

World-leading Surface Preparation and Finishing Solutions

Inspection



AIRBLAST EUROSPRAY, AN INTRODUCTION

Airblast Eurospray is one of the leading global voices in surface preparation and finishing. We design, manufacture, install and sell blast and spray equipment and facilities to some of the world's most important organisations. With roots stretching back to 1971, we're known for driving the market with innovative, technically excellent blast and paint solutions for a wide range of industries.

WORLD-LEADING BLAST AND SPRAY EXCELLENCE

Our equipment is used in many demanding environments where product integrity is vital – so we only manufacture and sell facilities and equipment that we know are:

- Robust
- Well-designed
- Powerful
- Able to deliver optimum performance – safely and efficiently

PROFESSIONAL RESULTS

We're proud to offer complete solutions for any blast and spray application with a full range of products and services to help you complete your work to a high professional standard. If you have a bespoke query or cannot locate a specific product our brochures, please contact our sales team who will be happy to help you.

KNOWLEDGE TRANSFER

Performance is nothing without knowledge - especially with safety-critical processes like blasting. That's why we provide full operator training with industry experts as well as top-up training to keep experienced operators up-to-date with the latest blast and paint technology and developments. Contact our Training Specialists on 01778 560650 to find out more.

SERVICE AND AFTERCARE

We want you to get the best from your equipment for years to come, so we offer:

- Product and facility servicing
- Service contracts with reduced parts and labour rates
- Equipment collection
- Site visits, inspection and investigation services
- Next day delivery on many products

EQUIPMENT HIRE

Want to try before you buy? Many of our products are available for hire including blast machines, coating systems, water injection pumps, vacuum transfer units, suction and pressure cabinets, dust arrestors, hand-held closed circuit blast machines, closed circuit blasting and extractor fans. Contact our Hire Team for more information.

Finance packages available to help spread the cost of purchase. Get in touch today.

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DTH-100 DIGITAL THERMOMETER

The DTH-100 Digital Thermometer allows immediate measurement of the substrate temperature.

The digital display clearly indicates the prevailing temperature and auto-updates as the temperature changes.

The ergonomic housing ensures a comfortable fit into the palm of the hand or easy storage in a pocket. The unit is supplied in a protective pouch for safe and easy storage.

The rigid stainless steel ribbon surface contact probe is secured into the body of the housing when not in use protecting against accidental damage. By folding the probe out of the housing through 180 degrees the unit turns on and becomes ready for use. The battery saving auto-shut-off feature turns off the product after five minutes of inactivity.

Accurate temperature information is important to ensure, for example, that the substrate remains within the advised temperature parameters of the coating system, or to ensure that the substrate temperature remains above the prevailing dew point.

A calibration certificate traceable to UKAS is available as a cost option upon request.



Part no.	Product	Range	Range temperature	Accuracy	Cal Cert Part No.
AB7861000	DTH-100 Digital Thermometer - Metric	-50 to 300°C	1°C	±1%	AB786100
AB7861001	DTH-100 Digital Thermometer - Imperial	-50 to 572°F	1°C	±1%	AB7861005

MTH-110/111 MAGNETIC THERMOMETER

The MTH-110 Magnetic Thermometer allows immediate measurement of the substrate temperature.

The MTH-110 Magnetic Thermometer measures surface temperature. The thermometer can easily be placed on ferrous substrates with the strong magnet on the back. Surface temperature can be read out in both °C and °F. Measuring Range is -10°C to +70°C; +14°F to +160°F. The diameter of the thermometer is 63mm. Can be used in a vacuum. No plastic parts on the outside of the thermometer.

The MTH-110 Magnetic Thermometer for surface temperature comes in a genuine leather pouch with belt-clip.



Part no.	Product	Range	Resolution	Accuracy	Cal Cert Part No.
AB7861100	MTM-110 Magnetic Thermometer	-30° to 50°C	1°C	±2%	AB7861105
AB7861101	MTM-111 Magnetic Thermometer	0° to 120°C	1°C	±2%	AB7861105

WHY AIRBLAST EUROSPRAY?

We're one of the leading global voices in the design, manufacture and installation of industrial surface preparation and finishing products and facilities.

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DPM-120 DEWPOINT METER

The DPM-120 is a multi-functional instrument which can be used to measure, record, and analyse the important climatic parameters in the surface treatment of metal substrates: air temperature, surface temperature, relative humidity, dew point. Additional information such as the time and date of readings taken are recorded for future reference. The ergonomic and tough DPM-120 is supplied in a convenient protective carry case.

Accurate temperature and humidity information is important to ensure, for example, that the substrate remains within the advised temperature parameters of the coating system, or to ensure that the substrate temperature remains above the prevailing dew point.



Features

- Large illuminated graphic display.
- One-hand operation.
- Simple menu-driven user interface.
- Extensive data-logging capabilities, readings are time and date stamped and stored on the gauge.
- USB-Interface connects the unit to the PC for programming and downloading data.
- To be used as "on the spot" inspectors tool or "stand-alone" data logger.
- Heavy duty ergonomic case.
- Set limits for each parameter.
- Acoustic and visual alarms.
- Select Celsius/Fahrenheit.
- Automatic trend indicator shows the trend of climatic conditions (rising, falling, stable).
- High-end industrial sensors and built-in probes.
- Integrated 'back-up' LED flashlight.
- DewLog temperature and humidity monitoring software included.
- Two year valid calibration certificate.

Complies with International Standards

ISO 8502-4, ASTM D3276-05, BS 7079-B4, NACE RP prop 97.

Specifications DPM-120 Dewpoint Meter - Part no. AB7861200

Humidity

Accuracy	(0...80°C, 0...176°F) ± 3 % RH
Measurement resolution	0.1%
Measurement range	0...100% RH

Temperature Ta (air)

Accuracy	±0.5°C, ± 1°F (over the full measurement range)
Measurement resolution	0.1°C, 0.1°F
Measurement range	-20...+ 80°C, -4...+ 176°F

Temperature Ts (Surface)

Accuracy	± 0.5°C, ±1°F (over the full measurement range)
Measurement resolution	0.1°C, 0.1°F
Measurement range	-30...+60°C, -22...+140°F

Temperature Ts (Surface External)

Accuracy	±0.5°C, ±1°F (over the full measurement range)
Measurement resolution	0.1 °C, 0.1 °F
Measurement range	-30...+60°C, -22...+140°F

Display

Graphical presentation with backlight

Operating temperature range	-20°C...60°C, -4...+140°
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Keys

Menu	3
On / off	1 (electronic)
LED flashlight	1 (electronic)

