

**B038AM**

**SMARTRACKER™**

**MULTI WHEELS HAMBURG WHEEL TRACKER;** TEST ENVIRONMENT: DRY AND WET

STANDARDS: EN 12697-22 | AASHTO T-324 | BS 598:110

PATENT No: US 9, 964, 471

ITTECH

**CYBER  
PLUS  
PROGRESS**

**PATENTED**



**B038AM**

**THE N° 1 UNIT IN U.S. MARKET**

#### MAIN FEATURES

- Meets and exceeds AASHTO, BS and EN Standards.
- Simultaneous testing of wet and dry samples.
- Independent motors for each wheel assure separate rutting analysis of each specimen.
- Wheels retract automatically.
- Sturdy machine, designed for the rugged construction laboratory environment.
- Sliding sample positioning mechanism for easy mould handling and placement in the machine.
- Cyber Plus Progress technology allow to apply a load with a perfect sinusoidal wave in accordance with AASHTO T-324.
- Fully Automatic machine. Detects and stops the test when the target rut depth is reached.
- Touch-screen control unit and new icons for a modern and user friendly approach.
- Each of the two wheel assemblies is equipped with displacement transducers for rut measurement.
- Mechanical recirculating water bath for temperature control within  $\pm 1$  °C.
- Easy to load, unload, drain water and clean the unit after each test.
- Compact design to accommodate small construction labs and make maintenance easier.
- Covered by US Patent.

## B038AM SMARTRACKER™

### MULTI WHEELS HAMBURG WHEEL TRACKER - **PATENTED**

STANDARDS: EN 12697-22 | AASHTO T-324 | BS 598:110

Meet the Matest model Smartracker™ – a revolutionary wheel tracking device that not only determines Hot Mix Asphalt (HMA) resistance to rutting, stripping, and moisture sensitivity but also pioneers sustainable testing practices. This intelligently designed machine, exceeding EN, BS and AASHTO standards, stands as the most versatile wheel tracker on the market.

Smartracker's independent motors for each wheel, ensuring separate rutting analysis of each specimen. This enables simultaneous wet and dry tests on both wheels, significantly saving time and reducing water consumption.

An exceptional feature of Smartracker™ is its ability to simulate tire movement on asphalt pavement, providing unparalleled accuracy in test results. This not only enhances tyre performance analysis but also signifies a commitment to developing technologies that replicate real-world driving conditions.

Equipped with the latest Cyber Plus Progress technology, Smartracker™ controls wheel movement to obtain a perfect sinusoidal wave. This state-of-the-art machine determines creep slope, stripping inflexion point, and mean wheel-tracking slope with unparalleled accuracy.

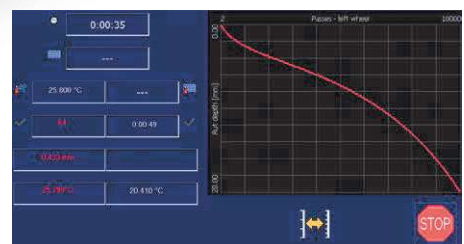
MATEST SmarTracker™ has been developed by our R&D engineers and scientific in association with some of the most experienced and reputable industry experts in the USA and the world.



Unique system to Load-unload the mould



Innovative wheels roll off Mechanism (patented)



Real time results plot of the rut depth along with the no. of passes.



TABLE OF ACCESSORIES TO PERFORM DRY (AIR) AND WET (WATER) TEST FOLLOWING - EN 12697-22 AND AASHTO T324 SPECIFICATIONS

Standards	EN 12697-22		AASHTO T324	
Testing mode	Dry (air)	Wet (water)	Wet (water)	* Dry (air)
	2x <b>B038A-01</b> Rubber wheel	2x <b>B038A-01</b> Rubber wheel	2x <b>B038A-02</b> Steel wheel	2x <b>B038A-02</b> Steel wheel
	2x <b>B038A-11</b> EN Mould	2x <b>B038A-11</b> EN Mould	2x <b>B038AM-06</b> Probe (optional)	2x <b>B038A-10</b> or 2x <b>B038A-11</b> Mould
	2x <b>B038A-12</b>	2x <b>B038A-12</b>	FOR CYLINDRICAL SPECIMENS:	2x <b>B038A-03</b> Support for AASHTO Mould
	2x <b>B038A-13</b> Adaptors	2x <b>B038A-13</b> Adaptors	2x <b>B038A-10</b> AASHTO Mould	2x <b>B038A-12</b> + 2x <b>B038A-13</b> Adaptors
	1x <b>B038A-05N</b> Air heating	2x <b>B038AM-06</b> Probe (optional)	2x <b>B038A-03</b> Support for AASHTO Mould	1x <b>B038A-05N</b> Air heating
	2x <b>B038AM-06</b> Probe (optional)		2x <b>B038A-10D</b> Adaptors	2x <b>B038AM-06</b> Probe (optional)
			FOR SLAB SPECIMENS:	
			2x <b>B038A-11</b> Mould	
			2x <b>B038A-12+B038A-13</b> Adaptors	

**B038A-01**

Rubber wheel for  
EN 12697-22

**B038A-13** Horizontal adaptors for EN moulds

 **Note:** \*AASHTO T324 does not require air test.

**B038A-11** EN mould**B038A-02**  
Steel wheel for AASHTO T324**NEEDED ACCESSORIES****EN 12697-22****B038A-01** RUBBER WHEEL Ø 203x50 mm**B038A-11** EN MOULD 400x305x120 mm**B038A-12** SET OF VERTICAL ADAPTORS for EN mould to allow the positioning of specimens lower than 120 mm (up to a minimum specimen thickness of 20 mm)**B038A-13** SET OF HORIZONTAL ADAPTORS for EN mould to allow the positioning of specimens 260x320 mm and 305x305 mm**AASHTO T324****B038A-02** STEEL WHEEL Ø 203x47 mm**B038A-10** AASHTO MOULD (2 cylinders Ø 150x60 mm)**B038A-03** TOOL for AASHTO positioning

or

**B038A-07** STAINLESS STEEL SUPPORT for AASHTO positioning**B038A-10D** VERTICAL ADAPTORS for AASHTO mould to allow the positioning of specimens with a thickness of 40 mm**BS 598:110 | AG:PT/T231****B038A-08** Rubber wheel Ø 203x50 mm to BS 598:110 and Australian AG:PT/T231 Spec.**B038A-10SP** BS mould (one cylinder Ø 200x60 mm)**B038A-03** or **B038A-07** for positioning.**B038A-10**

AASHTO mould

**B038A-14****OPTIONAL ACCESSORIES****B038A-04** ELECTROVALVE group for hot water**B038A-05N** AIR HEATING SYSTEM for air conditioning test EN 12697-22**B038AM-06** PROBE for specimen's temperature determination**B038A-09** HPDE mould specimen holder.**B038A-14** VERIFICATION KIT for the calibration of the wheel load. The device is composed of a support block with a calibrated load cell and complete with a digital readout. Max. load 1000 N, accuracy 0.05%.**B038A-16** SOFTWARE HWT-Report to AASHTO T324**B038A-20** HWT-Pro Calibration and diagnostics Device for Smartracker.