

## Troxler Gyrotory Compactor Equipment Description

Equipment ID: \_\_\_\_\_  
Manufacturer: \_\_\_\_\_  
Model #: \_\_\_\_\_  
Serial #: \_\_\_\_\_  
Storage Location: \_\_\_\_\_

Description: An electrohydraulic or electromechanical compactor with a ram and ram heads that are restrained from revolving during compaction. The axis of the ram shall be perpendicular to the platen of the compactor. The ram shall apply & maintain a pressure of 600+/-18kPa perpendicular to the cylindrical axis of the specimen during compaction. The compactor shall tilt specimen molds at an angle of 1.16+/-0.02 degrees and gyrate specimen molds at a rate of 30.0+/-0.5 gyrations per minute throughout compaction. The compactor shall be designed to permit the specimen mold to revolve freely on its tilted axis during gyration. The compactor shall employ a means of continuously measuring and recording the height of the specimen to the nearest 0.1mm during compaction once per gyration. (i.e., a printer or computer software.)

Primary Purpose: Used in compaction of laboratory HMA samples

Calibration Item: Verify/Calibrate angle, gyration speed, pressure, and height measurement

Calibration Procedure: See manufacturer's instructions.  
Instructions are located in Office 213 as well as in the blue folder next to the Troxler gyrotory compactor.

Specified Tolerance:	<u>Item</u>	<u>Tolerance</u>
	Angle	1.16+/-0.02 degrees
	Speed	30.0+/-0.5 gyrations per minute
	Pressure	600+/-18 kPa
	Height	nearest 0.1 mm

Calibration Equipment: Troxler gyrotory compactor calibration kit.  
Height Calibration Puck, Timer, Angle Jig, Proving Ring, etc.

Calibration Interval: 6 months

Specifications: AASHTO T-312