

GYROCOMP

QC Gyrotory Compactor

Light and portable, Gyrocomp represents the ideal solution for quality control (QC) and can even be easily installed in mobile laboratories, representing the ideal solution for quality control (QC).

Affordable and efficient, thousands of units are successfully operating all over the world, making it an instrument of choice when it comes to QC gyrotory compaction.

Robust high stiffness steel monocoque structure, it incorporates a pneumatic cylinder for vertical load application. The proprietary "Orbital" gyration and mold rotation system (patent pending) delivers highly accurate and repeatable test results, together with stiffness and angle stability that fall comfortably within the limits defined in EN 12697-31.

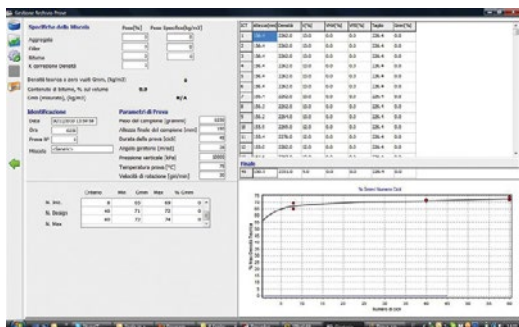
The large user-friendly integrated touch-screen control panel shows the test graph in real time and the interface includes 12 languages and also offers the option to control the tests from a PC.

Change of internal gyrotory angle

The internal gyrotory angle can be changed to any value, between 0.7 and 1.4°, following a factory calibrated conversion scale.

Periodical verification and re-calibration

The Gyrocomp compactors can be easily verified and re-calibrated by the operator, using the ILS Internal angle measurement apparatus model 78-PV0255. This apparatus is verified with traceable (ACCREDIA) calibration instruments.†



Example of single test processing with PC software



Integrated touch-screen control panel including test graphs

Transparent sliding cover

Completely safe and ergonomic design

Optional integrated extruder

Perfect solution for QC and mobile laboratories

Benefits

Approved as Superpave™ Gyrotory Compactor in the U.S.A.

High productivity, design for continuous and heavy use

High rigidity but light weight due to the proprietary Orbital system

Ideal for mobile laboratories

Reliable and accurate

Certified to EN and AASHTO

ACCREDIA Calibration Certificate (Please see note overleaf)†

Integrated touch-screen control panel with large display

Sliding transparent door

Full safety and ergonomic design

Integrated electromechanical extruder option

2 years full warranty

Testing Standards

EN 12697-10 | EN 12697-31 | ASTM D6925 |

AASHTO T312 (TP4) | SHRP* M002 | AS 2891.2.2

*Strategic Highway Research Program

Specifications

Sample size:	150 and 100 mm dia.	Speed of gyration:	20 to 60 rpm
Sample height:	80 to 200 mm (150 mm) 50 to 125 mm (100 mm)	Number of gyrations:	up to 999
Consolidation pressure:	80 to 800 kPa (150 mm) 160 to 1,400 kPa (100 mm)	Test termination:	Number of gyrations Specimen height
Internal angle of gyration:	0.70 to 1.40 °	Communication with PC:	RS 232 connections
ASTM/AASHTO (78-PV2522)	1.16° internal angle preset	Internal memory:	Thousands of tests
EN models (78-PV2522/E)	0.82° internal angle preset	Power rating:	1,000 W
ACCREDIA Calibration Certificate: †	Included	Dimensions with extruder:	1,940 x 502 x 753 mm (H x W x D)
		Weight:	145 kg
		Dimensions w/o extruder:	1,130 x 469 x 615 mm (H x W x D)
		Weight:	100 kg approx.

Main system ordering Information

ACCESSORIES INCLUDED

Gyrocomp is supplied complete with height calibration tool, PC software, air hose, operating instructions and calibration certificate.

Two versions available:

78-PV2522 Gyrocomp gyratory compactor, AASHTO T312/ASTM D6925 factory preset internal angle 1.16°, 230-110 V, 50-60 Hz, 1 ph

78-PV2522/E Gyrocomp gyratory compactor, EN 12697-31 C factory preset internal angle 0.82°, 230-110 V, 50-60 Hz, 1 ph

INTEGRATED WORKTOP WITH EXTRUDER

Ergonomic solution incorporating a speed reducer that is also suitable for cold mix specimens.

