

World's leading manufacturer  
of packaging and material  
testing equipment.

## Electronics and automotive component testing



**INDUSTRIAL  
PHYSICS**

Our brands  
protect your brand

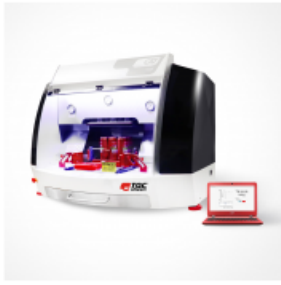
Gauges for dimensional measurement, and testers for package integrity and failure analysis. Manual and semi-automatic solutions for ensuring quality in food, beverage, and aerosol cans, ends and sheets. Online vision solutions for complete production control.

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### About Industrial Physics

Industrial Physics is one of the world's leading manufacturer of test, measurement and inspection equipment focused on the food and beverage, metal cans, flexible packaging, paper and plastics, paint and coatings, medical device, materials testing and consumer electronics markets. With sales

presence in more than 75 countries, our brands are helping customers meet the ever-increasing test and quality standards required by demanding regulators, consumers and manufacturers. Our best-in-class products help companies the world over protect their brand integrity.



## Comprehensive Abrasion Test

Universal test machine to test the coating abrasion resistance on beverage cans or flat materials. The reciprocating motion mimics in-the-field transportation abrasion damage.

### Applications

- Can inspection
- End inspection
- Failure analysis
- Print & ink properties
- Surface property



[More information](#)



## CurveX Nano Oven Recorder for Can Coaters

Together with the cans the CurveX Nano oven recorder winds through the conveying system in the oven and makes up a complete temperature profile. With help of paint cure specifications it determines the curing process by calculating the cure index for you, enabling a...

### Applications

- Can inspection
- Print & ink properties



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## Gloss meter

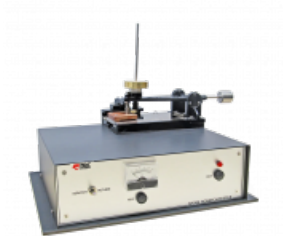
Portable precision glossmeters for production and laboratory. Suitable for paint and coatings, plastics, automotive parts etc. Made in The Netherlands.

### Applications

- End inspection
- Print & ink properties
- Surface property
- Label inspection



[More information](#)



## Motorised Scratch Meter

Motorised Scratch tester to evaluate a coatings hardness based on scratching resistance method. Depending on test procedures, specified or variable loads can be applied to obtain different degrees of failure, from trace to destruction.

### Applications

- End inspection
- Failure analysis
- Hardness/stiffness
- Print & ink properties
- Surface property
- ... and more



[More information](#)



## Opacity Reflecto Meter

Hand-held reflectometer for measurement of the opacity, or luminous reflectance, of a grey scale. Suitable for the evaluation of a coatings hiding power, or simple shade sorting tasks of metallised films, anodized aluminium or ceramics.

### Applications

- End inspection
- Print & ink properties
- Surface property
- Label inspection



[More information](#)



## Washability, Scrub, Abrasion Tester

The Scrub Abrasion and Washability Tester is used to test the resistance of paint, varnish or coatings to scratching, wearing, and color loss due to wet or dry abrasion, by simulating everyday wear from cleaning actions or general use

### Applications

- Can inspection
- End inspection
- Failure analysis
- Print & ink properties
- Surface property
- ... and more



[More information](#)



## Auto Density Measurement System

Using the Gradient Column Method, the Ray-Ran Density Gradient Apparatus can calculate the density of a specimen to 6 decimal places and become the worlds benchmark fore accurate density measurement

### Applications

- Density

**Ray·Ran**

[More information](#)



## Apparent Bulk Density Apparatus

These instruments are used in the measurement of apparent density, bulk factory and the pourability of plastic materials such as molding powders etc. different instruments are required for the various forms of materials from fine powders and granules to large flakes...

**Ray·Ran**

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## Pneumatically Operated Test Sample Cutting Press

The Pneumatic cutting press is an effortless nad safe way to cut samples from materials such as plastics, boards and paper, and generates a cutting force of up to 50KN to cut materials up to 8mm thick

### Applications

- Coefficient of friction-Horizontal

**Ray·Ran**

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## CNC Model 1 Test Sample Profile Cutter



The CNC Sample Profile Cutter used for Test Sample Preparation and 3D prototyping, and is recommended for use with thicker sheet materials or pipe sections as it can cut up to 40mm thick

Ray·Ran

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## 6MPCA Advanced Melt Flow System



A more advanced model than the 6MBA, with the addition of the microprocessor, the results displayed are MFI, Shear Stress, Shear Rate, Viscosity and the Melt Volume Rate. It can also be used to determine the density at melt temperature of the material being tested.

