

AFG2 SUPERPAVE™ Gyrotory Compactor

Fast Take

- Programmable angle of gyration
- Operate at internal or external angle
- Shear instrumentation (optional)
- Network compatible plus USB data ports
- 180mm Tall Performance Test Samples
- Built-in specimen extruder
- AASHTO T312, ASTM D6925, EN12697-31

Looks like an AFG1

The AFG2 is our next generation gyrotory compactor. In this update of the dependable AFG1 compactor, we have incorporated features that today's mix design laboratories need in a gyrotory compactor while retaining the reliable performance of the AFG1. Operation is much like the AFG1 and the AFG2 uses the same molds.

Programmable Angle of Gyration

The AFG2 can operate using either an internal or external angle of gyration over a range of 0.0° to 1.50° by simply entering the desired angle. This permits the use of the compactor over various angle specifications without recalibration and ensures the compactor will be fully capable of meeting future requirements.

Shear Instrumentation (optional)

The AFG2 can be equipped with load-cells to measure the force required to gyrate the specimen. This is typically referred to as gyrotory shear. PinePave Excel templates are provided to graph the data as tilting moment (N-m) or gyrotory shear (kPa) vs. gyration and shear (kPa) vs. % air-voids. The shear measurement instrumentation and internal angle of gyration are standardized using Pine's AFLS1 internal angle measurement kit.

Designed for various tasks

The AFG2 is compatible with the compaction of soils and emulsion based mixes with protective covers over sensitive components. The AFG2 can be programmed to compact to number of gyrations, specified height, or to a

specified change in height per gyration, sometimes referred to as locking point.

Performance Test Specimens

The AFG2 has been designed to compact the tall specimens needed for performance testing. AFG2 users have reported compacting 200 mm tall specimens.

Complete Data Management

The AFG2 is network compatible. The gyration number, specimen height, angle, pressure, and shear moment (optional) are all measured and stored during the compaction process. Test data can be saved to a USB memory stick, printed directly with the optional printer kit, or accessed and printed through an ethernet connection to a computer network or standalone computer. For convenience, data for 20 tests are also stored on the AFG2.



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PINE Instrument
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AFG2 SUPERPAVE™ Gyrotory Compactor

Model AFG2 Specifications:

Power Requirements:	AFG2A(S): 115 VAC(±10%), 12Amp, 50/60 Hz, 1 ph AFG2C(S): 230 VAC(±10%), 6 Amp, 50/60 Hz, 1 ph
Dimensions:	875 mm wide x 900 mm deep x 1375 mm high (~34.5 inch x ~35.5 inch x ~54 inch)
Weight:	Approx. 400 kg (880 lb)
Applied Pressure:	200 kPa - 1000 kPa
Angle of Gyration:	0.0° - 1.50° (0 - 26.18 mrad) Selectable to Internal <u>or</u> External
Speed of Gyration:	30 ±0.5 gyrations per minute
Number of Gyration:	0-999
Mold Dimensions:	150.0mm +0.0/-0.1 mm ID x 250 mm tall 100.0mm +0.0/-0.1mm ID x 200 mm tall 101.6mm +0.0/-0.1mm (4") ID x 200 mm tall 0.0 mm minimum specimen height
Mode of Operation:	Compact to Number of Gyration Compact to Specified Height Compact to Locking Point Internal <u>or</u> External Angle of Gyration
Data Acquisition:	Gyration Number Specimen height (mm) Angle of gyration (degrees) Consolidation pressure (kPa) Gyrotory Tilting Moment (N-m) (with optional shear)
Data Output Options:	(2) USB Data Ports Network compatible or Stand Alone Computer (with option cable) USB Dot-Matrix Printer Kit (optional)
Additional Features:	Built-in extruder function
Internal Data Storage:	Results from twenty (20) tests are retained in memory
Software:	PINEPAVE™ software (requires <i>Microsoft™ Excel™ 2003 or later</i>)

* These specifications are subject to change without notice. 073010 *

The Pine Instrument Company AFG2 Superpave Gyrotory Compactor may be protected by one or more of the following U.S. Patents: #5,546,118; #5,606,133; #5,817,946; #5,824,913; #6,026,692; #6,622,569; #6,889,558

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