DPM-120 DEWPOINT METER

Memory	
Type	Dynamic
Memory size manual logging	6000 records
Record content manual logging	Time/date, humidity, Ta, Ts, Td, Tdelta, status byte for alarm
Memory size interval logging	12000 records
Record content interval logging	R Humidity, Ta and Ts. Other parameters and date and time are calculated
Batches	8 Batches max
Measurement / Features	
Limits	Adjustable for each parameter
Lo-Hi Alarms	Beep sound, symbol in display and Red LED
Hold/freeze function	Yes
Data storage	Two modes: Manual and interval (auto)
Data recall	Gauge displays average, min/max of each batch. Downloading to PC possible via optional adapter
Battery indicator	Yes, detailed
Trend indicator	Yes
User interface	Menu driven through up/down/enter key
Languages	4 languages, English, German, French, Spanish
Extra	Built-in bright white LED orientation flashlight

WHM-130 WHIRLING HYGROMETER

The WHM-130 can be used to calculate the prevailing dew point temperature quickly, easily, and economically in combination with a dew point calculation table.

Accurate dew point temperature information is important to ensure that the substrate temperature remains above the prevailing dew point thus avoiding condensation on the substrate.

Rapid rotation of the WHM-130 results in air movement around the thermometer bulbs, one of which measures the ambient temperature, the other measures the wet bulb (being housed in a reservoir in a fabric sleeve). The resulting temperature readings can be used with the dew point calculation table or dew point calculator to show the dew point. The WHM-130 is supplied in a hard plastic protective case.

A calibration certificate traceable to UKAS is available as a cost option upon request.

Complies with International Standards

BS 2842, ASTM E 337 B.



Part no.	Product	Range	Resolution	Accuracy	Cal Cert Part No.
AB7861300	WHM-130 Whirling Hygrometer	-5 to 50°C	0.5°C	±2%	AB7861320

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DPC-140 DEWPOINT CALCULATOR

The DPC-140 Dew Point Calculator can be used in conjunction with the WHM-130 Whirling Hydrometer (or an electronic temperature and relative humidity meter) to calculate the prevailing dew point temperature quickly, easily, and economically.

Accurate dew point temperature information is important to ensure that the substrate temperature remains above the prevailing dew point thus avoiding condensation on the substrate.

The DPC-140 is easy to use to establish the dew point: once the temperature readings have been recorded from the WHM-130 Whirling Hydrometer. Determine the dew point by putting the dry bulb temperature (upper white scale 1) against the wet bulb temperature (upper black scale). Read the dew point in window 2 against the earlier determined wet bulb temperature.

The DPC-140 is supplied in a protective case.



Part no.	Product	Range	Resolution	Accuracy	Cal Cert Part No.
AB7861400	DPC-140 Dewpoint Calculator	-6 to 43°C	0.5°C	±1%	7861410
		20 to 110°F			

SSM-200 SOLUBLE SALT METER

A new inspection tool has been developed to replace the Bresle patch method for soluble salt determination. This Soluble Salt Meter, for which United States Patent No. 8,252,600 was issued on August 28th 2012, was designed around the current Bresle patch salt inspection method. The SSM test protocol exactly duplicates the Bresle process, except that measurements are automated and there are no consumables (except distilled water). The complete test sequence requires only one minute. The SSM is approved as an authorised alternative to the Bresle patch method.



Benefits

- Accurate, easy measurements
- Memory stores up to 1000 measurements for download and analysis
- Repeatable results
- Rugged, industrial hardened measurement device
- Simple operating instructions
- Reduced process steps (17 steps reduced to 6 steps)
- Reduced process time (only one minute reading to reading)
- Eliminate process induced surface contamination (sticky residue)
- Equipment easily transportable (tank inspections)
- Improved safety (syringes/needles eliminated)
 - Operator error minimised
 - Metered water injection
 - Automatic data recording feature (configured to work with coating technical file)

Standards	Equivalent to ISO Standard 8502-9 (Field method for the conductometric determination of water-soluble salts; The Bresle method) in accordance with NACE SP0508-2008.
Measurement area	1250mm (circular) fixed foot print
Attachment method	Magnetic with silicone seal (no effect on surface quality; proven to seal over deep pits)
Water injection method	Automated, with simple press of fixed volume dispenser
Dose	3 ± 0.05ml
Measurement process steps	5
Total process time	60 seconds (Measurement to Measurement)
Measurement range	0-100µS/cm
Resolution	1µS/cm
Measurement accuracy	± 3µS/cm
Surface temperature range	5-50°C(41-122°F)
Temperature probe accuracy	±0.3°C (± 0.54°F)
Diameter of curvature:	- Standard measuring head >=44 inch/1100mm - Measuring head 1 26<=>42inch/650<=>1050mm - Measuring head 2 14<=>24inch/350<=>600mm - Measuring head 3 8<=>12inch/200<=>300mm
Readout	µS/cm or mg/m ²
Memory	Holds up to 1000 measurements (10 batches of up to 100 measurements each)
Connectivity	via USB with PC or laptop
Power supply	Lithium-ion rechargeable battery
IP Rating	IP54
Dimensions (instrument only)	21 x 10 x 8cm
Weight (instrument only)	780g

SSM-200 SOLUBLE SALT METER

The SSM can be purchased in two versions: the "Lite" version which includes 50 measurements with the possibility to purchase additional measurements as and when required, and the "Unlimited" version which can take unlimited readings. The "Lite" version provides the possibility to reduce the initial purchase price of the SSM and to purchase additional readings for specific projects. The "Lite" version can be upgraded to the "Unlimited" version by purchasing a licence.

Part no.	Description
AB7862000	SSM-200 Soluble Salt Meter Kit ("Unlimited" version), includes: <ul style="list-style-type: none"> • Soluble Salt Meter • SSM adapter flat surface • Dispenser • Power supply • USB cable and PC software • Calibration fluid • Carrying case • Certificate of performance • Unlimited credit measurements
AB7862001	SSM-200 Soluble Salt Meter Kit ("Lite" version). Same as above only with 50 measurements.
AB7862004	Upgrade license from "Lite" version to "Unlimited" version
AB7862005	100 measurements
AB7862011	Adapter pipe diameter 65–105cm (26"–42")
AB7862012	Adapter pipe diameter 35–60cm (14"–24")
AB7862013	Adapter pipe diameter 20–30cm (8"–12")
AB7862014	Set of adapters pipe diameter 20–105cm (8"–42")
AB7862015	Performance check for SSM-200 with certificate

BTK-220 BRESLE TEST KIT

The presence of salts on the substrate can lead to the premature failure of the coating system. Most high performance coating systems require that the substrate be cleaned to a recognised standard before the application of the coating.

