

Intelligent Asphalt Mix Tester (*Turamesin*)

Award Winner



Testing of asphalt materials is an expensive business. On an average approximately RM 3 million is invested in equipments that are necessary to determine the properties of asphalt mixtures.

The new cost effective equipment developed at UPM however is capable of measuring several properties such as stability, density, resilient modulus, and creep compliance of asphalt and soil mixtures automatically as they are roller compacted. The mix properties are automatically captured via pressure sensors and thermocouples embedded in the deck and analyzed with built-in software.

This new device is expected to be relatively inexpensive. A new Malaysian standard can be developed to determine the density and other asphalt mixture parameters using this piece of newly invented equipment.

The equipment is patent-pending under Malaysian Patent registration number PI 20031422, and has a great potential for commercialisation.



TURAMESIN



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