RHOPOINT
AMERICAS

Quality control test instruments

Visit website

EXPERTS IN MEASUREMENT

Helping manufacturers increase efficiency and product quality with accurate measurement instrumentation.

For over 35 years, Rhopoint has been assisting customers in a wide variety of industries globally to produce consistent materials, free from defects.

Accurate measurements

Reduce waste

Consistent quality

Increase production

CONTENTS

Introduction

RHOPOINT INSTRUMENTS

About Rhopoint Instruments Ltd.

Rhopoint Instruments Ltd. is a UK based manufacturer of test equipment primarily focused on the measurement of appearance and surface quality.

Rhopoint Instruments, a subsidiary of Rhopoint Holdings, was founded in 1986 as a manufacturer of glossmeters. Since this time, the range has developed and grown to test not just gloss but many other parameters of total surface quality.

Revolutionary new measurement metrics of Reflected Image Quality (RIQ) and Rspec have been designed and developed by Rhopoint Instruments. These metrics have redefined the way that manufacturers in every industry sector are quantifying orange peel in surface finishes.

Gloss, Haze, DOI & Opacity

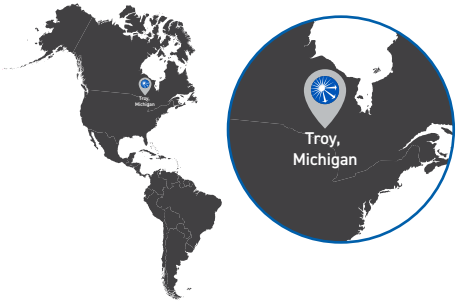
Keeping the finish of your coatings consistent

Transparency Measurement

Characterise the transparency of material

Liquid Coating Testing

Test instruments for testing paints and liquid coatings



RHOPOINT AMERICAS

About Rhopoint Americas Inc.

Rhopoint Americas Inc. was established in 2018 to provide a dedicated service to customers located in North, Central and South Americas. Head-quartered in Troy, Michigan, Rhopoint Americas is ideally situated to offer support to the automotive and coatings industry sectors.

Carrying comprehensive local stock of the appearance testing instruments manufactured by Rhopoint Instruments Ltd., Rhopoint Americas offers online ordering for all instruments in the range at manufacturer's direct pricing. Free next day shipping is offered within the USA for all hand-held instruments.

RHOPOINT INSTRUMENTS

About Rhopoint Instruments GmbH

Rhopoint Instruments GmbH. was established in 2022 to provide a dedicated service to customers located in Germany, Austria, Switzerland and the rest of mainland Europe.

Our staff have an expertise in all industry sectors from plastic films to automotive, Rhopoint Instruments GmbH is able to provide excellent technical assistance to our customer base.

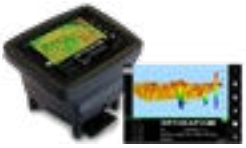
Fogra

DIN MITGLIED

Packaging Test Instruments

Keeping production efficient and consistent

Surface & Appearance Analysis



Characterisation of common surface irregularities

GLOSS, REFLECTANCE HAZE, DOI & OPACITY

Instruments for measuring appearance quality

Rhopoint IQ

Gloss, Haze and Orange Peel

RHOPOINT

- **Multi-angle Glossmeter**
- **Reflectance Hazemeter**
- **Distinctness of Image Meter (DOI)**
- **Reflected Image Quality**
- **Rspec**

Measures haze and orange peel effectively

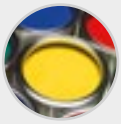
Using patented technology, the Rhopoint IQ provides a unique solution for the measurement of haze and orange peel. Although visible to the naked eye, they are not detected by a standard glossmeter.

By measuring the quality of the reflected image it is the only hand held instrument that truly profiles how light is reflected from a surface.

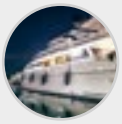
Rapid and detailed analysis

In one quick and easy operation, the IQ not only measures gloss at three angles but also measures haze, DOI (distinctness of image) and Rspec (specular reflectance) providing a detailed analysis of the image forming quality of the surface.

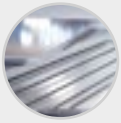
Applications



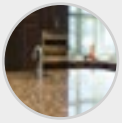
Paints & Coatings



Yacht coatings

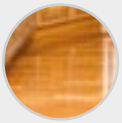


Metal polishers



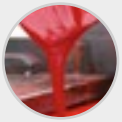
Polished stone

Smart phone & screen covers



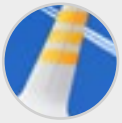
Wood coatings

Automotive re-finish



Printing ink

Automotive



Aerospace

Standards:

- DIN EN ISO 2813
- ASTM D523
- ASTM D2457
- DIN 67530
- JIS Z 8741
- ISO 7668
- ASTM E430

To ensure accurate and reliable results, Rhopoint Novo-Gloss Instruments are supplied with standards calibrated and certified according to ISO 17025 UKAS.