Once the bresle patch is applied to the surface to be tested, distilled water can be analysed using the conductivity meter before being injected into and then extracted from the bresle patch the required amount of times before being analysed again in the conductivity metre. The difference in the two readings shows the conductivity of the water - by multiplying the result by 0.4 the presence of salts expressed in parts per million is shown.

The BTK-220 Bresle Test Kit includes all the necessary equipment for assessing the level of soluble salts on blast-cleaned surfaces prior to coating. Inside the Bresle Test Kit is a conductivity gauge used for the assessment of soluble salt ions as chlorides, sulphates and nitrates. The Bresle Test Kit complies with the ISO 8502-6 and ISO 8502-9 standards, describing the Bresle Method. This states that the conductivity is mainly directly proportional to the concentration of dissolved salts in the solution.



Contamination of blast-media

The Bresle Kit is also suitable to determine the contamination of blast-media. This prevents the dissolved salts in the recycled abrasive contaminating the surface being cleaned.

Features

Unique Direct Sampling Procedure (DSP) to ensure high speed and accuracy. Up to 60 times more accurate than other test kits available.

Application areas

Marine coatings, protective coatings, pipeline coatings.

Standards

According to ISO8502-6, ISO8502-9

SPECIFICATIONS	
Conductivity Meter Range	0.1–20000mg/m ² (with DSP method)
Conductivity Meter Resolution	0.1mg/m ² (with DSP method)
Conductivity Meter Accuracy	1%
Patches supplied	25
Temperature range	0–50°C
ATC	0–50°C
Normalisation temperature	25°C
Auto off	8.5 minutes after last key pressed
IP class	IP67
Auto calibration	at 84 μS/cm
Patch area	12.50cm ²
Patch type	Latex membrane

BTK-220 BRESLE TEST KIT

Part no.	Description
AB7862200	BTK-220 Bresle Test Kit, complete (includes spares as shown below)
Spares	
AB7862210	Bresle patches (pack of 25)
AB7862220	Digital Conductivity Meter (waterproof)
AB7862221	Cleansing solution 50ml
AB7862222	Calibration solution 84µS, 50ml
AB7862223	Cup 25ml
AB7862230	Syringe incl. needle 2.5ml
AB7862231	Syringe without needle 20ml
AB7862232	Needle
AB7862240	Deionised water 200ml
Optional	
AB7862211	Calibration Certificate for BTK-220
AB7862212	ISO 17025 approved certificate of patches
AB7862213	Bresle area mask magnet
On request	
	Beaker for testing of blast media 100ml

Standard delivery includes

- Digital conductivity meter
- Bresle patches 25 pcs.
- Cleansing solution 50ml/Calibration solution 84µS 50ml/De-ionised water 200ml
- Cups, syringes and needle
- Instruction manual

Special care

- Always clean the instrument after use and keep the instrument in its case when not in use.
- Depending on the frequency of use, a thin film may occur on the probe. Use a clean cotton swab and cleansing solution to remove this.

BTP-230 BRESLE PATCHES

The Bresle patch is a self-adhesive film patch for taking samples of soluble impurities on a test surface.

Application

Surface contaminants, such as salt, may cause coating failure and increase maintenance costs for vessels, industry buildings and steel structures in general. Coating failure such as blistering and corrosion may be the result of a too high level of salt prior to painting. The Bresle Method described in the ISO 8502-6 is commonly used to measure the level of surface salts prior to coating. A so-called Bresle patch (a small self-adhesive plastic patch) with a washed latex membrane and a known surface area is used to dissolve the soluble salts. It can be used to check for the presence of salts such as chlorides and sulphates on the substrate prior to the application of the coating.



Part no.	AB7862210	
Description	Bresle patches (packed in a plastic container per 25 pcs.)	
Technical Specifications	Size	5 x 5cm (2.0"x 2.0")
	Sample volume	2.5ml
	Test Area	12.5cm ² (1.93 sq. inches)
	Stress test	Meets ISO8502-6 Annex A
Material	Elastic film	Latex
	Tape	PE with acrylic based adhesive
	Protective paper	Coated
	One Bresle patch contributes with less than 8mg NaCl/m ² (0.8µg Na/Cl/cm ²)>	
Certification	Each production batch of Airblast Eurospray Bresle patches is certified by an ISO 17025 accredited test laboratory	
Storage	Store in a cool and dark place. Keep Bresle patch away from direct sunlight	

TXT-300/TXG-320 TESTEX SURFACE ROUGHNESS KIT

TXG-300 Testex Tape accurately reproduces the profile of the blasted surface which can be read by the TXG-320 Testex Gauge.

Achieving the correct profile during the blasting process is critical to ensure that the coating system to be applied performs correctly.

The TXG-300 Testex Tape is fitted with a protective paper which needs to be removed before the tape is adhered to the blasted surface and pressure applied. When removed, the tape features the profile of the blasted surface which can be read by the gauge and the average maximum peak to the valley height calculated. The gauge first needs to be zeroed to 50microns to take into account the backing on the tape, then the tape is placed in the gauge and the movable anvil adjusted onto the film – the reading is then ready to be taken.

Locations which are not easily accessible to other devices such as inside pipes and grooves can easily be measured using the testex tape method.

A calibration certificate traceable to UKAS is available as a cost option upon request.

Complies with International Standards

ISO DIS 8503-3, BS 7079-C5, ASTM D 4417-C, NACE RP 0287-95.



Part no.	Description	Range Metric	Range Imperial	Nr. of tests	Conformance Certificate
AB7863301	TXG-300 Testex Tape - Coarse	20–50µm	0.8–2.0mils	50	7863011
AB7863302	TXG-300 Testex Tape - X-Coarse	40–115µm	1.5–4.5mils	50	7863011
AB7863303	TXG-300 Testex Tape - X-Coarse Plus	100–125µm	4.0–5.0mils	50	7863011
					Calibration Certificate
AB7863200	TXG-320 Testex Gauge (Metric and Imperial)				7863205

SRC-340/341 SURFACE ROUGHNESS COMPARATOR

A precision Nickel Comparator Plate that conforms to International Standards ISO 8503 and ASTM D4417 for grit and shot blasted surface roughness comparison.

The SRC-340 (Grit) and SRC-341 (Shot) Surface Roughness Comparators can be used to assess the roughness of the surface of a substrate which has been blasted with shot or grit.

