



Automotive Testing & Inspection Solutions

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Who are we

We've been manufacturing test and inspection instruments for the automotive industry and suppliers for more than 50 years.

Want to test for leaks and check your fleet's valves and radiator tubes? Need readings for the surface tension or surface energy of your paints and coatings? How about a hardness check of all your main components? From simple tension or compression tests on your parts, to advanced materials testing on the latest composite materials, Industrial Physics has a solution.

Check your airbags, seatbelts, and brake parts are consistently safe and performing as expected. Get deep insight into the strengths and weaknesses of your rubber, plastic, or metal parts. And when you have the green light on your vital checks and balances, we have the technology you need to analyze the finishing touches – such as your carpets, vinyl, and interior fixtures and fittings.

At Industrial Physics, we've combined the strength of 12+ of the world's leading inspection brands – so when you choose us as your test and inspection partner, you'll get access to an unrivalled product portfolio that you won't find anywhere else.

No matter the size or location of your business, we're here to safeguard your reputation.

Our brands
Across our portfolio of specialist brands, we've been protecting the integrity of businesses all over the world, for more than a century.

OUR AUTOMOTIVE TESTING & INSPECTION BRANDS:



About Industrial Physics

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**Innovative
Technology**

Testing &
Inspection
in...



20,000+
Customers



15 Industries
40 Applications
22 Materials



Over
300
People

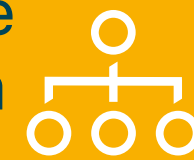


Customers
in **75**
Countries

12+
Brands



Global Service
& Distribution
Network





How we support the Automotive industry

Whether you are an OEM or at tier two, or three of the automotive supply chain, we can supply you with test and inspection instruments for quality control, in-line inspection and R&D. Here are some of the types of testing we can support:

- Appearance testing
- Coated film thickness
- Corrosion testing
- Tackiness testing
- Degreasing
- Oil filter seam inspection
- Hardness testing
- Heat deflection testing
- Impact testing
- Tension, compression and materials testing
- Leak detection
- Flow testing
- Occlusion

Discover the Industrial Physics automotive product range

Leak detection

We make highly accurate and reliable air leak and flow detection solutions to meet most international testing standards.

TME Solution: Leak or Leak Flow Test System

A high-resolution leak or leak/flow tester featuring one to four channel, concurrent or sequential, leak and flow testing:

- Pressure / vacuum decay
- Occlusion
- Flow



TME Integra Flex

A compact tester for inline production leak detection, or bench-top testing. Developed for the OEM, industrial integration and automated leak detection systems market. Test unit is especially designed to fit into rugged industrial manufacturing process lines. You can rely on it for the easy leak detection of nonporous, flexible and rigid products:

- Pressure / vacuum decay
- Occlusion



The Smart TME WORKER Integra

An innovative leak detection instrument, with repeatable and quantitative results. Comes equipped with single or multi probes for multi-channel testing:

- Pressure / vacuum decay
- Occlusion
- Flow testing
- IP 67 equivalency



Custom Fixtures

Not all leak tests need custom fixtures, but we've got you covered if yours do! We bring 50 years' experience in helping our automotive customers overcome even the most challenging of fixturing applications.

From concept to validation, our skilled engineers will listen to and collaborate with you throughout the design, build, and test validation process.



Hardness testing

Our automotive industry hardness testing machines are hard to beat! We've been making them for over 3 decades and they're renowned for quality, reliability, and ease-of-use.

Whatever parts or components you need to test, we've got the instrument for you. Think of us as a one-stop-shop: we also offer a complete line of accessories from test blocks to sample preparation equipment – essential for microhardness testing applications.

UTS Tru-Blue II Rockwell Hardness Tester

The TB-II uses innovative digital controls and a high-precision load cell to give you highly accurate penetration measurement data. It meets or exceeds ASTM E-18 and ISO 6508 standards and is available in a variety of sizes.



UTS Tru-Blue Micro VT

A semi-automated microhardness testing system. It measures hardness values on the 'vickers' (HV) and 'knoop' (HK) scales from 10g up to 1000g (1kg). Our state-of-the-art electronics and high-quality optical displays make running tests quick and easy. And our instruments give you accurate and repeatable results.



