

## Hydraulic Standard Roller Compactor



### *High quality, precision and reliability guaranteed*

The Roller Compactor is considered to be the method of laboratory specimen compaction that results in slabs of asphaltic paving materials with properties that most closely simulate those of materials in the highway. Slabs can be compacted to target mixture densities using loads that are equivalent to those of full-scale compaction equipment. This compactor is hydraulically powered and controlled by a programmable logic controller (PLC) connected to an HMI (Human Machine Interface), which the operator can use to select the number of passes. A manual pressure control is adjusted to set the required load. The main function of the Compact Steel Roller is to produce slabs for beam fatigue and wheel tracking tests.

### Standard

- EN 12697-33 Steel roller
- ASTM D8079

### Key Features

- Steel wheeled roller segments
- Solid machine frame
- Optional heated head for reducing mixture sticking to roller during compaction
- Compaction head option of 400/320 x 260mm and 400/305 x 305mm slabs
- Slab depth from 40 to 100 mm
- Roller compactor moulds will fit Cooper Technology Wheel trackers so that compacted slabs can be wheel-tracked without de-moulding
- Maximum compaction load of 30kN per 305mm roll width (equivalent to largest on-site static rollers)
- Speed control
- HMI for operator selection of number of passes
- Slabs can be used as wheel-tracking specimens, and cored to make indirect tensile test specimens or cut into beams for the Four Point Bending Test
- Vibrating roller option with adjustable frequency to simulate on-site vibratory rollers
- CE marked

### Key Uses

Preparation of homogeneous asphalt slabs :

- Wheel tracking tests
- Coring to produce specimens for indirect tensile and axial tests
- Four Point Bending Test Beams

### Accessories

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

CRT-RCH2-HH	Heated Head for CRT-RCH2
CRT-RCH2-VIB	Vibration Head for CRT-RCH2
CRT-WTRCM-50	Mould - 305x305x50mm deep
CRT-WTRCM-100	Mould - 305x305x100mm deep
CRT-RCM-50	Mould - 305x400x100mm deep
CRT-RCM-100	Mould - 305x400x100mm deep
CRT-RCM-50MP	Mould - 180x500x50mm deep
CRT-RCM-100MP	Mould - 180x500x100mm deep
CRT-WTIMRCM-50	Mould - 305x305x50mm deep Stainless Steel
CRT-WTIMRCM-100	Mould - 305x305x100mm deep Stainless Steel
CRT-WTIMRCM-26060	Mould - 260x320x60mm deep Stainless Steel
CRT-WTIMRCM-50	Mould - 305x305x50mm deep Stainless Steel
CRT-INSERT-10	Mould - 305x305x10mm deep Stainless Steel
CRT-INSERT-10W	Mould - 305x400x10mm deep Stainless Steel
CRT-RCH2-SC305305	Surcharge Collar 305x305mm
CRT-RCH2-SC305400	Surcharge Collar 305x400mm
CRT-RCH2-SC260320	Surcharge Collar 260x320mm
CRT-RCH2-SC260400	Surcharge Collar 260x400mm

### Specifications

Technical specifications are subject to change without notice.

Maximum Roller Load	30kN over 305 mm roll width
Trolley Travel	±150 mm or ±200 mm
Speed	Variable up to 10 cycles per minute
Slab Thickness mm	40-100
Electrical Supply	220-240 Volts 50 Hz @ 16A (others available)
Dimension mm (W x D x H)	600 x 1450 x 1900
Working space required mm (WxDxH)	1600 x 1700 x 2000
Estimated Weight Kg	558
PC	Not Required

### 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.

Datasheet Version: 19.07/03