The classification of blast cleaned surfaces is subjective. In order to assist regular and consistent classification, shot blasted surfaces can be defined as angular (after blasting with grit), or dimpled (after blasting with shot), and furthermore into three grades: Fine, Medium, Course (as per ISO 8503).



The grades are defined as follows:

Fine profile equal to segment one and up to but excluding segment two.

Medium profile equal to segment two and up to but excluding segment three.

Course profile equal to segment three and up to but excluding segment four.

The relevant Comparator can be placed against the blasted surface and each of the four sections compared with the surface finish assisted with the use of an illuminated magnifier.

The Comparator is supplied in a protective case.

Complies with International Standards

ISO, 8503-1, ISO 8503-2, ASTM D 4417-AABS 772.

Part no.	Model type	Section profiles Metric	Section profiles Imperial
AB7863400	Grit	25µm, 60µm, 100µm, 150µm	1mils, 2.4mils, 4mils, 6mils
AB7863410	Shot	25µm, 40µm, 70µm, 100µm	1mils, 1.6mils, 2.8mils, 4mils
AB7865580	Illuminated Magnifier 2.5x (for viewing the Surface Comparator)		

SPG-360 SURFACE PROFILE GAUGE

The SPG-360 Surface Profile Gauge can be quickly and easily used to establish the valley - to - peak height of a blast cleaned surface in compliance with the ASTM D4417 standard.

Achieving the correct profile during the blasting process is critical to ensure that the coating system to be applied performs correctly.

The SPG-360 Surface Profile Gauge is easy to use: simply place the gauge on a glass plate and zero the instrument, then place the gauge onto a blasted surface. The sharp stylus point rests on the bottom of the valley and the flat foot sits atop the peak – the gauge digitally displays the height difference between the two values.

The SPG-360 Surface Profile Gauge has a resolution of one micron and can be switched between imperial and metric readings. It is supplied complete with a glass zero plate in a protective carry case.

A calibration certificate traceable to UKAS is available as a cost option on request.

Complies with International Standards

ASTM D 4417-B, SABS 772.



Part no.	Description	Range	Resolution	Accuracy	Cal Cert Part no
AB7863600	SPG-360 Surface Profile Gauge	0–3.4mm	1µm	±5µm	7863605
		0–0.12 inch	0.04mils	± 0.2mils	

DFT-400/420 DRY FILM THICKNESS GAUGE

The DFT-400 Dry Film Thickness Gauge provides a fast and economical solution to non-destructive dry film thickness assessment on ferrous substrates only. The DFT-420 Dry Film Thickness Gauge provides a fast and economical solution to non-destructive dry film thickness assessment on ferrous *and* non-ferrous substrates.

In order for coating systems to perform as designed, the thickness of each coat of paint must be within tolerances set by the material manufacturer – assessing the dry film thickness of the paint after the coating process is an invaluable tool to ensuring that the thickness of the coating is as specified.

The DFT-400 and DFT-420 Dry Film Thickness Gauges are ergonomic and light-weight yet tough and reliable, and are powered by standard alkaline batteries. Both units are switched on by placing the probe on the substrate to be measured and feature single button operation and intuitive menus. An audible signal confirms that a reading has been successfully taken and the back-lit screen displays readings clearly and quickly. Each gauge is supplied calibrated for life; this means that there is no requirement to calibrate the gauge before use, or in changing climatic conditions – simply use the zero plate provided to zero the gauge before use, or in changing climatic conditions, to ensure the accuracy of the readings.

Both gauges are available in integral or separate probe design with an industry leading polished ruby tip, ensuring millions of fast, reliable and accurate readings of up to Fe 5000 microns and/or NFe 3000microns. Each gauge features a sleep mode which turns the unit off after a short period of inactivity; by placing the probe onto a surface to be measured, the unit reactivates and is immediately ready for use.

The DFT-400 and DFT-420 are supplied in foam-filled hard plastic carry cases with an additional soft plastic pouch for ease of transportation in the job site, reference plates, 2 x 1.5V Mignon batteries (type AA alkaline), test certificate and instruction manual. Both gauges have hand-size straps allowing for easy fixing on the wrist or clothes.



DFT-400/420 SPECIFICATIONS

Measuring Principle	Two magnetic measuring principles: Fe: Magnetic-Flux/Hall Effect ref Fe* NFe: Eddy Current (DFT-420 only)
Standards and Regulation	DIN EN ISO 2808, ISO 2178, ASTM B 499, ASTM D 7091 (only DFT-420: ISO 2360)
Probe Type	Integrated or - optional - cable probe with 1m cable
Measuring Range	Fe: 0.0 – 5000µm or 0.0 – 3000µm. NFe: 0.0 – 3000µm (DFT-420 only)
Metric System µm / mil	Yes
Measuring Interval	Single measurement: 850ms
Display Metric	From 0.0 – 999 in µm, from 1000µm in mm
Resolution	1µm in the range up to 999µm, 0.01mm in the range from 1mm
Accuracy	± (2µm + 3% of the readings)
Minimum Measuring Area	Ø 25mm
Minimum Curvature	Convex: 5mm, concave: 25mm
Minimum Substrate Thickness	Fe: 0.2mm. NFe: 0.05mm (DFT-420 only)
Display	Graphic-LCD
Temperature Range	0 – 50°C
Permitted Storage Temperature	-10°C – 60°C
Power Supply	2 x Mignon Batteries: 1.5V (type AA alkaline)
Dimensions (L x W x H in mm)	100 x 60 x 27 (gauge with integrated probe)
Weight including battery	Gauge with integrated probe: 105g. Gauge with cable probe: 147g

Fe* Measuring of non-ferromagnetic coatings on ferromagnetic substrate, for example measuring on steel - or iron-substrates.

NFe* Measuring of non-ferromagnetic and electrically non-conductive coatings (insulating coatings) on non-ferromagnetic and electrically conductive substrate, for example measuring on aluminum-, zinc-, brass- and certain stainless (high-grade) steel-substrates.

Technical data subject to change without notice.

DFT-400 DRY FILM THICKNESS GAUGE

The DFT-440 Dry Film Thickness Gauge provides a fast and economical solution to non-destructive dry film thickness measurement, data storage, and analysis on ferrous and non-ferrous substrates. It is calibrated for life, features a patented probe design which allows for **integral or separate** use, and has an industry leading three year warranty.

In order for coating systems to perform as designed, the thickness of each coat of paint must be within tolerances set by the material manufacturer – measuring the dry film thickness of the paint after the coating process is an invaluable tool to ensure that the thickness of the coating is as specified.