Rhopoint IQ Flex 20

Gloss, Haze and Orange Peel of small surfaces

RHOPOINT IQ FLEX 20

- Measurement of small and curved surfaces
- DOI / RIQ Meter, (quantify orange peel)
- Hazemeter (reflectance haze)
- Custom adaptors for use on non-flat surfaces

Accurate measurement

The Rhopoint IQ FLEX 20 brings gloss, haze and distinctness of image measurement to a new format. It is specifically designed for small areas and curved surfaces that cannot be accurately measured with traditional glossmeters.

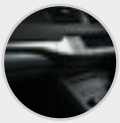
Easily customisable

The Rhopoint IQ FLEX 20 can be customised with magnetically attached adaptor plates. These can be easily interchanged for different applications and provide reduced measurement areas as low as 2mm.

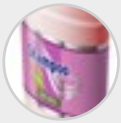
To increase the repeatability of curved surface measurement, alternative adaptor plates can be designed for specific samples.

Applications

Automotive exterior



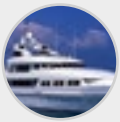
Automotive interior



Cosmetics

PVC

Smart phones, tablets & laptops



Yacht manufacturers

Polished metals

Curved surfaces

To ensure accurate and reliable results, Rhopoint Novo-Gloss Instruments are supplied with standards calibrated and certified according to ISO 17025 UKAS.

High curvature surfaces

View online

Enquire now

Novo-Curve

60° bench glossmeter

RHOPOINT NOVO-CURVE

- **Benchtop glossmeter**
- **Measures at 60°, suitable for all gloss levels**
- **Measures curved surfaces**
- **Measures small surfaces**

Easily measure curved and small areas

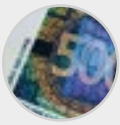
The Novo-Curve™ is a unique bench top instrument designed for the gloss measurement of curved surfaces and small areas that are difficult to measure with standard glossmeters.

The large sample platform allows hands free measurement by simply placing the item over the measuring aperture. Four adjustable jigging posts are also available to provide consistency in sample positioning.

Statistical data is stored internally in the instrument memory and can be either viewed on screen or by downloading to PC using the Novo-Gloss Multi Gauge software supplied.

Applications


Plastic parts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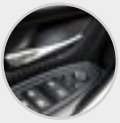
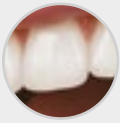
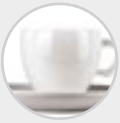

Automotive

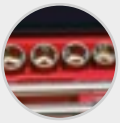

Dental research


Furniture

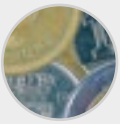

Food products

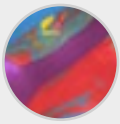

Ceramics


Medical


Electroplating


Confectionery


Coins


Paints & Coatings

To ensure accurate and reliable results, Rhopoint Novo-Gloss Instruments are supplied with standards calibrated and certified according to ISO 17025 UKAS.

Novo-Gloss

Glossmeters for a variety of surface finishes

RHOPOINT
NOVO-GLOSS

- **60, 45, 20/60/85 and 20/60/85 with haze variants**
- **Intuitive interface requires minimal training to operate and interpret results**
- **Simple data transfer**

Test across a variety of gloss levels

Single, dual and trigloss glossmeters are high specification hand held instruments for measuring gloss.

Gloss is an aspect of the visual perception of objects that is as important as colour when considering the psychological impact of products on a consumer. Maintaining consistent gloss levels on every product or across different batches of a product is vital for manufacturers seeking maximum appeal of their finished goods.

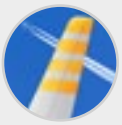
The advanced features of the instrument include user definable batches for more efficient measurement of multiple samples, direct data input via bluetooth into Microsoft Excel and pass/fail for easy identification of non-conformances.

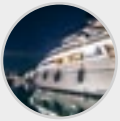
Standards

ISO 2813 | ASTM D523 | ISO 7668 | ASTM D2457
DIN 67530 | JIS Z 8741

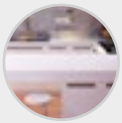
Applications

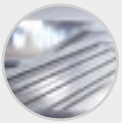

Automotive

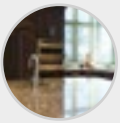

Aerospace

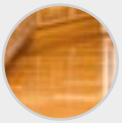

Yacht coatings

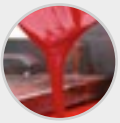

Smart phone & screen covers


Furniture

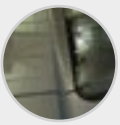

Metal polishers

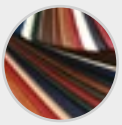

Polished stone


Wood coatings


Printing ink


Paints and coatings


Detailing


Textile

To ensure accurate and reliable results, Rhopoint Novo-Gloss Instruments are supplied with standards calibrated and certified according to ISO 17025 UKAS.

View online

Enquire now

Novo-Gloss Flex 60

Measures low gloss curved and small surfaces

- Ultra lightweight remote measuring head
- Suitable for ultra low gloss finishes
- For curved and hard to reach surfaces

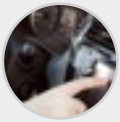
Increased control of surface finish

Designed specifically to measure the gloss of surfaces that cannot be measured using traditional glossmeters, the Novo-Gloss Flex 60 Glossmeter combines the functionality and reporting of an advanced glossmeter with an ultra lightweight remote measuring head.

