

**Tire screening  
at existing  
WIM sites?**

**Upgrade  
now!**

## **Automated Tire Screening (ATS) system**

Easy-to-install, reliable solution to identify missing or underinflated tires on commercial vehicles





## Under pressure

**Incorrect tire pressure causes damage to roads and can lead to serious accidents. The Automated Tire Screening (ATS) system by Kistler offers a reliable solution to monitor tire pressures. Its accurate Lineas quartz sensors deliver vital data to identify missing or under-inflated tires. The system can easily be integrated into existing WIM screening sites and is an efficient solution to minimize both costs and accidents.**

Having the proper tire pressure is a crucial safety issue. Next to the brakes, the tires are the most important safety devices on every vehicle. Incorrect tire pressure will compromise cornering, braking and stability. In the worst-case scenario, improper tire pressure can lead to tire failure and a serious accident.

### **The Automated Tire Screening (ATS) solution by Kistler**

According to the National Highway Traffic Safety Association (NHTSA), there were 738 total motor vehicle traffic fatalities in 2017 in tire-related crashes. In addition to posing serious risks for drivers on the road, under-inflation reduces the life of tires, which costs drivers and carriers money. Damaged tires lead to breakdowns, costly roadside repairs and consequent lost economic value.

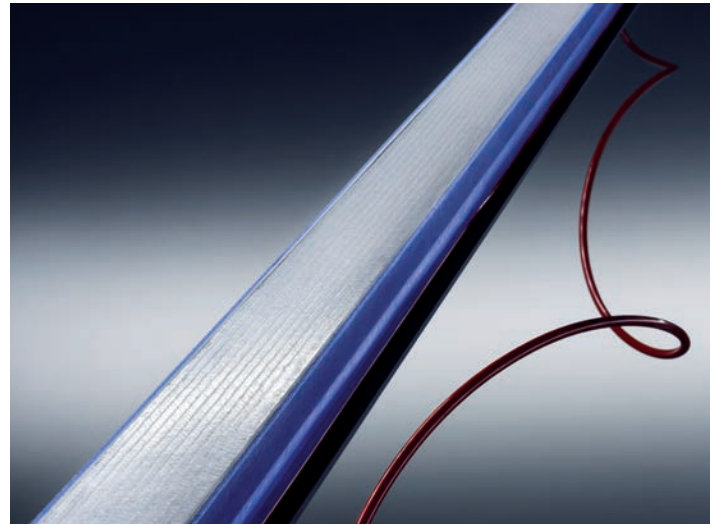
The new Automated Tire Screening (ATS) solution by Kistler is a commercial vehicle enforcement (CVE) solution. It provides accurate real-time information on all passing commercial motor vehicles (CMVs) using an advanced hardware and software solution. With this technology, roadside inspectors can automatically screen tire pressures on all passing CMVs to identify potentially unsafe, damaged, or flat tires.

### **Benefits**

- Fully compatible with existing Lineas quartz sensor Weigh In Motion installations – just two additional sensors and firmware update needed
- Identifies single/dual, flat and missing tires in real-time
- Proven in-road Lineas sensors with quartz technology, the most popular Weigh In Motion sensor in the North America
- Easy integration into existing screening systems used at fixed and virtual weigh stations thanks to open interfaces



WIM Data Logger: weighing and tire screening in one system



The maintenance-free Linesas WIM sensor: based on unique quartz measurement technology