### Applications

- Melt flow

Ray·Ran

[More information](#)

## MFR100 Manual Basic Melt Flow System



Molten Polymer is extruded through a controlled Die and using the time taken to extrude the Melt Flow Rate or Melt Mass Flow rate in g/10 minutes can be determined

### Applications

- Melt flow

Ray·Ran

[More information](#)



## Auto Cycle Test Sample Notching Cutter



The Auto cycle Notching Cutter produce precise stress concentrated profiles in Izod and Charpy specimen bars. The profiles conform to the ISO 179, ISO 180 & ASTM D256 International Standards

### Applications

- Failure analysis
- Impact strength

**Ray** Ran

[More information](#)

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## Test Sample Injection Moulding Apparatus



The Test Sample Moulding Apparatus has been specifically designed to produce colour plaques, tensile & impact test specimens for mechanical testing.

**Ray** Ran

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## 2 Station Heat Distortion & Vicat Softening Point Apparatus



The HDT/Vicat Apparatus is used to determine the Deflection and softening point characteristics of all types of thermo plastic specimens. The 2 station device will test two samples simultaneously

### Applications

- Failure analysis
- Heat distortion temperature
- Vicat softening Temperature (VST)

**Ray** Ran

[More information](#)



## 4 Station Heat Distortion & Vicat Softening Point Apparatus

The HDT/Vicat Apparatus is used to determine the Deflection and softening point characteristics of all types of thermo plastic specimens. The 4 station device will test four samples simultaneously

### Applications

- Failure analysis
- Heat distortion temperature
- Vicat softening Temperature (VST)

**Ray**•**Ran**

[More information](#)



## 6 Station Heat Distortion & Vicat Softening Point Apparatus

The HDT/Vicat Apparatus is used to determine the Deflection and softening point characteristics of all types of thermo plastic specimens. The 6 station device will test six samples simultaneously

### Applications

- Failure analysis
- Heat distortion temperature
- Vicat softening Temperature (VST)

**Ray**•**Ran**

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## United DSTM 20KN Table Top UTM

United's DSTM-20KN test frame is ideal for testing samples up to 20kN (4,500 lbf.). From basic tension and compression testing to advanced materials testing the DSTM-20kN is a versatile test system used across virtually all industries.

### Applications

- Melt flow

**UNITED** TESTING SYSTEMS

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## Advanced Pendulum Impact System

The Pendulum Tester uses microprocessor technology to determine the energy required to break or rupture specimens in plastic or ceramics. The apparatus can test Izod, Charpy or Tension Impact, as well as carry out small diameter pipe testing and component Impact &...

### Applications

- Failure analysis

**Ray**•**Ran**

[More information](#)



## United DTM 50KN Table Top UTM

United's DSTM-50KN test frame is ideal for testing samples up to 50kN (11,200 lbf.). From basic tension and compression testing to advanced materials testing the DSTM-50kN is a versatile test system used across virtually all industries.

### Applications

- Burst strength-sheet-Test
- Can inspection
- Coefficient of friction-Slide Angle
- Compression testing
- Creep Detection test
- ... and more

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## Universal Falling Weight Impact Tester

The Falling Weight Tester is used to determine the energy required to break or rupture test specimens from Pipe, Sheet, Laminates, Composites, Ceramics, and can comply to various international standards such as ISO6603, ISO3127, ASTM D2444 to name a few.

### Applications

- Failure analysis
- Impact strength

**Ray**•**Ran**

[More information](#)



## United DSTM 2.5KN Table Top UTM

United's DSTM-2.5KN test frame is ideal for testing samples up to 2.5kN (550lb.). From basic tension and compression testing to advanced materials testing the DSTM-2.5kN is a versatile test system used across virtually all industries.

### Applications

- Coefficient of friction-Slide Angle
- Coefficient of friction-Horizontal
- Component integrity testing
- Compression testing
- Creep Detection test
- ... and more

[More information](#)



# Our Brands

With our nine portfolio companies, Industrial Physics is one of the world's largest manufacturer of packaging and material testing equipment.