The Novo-Gloss Flex 60 has been designed specifically to measure low gloss surfaces. It features an additional measuring scale with a resolution 10 times greater than standard glossmeters. This increased resolution gives a far superior level of control of surface finish.

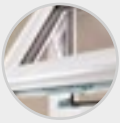
The Novo-Gloss Flex 60 complies to ISO 2813 and ASTM D523. Measurements are made with the instrument are compatible with traditional glossmeters complying to these standards.

Applications

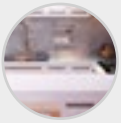


Curved plastic parts

Automotive interior trim



Plastics industry



Furniture

To ensure accurate and reliable results, Rhopoint Novo-Gloss Instruments are supplied with standards calibrated and certified according to ISO 17025 UKAS.

Novo-Shade Duo+

Measure shade, opacity and cleanliness

RHOPOINT
NOVO-SHADE DUO+

- Measure opacity (hiding power)
- Suitable for measuring coatings or plastic films
- Measures shade on grayscale

The Novo-Shade Duo+ combines 3 measuring instruments

The Novo-Shade Duo+ is a versatile solution for reflectometry measurement. Its standard configured geometry of 45°/0° allows objective measurements of the shade or opacity of a surface.

Shade: In shade mode, applications include the measurement of colour fading in textiles and plastics, shade of paints, inks and coatings, chalking of paint, efficiency of detergents and bleaching agents and the whiteness of recycled paper.

Opacity: Whilst in opacity mode, applications include the measurement of the hiding power of paints, inks and coatings, transparency of plastic films and opacity of paper. Its in-built automatic calibration ensures accurate measurements are guaranteed every time the instrument is used.

Cleanliness: Measures the cleanliness and oxidisation of metal surfaces.

Applications

Shade

Shade of paints, inks & coatings

Chalking of paint

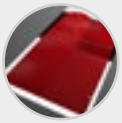
Efficiency of detergents & bleaching agents

Whiteness of recycled paper

Opacity

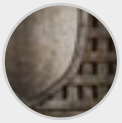
Transparency of plastic film

Opacity of paper



Hiding power of paints, inks & coatings

Cleanliness



Cleanliness and Oxidisation on Metal Surfaces

View online

Enquire now

TRANSPARENCY MEASUREMENT

Characterise the transparency of material

Rhopoint ID

Imaging transmission appearance meter

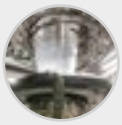
RHOPOINT iD

- Measures haze, transmission, sharpness in contact and at a distance
- Suitable for sheeted material up to 30mm thickness and small-size rigid plastics that cannot be measured with a standard ASTM D1003 hazemeter

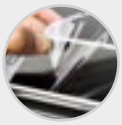
Rhopoint ID uses a high resolution camera to capture images of a target viewed through the test material. Imaging techniques are used to directly quantify the appearance quality of the sample.

High Sharpness (S = 98.71%) | Medium-High Sharpness (S = 76.34%) | Medium-Low Sharpness (S = 49.62%) | Low Sharpness (S = 18.02%)

Applications

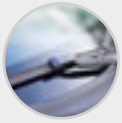


Films



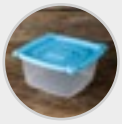
Display films

PET bottles

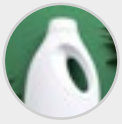


Windscreens

Mobile phones



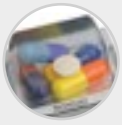
Rigid plastics



Recycled materials

Liquids, Gels & Pastes

Tubes & Pipes



Blister packaging

View online

Enquire now

Rhopoint ID-Inline

Advanced & Complete Analysis of Transparent Appearance

RHOPOINT iD IN-LINE
MEASURE WHAT YOU CAN SEE

NEW In-line measurement version

- **Camera-based system**
- **Quantify product transparency with parameters that are highly correlated to human perception**
- **Short or long focal distance versions available to suit customer production line**

Flexible software allows single or multiple ID sensors to be combined with compatible measurement devices and tabulated in the Rhopoint ID laboratory software.

Suitable for:

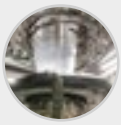
Large sheets of material

The IDTX sensor can be built into a large bespoke measurement station allowing large sheets of plastic or glass to be measured easily

3D objects

3D objects such as visors or transparent trays that are too large to be easily measured on the bench-top ID can be measured using a bespoke inspection station

Applications


Films


Windscreens


Cast or extruded films


Large sheets of material


Glass sheets

3D objects


Tubes & pipes

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View online

Enquire now

Rhopoint Novo-Haze TX

Measures total transmission and haze

RHOPOINT NOVO-HAZE TX

- Measures haze and total transmission to ASTM D1003 (CIE C)
- Traditional sphere hazemeter
- Simple and easy to use

Minimal test time, maximum accuracy

The instrument features an intuitive user friendly interface which minimises the test time and makes it an ideal choice for both QC and R&D.

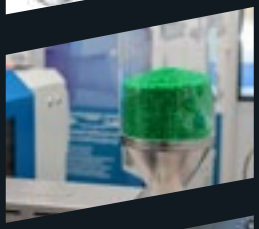
Uncompromising design, high quality materials make the Novo-Haze TX the ideal choice for any laboratory or QA environment.