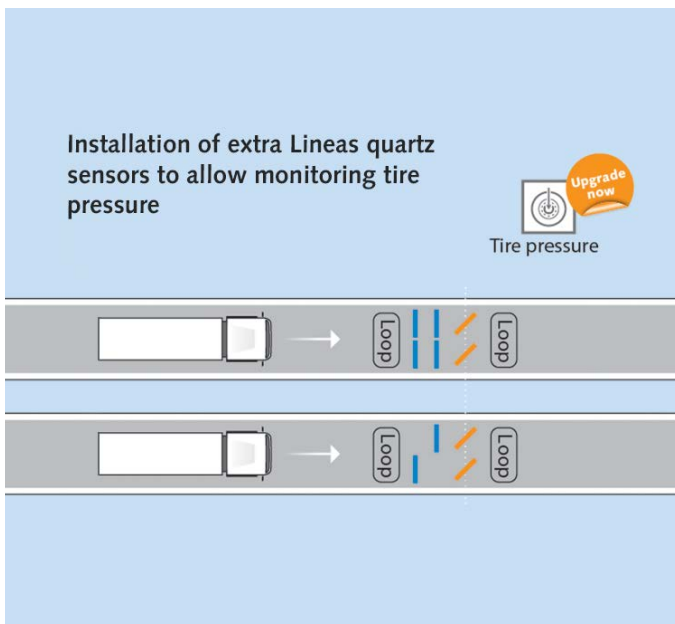
**Combination of accurate Linesas quartz sensors and WIM Data Logger** ATS consists of Linesas quartz sensors and a firmware update of Kistler's WIM Data Logger. The sensors are installed in the road pavement and provide highly accurate measurement signals. The combination of multiple Linesas sensors in a specified layout delivers the required data to analyze the state of the tires.

The WIM Data Logger by Kistler is the key to enhanced conditioning and processing of the Linesas sensor signals. It supports the system to achieve the best weighing accuracy from low to high speed with the highest reliability. The WIM Data Logger has high measurement accuracy over a wide speed range and already interfaces with most CVE screening and bypass systems. Thanks to a new firmware update, it becomes compatible with ATS and can

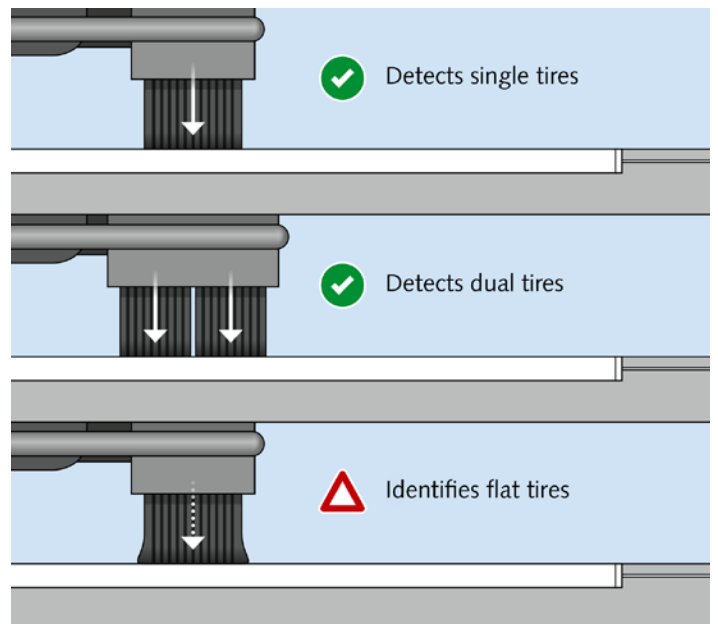
be used to identify flat or under-inflated as well as missing tires before they cause problems on the road and notifies inspections personnel immediately.

**Simple upgrade to already existing WIM location**

All over the United States, many fixed and virtual weigh stations are already equipped with Linesas quartz WIM sensors. ATS by Kistler offers the potential to add screening for anomalous tires to these already existing WIM sites at fixed and virtual stations. The combination of WIM and tire screening is a cost-effective solution. Just add two additional sensors and add or update a Kistler WIM Data Logger at these sites to receive reliable tire detection. Existing sites with high maintenance scale based WIM technology can also be easily upgraded.



Upgrade your existing WIM site by adding 2 tilted WIM sensors.



Detects single/double, flat and missing tires.





Find out more about our applications:  
[www.kistler.com/applications](http://www.kistler.com/applications)

**Kistler Group**

Eulachstrasse 22  
 8408 Winterthur  
 Switzerland  
 Tel. +41 52 224 11 11

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