

PNEUMATIC/HYDRAULIC ROLLER COMPACTOR QCX-4P/QCX-4H

STANDARD: EN 12697-33 STEEL ROLLER ASTM D8079

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.

There are pneumatic and hydraulic two model. QCX-4P is pneumatic powered and controlled by a programmable logic controller (PLC) connected to an HMI which the operator can use to select the number of passes. QCX-4H is driven by hydraulic system. A manual pressure control is adjusted to set the required load.



FEATURES

- ⊙ Steel wheeled roller segments
- ⊙ Solid machine frame
- ⊙ Roller compactor moulds will fit wheel tracking machine HYCZ-1/5A so that compacted slabs can be wheel-tracked without de-moulding.
- ⊙ Heat and control temperature of the roller to keep the mould warm, avoid thermal shocks, and reduce mixture sticking to roller during compaction.
- ⊙ Simple and quick roller and mould positioning.
- ⊙ Perfect horizontal flatness of the slab surface.
- ⊙ Uniform density and dimensions of the slabs.

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



TECHNICAL PARAMETERS

Size of test mould	300×300×50(100)mm
Rolling and compacting wheel	Radius: 500mm / Width: 300mm
Speed	6 cycles per minute
Trolley Travel	±150 mm
Preheat temperature of rolling wheel	120 °C
Pressure of rolling wheel	300N/cm
Max pressure	20kN
Power	380V 1800W
Dimensions	1800×1200×600mm
Weight	300Kg