At 50% of the price of the market leader for ASTM D1003 (CIE C) measuring instrument, the Rhopoint Novo-Haze TX represents huge savings without compromising measurement accuracy.

Examples

Viewed through material with low haze

Viewed through material with higher haze



LIQUID COATING TESTING

Test instruments for testing paints and liquid coatings

Minimum Film Forming Temperature Instrument

Determines the MFFT of latex, emulsions and adhesives

RHOPOINT
MFFT-90

- Paints and coatings
- Adhesives
- Touch screen display
- Industry standard instrument

Tests minimum film forming temperatures

The Rhopoint MFFT is used to determine the minimum film forming temperature and white point in paint and coatings such as water based coatings, polymer dispersions, synthetic latexes and emulsion.

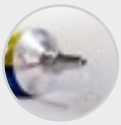
The MFFT also tests adhesive temperature optimisation in such areas as coalescence of water-borne adhesives and minimum temperature for epoxy resin cure.

Easy to use design

The new MFFT benefits from an easy to use touch screen interface, digital MFFT temperature calculation and output to handy results labels. These additions to the trusted Rhopoint MFFT make the instrument easy to operate with improved certainty results.

Applications

Resins



Adhesives

Paints & Coatings

Optional chiller / water recirculation unit to regulate the incoming water supply temperature and reduce costs

View online

Enquire now

Flow Cups

Measure viscosity and flow time

- **Aluminium body**
- **Stainless steel orifice**
- **Variety of flow times**
- **Afnor | BS | ISO | DIN | Frikmar standards**
- **Measure viscocity and record flow time precisely**

This precision engineered range of standardised flow cups allow the measurement of the kinematic viscosity of paints, varnishes and other newtonian liquids by recording the flow time of the product through the cup.

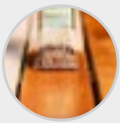
Precision engineered

Manufactured from high grade aluminium alloy and fitted with stainless steel orifices (specification dependant) the flow cups are easy to clean and durable.

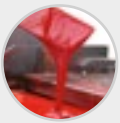
A high quality internal surface finish for optimum accuracy and performance is obtained using the latest computerised machining process.

Applications

Paint

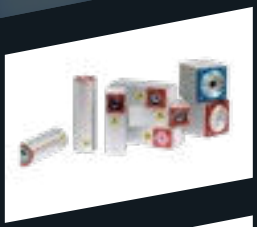


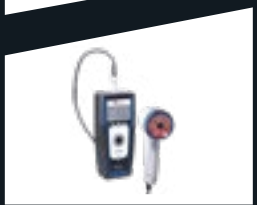
Varnish



Printing ink

Adhesives





COATINGS THICKNESS

Instruments for measuring the thickness of coatings

PaintChecker Industrial Controller

Measures coating thickness

- **Precision paint thickness gauge**
- **Non-contact measurement**
- **Fully automated**

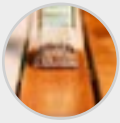
Whether paint, powder or glaze, rough, smooth or particularly thick, cured or immediately after application: our PaintChecker Industrial controller measures the coating thickness at up to eight points at the same time – contactless and fully automated in continuous industrial operation.

Another headline here

The PaintChecker Industrial models support multi-point measurements with up to 8 sensors. They acquire all measurement points at the same time and evaluate them simultaneously. Measurements on multiple parts or different part positions are performed in a fraction of the time without cost-intensive automatic movement systems. This is a very cost-effective way to reduce throughput times in automated production lines. All sensors of the laser, LED or high-power series can be combined with the respective PaintChecker Industrial model.

Applications

Powder Coating



Varnish

Resins

Printing ink

Benefits:

- ✓ Robust photothermal measurement process for a large number of material combinations
- ✓ Longest service life, energy efficiency and vibration resistance, thanks to the semiconductor light source
- ✓ Small measuring spot for corners, edges and hard-to-reach places
- ✓ Compact design for use in confined spaces
- ✓ Minimal weight, optimal for robot mounting
- ✓ Eye-safe models with patented LARES® technology available
- ✓ Up to eight measurements simultaneously, even with different sensors
- ✓ High-power versions for thick coatings, large measuring distance and higher energy density
- ✓ Short measuring time for high-speed production lines
- ✓ Interfaces to industry standard PLC and QA systems

PaintChecker Industrial Sensor

Determines the thickness of paint

- **Paint thickness checker**
- **Suitable for most coatings applications**
- **Ideal for robot mounting**

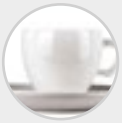
Whether glossy paint, rough powder coating, thick glass ceramic, tiny part or use in the tightest of spaces, we offer the right sensor for every application – small, lightweight, eye-safe and ideal for robot mounting.

Why choose the OptiSense PaintChecker Industrial Sensor?

- Laser Sensors - the OptiSense laser sensors use a diode laser as a light source – with all the advantages of semiconductor technology, such as long service life, high efficiency and absolute vibration resistance.
- LED Sensors - our LED sensors have a larger measurement spot than the laser versions and are particularly suitable for the rough and granular surface of powders and pastes. Depending on the coating material, you can choose between infrared and UV excitation models.

