

COMPRESSION TESTING MACHINES

RP 2000 QC/LC – RP 3000 QC/LC – RP 4000 QC/LC

Four-column long-stroke compression testing machines for blocks and cylinders

Standard: EN 12390-4



RP 3000 QC/LC

General Description

The RP QC/LC (Four Column / Long Stroke) compression testing machines have been designed for laboratories performing compression tests on specimens with different heights, such as cylinders, cubes, blocks and paving stones.

The QC/LC frame is equipped with a **200 mm stroke jack**, allowing tests on both blocks and cylinders without handling heavy subplatens. This reduces adjustment time and avoids loss of time when switching from one test configuration to another.

The four-column frame provides high rigidity and allows the use of large platens, with a width of **310 mm on the 2000 kN model** and up to **410 mm on the 3000 kN model**.

Ergonomics and Safety

The machine has been designed to improve operator comfort and productivity:

- ergonomic working height: **> 980 mm**;
- lower platen height: **980 mm on the 2000kN model** and **1050 mm on the 3000kN**;
- transparent enclosure around the test area;
- stainless steel protective side panels;
- rotating stainless steel debris guide slide directing debris into a bucket;
- stainless steel protective door with electric safety switch.

Main Specifications

<i>Specification</i>	<i>RP 2000 QC/LC</i>	<i>RP 3000 QC/LC</i>	<i>RP 4000 QC/LC</i>
<i>Maximum load</i>	2,000 kN	3,000 kN	4,000 kN
<i>Platens</i>	310 x 510 mm or Ø 330 mm	410 x 610 mm or Ø 330 mm	410 x 610 mm
<i>Test chamber height</i>	340 mm	340 mm	340 mm
<i>Jack stroke</i>	200 mm	200 mm	200 mm
<i>Machine height</i>	1,670 mm	1,760 mm	2,100 mm
<i>Weight</i>	1,350 kg	2,315 kg	4,110 kg
<i>Standard</i>	EN 12390-4	EN 12390-4	EN 12390-4



RP 3000 QC/LC

- High-rigidity chassis, **Class 0.5**.
- Designed in accordance with European standards.
- Fully machined four-column chassis.
- Oil-filled ball joint made of treated steel coated with Teflon for improved load distribution.
- Treated steel platens.
- Platen hardness : **≥ 600 HV30**.
- Ergonomic working height: **> 980 mm**.
- Cylinder with low-friction composite seals and bronze guide.
- Mechanical centering device for fast and accurate specimen positioning.
- Stand designed for easy and safe handling by forklift.

Key Benefits

The RP QC/LC series is suitable for laboratories carrying out various compression tests on cylinders, cubes, blocks and paving stones.

Its long-stroke design avoids the use of heavy subplatens, saves time during test preparation, improves cleaning thanks to confined debris, and enhances operator comfort through an ergonomic working height.