



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.

2

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.



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)

[More information](#)

Ray/Ran



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)

[More information](#)

Ray/Ran

3



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)

[More information](#)

Ray/Ran



6MBA Advanced 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](#)



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](#)

4

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](#)



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

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

5

[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](#)

CNC 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 100mm thick

Ray'Ran

Falling Weight Impact Tester



The Falling Weight Tester is used to determine the energy required to break or rupture test specimens from Pipe, Sheet, Lamibates, 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](#)

Pneumatically Operated Test Sample Cutting Press



The Pneumatic cutting press is an effortless and 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](#)



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



United Earing Cup Measurement

United's DAT-18-CUP Series Tester automatically tracks the ductility properties of sheet metals and aluminum. Calculating the ductility properties in all directions of the material.

Applications

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

[More information](#)

UNITED TESTING SYSTEMS

7



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

[More information](#)

UNITED TESTING SYSTEMS



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

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

[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

[More information](#)



8

United Fatigue To Failure System



United's Computer-controlled rubber testing system FTF-48 performs fatigue-to-failure test on up to 48 samples at one time. The United FTF offers strokes from 0 to 4 inches at speeds up to 100 strokes per min. United acquisition software automatically records...

Applications

- Burst strength-sheet-Test
- Can inspection
- Coefficient of friction-Slide Angle
- 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.