Applications

Powder Coating



Ceramics

Benefits:

- ✓ Robust photothermal measurement process for a large number of material combinations
- ✓ Longest service life, energy efficiency and vibration resistance, thanks to the semiconductor light source
- ✓ Small measuring spot for corners, edges and hard-to-reach places
- ✓ Compact design for use in confined spaces
- ✓ Minimal weight, optimal for robot mounting
- ✓ Eye-safe models with patented LARES® technology available
- ✓ Up to eight measurements simultaneously, even with different sensors
- ✓ High-power versions for thick coatings, large measuring distance and higher energy density
- ✓ Short measuring time for high-speed production lines
- ✓ Interfaces to industry standard PLC and QA systems

PaintChecker Lab

Measures wet, powdery and solid coatings

- **Precision paint thickness gauge**
- **Measures wet coatings**
- **Non-contact measurement**

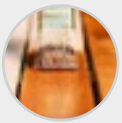
The PaintChecker Lab is a small, stationary tabletop instrument with a high-performance power supply for continuous operation in the lab. Like the other OptiSense PaintChecker models the Lab devices accurately measure wet, powdery and solid coatings on metallic and non-metallic substrates without touching the surface.

Features include:

- The OptiSense Lab laser models are used for a wide range of coatings on metallic and non-metallic substrates.
- PaintChecker Lab LED-R LED sensors feature a larger measuring spot making them ideal for freehand measurements on rough surfaces. The LED-R model is particularly suited for components made of plastic or rubber.
- PaintChecker Lab LED-B is designed for contactless testing of freshly applied powder coatings prior to burn-in.

Applications

Paint



Varnish

Benefits:

- ✓ Contactless photothermal process for many material combinations
- ✓ Small measuring spot accurately detects small parts, corners and edges
- ✓ With the sensor, which is separated from the tabletop device, even hard-to-reach areas can be accessed
- ✓ High-performance power supply for continuous operation in the lab
- ✓ USB interface to connect to PC and notebook
- ✓ Operation, data visualization and evaluation via intuitive OS Manager software
- ✓ Easy data export to Microsoft Office

PaintChecker Mobile

Measures wet, powdery and solid coatings

- **Precision paint thickness gauge**
- **Measures wet coatings**
- **Non-contact measurement**

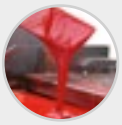
The PaintChecker Mobile models from OptiSense enable accurate measurement of wet, powdery and solid coatings on metallic and non-metallic substrates without the need for contact. The compact, lightweight, handheld devices are designed for continuous, fatigue-free use in the laboratory and on the production line.

Models include:

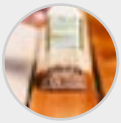
- PaintChecker Mobile Gun-B (for Powder Coating)
  Designed for contactless inspection of freshly applied powder coatings prior to burn-in.
- PaintChecker Mobile Gun-R (for Plastic and Rubber)
  The larger measuring point makes LED sensors ideal for freehand measurements on rough surfaces.
- PaintChecker Mobile Laser Pen (Smooth Surfaces on Metallic Substrates)
  These models are mainly used for smooth coatings on metallic substrates. The slim laser sensors are particularly suitable for coating thickness inspections on delicate small parts, corners and edges thanks to their tiny measuring spot.

Applications

Powder Coating



Printing inks

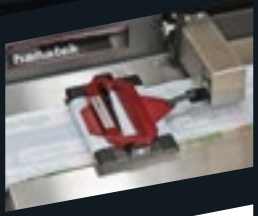


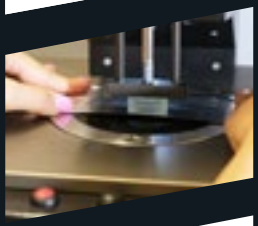
Varnish

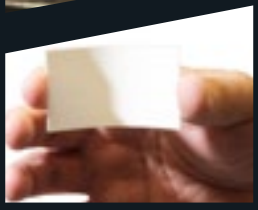
Plastic

Benefits:

- ✓ Contactless photothermal process for many material combinations
- ✓ Small measuring spot accurately detects small parts, corners and edges
- ✓ With the sensor, which is separated from the handheld device, even hard-to-reach areas can be accessed
- ✓ Robust semiconductor technology for long battery life
- ✓ Intuitive operation and acoustic confirmation enable measurements without looking
- ✓ Three-point illuminated visor ensures correct measuring distance for freehand measurements
- ✓ Measurement results and evaluation can be seen at a glance on the large, clear display
- ✓ USB interface for data storage and analysis with PC and Excel







PACKAGING TEST INSTRUMENTS

Keeping production efficient and consistent

Crease & Board Stiffness Tester

Predict Packaging Performance

HANATEK CREASE & BOARD STIFFNESS TESTER CBT1

- **Board stiffness**
- **Crease recovery**
- **Crease to board stiffness ratio**

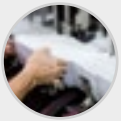
Improves packaging efficiency

Board stiffness test and crease resistance testing are important parameters that help determine maximum conversion and packaging speeds, they can also be related to the final dimensional stability of the finished product.

