

BITUMIN MIXER WITH HEATING JACKET

BE 85

A **bitumen mixer with heating jacket** (often referred to as an asphalt or bituminous mixer) is specialized laboratory equipment designed for preparing homogeneous samples of bituminous mixtures. It's commonly used in civil engineering, road construction, and materials testing labs to blend bitumen (asphalt) with aggregates, ensuring uniform coating at controlled temperatures. The 5-liter capacity makes it ideal for small-batch testing, such as Marshall Stability tests (ASTM D6927 or EN 12697-35 standards), where the mix must be heated to reduce viscosity without degrading aggregates.

The heating jacket (typically an electric or thermostatically controlled mantle) surrounds the mixing bowl, allowing precise temperature regulation (e.g., 140–180°C for bitumen). This prevents overheating and ensures consistent results. These mixers feature planetary or epicyclical motion for thorough blending, with stainless steel components for durability and corrosion resistance.

FOLLOWING STANDARD

ASTM D6927 or EN 12697-35

DISCRIPTION

FEATURE	DETAILS
Capacity	5 liters (stainless steel bowl with handle for easy removal and cleaning)
Mixing Mechanism	planetary and revolving motion via stainless steel paddles/beaters; 2–3 speeds (e.g., low: 140 ± 5 RPM, medium: 285 ± 10 RPM)
Heating System	500W electric heating jacket with energy regulator or digital thermostat for uniform heating; compatible with ISO Mantle for asphalt samples
Power	230V AC, single-phase electric motor (0.5–1 HP)

