B038A

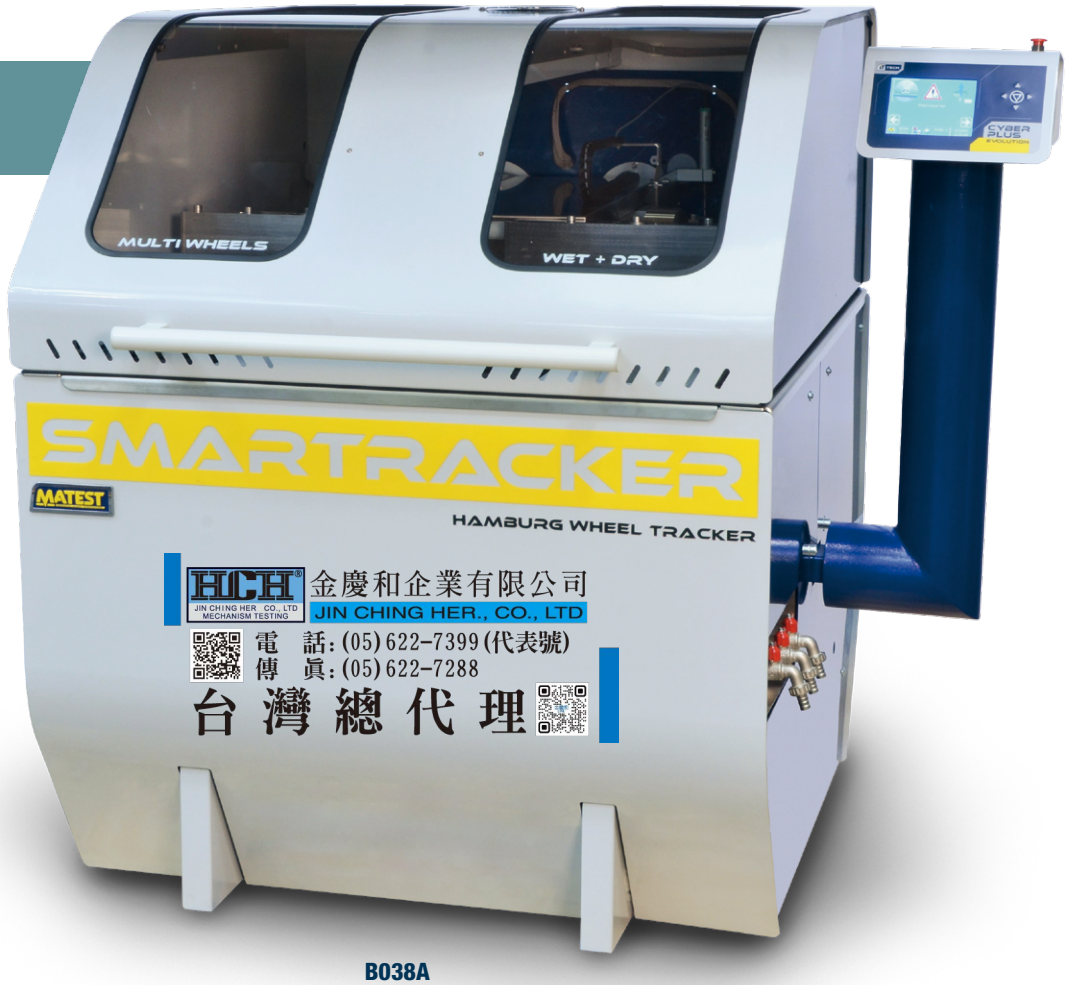
SMARTRACKER™

MULTI WHEELS HAMBURG WHEEL TRACKER; TEST ENVIRONMENT: DRY+WET

STANDARDS: EN 12697-22 | AASHTO T-324

PATENT No: US 9, 964, 471

PATENTED



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THE N° 1 UNIT IN U.S. MARKET

MAIN FEATURES

- Meets and exceeds AASHTO and EN Standards.
- Simultaneous testing of wet and dry samples.
- Indipendent motors for each wheel assure separate rutting analysis of each specimen.
- High performance components.
- No lifting of heavy wheel assemblies. 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.
- Does not require lifting of heavy wheel components.
- Fully Automatic machine. Detects and stops the test when the target rut depth is reached.
- Touch-screen control unit for user friendly execution of the test, management of the data and visualization of the results.
- Each of the two wheel assemblies is equipped with displacement transducers for rut measurement.
- Mechanical recirculating water bath for temperature control within ± 1 °C.
- Easy to load, unload, drain water and clean the unit after each test.
- Small footprint to accomodate small construction labs.
- Covered by US Patent.