The DFT-440 Dry Film Thickness Gauge is ergonomic and light weight (127g) yet tough and reliable, and is powered by standard alkaline batteries. The easy to use back lit four button key pad is intuitive and leads the user through the available menu options. The back lit screen displays readings clearly and has the possibility to flip through 180° when the gauge is turned upside down.



In addition to a (constant) factory calibration, the DFT-440 offers two calibration processes that are useful during specific measuring tasks such as measurement on curvatures or small parts.

- A one-point calibration can optimise the probe's measuring accuracy with an expected coating thickness.
- A two point calibration can increase the probe's measuring accuracy in a certain coating thickness range.

Up to one hundred readings can be stored in the gauge and can be downloaded via a wireless connection (software available as option). Once downloaded, the data can be analysed and stored in Microsoft Excel.

The DFT-440 Dry Film Thickness Gauge features a patented probe design which allows for integral or separate use to access hard to reach areas. The probe features an industry-leading tip manufactured from ruby ensuring millions of fast, reliable and accurate readings. The gauge features a sleep mode which turns the unit off after a short period of inactivity. By placing the probe onto a surface to be measured, the unit reactivates and is immediately ready for use.

A wireless probe is available as a cost option. The wireless probe allows measurements to be taken at a distance of up to twenty metres from one or multiple gauge units allowing for readings to be taken in very hard to access areas as well as being simultaneously monitored and recorded on multiple gauges. The wireless probe is extremely small and light weight (30g) and can take up to 4000 measurements without recharging.

The DFT-440 is supplied in a foam filled hard plastic carry case with an additional soft plastic pouch for ease of transportation in the job site. Both the Gauge and the probe have hand-size straps allowing for easy fixing on the wrist or clothes.

Gauge model	DFT-440
Probe type	Integral + Separate
Units	µm/mil
Measurement resolution	0.1µm in the range below 100µm, 1µm in the range from 100 to 999µm, 0.01mm in the range from 1000µm
Operating temperature	0 to 50°C
Storage temperature	-10°C to 60°C
Menu structure	
Measuring Mode	Substrate selection FE/NFe automated
Measuring Range	Upper/lower limit
Memory Capacity	Up to 100 measurements
Statistics	Average/standard deviation/maximum/minimum

DFT-440 DRY FILM THICKNESS GAUGE

Interchangeable probes/Probe type	Fe 2000µm	Fe 5000µm	NFe 2000µm	Dual Fe/NFe 2000µm	Dual Fe/ NFe NFe 5000µm/2000µm
Measuring mode	Magnetic: Magnetic flux/ Hall effect Fe*	Magnetic Magnetic flux/ Hall effect Fe*	Magnetic Eddy current NFe*	Magnetic Magnetic flux/ Hall effect Fe* Eddy current NFe*	Magnetic Magnetic flux/ Hall effect Fe* Eddy current NFe*
According to standard	DIN EN ISO 2808 DIN 50981 ISO 2178 BS 5411 (11) BS 3900-C5 ASTM B 499 ASTMD1186 ASTM D 7091	DIN EN ISO 2808 DIN 50981 ISO 2178 BS 5411 (11) BS 3900-C5 ASTM B 499 ASTMD1186 ASTM D 7091	DIN EN ISO 2808 BS 3900-C5 ASTM D 7091 DIN 50984 BS 5411 (3) ISO 2360 ASTM D 1400	DIN EN ISO 2808 DIN 50981 DIN 50984 ISO 2178 BS 5411 (3 & 11) BS 3900-C5 ASTM B 499 ISO 2360 ASTM D 1400 ASTM D 1186 ASTM D 7091	DIN EN ISO 2808 DIN 50981 DIN 50984 ISO 2178 BS 5411 (3 & 11) BS 3900-C5 ASTM B 499 ISO 2360 ASTM D 1400 ASTM D 1186 ASTM D 7091
Measuring range	0 –2000µm	0 –5000µm	0 – 2000µm	Fe: 0 – 2000µm NFe: 0 – 2000µm	Fe: 0 – 5000µm NFe: 0 – 2000µm
Measuring interval	1500ms	1500ms	1500ms	1500ms	1500ms
Measuring accuracy regarding automation standards	(1µm + 2% of the reading)	(1µm + 2% of the reading) in the range of 0.0 to 2.0 ± 3.5 % of the reading from 2.0mm	(1µm + 2% of the reading)	Fe: 0 – 5000µm NFe: 0 – 2000µm	(1µm + 2% of the reading) in the range of 0.0 to 2.0 ± 3.5 % of the reading from 2.0mm
Minimum measuring surface (mm x mm)	20 x 20	20 x 20	20 x 20	20 x 20	20 x 20
Minimum radius of curvature	Convex: 5mm Concave: 30mm	Convex: 5mm Concave: 30mm	Convex: 5mm Concave: 30mm	Convex: 5mm Concave: 30mm	Convex: 5mm Concave: 30mm
Minimum thickness of base material	0.2mm	0.2mm	0.05mm	Fe: 0.2mm NFe: 0.05mm	Fe: 0.2mm NFe: 0.05mm
Operation temperature	0 to 50°C	0 to 50°C	0 to 50°C	0 to 50°C	0 to 50°C
Storage temperature	-10 to 60°C	-10 to 60°C	-10 to 60°C	-10 to 60°C	-10 to 60°C
Power supply	From gauge	From gauge	From gauge	From gauge	From gauge
Dimensions (L x W x H in mm)	60 x 26 x 22 without extensions	60 x 26 x 22 without extensions	60 x 26 x 22 without extensions	60 x 26 x 22 without extensions	60 x 26 x 22 without extensions
Weight incl. batteries	ca. 12g	ca. 12g	ca. 12g	ca. 12g	ca. 12g

Technical data subject to change without notice.

DFT-441 DRY FILM THICKNESS GAUGE

The DFT-441 Dry Film Thickness Gauge provides a fast and economical solution to non-destructive dry film thickness measurement, data storage, and analysis on ferrous and non-ferrous substrates. It is calibrated for life, features a patented probe design which allows for **integral or separate** use, and has an industry leading three year warranty.

The DFT-441 Dry Film Thickness Gauge is ergonomic and light weight (127g) yet tough and reliable, and is powered by standard alkaline batteries. The easy-to-use back lit four button key pad is intuitive and leads the user through the available menu options. The back lit screen displays readings clearly and has the possibility to flip through 180 degrees when the gauge is turned upside down.



In addition to a (constant) factory calibration, the DFT-440 offers two calibration processes that are useful during specific measuring tasks such as measurement on curvatures or small parts.

