



Gyratory Compactor Comparison

Specification	HM-685 Superpave Gyratory Compactor	HM-687 Brovold Gyratory Compactor
Number of Gyrations	0—999	0—299
Speed of Gyrations	30 $\pm$ 0.5 gpm	20—40 gpm (adjustable) / 30 $\pm$ 0.5gpm (factory set)
Compaction Force	200—999 kPa	300—600 kPa
Angle of Gyration	0.00—1.50° Selectable Internal / External	1.16° $\pm$ 0.02° Internal, 1.25° $\pm$ 0.02° External
Mold Dimensions	150 x 250mm and 100 x 250mm, Dia. x H	150 x 280mm, Dia. x H
Specimen Height	0.0—200mm	10.0—200.0mm
Communication Port(s)	(2) USB ports and RJ45 Ethernet connector	Serial port, USB Port and Visual Display
Extruder	Built-in	Built-in
Gyratory Shear	Factory-installed in Model HM-685S	Not Available
Compaction Modes	Number of Gyrations, Height and Locking Point	Number of Gyrations and Height
System	Electromechanical	Electrohydraulic
Data Acquisition	Gyration Number, Specimen Height, Angle of Gyration, Pressure, & Gyratory Shear (Optional)	Specimen Height, Pressure and External Angle of Gyration
Program Memory	Data for Last 20 Tests	• Height retained for Last 10 Tests • Height, Pressure, and Angle retained for Last Test Only
Power Requirements	115V / 50/60Hz, 12 Amp, 1 ph or 230V / 50/60Hz, 6 Amp, 1 ph	115V / 60Hz, 15 Amp, 1 ph or 230V / 50/60Hz, 10 Amp, 1 ph
Net Weight	850lb (396kg)	304lb (138kg)
Product Dimensions	34.5 x 35.5 x 54in (875 x 900 x 1,375mm) WxDxH	30.0 x 21.3 x 55.4in (762 x 541 x 1,407mm) WxDxH