

ASPHALT MANAGER WITH HIGH EFFICIENT COMPACTION SYSTEM FOR BETTER ROADS

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ABSTRACT

Conventional vibratory rollers develop their compaction energy using exciter systems with fixed amplitudes to handle different soil and asphalt conditions. Heavy models with a dead weight of 6 t or more offer a choice of two amplitudes, enabling the roller operator to adapt the roller approximately to the requirements of thin or thick layers or to easy or difficult to compact materials.

With the launch of the Asphalt Manager System for vibratory tandem rollers at BAUMA 2001 in Munich BOMAG has achieved a significant technology advance. Asphalt Manager rollers enable the automatical adaption of the compaction amplitude to the actual operation conditions, which supports the operator to increase productivity of the roller and improve compaction quality. The Asphalt Manager is also equipped with a new method of roller integrated measurement system to provide an assessment during the compaction process by determination of the vibration modulus EVIB (MN/m²).

KEY WORDS: Asphalt Manager, Compaction control asphalt compaction, dynamic asphalt stiffness, GPS on road and airport construction