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SMARTRACKER™
MULTI WHEELS HAMBURG WHEEL TRACKER - PATENTED

STANDARDS: EN 12697-22 I 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.
It is intelligently designed with innovative features and the needs of the end users in mind.
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.
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.

USER FRIENDLY TOUCH-SCREEN

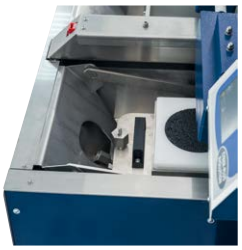
REAL TIME RESULTS PLOT OF THE RUT DEPTH ALONG WITH THE NO. OF PASSES.

WATER AND AIR TEST IN COMPLIANCE WITH EN STANDARD

UNIQUE SYSTEM TO LOAD-UNLOAD THE MOULD

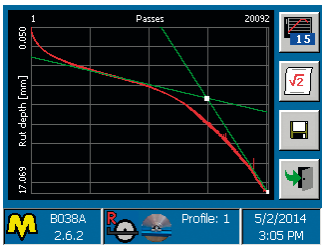
INNOVATIVE WHEELS ROLL OFF MECHANISM (PATENTED)

WATER TEST IN COMPLIANCE WITH AASHTO STANDARD



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.

金慶和企業有限公司
JIN CHING HER., CO., LTD
電　話：(05) 622-7399 (代表號)
傳　真：(05) 622-7288
台 灣 總 代 理

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°±1 °C
- Table travel: 230 mm
- Rut depth transducers range: 25 mm ± 0.1 mm accuracy.
- Slab thickness: adjustable from 38 to 120 mm

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

MAIN FEATURES

- No added stress to operators back from lifting heavy wheel assemblies.
- Sample holders slide into position and eliminate demanding lifting and placement of samples into the unit.
- Hood keeps technicians away from moving parts and provides better temperature control while the test is being conducted.

B038A-15
SMARTRACKER HAMBURG VERSION AASHTO T324 (WATER TEST ONLY)

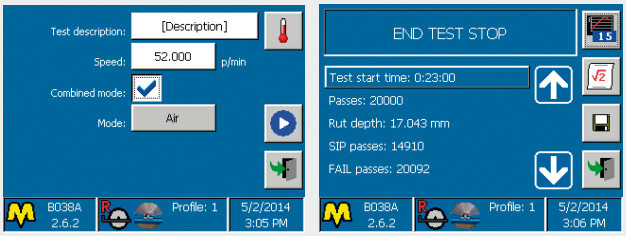
STANDARDS: AASHTO T324, AMAAC Mex Protocol

Same as model B038A but without cover, it allows water test only.

B038A-15

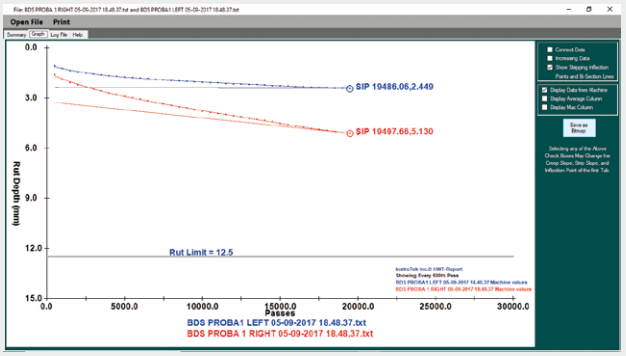
TESTING SOFTWARE

The user-friendly software is integrated into the on-board digital control unit based on Windows operating system.
The software is fully customizable by the operator according to EN and AASHTO Standards, and the personal needs.
Automatic calculation of stripping inflection point (AASHTO).
Test execution and all parameters, such as water/air temperature, specimen temperature, ruth depth can be monitored in real time.
The software also allows exporting test data to an Excel compatible format.



