



**B038AM  
SMARTRACKER™**

**MULTI WHEELS HAMBURG WHEEL TRACKER - PATENTED**

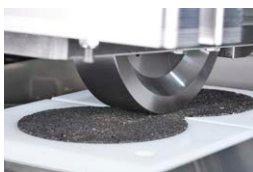
STANDARDS: EN 12697-22 | AASHTO T-324



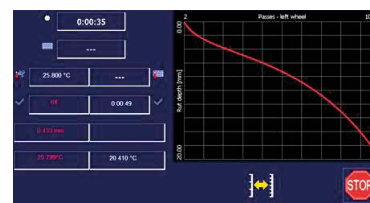
The Hamburg wheel tracking device can be used to determine the resistance of Hot Mix Asphalt (HMA) to rutting and moisture sensitivity. Matest model “**SmarTracker™**” meets and exceeds EN and AASHTO. The most versatile wheel tracker on the market has independent motors for each wheel which assure separate rutting analysis of each specimen.

**Now you can perform wet or dry test with both wheels or run one wheel under dry and one wheel under wet condition simultaneously during a single test.**

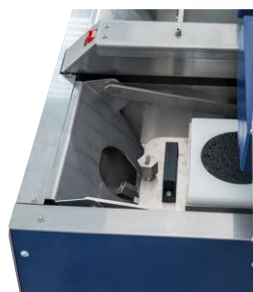
Determine the creep slope, stripping inflection point and stripping slope with this state of the art and user friendly machine. Equipped with the latest Cyber Plus Progress, Matest Smartracker controls the movement of the wheels in order to obtain a perfect sinusoidal wave.



Water and air test at the same time in compliance with EN and AASHTO Standard



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



Unique system to load-unload the mould



Innovative wheels roll off Mechanism (patented)

**MAIN FEATURES**

- Simultaneous testing of wet and dry samples.
- Independent motors for each wheel assure separate rutting analysis of each specimen.
- Sliding sample positioning mechanism for easy mould handling and placement in the machine.
- Does not require lifting of heavy wheel components.
- Fully Automatic machine. Detects and stops the test when the target rut depth is reached.
- 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.
- Covered by US Patent.
- Small footprint to accommodate in small construction labs.
- Easy to load, unload, drain water and clean the unit after each test.

**TECHNICAL SPECIFICATIONS**

- Wheel load: 705 N
- Wheel speed: from 20 to 30 cycles/minute.
- Temperature control:  
EN 12697-22: 2500W heaters for air temperature control, ventilation for temperature uniformity, probe for air temperature, all controlled by the electronic system.  
AASHTO T324: 4000W heaters, recirculating pump, automatic feed and controls level.
- Temperature control range: from ambient up to  $75^{\circ}\pm 1$  °C
- Table travel: 230, 260, 280 mm
- Rut depth transducers range: 25 mm  $\pm$  0.1 mm accuracy.
- Slab thickness: adjustable from 38 to 120 mm

**Power supply:** 220V 50-60Hz  
**Dimensions:** 1400x1300x1300 mm  
**Weight:** 450 kg approx.

**SMARTRACKER™**

- COVERED BY US PATENT NO. 9, 964, 471
- WET AND DRY SIMULTANEOUSLY
- FULLY AUTOMATIC MACHINE



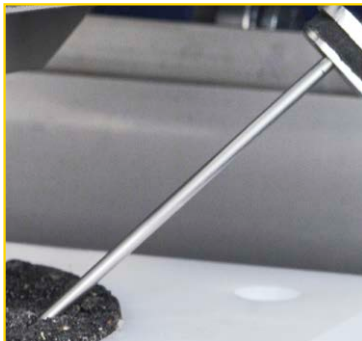
**DETAILS MAKE THE DIFFERENCE**



Inspection windows cover



A touch-screen monitor with user-friendly interface



Probes for reading the specimen temperature



Taps for easy emptying of tanks



Test execution and all parameters, such as water/air temperature, specimen temperature, rut depth can be monitored in realtime. The software also allows exporting test data to an Excel compatible format



Easy positioning of the mould