

OD-LDT Outdoor load deflection tester

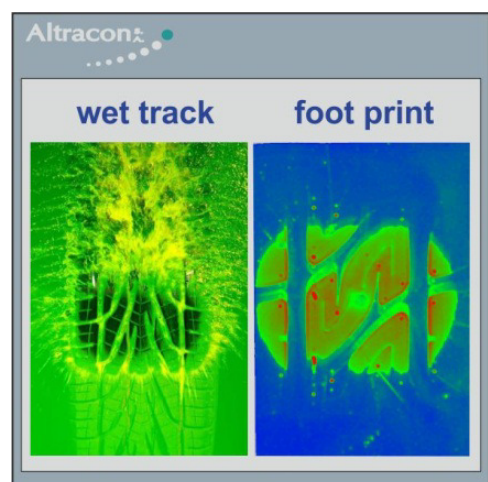
Altracon, a leading manufacturer of linear friction testing equipment, recently presented its latest concept for dynamic footprint measurement. The new dynamic outdoor footprint load deflection testing measurement combines the experience and expertise of the company in the field of static and dynamic measuring and high speed data recording.

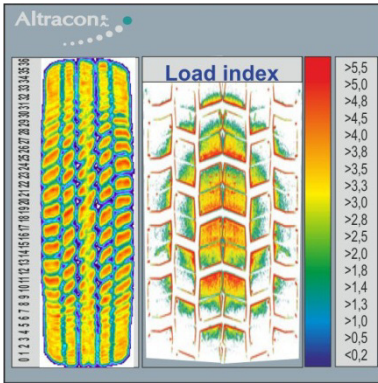
The Altracon **OD-LDT** consists of a high frequent 3 component piezo sensor dynamo-meter table. The unit allowed a wheel load (Fz) up to 3500 dN at PC-LT or 10000 dN at truck setup. The surface made in special crystal-clear safety glass panel features an integrated white or dual white/florescent strobe light system. Together with a high-speed camera, it is thus possible to take footprint pictures and videos of the tyre. The camera is built into the stationary, humidity protected, under floor mounting case. Images can be captured at a resolution of 1696x1710 pixels. For video



sequences, frame rates of up to 100,000 frames per second are possible. The calibrated lenses geometry allows making measurement of deforming dimension at the recorded picture. Such high resolutions turn measuring into a completely new experience.

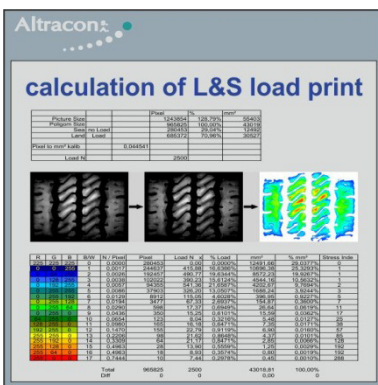
The optional watering unit enables you to produce water films of up to 10 mm +/-1 mm across the measuring surface. Such test layouts allow you to visualise the function of the tyre structure and tread profile. We have integrated number of additional measuring modules into the surface. By the setup of three laser sensors we measure the speed and acceleration of passing car. A measuring plate with 3-component piezoelectric transducers records the footprint load at a measuring rate of 20 (100) kHz. The Altracon OD-LDT caters for grey value evaluation in combination with a special measuring surface for the determination of the load distribution at the pixel resolution of the high-speed camera.





As a true load measuring cell with 3-component force matrix sensors (FMS), there is an option to records the footprint forces at a resolution of 8 x 8 mm during tyre rolling contact.

The newest state of the art technology and software developing of high performance data acquisition by using the national instruments technology, we design the solution as best of all available systems. With its latest machine, Altracon has again set new standards in testing equipment for the tyre industry. Altracon integrate customer needs to all the projects for quality control and management facts.



30 year of experience in industrial measurement and control technology, gives our customer the best consulting and protect all investments for R&D and production.

For more information and all your queries, please contact our sales agents who would be delighted to assist you.

All about friction.....Altracon is always the right partner

- indoor / outdoor friction testing
- linear or rotating friction testing
- high speed surface friction analysis

Friction test of any material on any surface

- ceramic
- road
- wet / dry
- ice
- snow

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