- A one-point calibration can optimises the probe's measuring accuracy with an expected coating thickness.
- A two point calibration can increases the probe's measuring accuracy in a certain coating thickness range.

Up to thirty thousand readings can be stored in up to 250 batches in the gauge before downloading via a wireless connection to the software provided as standard with the gauge. Once downloaded the data can be analysed and stored in Microsoft Excel.

When taking readings on very rough substrates, the average zero value can be stored in the gauge memory to ensure that the substrate condition does not affect the quality of the readings. Furthermore a unique "Combined" mode allows the simultaneous measurement of zinc plated and epoxy based coating on steel substrates – in this mode the gauge will display the two separate coatings as two separate values.

The DFT-441 Dry Film Thickness Gauge features a patented probe design which allows for integral or separate use to access hard to reach areas. Each probe features an industry-leading tip manufactured from ruby ensuring millions of fast, reliable and accurate readings. The gauge features a sleep mode which turns the unit off after a short period of inactivity. By placing the probe onto a surface to be measured, the unit reactivates and is immediately ready for use.

A wireless probe is available as a cost option. The wireless probe allows measurements to be taken at a distance of up to twenty metres from one or multiple gauge units, allowing for readings to be taken in very hard to access areas as well as being simultaneously monitored and recorded on multiple gauges. The wireless probe is extremely small and light weight (30g) and can take up to 4,000 measurements without recharging.

Gauge model	DFT-441 - part no. 7864410
Probe type	Integral + Separate
Units	µm/mil
Measurement resolution	0.1µm in the range below 100µm, 1µm in the range from 100 to 999µm, 0.01mm in the range from 1000µm
Operating temperature	0 to 50°C
Storage temperature	-10°C to 60°C
Menu structure	
Measuring Mode	FE/NFe automated, combined measurement
Measuring Range	Upper/lower limit, average
Memory Capacity	Up to 30,000 measurements in 250 batches
Statistics	Average/standard deviation/ maximum/minimum

DFT-441 DRY FILM THICKNESS GAUGE

Interchangeable probes/Probe type	Fe 2000µm Part no. AB7864420	Fe 5000µm Part no. AB7864421	NFe 2000µm Part no. AB7864422	Dual Fe/NFe 2000µm Part no. AB7864423	Dual Fe/ NFe NFe 5000µm/2000µm Part no. AB7864424
Measuring mode	Magnetic: Magnetic flux/ Hall effect Fe*	Magnetic: Magnetic flux/ Hall effect Fe*	Magnetic: Eddy current NFe*	Magnetic: Magnetic flux/ Hall effect Fe* Eddy current NFe*	Magnetic: Magnetic flux/ Hall effect Fe* Eddy current NFe*
According to standard	DIN EN ISO 2808 DIN 50981 ISO 2178 BS 5411 (11) BS 3900-C5 ASTM B 499 ASTMD1186 ASTM D 7091	DIN EN ISO 2808 DIN 50981 ISO 2178 BS 5411 (11) BS 3900-C5 ASTM B 499 ASTMD1186 ASTM D 7091	DIN EN ISO 2808 BS 3900-C5 ASTM D 7091 DIN 50984 BS 5411 (3) ISO 2360 ASTM D 1400	DIN EN ISO 2808 DIN 50981 DIN 50984 ISO 2178 BS 5411 (3 & 11) BS 3900-C5 ASTM B 499 ISO 2360 ASTM D 1400 ASTM D 1186 ASTM D 7091	DIN EN ISO 2808 DIN 50981 DIN 50984 ISO 2178 BS 5411 (3 & 11) BS 3900-C5 ASTM B 499 ISO 2360 ASTM D 1400 ASTM D 1186 ASTM D 7091
Measuring range	0 – 2000µm	0 – 5000µm	0 – 2000µm	Fe: 0 – 2000µm NFe: 0 – 2000µm	Fe: 0 – 5000µm NFe: 0 – 2000µm
Measuring interval	1500ms	1500ms	1500ms	1500ms	1500ms
Measuring accuracy regarding automation standards	(1µm + 2% of the reading)	(1µm + 2% of the reading) in the range of 0.0 to 2.0 ± 3.5 % of the reading from 2.0mm	(1µm + 2% of the reading)	Fe: 0 – 5000µm NFe: 0 – 2000µm	(1µm + 2% of the reading) in the range of 0.0 to 2.0 ± 3.5 % of the reading from 2.0mm
Minimum measuring surface (mm x mm)	20 x 20	20 x 20	20 x 20	20 x 20	20 x 20
Minimum radius of curvature	Convex: 5mm Concave: 30mm	Convex: 5mm Concave: 30mm	Convex: 5mm Concave: 30mm	Convex: 5mm Concave: 30mm	Convex: 5mm Concave: 30mm
Minimum thickness of base material	0.2mm	0.2mm	0.05mm	Fe: 0.2mm NFe: 0.05mm	Fe: 0.2mm NFe: 0.05mm
Operation temperature	0 to 50°C	0 to 50°C	0 to 50°C	0 to 50°C	0 to 50°C
Storage temperature	-10 to 60°C	-10 to 60°C	-10 to 60°C	-10 to 60°C	-10 to 60°C
Power supply	From gauge	From gauge	From gauge	From gauge	From gauge
Dimensions (L x W x H in mm)	60 x 26 x 22 without extensions	60 x 26 x 22 without extensions	60 x 26 x 22 without extensions	60 x 26 x 22 without extensions	60 x 26 x 22 without extensions
Weight incl. batteries	ca. 12g	ca. 12g	ca. 12g	ca. 12g	ca. 12g
Technical data subject to change without notice.					

WFT-450/455 WET FILM THICKNESS COMB

The WFT-450 and WFT-455 Wet Film Thickness Combs can be used to quickly and economically measure the paint thickness while the coating is wet.

In order for coating systems to perform as designed, the thickness of each coat of paint must be within tolerances set by the material manufacturer – assessing the wet film thickness of the paint during the coating process is an invaluable tool in ensuring that the thickness of the coating is as specified.

In order to achieve an accurate reading, the wet film comb is placed onto the substrate while the paint is still wet ensuring that the flat end plates are pressed against the substrate. By assessing which teeth have touched the coating the thickness of the paint can be assessed.

The WFT-450 Wet Film Thickness Comb is a precision machined Hexagonal/Octagonal precision measuring comb made of heavy stainless steel for high accuracy and is available with a wide range of measurements in both metric and imperial scales. After use, solvents can be used to clean the instrument to ensure the accuracy of future readings. The comb is supplied in a protective wallet.