78-PV2520/15 Integrated extruder. 230 V, 50-60 Hz, 1 ph

78-PV2520/15 Integrated extruder. 110 V, 60 Hz, 1 ph



NOTES

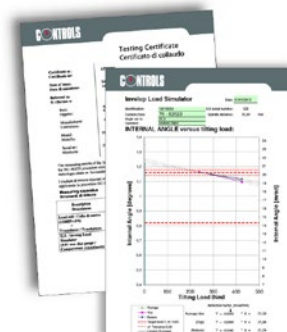
- Both models comply to EN 12697-10, EN 12697-31, ASTM D6925, AASHTO T312 and SHRP M-002. Therefore, it is possible to convert from one angle to another.
- EN models comply with all the parameters required in EN 12697-31 Annex C (stability, parallelism and full rotation factors).
- Cylinder molds, distance plates and air compressor are not included, please see overleaf.

† ACCREDIA CALIBRATION CERTIFICATE

- Gyrocomps are supplied with ACCREDIA traceable certificates of load, displacement and internal angle.
- CONTROLS S.p.A. is accredited as Calibration Centre LAT 092 for the calibration and verification of force transfer on compression machines in accordance to EN 12390-4:2000 and EN-ISO7500-1:2018.
- ACCREDIA is a signatory of the ILAC-MRA (International Laboratory Accreditation Cooperation – Mutual Recognition Arrangement), meaning calibration certificates with the ACCREDIA mark are recognized and valid worldwide.
- The accreditation bodies that are signatories to the ILAC MRA for the relevant accreditation activities will accept the results of each other's accredited laboratories and inspection bodies and programs provided by PTPs (Proficiency Testing Providers).



Gyrocomp installed in a van as a road mobile laboratory



All our Gyrocomps are verified and calibrated with the ILS apparatus.

Ordering Information

Accessories

CYLINDER MOLDS WITH TOP AND BOTTOM PLATES

- 78-PV0250/2** 150 mm diameter
- 78-PV0250/5** 100 mm diameter
- 78-PV0250/8** Perforated, 100 mm diameter
- 78-PV0250/10** Perforated, 150 mm diameter

DISTANCE PLATES

- 78-PV0250/3** 150 mm diameter, 50 mm high, for preparing short samples.
- 78-PV0250/6** 150 mm diameter, 50 mm high, for preparing short samples.

COMPACTING ACCESSORIES

- 78-PV0250/4** 100mm diameter specimen platens, including 100mm height calibration device.
- 78-PV0250/11** Vertical force indicator complete with 25 kN load cell, baser, spherical seat, load readout unit and calibration certificate.

INTEGRATED WORKTOP WITH EXTRUDER

Ergonomic solution incorporating a speed reducer that is also suitable for cold mix specimens.

- 78-PV2520/15** Integrated extruder. 230 V, 50-60 Hz, 1 ph
- 78-PV2520/15** Integrated extruder. 110 V, 60 Hz, 1 ph

AIR COMPRESSOR

- 78-PV0250/7** Low noise air compressor. 230 V, 50 Hz
- 78-PV0250/7Y** Low noise air compressor. 220 V, 60 Hz
- 78-PV0250/7Z** Low noise air compressor. 110 V, 60 Hz

INTERNAL ANGLE MEASUREMENT APPARATUS

78-PV0255 ILS Internal angle measurement apparatus. Please refer to page 361 of CONTROLS Group's General Catalog for more information.



78-PV0250/6, 76-PV0250/5, 78-PV0250/4, 78-PV0250/3, 78-PV0250/2



78-PV0250/10
Perforated mold, 150mm dia.
for bituminous emulsion
cold mix compaction



Integrated worktop with electromechanical extruder option
78-PV2520/15



All our Gyrotory compactors are verified and calibrated with 78-PV0255 ILS apparatus.

► IPC Global Customer Care

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