

TransTech Systems

Inventors of Capacitance Technology for Asphalt Density Measurement

TransTech Systems, Inc. is an instrument company that develops innovative and nondestructive evaluation products for the construction industry, all of which are based on our core capacitance-based technology. TransTech has cemented its place in the road construction industry by inventing an innovative use of capacitance technology and continuously developing and improving it over the course of 25 years to the point where it is so well entrenched in the industry that **we are the undisputed leader in the use of non-nuclear technology for quality control in determining in-process asphalt density.**



**PQI
Prototype
1996**



**PQI
100
1998**



**PQI
200
1999**



**PQI
301 Series
2001-2004**



**PQI
380
2010**

At TransTech Systems, we are all about continuous development of innovative solutions to difficult problems in a way that seems easy to the users of our devices and helps them save time and money.

For years, using a nuclear density gauge was the only game in town for determining asphalt density for quality control on road construction jobs. The founders of TransTech Systems had many years of experience in the road construction industry and recognized from the start that many construction and civil engineering methods had changed very little over the decades. A quarter of a century ago, TransTech Systems changed everything by inventing and patenting (US 5,900,736; US 6,414,497; US 6,803,771) the use of a well-established electrical technology for a new purpose: characterizing asphalt during construction and determining its density in a matter of seconds. The first prototype for this technology, developed for determining the density of longitudinal joints, became the Pavement Quality Indicator, or PQI 100



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(ASTM D7113-05, AASHTO T343-12). It quickly became clear that our non-nuclear method for measuring asphalt density was an intriguing idea that was gaining momentum in the industry.

Since this first commercial unit was introduced to the marketplace, TransTech has continuously made advancements to our flagship product in order to improve its accuracy, reliability, ruggedness and user-friendliness for a wide variety of mixes and conditions.



Our latest fourth generation Model 380 features items such as a GPS status display, the ability to download files to/from the PQI via USB drive, a touch screen GUI, and an advanced data management system. The PQI is now used worldwide and we have distributors in over 87 countries that help us keep our finger on the pulse of the industry.

When combined with our Soil Density Gauge, we have over 5,000 units in use every day. This industry knowledge is a powerful advantage and enables us to gain insights into user situations in a variety of climates and conditions, allowing us to utilize user input in order to continuously improve our technology.



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