Complies with International Standards

ISO 2808-7B, BS 3900-C5-7B, ASTM D 4414-A, NF T30-125.

The WFT-455 Wet Film Thickness Comb is manufactured in plastic and is designed for economical one-time use. The comb can be kept as a permanent record of the wet film thickness once the paint has been allowed to dry on the teeth. The comb measures a wide range of measurements in both metric and imperial scales.



Part no.	Product	Range Metric	Range Imperial	No. of teeth	Range of teeth	Conformance Cert. part no.
AB7864500	WFT-450 (stainless steel)	25-2000µm	1-78mils	36	25, 50, 75, 100, 125, 150, 175, 200, 225, 250, 275, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000µm	7864020
AB7864550	WFT-455 (1 pc.)	50-900µm	2-36mils	18	2.5, 3, 3.5, 4, 5, 6, 8, 10, 12, 14, 16, 20, 24, 28, 32, 36	n/a
AB7864551	WFT-455	50-900µm	2-36mils	18	2.5, 3, 3.5, 4, 5, 6, 8, 10, 12, 14, 16, 20, 24, 28, 32, 36	n/a

HAT-500 HYDRAULIC ADHESION TESTER

The HAT-500 is a reliable method of testing the adhesion bond strength of a dry coating onto the substrate to which it is applied.

Correct adhesion is critical in ensuring that a paint system will perform as intended by the manufacturer. Insufficient adhesion can indicate incorrect substrate preparation or paint application.

To measure the adhesion, a dolly is glued onto the painted substrate, a force is applied onto the centre of the dolly by a hydraulically loaded pin, the maximum force applied is recorded on the pressure gauge by the reset needle. Should the dolly meet the minimum adhesion required it can be removed without disturbing the coating by using the heated dolly remover. Should the pressure overcome the adhesion of the dolly onto the surface, the pressure will be recorded on the gauge. Dollies can be glued in place and left indefinitely as part of a scheduled maintenance programme.

The pressure gauge is swivel-mounted to allow testing in any position and the flexible mid-section allows easy access. Adhesion on the internal and external surfaces of pipes can be tested using curved dollies.

The HAT-500 is supplied in a hard plastic foam filled carry case complete with 5 flat dollies, adhesive, dolly remover.

Complies with International Standards

ISO 16276-1, ISO 4624, ASTM D 4541, NF T30-606.



Part no.	Head type	Operation range (PSI)	Operation range MPa	Accuracy	Cal cert part no.
AB7865000	HAT-500 - Standard	0-2600	0-18	±1%	AB7865005
AB7865001	HAT-500 - Right Angle	0-2600	0-18	±1%	AB7865005

HAT-500 HYDRAULIC ADHESION TESTER

Accessories

Part no.	Description	Pipe Size Metric	Pipe Size Imperial	Use with HAT-500 model	Information
AB7865020	HAT-500 Concave Dolly	51mm	2"	7865000/7865001	For external pipe testing
AB7865021	HAT-500 Concave Dolly	76mm	3"	7865000/7865001	
AB7865022	HAT-500 Concave Dolly	102mm	4"	7865000/7865001	
AB7865023	HAT-500 Concave Dolly	152mm	6"	7865000/7865001	
AB7865024	HAT-500 Concave Dolly	203mm	8"	7865000/7865001	
AB7865025	HAT-500 Concave Dolly	254mm	10"	7865000/7865001	
AB7865026	HAT-500 Concave Dolly	305mm	12"	7865000/7865001	
AB7865027	HAT-500 Concave Dolly	356mm	14"	7865000/7865001	
AB7865028	HAT-500 Concave Dolly	406mm	16"	7865000/7865001	
AB7865029	HAT-500 Concave Dolly	457mm	18"	7865000/7865001	
AB7865030	HAT-500 Concave Dolly	508mm	20"	7865000/7865001	
AB7865031	HAT-500 Concave Dolly	610mm	24"	7865000/7865001	
AB7865032	HAT-500 Concave Dolly	762mm	30"	7865000/7865001	
AB7865033	HAT-500 Concave Dolly	914mm	36"	7865000/7865001	
AB7865034	HAT-500 Convex Dolly	152mm	6"	7865001	
AB7865035	HAT-500 Convex Dolly	203mm	8"	7865001	For internal pipe testing
AB7865036	HAT-500 Convex Dolly	254mm	10"	7865001	
AB7865037	HAT-500 Convex Dolly	305mm	12"	7865000/7865001	
AB7865038	HAT-500 Convex Dolly	356mm	14"	7865000/7865001	
AB7865039	HAT-500 Convex Dolly	406mm	16"	7865000/7865001	
AB7865040	HAT-500 Convex Dolly	457mm	18"	7865000/7865001	
AB7865041	HAT-500 Convex Dolly	508mm	20"	7865000/7865001	
AB7865042	HAT-500 Convex Dolly	610mm	24"	7865000/7865001	
AB7865043	HAT-500 Convex Dolly	762mm	30"	7865000/7865001	
AB7865044	HAT-500 Convex Dolly	914mm	36"	7865000/7865001	
AB7865045	HAT-500 Flat Dolly			7865000/7865001	For substrate testing

Spare parts

Part no.	Description
AB7865046	Adhesive
AB7865047	Spare dolly plug
AB7865048	Heated dolly remover

CHC-520 CROSS HATCH CUTTER

The CHC-520 Cross Hatch Cutter tests the adhesion of a dry coating onto the substrate to which it is applied.

Correct adhesion is critical in ensuring that a paint system will perform as intended by the manufacturer. Insufficient adhesion can indicate incorrect substrate preparation or paint application.

To measure the adhesion, two sets of parallel cuts at ninety degrees to each other are made with a knife resulting in a pattern of similar sized squares. This area can be assessed by using a hard brush or adhesive tape and the results compared with the supplied chart. Different knives are available to test different coating thicknesses and substrates according to different standards.

The CHC-520 Cross Hatch Cutter is supplied in a hard plastic foam-filled carry case complete with hard brush, adhesive tape, illuminated magnifier. Depending on your application, a knife must be ordered separately.



Complies with International Standards

ISO/DIN 2409, ASTM D3359.