B038A-16 SOFTWARE HWT-REPORT TO AASHTO T324

The Unique HWT-Report software allows the user to analyze the results from the SmarTracker to generate a report and a graph strictly conforming to AASHTO T324. The features of the software include the ability to analyze different locations along the wheel pass, graph maximum and average rut depths, stripping inflection point and detailed reports (selecting all the wheel passes or different sampling rates) that can be presented, printed or emailed.



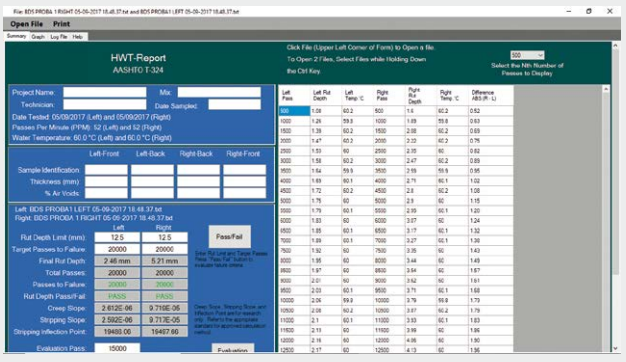


TABLE OF ACCESSORIES TO PERFORM DRY (AIR) AND WET (WATER) TEST FOLLOWING
EN 12697-22 AND AASHTO T324 SPECIFICATIONS

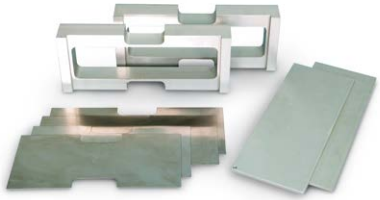
Standards	EN 12697-22		AASHTO T324	
Testing mode	Dry (air)	Wet (water)	Wet (water)	* Dry (air)
	2x **B038A-01** Rubber wheel 2x **B038A-11** EN Mould **B038A-12** **B038A-13** Adaptors **B038A-05** Air heating 2x **B038A-06** Probe (optional)	2x **B038A-01** Rubber wheel 2x **B038A-11** EN Mould **B038A-12** **B038A-13** Adaptors **B038A-06** Probe (optional)	2x **B038A-02** Steel wheel 2x **B038A-06** Probe (optional) FOR CYLINFRICAL SPECIMENS: 2x **B038A-10** AASHTO Mould 2x **B038A-03** Tool **B038A-10D** Adaptors FOR SLAB SPECIMENS: 2x **B038A-11** Mould **B038A-12+B038A-13** Adaptors	2x **B038A-02** Steel wheel 2x **B038A-10 or** 2x **B038A-11** Mould 2x **B038A-03** Tool **B038A-12 +** **B038A-13** Adaptors **B038A-05** Air heating 2x **B038A-06** Probe (optional)

Note: *AASHTO T324 does not require air test.

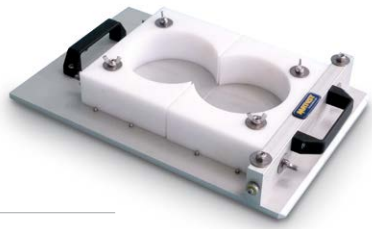
B038A-01
Rubber wheel for
EN 12697-22

B038A-11 EN mould

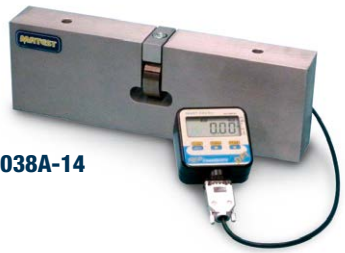
B038A-02
Steel wheel for AASHTO T324



B038A-13 Horizontal adaptors for EN moulds



B038A-10
AASHTO mould



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NEEDED ACCESSORIES

EN 12697-22

B038A-01 RUBBER WHEEL 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 203x47 mm
B038A-10 AASHTO MOULD (2 cylinders Ø 150x60 mm)
B038A-03 TOOL for AASHTO positioning
or
B038A-07 STAINLESS STEEL TOOL for AASHTO positioning
B038A-10D VERTICAL ADAPTORS for AASHTO mould to allow the positioning of specimens with a thickness of 40 mm

OPTIONAL ACCESSORIES

B038A-04 ELECTROVALVE group for hot water
B038A-05 AIR HEATING SYSTEM for air conditioning test EN 12697 -22
B038A-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 calibration kit is designed to facilitate the calibration or to check the machine's 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%.