

# BUILT TO LAST

**Producing reliable asphalt testing equipment for over 50 years**

Pine Instrument Company set the standard for the design and manufacture of asphalt testing equipment. Our Marshall products produced in the 1960s are still in use today. Our original Superpave gyratory compactors continue to operate reliably and efficiently even after 20 years of service.

Pine products have withstood the test of time. Pine gyratory compactors are known for their durability and reliability. When a problem does arise, Pine does whatever it takes to get our customer back up and running.

Pine currently manufactures the AFG2 and the AFGB1. Each compactor complies with AASHTO T 312 and ASTM D 6925.

Since 1962 asphalt producers, paving contractors, highway departments and the Federal Highway Administration have counted on Pine. That's a trust we never take for granted.



## **AFG2 Gyratory Compactor**

Easy-to-Use Controls

Built-in Extruder

Send Data to Printer, Computer or Flash Drive

Makes Tall AMPT Specimens

Optional Shear Instrumentation

Optional Cooling Door for Rubber Mixes



## **AFGB1 Gyratory Compactor**

Easy-to-Use Controls

Built-in Extruder

Send Data to Printer, Computer or Flash Drive

Lightweight for Easy Transportation (304lbs)



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***When Your Asphalt's on the Line  
Count on Pine!***

# AFG2 SUPERPAVE™ Gyratory Compactor

## Meets the Required Standards

The AFG2 is designed to compact asphalt specimens at a constant consolidation pressure, a constant angle of gyration, and a fixed speed of gyration in compliance with AASHTO T 312 and ASTM D 6925.

## A User-Friendly Control Panel

Enter test settings and control all machine functions with Pine's trustworthy and simple user interface.

## Manage Data with Ease

Directly print the test data or save it directly to a computer or a USB flash drive.

## Make Performance Test Specimens

The Hamburg wheel test uses standard gyratory specimens. The AMPT requires "tall" specimens. Users have reported compacting specimens up to 200 mm tall.

## Accommodate Ground Tire Rubber

An optional cooling door to reduce specimen cooling time and a specimen squaring function to resist specimen expansion address some of the nuances of ground tire rubber in HMA.

## A Built-In Extruder

Minimizing the need to lift hot, heavy molds helps keep lab technicians safe at work.

## Alternative Applications

The AFG2 is compatible with the compaction of soils, emulsion-based mixes, and roller compacted concrete by providing protective covers over sensitive components.

## Shear Instrumentation (optional)

Gyratory shear is a research topic that may provide insight into the workability and compactability of a mix, which provides insight into the ease with which a mix is placed.

## Specifications

Power: 115 VAC, 12 A, 50/60 Hz, 1 ph  
230 VAC, 6 A, 50/60 Hz, 1 ph

### Dimensions:

34.5 in W x 35.5 in D x 54 in H

Weight: Approximately 880 lb

Applied Pressure: 200 – 999 kPa

Angle of Gyration: 0.0 – 1.50°

Speed of Gyration: 30 ±0.5 gpm

Number of Gyration: 0 – 999

### Mold Dimensions:

ID = 150 mm, 100 mm, & 4 in

All molds 250 mm tall

Operation Modes: Number of Gyration, Specified Height,  
Internal or External Angle

# AFGB1 SUPERPAVE™ Gyratory Compactor

## Meets the Required Standards

The AFGB1 compacts asphalt specimens at a constant consolidation pressure, a constant angle of gyration, and a fixed speed of gyration in compliance with AASHTO T 312 and ASTM D 6925.

## Transport with Ease

The portability of the machine (304 lbs.) readily meets the needs for mobile labs and on-site testing requirements.

## Operate with Ease

Enter the compaction parameters, place a prepared mold into the machine, secure the gyratory head, and press Start. Allow the machine to compact the material as directed. Open the compaction chamber and extrude the specimen with the hydraulic ram used to compact the specimen.

## Manage Data with Ease (New Features)

The new AFGB1 makes keeping test records and providing them to agencies in the desired format easier. A USB port allows for the automatic saving of height data and the transfer of stored test data to a flash drive. A PCL printer port provides for printing test data on a PCL laser printer. And, the original data management features of internal data storage for 10 tests, an RS232 serial port, and a narrow format thermal printer are still available as well.

## A Built-In Extruder

Minimizing the need to lift hot, heavy molds helps keep lab technicians safe at work.

## Specifications

Power: 115 VAC, 15 A, 60 Hz, 1 ph  
230 VAC, 10 A, 50/60 Hz, 1 ph

### Dimensions:

30.0 in W x 21.3 in D x 55.4 in H

Weight: Approximately 304 lb

Applied Pressure: 300 – 600 kPa

Angle of Gyration: 0.82 or 1.16° internal or 1.25° external  
(factory set)

Speed of Gyration: 30 ±0.5 gpm

Number of Gyration: 0 – 299

### Mold Dimensions:

150 mm ID x 280 mm tall

(215 mm internal height)

Operation Modes: Number of Gyration  
Specified Height

