

Hydraulic Compact Steel Roller Compactor

CS-RC-H2

ASTM D04-WK34713, ASTM WORK ITEM, EN 12697-33 STEEL ROLLER



Advanced integrated hydraulic control,
precision and reliability guaranteed



INTRODUCTION

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.

The CS-RC-H2 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 CS-RC-H2 is to produce slabs for beam fatigue and wheel tracking tests.

KEY FEATURES

- Steel wheeled roller segments
- Solid machine frame
- Optional heated head for reducing mixture sticking to roller during compaction
- Model for compaction of 320 x 260mm (12.6 x 10.2 inch) and 305 x 400 mm (12 x 15.75 inch) slabs
- Slab depth from 40 to 135 mm (1.6 to 5.3 inch)
- Slabs can be used as wheel-tracking specimens, and cored to make indirect tensile test specimens or cut into beams for 4 Point Bending Test
- Roller Compactor molds will fit Cox & Sons Wheel Trackers so that compacted slabs can be wheel-tracked without de-molding
- Maximum compaction load of 30kN (6750lbf) per 305 mm (12 inch) roll width (equivalent to largest on-site static rollers)
- Speed control
- HMI for operator selection of number of passes
- Vibrating roller option with adjustable frequency to simulate on-site vibratory rollers

SPECIFICATIONS

Maximum Roller Load	30kN (6750lbf) over 305 mm (12inch) roll width
Trolley Travel mm (inch)	±150 (±6) or ±200 (±8)
Speed	Variable up to 10 cycles per minute
Slab Thickness mm (inch)	40-135 (1.6-5.3)
Electrical Supply	CS-RC-H2: 1 Ph 240 V 50 Hz CS-RC-H260: 1 Ph 110 V 60 Hz
Dimension (WxDxH) mm (inch)	600 x 1450 x 1900 (23.6 x 57 x 74.8)
Working Space Required (WxDxH) mm (inch)	1600 x 1700 x 2000 (63 x 67 x 79)
Estimated Weight kg (lb)	270 (600)
PC	Not required

PRE-REQUISITE

CS-WTIM-26050
Stainless Steel molds 320 x260x 50mm (12.6 x 10.2 x 2 inch) deep¹

CS-WTIM-260100
Stainless Steel molds 320 x260x 100mm (12.6 x 10.2 x 4 inch) depth¹

CS-RCM-50W
Steel and aluminum quick release mold for roller compactor or wheel tracker, 305 x 400 x 50 mm (12 x 15.75 x 2 inch) deep¹

CS-RCM-100W
Steel and aluminum quick release mold for roller compactor or wheel tracker, 305 x 400 x 100 mm (12 x 15.75 x 4 inch) deep¹ ¹ Please inquire for any other depths

YOU MAY ALSO NEED...

CS-RC-HH
Heated head option

CS-RC-HVIB
Vibration option to simulate conditions in-situ



Accessories shown on the product pages of this catalog are not included in the price of the main devices (unless stated otherwise) and may be purchased separately if required.



Calibration, Annual Service and Maintenance Contracts are available for most of our equipment. Please email us at info@jamescoxandsons.com to inquire for further details.