The Hanatek Crease & Board Stiffness Tester (CBT1) gives board manufacturers, printers and packing companies the ability to predict the 'runability' of a sample board or finished carton.

Applications

Printed carton board



Unprinted carton board

Carton Force Analyser

Increase the running speed of carton packaging

HANATEK CARTON FORCE ANALYSER CFA

- **Measures all the forces required to erect and fill cartons**
- **Crease resistance (spring-back), board stiffness, carton opening force, crease opening force**
- **Variable sample sizes and small crease testing including HL**

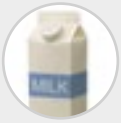
Eliminate rejections, reduce waste and increase the running speed

The Hanatek Carton Force Analyser (CFA) measures the forces that limit the running speed of folding box board packaging.

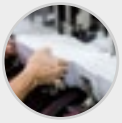
By measuring the stiffness of the substrate and crease bending resistance, the user can optimise cartons for faster running and packaging speeds.

The instrument allows individual creases to be analysed identifying problem areas in packaging design or manufacture.

Applications



Printed carton board



Unprinted carton board

Bending Moment

Board Stiffness

Ratio of Crease to Board Stiffness

Crease Recovery Stiffness

Crease Folding Force

Crease Opening Force

Carton Opening Force

Relative Crease Strength

Geometrical Stiffness

Crease/Board Analyse

Folding Factor

Carton Crease Proofer

Production quality crease samples

HANATEK CCP CARTON CREASE PROOFER

- Determine optimum crease settings
- Check substrate suitability
- Check ink & coating flexibility

Indicates how a finished carton will run on an automated glueing, filling or packaging line

The Hanatek Carton Crease Proofer (CCP) allows the user to produce production quality crease samples without committing valuable machine time. The instrument can assist in checking ink and coating flexibility.

The CCP comes complete with commercially produced rules and dies which are identical to those used on a full sized cut and crease machine.

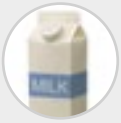
Control substrate quality

Important substrate properties can be easily compared before printing and converting.

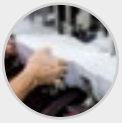
Check for coating cracking

Produce production quality creases and predict carton run-ability using a Hanatek crease and board stiffness tester.

Applications



Printed carton board

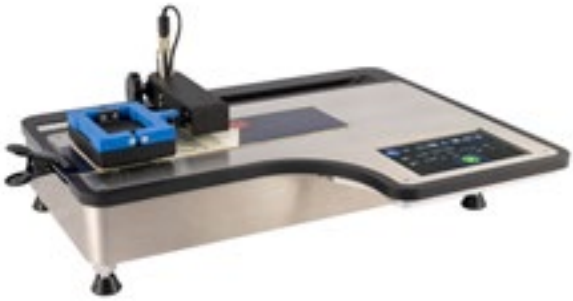


Unprinted carton board

Universal Friction Tester

Precise Coefficient of Friction (COF) Tester

RHOPOINT UNIVERSAL FRICTION TESTER UFT



- **Static and dynamic coefficient of friction**
- **This fully-featured instrument includes attachments for peel, tear and seal strength.**
- **LAB version offers analysis software + peel, tear and seal integrity tests**

This standalone instrument is designed for simple QA testing of static and dynamic COF and features pre-loaded ISO/ASTM/friction test methods with the option to create a custom test.

Optional Analysis Software

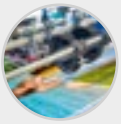
Software features graphical reporting of results and allows unlimited custom test routines to be created in minutes. Tolerances for both static and dynamic COF can be set for each test routine allowing for easy identification of non-conformances.

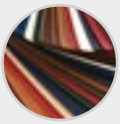
Applications


Printed packaging


Foil packaging


Plastic film


Printed paper

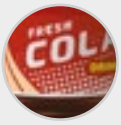

Leather


Textiles


Cartons


Labels


Paper


Printed films

Friction test

Peel testing

Tear testing

Seal strength

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View online

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Rub & Abrasion Tester

Durability of inks, coatings, printed cartons and films, and labels

HANATEK RUB & ABRASION TESTER RT4

- **Assess coating & substrate suitability**
- **Test the rub resistance of printed material to BS3110**
- **Optional test: solvent resistance/wet rub test**
- **Optional test: scratch / abrasion testing**

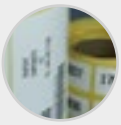
Designed to increase the efficiency and repeatability of rub proof testing, this comparative test works by abrading a printed sample against a reference material under known conditions.

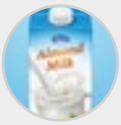
The results can be used to identify alternative substrates, better ink and coating formulations for the suitability of finished cartons, films, printed books, magazines and promotional materials.

The Hanatek Rub & Abrasion Tester (RT4) can be programmed for the required number of cycles, enabling it to be run concurrently with other laboratory tests.

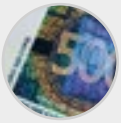
Optional test attachments offer the ability to conduct tests under harsher conditions and can be used to check the solvent resistance or the cure of UV inks.

