

AFG1 SUPERPAVE™ Gyrotory Compactor

Fast Take

- Easy to use
- Built in specimen extruder
- Rugged reliable performance
- RS232 and floppy disk data transfer
- 180mm Tall Performance Test Samples
- AASHTO T312, ASTM D6925, EN12697-31

Reliability you can count on

The AFG1 has proven itself to be a dependable piece of equipment and is our most popular SGC model. Designed with a minimum of wear items, you count on years of dependable service. For design or QC/QA applications, you can rely on the AFG1 to get the work done.

Angle of Gyration

The AFG1 measures and records the angle of gyration with an integrated angle measurement system. This system monitors and reports the angle throughout compaction, saving and displaying the angle along with the gyration number, specimen height, and consolidation pressure. While the AFG1 is a fixed angle compactor, it can be configured to meet internal or external angle specifications. The fixed angle design ensures the angle stays where it is set.

Performance Test Specimens

The AFG1 was been designed to meet the needs of the asphalt industry. Compacting the 180mm tall specimens needed for performance testing poses no problem for this compactor in service long before such a need was established.

Easy Operation

The AFG1 is easy to operate retaining the testing parameters even when turned off. Fill the mold, slide it into the compaction chamber and engage the mold clamps, secure the mold top, then press start. Don't forget your release papers. When compaction is complete, remove the mold top and press the ram up button to extrude the specimen. Even

the tender and tall performance test specimens create few problems. Simply extrude the tall specimen partially from the mold and let it cool a few moments before extruding completely from the mold. This short delay rarely causes equipment availability issues.

Data Management

For Convenience, the AFG1 stores the results of 20 tests. Test files include for each gyration the gyration number, specimen height, angle, and consolidation pressure. The data may be saved to a floppy disk, transferred through the serial communication connection, or printed directly through the parallel printer port.



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PINE Instrument
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Model AFG1 Specifications:

Power Requirements:	AFG1A: 115 VAC(±10%), 12Amp, 60 Hz, 1 ph AFG1C: 220 VAC(±10%), 6 Amp, 50/60 Hz, 1 ph
Dimensions:	750 mm wide x 920 mm deep x 1400 mm high (~29.5 inch x ~36 inch x ~55 inch)
Weight:	Approx. 386 kg (850 lb)
Applied Pressure:	600 kPa
Angle of Gyration:	0.82° Internal; 1.16° Internal, or 1.25° External Specify at time of order.
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 (internal height) 100.0mm +0.0/-0.1mm ID x 200 mm tall (internal height) 0.0 mm minimum specimen height
Mode of Operation:	Compact to Number of Gyration Compact to Specified Height
Data Acquisition:	Gyration Number Specimen height (mm) Angle of gyration (degrees) Consolidation pressure (kPa)
Data Output Options:	3.5" Floppy Disk rs232 Serial Communication Parallel Printer Port (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. 061509 *

The Pine Instrument Company AFG1 Superpave Gyrotory Compactor may be protect 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.