm or 600 x 400mm
- Compacted slabs can be used in the large pneumatic tyred wheel tracker or cut into beams for bending tests
- Safety enclosure with optical laser sensors for user safety, easy access and excellent manoeuvrability
- Issued with UKAS certification of calibration

### Key Uses

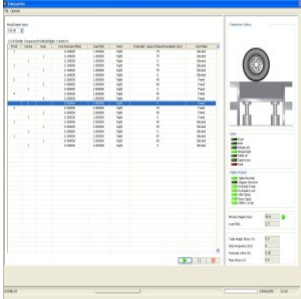
Preparation of homogeneous asphalt slabs:

- Wheel tracking tests
- Sawing into beams for bending tests
- Coring to produce specimens for indirect tensile and axial tests

### Software

- User friendly, intuitive and reliable Windows™ software developed using LabVIEW™
- Software is designed to perform EN 12697-33 (Large Scale Device)

- The user interface can be translated into the user's preferred language - please enquire
- Real time display of current compaction height and diagnostic indicators
- EN compaction routines are included as standard
- User can design and save custom compaction routines



### Accessories

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

CRT-WTRCM-100LD	Mould - 500x180x100mm deep
CRT-WTRCM-50LD	Mould - 500x180x50mm deep
CRT-RCM-150LD	Mould - 600x400x150mm deep
CRT-RCM-100LD	Mould - 600x400x100
CRT-RCLD-600SR	Steel Roller to Level Sample Surface - 600x400mm
CRT-RCLD-500SR	Steel Roller to Level Sample Surface - 500x180mm
CRT-INSERT-50LD	Mould - Insert 500x180x50mm deep
CRT-INSERT-50LD600	Mould - Insert 600x400x50mm deep
CRT-RCENLD-SC600400	Surcharge Collar - 600x400mm
CRT-RCENLD-SC180500	Surcharge Collar - 180x500mm
CRT-WTRCLD-FK	Lifting Trolley for Large Device Roller Compactor
CRT-WTRCLD-ASS (Replacement Part)	Replacement Full Assembly Tyre Wheel Innertube
CRT-WTRCLD-EXT (Replacement Part)	Valve Extender for Tyre for Large Device
CRT-WTRCLD-IREP (Replacement Part)	Replacement Innertube for Large Device
CRT-WTRCLD-TREP (Replacement Part)	Pneumatic Tyre for Large Device
CRT-WTRCLD-WREP (Replacement Part)	Replacement Wheel for Large Device

### Specifications

Technical specifications are subject to change without notice.

Maximum Wheel Load	5kN Single wheel, 10kN Dual wheel
Mould Dimensions	500 x 180, 600 x 400 (others available)
Wheel Speed	200 to 500 mm/s
Slab Thickness	50, 100, 150 mm (others available)
Electrical Supply <sup>1</sup>	3 Phase 415 Volts 50Hz @ 32A (others available)
Compressed Air	7-10 bar @ 100 L/min
Dimension mm (W x D x H)	Compactor 1600 x 1300 x 2150 Power Pack 550 x 600 x 700
Working space required mm (W x D x H)	2600 x 3300 x 2300
Weight (approx.) Kg	1365 (including Power Pack)
PC	Included

<sup>1</sup> 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.

