



# T.H.O.R 3

## Testing Head Over Road

New AISICO instrumentation for testing the correct mast/ground interaction

By dynamic impact tests and the use of a pneumatic propulsion system, T.H.O.R 3 can verify the reliability of the interaction between the ground and the post of the barrier *in situ*, thus allowing the comparison with the results obtained on the test field, with the same device.



The instrumentation is remotely controlled by radio: the movement of the vehicle, the positioning of the hammer impacting the post, the height of the impact, and the impact energy may be easily set up.



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THE ROAD,  
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LIFE.

The four steering wheels move longitudinally and transversely, allowing a rapid and appropriate positioning for the test. Thanks to its small dimensions, T.H.O.R 3 may work on the emergency lane.

It measures the displacement induced on the post (mm) and the time interval (s) in which the energy of the impact is completely released. Similarly, it measures the speed of this displacement and its force.



The data acquired are then processed - according to a procedure, patented and developed by AISICO - which provides a value ( $C_e$ ) to each test and this value represents the energy dissipation capacity. This value is then compared to the same reference value measured on the stake installed on the ground of the test field. These values generally differ by a percentage, which varies according to the type of the stake. It follows that, in the event of an impact, the system can offer the expected performance.

## ✓ MAIN CHARACTERISTICS OF T.H.O.R 3

- Greater solidity
- Easy to be handled
- Certainty of results
- Adjustable impact speed between 7m/s and 14m/s
- Impact energy adjustable between 7Kj and 12 Kj





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