

AUTOMATIC COMPACTOR FOR BITUMIN MIXES

BE 84

An Automatic Compactor for Bituminous Mixes is a laboratory testing device used in civil engineering and materials science to prepare uniform asphalt (bituminous) samples for quality control and performance testing. It simulates the compaction process of road paving, replacing manual labor with automated, repeatable drops of a hammer (rammer) to achieve consistent density and eliminate variability in specimen preparation. This equipment is essential for standards like ASTM D6926/D6927 (Marshall Method) and is widely used in mix design, stability, and flow testing of hot mix asphalt (HMA).

Compacts bituminous mixtures into cylindrical molds (typically 4-inch or 6-inch diameter) to create test specimens for evaluating properties like voids in mineral aggregate (VMA), air voids, stability, and flow resistance. It ensures even compaction, which is critical for accurate test results, as factors like compactive energy directly impact mixture properties such as density and durability

FOLLOWING STANDARD

ASTM D6926/D6927, ASTM - D5581:1996, EN 12697-30

DISCRIPTION

FEATURE	DETAILS
Hammer Weight	4.5 kg (Normal Marshall) 10.2 kg (Modified Marshall)
Drop Height	457 mm (Normal Marshall) 475 mm (Modified Marshall)
Mold Compatibility	4" or 6" diameter (102 mm or 152 mm)
Blows per Test	Programmable (35–75 per layer)
Counter	Digital automatic with auto-stop
Base Pedestal	300 mm x 300 mm steel plate on oak block