UTS Tru-Blue Sample Cutter

The instrument offers a corrosion resistant cover and comes with a powerful 3 kW motor and 57-liter recirculation tank. You can choose to use it alongside the brand-new United Testing System Tru-Blue MicroVT.



UTS Tru-Blue Sample Mounting Press

The Tru-Blue sample mounting press is an effective sample mounting press tool to assist your microhardness testing needs.



UTS Tru-Blue Grinder Polisher

A perfect tool to prepare the surface of your chosen samples in order to achieve accurate and repeatable results when conducting microhardness tests on critical parts and components.



Corrosion chambers

C&W Salt Spray Cabinet

Effective corrosion testing of components and coated test panels requires close operational control and total accuracy. And our mobile machines offer both. They feature salt solution reservoirs with integral filter systems and an ample 114-liter capacity, giving you up to two weeks of continuous operation.



C&W Cyclic Corrosion Cabinet

Specially formulated retardant glass reinforced polyester (GRP) cabinets with high chemical and temperature tolerance. We have wet or dry seal options that come with an ergonomically designed control panel.



Appearance testing

Automotive parts and components are often produced and painted in different plants using multiple processes and substrates. Inevitably, the overall appearance of your products can suffer. Our machines harmonize the sum of the parts, so you can optimize the appearance and performance standards of your vehicles.

TQC Coatmaster Flex

Our popular coatmaster flex machine measures coating thickness immediately after application. It can be used on both wet and cured / dried powders and paints.



TQC Glossmeter-Sologloss & Polygloss

Get fast and accurate gloss level measurements on any flat surface, including paper, paint, plastic or wood.



TQC Coating Thickness Gauge for All Substrates

Our popular corrosion Probe for measuring the effects of corrosion and erosion on tanks, pipes or other structures which only can be accessed on one side or UTG M – Multiple-Echo Probe.



Universal test machines (UTMs)

Since 1964, our industry-leading UTMs have provided unparalleled control over your tension (pull testing), compression and bend/flex testing on a variety of parts, components and test samples.

These popular, software-controlled devices come in a variety of models – from our 5 kN (550 lbf) table model system, up to our 2,000 kN (450,000 lbf) servo-hydraulic system. We will help you to meet and exceed international standard requirements for a wide range of products and test scenarios.

United Testing UTM (Universal Testing Machine) DSTM 5-100 kN Table Top

Our convenient table model frames are surprisingly powerful – generating force from 5 kN up to 100 kN. They're ideal for many material types and we can modify heights and widths to suit the needs of your operation.



United Testing UTM (Universal Testing Machine) DFM 100-600 kN Floor Model

If you have large parts and components to test, or just stronger materials, our floor frames are the right choice. They can measure forces from 100kN to 600kN, while our servo-hydraulic frames take things to a whopping 2,000 kN and are up to 14FT tall or more.



UTS LCH Speedy Tester

Built for the aerospace industry. Our popular 'Speedy' machine is a bench-top, hydraulic-controlled system for testing spot welds and fasteners. It makes light work of similar destructive tests on a variety of samples and is rated to test up to 150 kN (33,000 Lbf).



Impact testing

A single point test that measures your material's resistance to impact using a controlled weight dropped from a set height. It can be defined as the kinetic energy needed to initiate and continue fracture until the specimen is broken.

Ray-Ran Advanced Pendulum Impact System

This clever device uses inbuilt microprocessor technology to determine the energy required to break or rupture specimens. It works wonders on plastics, composites, ceramics and non-ferrous metals to international testing standards for izod, charpy and tension impact testing.



Ray-Ran Auto Cycle Test Sample Notching Cutter

Our notching cutter produces precise stress-concentrated profiles in izod and charpy specimen bars. They meet or exceed the requirements of international standards including ISO 179, ISO 180 and ASTM D256 and D6110.



Ray-Ran Instrumented Falling Weight Impact Tester

Gives you a more insightful vision of events occurring during impact loading of specimens including pipe, sheet, laminates, composites, ceramics and non-ferrous metals. And it complies with D3763-02.

While our non-instrumented falling weight impact tester is great for gross failure analysis of specimens to international standards such as ISO 6603.