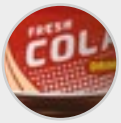
Applications

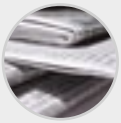

Barcode labels

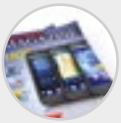

Printed cartons

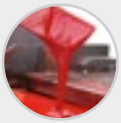

Security printing

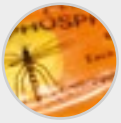

Holograms


Films


Newspaper


Magazines


Printing inks


Printed packaging

View online

Enquire now

Universal Sample Cutter

Cuts variety of materials

HANATEK USC UNIVERSAL SAMPLE CUTTER

- **Configurable for multiple test types e.g. friction, grammage, rub**
- **Suitable for film, paper, foils etc.**
- **Same accuracy independent of operator**
- **Repeatable, time saving**

The Hanatek Universal Sample Cutter (USC) has been designed for the simple cutting of samples for the packaging laboratory.

Time

Save valuable time by preparing multiple samples simultaneously.

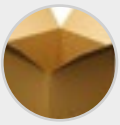
Cost Effective

The USC uses interchangeable dies to suit different test types. Simply purchase a new die for the test type required.

Safety

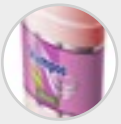
Increase operator safety – no knives required.

Applications


Unprinted carton board

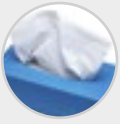

Printed packaging


Non-woven


Labels

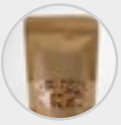

Paper


Foils


Tissue paper


Plastic film


Tobacco packaging


Flexible packaging

Standard Dies

We have standard dies available to cut samples for most test types including:

- Friction
- Tensile
- Grammage
- O2 permeability
- CO2 permeability
- WVTR
- Rub resistance
- Carton crease
- Carton stiffness & more

Film Shrink Tester

Measures the effect of temperature on plastic.

HANATEK FST FILM SHRINK TESTER

- **Determines quality of cast and blown films**
- **Measures unrestrained film shrinkage**
- **Simple laboratory test**

Film shrinkage is important to industry as blown films are often heat treated to form protective packaging for perishable food or manufactured products.

The Hanatek Film Shrink Tester (FST) is used to measure the effect of temperature on plastic films.

Fast efficient testing

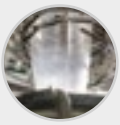
Fast and accurate hotplate control allows a film shrink test to be performed in minutes.

Easy determination of percentage film shrink

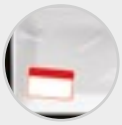
The easy to read, back lit scale allows percentage shrink to be easily determined.

Applications

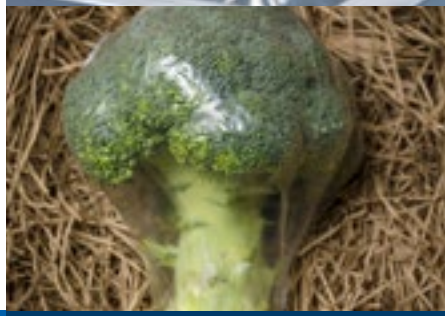
Stretch film



Blown film



Shrink wrap



View online

Enquire now

Precision Thickness Gauge

Precisely measures the thickness of a variety of substrates

HANATEK PRECISION THICKNESS GAUGE FT3

- **Repeatability of better than 0.4 µm**
- **Factory configured to a choice of international standard**
- **User programmable number of readings, dwell time and down speed**

Accurate and repeatable thickness measurements can improve product quality whilst controlling the costs associated with raw material usage.

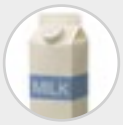
Physical test parameters of the Hanatek thickness gauge can be factory configured according to international standards or customer requirements. The high accuracy of the instrument is achieved by controlling these key factors:

- Momentum and profile of measurement probe
- Measurement pressure
- Measurement dwell time

The instrument is linearised throughout its measurement range using multi point calibration

Flatness of measurement head/anvil <0.2µm, Typical parallelism <1µm

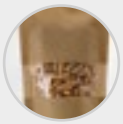
Applications


Carton board


Paper

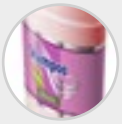

Plastic film


Adhesive tape


Flexible packaging


Laminated packaging

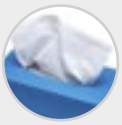

Foil packaging

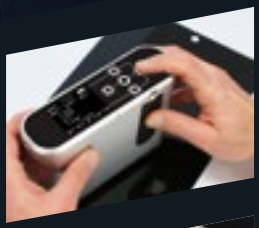

Labels

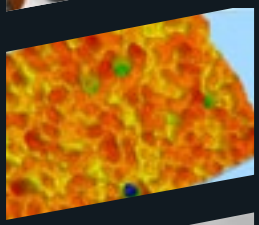

Textiles


Non-Woven


Geomembrane


Tissue paper





SURFACE & APPEARANCE ANALYSIS

Characterisation of common surface irregularities

LITEsurf Roughness Tester

Measures roughness characterisation

- **Connects to 'Roughness studio app' for easy reporting**
- **300+ measurements per charge**
- **Measure zones horizontally or vertically**

Introducing the NEW LITEsurf roughness tester for production areas.

