

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

Industrial testing and measurement



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

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.





Automatic Film Applicator Standard

The Automatic film applicator provides a reliable basis to apply coating films to test charts, panels or foils. The Automatic Film Applicator Standard comes as glass, vacuum, double vacuum or heated model.

Applications

- Print & ink properties
- Surface property
- Label inspection







Bresle Patch

The TQC Sheen Bresle patch conform ISO 8502-6 is used to test for surface contaminants, such as salts. Due to the round shape it is stronger, whilst at the same time the patch has a clean removal, negligible patch contamination, no breaking foam and is silicon free.

Applications

- Surface property



More information



Colorbox Color Assessment Cabinet

Multi-Source Viewing System for the Inspection and Colour Matching of Inks, Paints, Plastics, Cosmetics, Textiles, Knitwear, Leather, Food, Paper, Colorants, and other coloured materials. The Colorboxes offer a extensive range of illumination conditions for any...

Applications

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







Comprehensive Abrasion Test

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



More information



DewCheck Dewpoint Meter

DewCheck 4 is an extremely versatile dewpoint meter to measure and record all climate parameters required to treat surfaces. High-end industrial sensors combined with sophisticated calibration procedures guarantee the highest accuracy for extreme long terms.

Applications

- Moisture analysis







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



Grindometer

Grindometers or Fineness of Grind Gauges are precision instruments to determine particle size and fineness of many materials like paints, lacquers, pigments, filler, chocolate etc.. Available with single and double grooves and with graded slopes graduated in three...

Applications

- End inspection
- Print & ink properties



More information



ISO 8501 Corrosion Protection of Steel Structures by Painting

In 2007 updated version of the standard measure for the visual evaluation of rust and purity levels of non-coated steel. Also known as the "Swedish steel blasting grades" SS 05 59 00 (Sa). Contains high-quality colour photographs for estimating the rust levels...

Applications

- Surface property







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 luminuous 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



Pendulum Hardness Tester

The TQC Sheen Pendulum Hardness Tester has a lot of unique features that ease defining hardness by the König and/or Persoz method as described in ISO 1522. Both methods work on the principle that the damping time of a pendulum oscillating on a sample indicates the...

Applications

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







Pyknometer

Specific Gravity cup with a fixed internal volume of 100 ml. which is to be compressed by a special mechanism. Under pressure the air will dissolve better into the liquid. Undissolved bubbles will be compressed to a fraction of their original size. Density of the...

Applications

- Density
- End inspection
- Print & ink properties



More information



RAL K5 Colour Fan Deck

The colour fan deck RAL K5 contains all 213 RAL CLASSIC colours. Due to the full-page colour illustration, it is especially suitable for colour combinations and colour comparisons.

Applications

- End inspection
- Print & ink properties
- Surface property

- Label inspection



More information



SuperPIG Paint Inspection Gauge

SuperPIG is a destructive precision tool for inspection and thickness measurement on single or multiple coats on virtually all substrates, including wood, plastics, metals etc. Also observes and measures substrate and film defects.

Applications

- Failure analysis
- Thickness measurement
- Surface property







Viscometer

Electronic viscosity meters for measuring viscosity of all kinds of fluids: Newtonian and Non-Newtonian, continuous measurement during the addition of solvents and thinners etc.

Applications

- End inspection
- Failure analysis
- Print & ink properties



More information



Viscosity Cups

A wide range viscosity cups to measure the viscosity of paint, lacquers and other fluids. Very precize, with fixed stainless steel nozzle. Immersion cups are also available.

Applications

- End inspection
- Failure analysis
- Print & ink properties



More information



Washability, Scrub, Abrasion Tester

The Scrub Abrasion and Washability Tester is used to test the resistence 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







Seam Inspection, in-line

The Seam Inspection module inspects the complete seam around the can. The module is positioned in-line to inspect 100% of the produced cans, non-destructively.

Applications

- Automated vision inspection
- Can inspection
- Leak detection

- Seam inspection



More information



360° Can Inspection

The 360° Can Inspection module is a highly accurate Mix-Up & Integrity Detection system for cans. The system integrates critical functionalities including (Bar- & DMC- & QR-) Code reading and Color Artwork & Damages inspection in one "all-in-one" system.

Applications

- Automated vision inspection
- Can inspection



More information



Auto Density Measurement System

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

Applications

- Density







Empty Can Inspection

The Empty Can Inspection system is able to detect defects quickly and accurately on the flange, bottom and the inner sidewalls of the can. Pollution and spots on the inside, as well as flange dents, flange width and ovality/roundness are being inspected. The Empty...

Applications

- Automated vision inspection
- Can inspection



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...



More information



Code Reading & Serialization

The Code Reading module inspects ink-jet, laser, thermotransfer and pre-printed ID codes on various packaging types, including (infant formula) cans, beverage cans, labels, cartons and PET bottles. The Code Reading module checks if codes are present, complete,...

Applications

- Automated vision inspection
- Can inspection







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

More information



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 materals or pipe sections as it can cut up to 40mm thick

Ray Ran

More information



6MPCA Advanced Melt Flow System

A more advanced model than the 6MBA, with the addition of the microprocessor, the resulst 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





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



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





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

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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)







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



Advanced Static & Dynamic Friction System

The Static & Dynamic Friction Tester measures the frictional properties of flexibale packaging, foils, paper, board, rubber linoleum, textiles and leather.

Applications

- Coefficient of friction-Horizontal

Ray Ran

More information



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





EC900 Process Oxygen Analyser

This electronics oxygen analyzer is designed to accurately measure oxygen levels within most industrial gases and atmospheres. Used in applications from ppb up to 1000% 02. Can be used in gas streams such as hydrogen, combustibles, hydrocarbons and intert gases.



More information



United Fatigue To Failure System

United's PC-controlled FTF-48 rubber testing system performs fatigue-to-failure tests on up to 48 samples at once. The FTF-48 offers strokes from 0 to 4 inches at speeds up to 100 strokes per min and is designed to test ASTM D4482. United acquisition software...

Applications

- Cycle testing
- Failure analysis
- Tensile strength





Our Brands

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



