Tackiness testing

Industrial Physics test substrates in the molding process of tires and belts, where components including rubber and reinforcement materials are bonded in multiple layers and vulcanized. We will check the component tackiness before the forming process is completed. Our instruments are stationary and portable to ensure the success of your production output.

TMI Tackiness Checker (Model HTC-1) 80-10

The Tackiness Checker HTC-1 is a convenient, easy-to-use instrument that was developed to allow on-site testing of the tackiness of rubber components. The instrument may also be used to test the tackiness of adhesive tapes, depending on the application.



TMI Tack Tester (Model PICMA P3) 80-29

The PICMA Tack Tester measures tacking strength between unvulcanized rubber and other materials. Tacking strength of other adhesive materials can also be measured.



Test sample preparation

Test the performance of your plastics and you'll know if they are fit for purpose and meet, or hopefully exceed, the national and international standards you're aiming for.

Ray-Ran Pneumatically Operated Test Sample Cutting Press and Cutting Dies

Effortlessly generates forces up to 50kN, cutting through plastics, paper and boards up to a maximum of 8mm thickness using our bespoke cutting dies.



Ray-Ran Model 2 CNC Profile Cutting Machine

The best device for simple sample preparation and 3D prototyping. We recommend it for use with thicker sheet materials, or pipe sections, up to 100mm thick.



Ray-Ran Test Sample Injection Moulding Apparatus

Produces consistently reliable colour plaques, tensile and impact test specimens for mechanical testing.

Melt Flow

Ray-Ran Melt Flow Tester

Melt Flow Rate (MFR) is a measure of a given polymer's flow characteristics. And we have several great models for testing all three methods conforms to ASTM D1238, ASTM D3364, ISO 1133, DIN 53735 and others.



MFR100 Manual Basic Melt Flow System.



MFR200 Manual Advanced Melt Flow System.



MFR300 Microprocessor Melt Flow System.

Additional Industrial Physics Solutions

TQC Comprehensive Abrasion Test

Need to check the wear resistance of coatings? Look no further! Built around the tried-and-tested scratching resistance method to evaluate the hardness of your coatings.



TQC Mechanised Scratch Tester

TQC Sheen Scratch Tester Built around the tried-and-tested scratching resistance method to evaluate the hardness of your coatings.



Quality By Vision SEAM360: Oil Filters

The SEAM360 is a safe, quick, and accurate automatic double seam inspection system. It is non-destructive and we make them for oil filter seams of all sizes.



CurveX 4 Oven Temperature Data Logger

The CurveX 4 is an intelligent temperature data logging system that was specially designed to control curing processes in the coating industry.



TQC Fibro PGX+ Pocket Goniometer

Checks surface properties for contamination, adhesion and the printability of metals, polymers, glass, paper, board... and much more.




Support & services

We believe that supplying you with high quality testing instruments is only part of our job. Being fast, efficient, and truly reliable is critical when it comes to servicing the technology that keeps your business running.

Wherever you are in the world, our experts are on hand to support your needs. From installation, through to calibration, repair, and preventative maintenance, we've got you covered. That's because at Industrial Physics, we're not just suppliers, we are here for you as trusted partners.

Whatever your requirement may be, if you're looking for the highest quality of test and inspection solutions to ensure the quality of your products, the team at Industrial Physics are here to support you.



A photograph of a worker in a factory setting, focused on a large electronic assembly board. The worker is wearing a dark shirt and a red safety vest. The board is filled with numerous components and connectors. The background shows other workers and industrial equipment, all under a warm, orange-toned light. A large blue diagonal shape is overlaid on the left side of the image.

“During our time with Industrial Physics we only encountered helpful people. The response to our questions is always very quick.

Our purchase orders are quickly confirmed and dealt with. Shipping time is very precise, we always get our package right on time, a few days after the order. The packaging is spot on, our ordered items are packaged very carefully all the time, and we get everything without any damage. In the past couple of years our partnership was smooth and productive. We at Inteszt Kft. hope that in the future everything will be the same and hopefully we will be able to complete many more deals”

Inteszt Kft.

Get in touch

Find out more about how we can support your unique needs and get in touch today.

Email: info@industrialphysics.com

industrialphysics.com

