

AFG2AS SUPERPAVE™ Gyrotory Compactor

Fast Take

- Programmable angle of gyration
- Operate at internal or external angle
- Shear measurement instrumentation
- USB data ports
- Programmable test parameters
- Compact SPT samples
- Built in extrusion of specimen

Looks like an AFG1

The AFG2AS 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 such as programmable angle of gyration and shear measurement instrumentation. Operation is much like the AFG1.

Programmable Angle of Gyration

The AFG2AS can operate using either an internal or external mold angle. The angle can be changed without recalibration over a range of 0.50° to 1.50°. This permits the use of the compactor over various angle specifications and ensures the compactor will be capable for future requirements.

Shear Measurement Instrumentation

The AFG2AS is equipped with load-cells to measure the force required to gyrate the specimen. This is typically referred to as gyrotory shear. PinePave Excel templates aid in graphing 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 the AFLS1 internal angle measurement kit.

Designed for various tasks

The AFG2AS has protective covers over sensitive components permit the compaction of soils or emulsion based mixes.

Superpave Performance Test (SPT)

The AFG2AS has been designed to compact the tall specimen needed for SPT testing. Users have report compacting 200 mm tall specimens therefore achieving the 170 mm specimen height does not present users with difficulties.

Complete Data Management

The gyration number, specimen height, angle, pressure, and shear moment are all measured and stored during the compaction process. Test data can be saved to a USB memory stick or printed directly with the optional printer kit. Data for 20 tests are also stored on the AFG2AS to aid in the prevention of lost data.



Molds

The AFG2AS uses the same mold assemblies as the AFG1. Specimen diameters of 150 mm or 100 mm are possible.

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PINE Instrument
Company

AFG2AS SUPERPAVE™ Gyrotory Compactor

Model AFG2AS Specifications:

Power Requirements:	AFG2AS: 115 VAC(±10%), 12Amp, 50/60 Hz, 1 ph AFG2CS: 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:	Minimum: 200 kPa - 1000 kPa ±60 kPa gyration 0-5; ±10 kPa gyrations >6
Angle of Gyration:	8.73- 26.18 mrad (0.50° - 1.50°) Selectable to Internal or External
Speed of Gyration:	30 ±0.5 gyrations per minute (gpm)
Number of Gyrations:	0-999
Mold Dimensions:	150.0mm +0.0/-0.1 mm ID x 250 mm tall 100.0 +0.0/-0.1mm ID x 200 mm tall 0.0 mm minimum specimen height
Mode of Operation:	Compact to Number of Gyrations 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) (Shear)
Data Output Options:	(2) USB Data Ports 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. *
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