Compactness, robustness, ease of use and clarity of the results make LITEsurf the ideal choice for roughness characterisation.

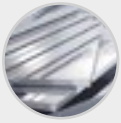
Why choose LITEsurf

- Connectivity - integrated Bluetooth and USB connection allows you to connect in an intuitive and fast way
- Flexibility - Measure zones horizontally, vertically, up / down or sideways.
- Robustness - the light alloy body machined from solid combined with a PC / ABS body that guarantee high rigidity with high impact resistance.
- Reporting - Generate customised reports with company logo, description, notes and even a photo of the measured detail and save them in a standard format such as in PDF or Excel for easy sharing and archiving.

Applications

Automotive

Smart phone & screen covers



Metal polishers

Paints and coatings

Optimap 3 PSD

Complete surface analysis

OPTIMAP3 PSD

- Map and measure surface finish
- Large area measurement
- Suitable for substrates from composite material to top coat

Powerful quality control

On-screen functionality includes cross-sectional viewing allowing detection and characterisation of common surface irregularities including defects and waviness. In quality control, inferior surface evaluation methods are still commonplace.

Accurate and fast data

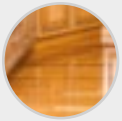
Many methods are subjective, time consuming and lack definition. Modern consumers demand high quality products with surface finishes that are homogeneous and free from defects. The Optimap 3 provides a unique solution to these measurement challenges providing quantifiable data for improved production control.

Applications


Automotive

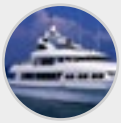

Displays

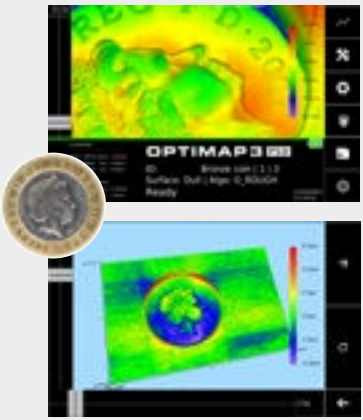

Aerospace


Furniture


Plastics & composites


Paints & coatings


Yacht coatings



View online

Enquire now

Rhopoint TAMS®

(Total Appearance Measurement System)

TAMS™

- **NEW metrics for paint appearance measurements**
- **Suitable for raw materials, e-coats, primers, top coat and clear coat**
- **Characterization of common surface irregularities including defects, waviness and roughness**

Instrumental analysis of surface appearance, roughness and waviness in the automotive painting process

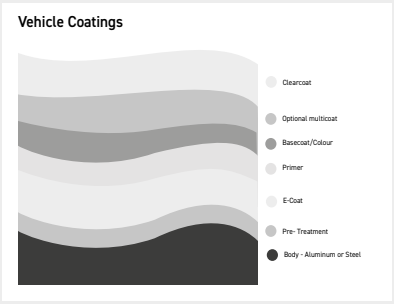
The Rhopoint TAMS® is a product jointly developed by Rhopoint Instruments and Volkswagen AG. A beautiful smooth finish is a key aim when painting a vehicle.

The quality of this finish is determined by the surface roughness & waviness of the raw material to be painted and the effectiveness of each subsequent coating process as well as any polishing or sanding operations.

The Rhopoint TAMS® can measure and map surfaces at all stages of paint processes from raw material to final topcoat.

This innovative device has many of the advantages of the high-resolution analytical tools combined with the portability and accessibility of a hand held device.

Applications



The Rhopoint TAMS® can be used at each stage of the coating process.

Low Contrast

High Contrast

Low Sharpness

High Sharpness

RoboTAMS

Automated Total Appearance Measurement System

RHOPOINT RoboTAMS

- The new standard for paint appearance measurement
- Non-contact measurements
- TAMS measurement sensor integrates fully into an inline inspection process

Measuring automotive paint finishes

The Rhopoint TAMS provides measurement data that closely correlates to human perception, is easier to understand and communicate.

TAMS measurement sensor integrates fully into an inline inspection process and is designed for top coat evaluation as part of the production line or offline measurement cell. The sensor is able to capture high resolution maps of surfaces and has the possibility to measure e-coat and raw materials.

This innovative new technology models the human perception of surface appearance quality, providing new parameters that revolutionise the understanding and communication of visual appearance information.

Try before you buy

Discover the perfect instrument for your requirements with our try before you buy service.

Feel confident in your purchase and that it delivers the results that you need.

Online Demonstration

Factory Sample Testing

Product Loan / Demo

Find out more & arrange a demo:

RHOPOINT AMERICAS

www.rhopointamericas.com/help-services/try-before-you-buy

ISO 9001:2015 ACCREDITED COMPANY

Test instruments are manufactured by Rhopoint Instruments in our factory in St Leonards on Sea, UK in an ISO 9001 environment*

bsi
ISO 9001 Quality Management Systems CERTIFIED FS 695372
ISO 14001 Environmental Management CERTIFIED EMS 741433

*Excludes PaintChecker and Litesurf products

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