

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



Our brands protect your brand 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







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



More information



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







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 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







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



More information



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







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



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

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





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



Bending Resistance Tester

The Bending Resistance Tester measures the bending force and crease line. The bending angle can be set at any degree between 0 and 90 degrees. The test length can be set on six distances (5, 10, 15, 20, 25 and 50 mm).

Applications

- Flex & Bend Testing
- Hardness/stiffness

MESSMER BÜCHEL





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

More information



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)







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

More information



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



More information



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







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



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

More information



DAT 1121 Dynamic Contact Angle Tester

Applications

- Contact angle







49-56 Micrometer

Messmer Büchel model 49-56 digital Micrometer measures the thickness with an accuracy of one Micron. The design is user friendly with a touch screen and solid frame for extra stiffness and accuracy. The micrometer has a sensor in front so it auto starts and stops....

Applications

- Thickness measurement



More information



PGX+ Pocket Goniometer

The model 68-76 PocketGoniometer PGX+ is a portable, video-based instrument designed for quality control applications. To quickly perform a measurement, simply place the unit directly on the specimen and press "start."

Applications

- Absorption
- Contact angle







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



Our Brands

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



