AB7865200

CHC-520 CROSS CUT ADHESION TESTER KIT CONTAINS

- Soft grip handle
- Nylon Brush
- Illuminated Magnifier 2.5x
- Adhesion tape, single roll, adhesion to steel 4.3N/cm

Excl. knife, must be ordered separately

CHC-520 knife options acc. to DIN-ISO, 6 teeth

AB7865210	Teeth distance 1mm
AB7865211	Teeth distance 2mm
AB7865212	Teeth distance 3mm

CHC-520 knife options acc. to ASTM, 11 teeth

AB7865213	Teeth distance: 1mm
AB7865214	Teeth distance: 1.5mm

OPTIONAL ITEMS / SPARE PARTS

AB7865230	Adhesion tape, single roll, adhesion to steel 4.3N/cm
AB7865231	Adhesion tape, single roll, adhesion to steel 7.6N/cm
AB7865232	Nylon brush for Cross cut adhesion test
AB7865233	Illuminated magnifier 2.5x

CHOOSE THE RIGHT CUTTER

ISO 2409 :2003:

- 1mm spacing for coatings up to 60µm on hard substrates
- 2mm spacing for coatings up to 60µm on soft substrates
- 2mm spacing for coatings from 61 to 120µm on both hard and soft substrates
- 3mm spacing for coatings from 121µm to 250µm on both hard and soft substrates

ASTM D3359:

- 1 mm spacing for coatings up to 50µm
- 1.5 mm spacing for coatings from 50 to 125µm

HOD-600 DC HOLIDAY TESTER

The HOD-600 Holiday Tester is used to test the integrity of a coated surface by identifying pin holes and flaws in the coating.

Pin holes or flaws in the coating may lead to premature failure of the coating – early identification allows for corrective action to be taken.

The HOD-600 Holiday Tester identifies pin holes and flaws in the coating by passing a voltage through a brush electrode which is moved over the coated surface – the voltage will spark through a pin hole or flaw to the substrate identifying the area for closer inspection. On identification of a pin hole or flaw, an audible alarm will sound and a red indicator will flash on the unit. The application of the test is safe and does not cause burn marks or damage to the coating due to the test voltage being of high impedance.

The HOD-600 Holiday Tester can be carried by the operator using the neck strap provided due to its light weight and portable design.

The HOD-600 Holiday Tester is supplied in a hard plastic foam-filled carry case complete with high voltage probe, brush electrode, earthing cable, and neck strap.

Complies with International Standards

ISO 2746, BS 1344-11, ASTM G 6, ASTM G 62, ASTM D4787, ASTM D5162, NACE RP 04901, NACE RP 0274, NACE RP 0188, JIS G3491, JIS G3492, AS 3894.1, EN14430, ANSI/AWWA C 213.

A calibration certificate traceable to UKAS is available as a cost option upon request.



Part no.	Range	Approx. maximum test thickness	Resolution	Accuracy	Cal cert part no.
AB7866000	HOD-600 - 0.5-6kV	1500µm (60mils)	0.01kV	±1%	7866005
AB7866001	HOD-600 - 1-20kV	5000µm (200mils)	0.1kV	±1%	7866005
AB7866002	HOD-600 - 1-30kV	7500µm (300mils)	0.1kV	±1%	7866005

The HOD-600 is supplied with a European style plug; other plug options available upon request.

HOD-600 DC HOLIDAY TESTER

Accessories					
Part no.	Product	Size Metric	Size Imperial	Extension Size	Information
AB7866030	Extension rod	500mm	20"		To extend electrodes for applications where a long reach is required.
AB7866031	Extension rod	1000mm	40"		
AB7866040	Broad Brush 45° angle	200mm	8"	200mm/8"	Brass-filled Brushes for the testing of coatings on large flat areas.
AB7866041	Broad Brush 45° angle	500mm	20"	200mm/8"	
AB7866050	Conductive Rubber 180° In Line	200mm	8"	200mm/8"	Conductive Rubber Electrodes for the testing of coatings on large flat areas.
AB7866051	Conductive Rubber 180° In Line	450mm	18"	200mm/8"	
AB7866060	Circular Brush and Assembly	51mm	2"	200mm/8"	Conductive Rubber Electrodes for the testing of coatings on large flat areas.
AB7866061	Circular Brush and Assembly	76mm	3"	200mm/8"	
AB7866062	Circular Brush and Assembly	102mm	4"	200mm/8"	All Brushes come complete with the connector assembly.
AB7866063	Circular Brush and Assembly	152mm	6"	200mm 8"	
AB7866064	Circular Brush and Assembly	203mm	8"	200mm/8"	
AB7866065	Circular Brush and Assembly	254mm	10"	200mm/8"	
AB7866066	Circular Brush and Assembly	305mm	12"	200mm/8"	
AB7866070	Rolling Spring	102mm	4"	Order SA490	
AB7866071	Rolling Spring	152mm	6"	Order SA490	3/4" phosphor bronze Rolling Spring for the testing of coatings on the external diameter of pipes.
AB7866072	Rolling Spring	203mm	8"	Order SA490	
AB7866073	Rolling Spring	254mm	10"	Order SA490	All Rolling Springs require the AB7866084 Rolling spring connector assembly.
AB7866074	Rolling Spring	305mm	12"	Order SA490	
AB7866075	Rolling Spring	356mm	14"	Order SA490	One assembly can be used on multiple Rolling Springs.
AB7866076	Rolling Spring	406mm	16"	Order SA490	
AB7866077	Rolling Spring	457mm	18"	Order SA490	The 7866085 Rolling spring pusher assembly is suitable for larger Rolling Springs, to assist the travel of the spring along the pipe.
AB7866078	Rolling Spring	508mm	20"	Order SA490	
AB7866079	Rolling Spring	610mm	24"	Order SA490	
AB7866080	Rolling Spring	762mm	30"	Order SA490	
AB7866081	Rolling Spring	914mm	36"	Order SA490	
AB7866082	Rolling Spring	1067mm	42"	Order SA490	
AB7866083	Rolling Spring	1220mm	48"	Order SA490	
AB7866084	Rolling Spring Connector Assembly			200mm/8"	
AB7866085	Rolling Spring Pusher Assembly			200mm/8"	

PHD-620 PIN HOLE DETECTOR

The PHD-620 Pin Hole Detector is used to test the integrity of a coated surface by identifying pin holes and flaws in the coating.

Pin holes or flaws in the coating may lead to premature failure of the coating – early identification allows for corrective action to be taken.

The PHD-620 Pin Hole Detector identifies pin holes and flaws in the coating by passing a selectable voltage of 9volts, 67.5volts, or 90volts, through a wet sponge which is moved over the coated surface. The voltage will make a path through the wetting agent to the pin hole or flaw in the substrate, an audible alarm will sound and a red light will flash on the unit identifying the area for closer inspection. The application of the test is safe and does not cause burn marks or damage to the coating.

The PHD-620 Pin Hole Detector can be carried by the operator due to its light weight and portable design.

The PHD-620 Pin Hole Detector is supplied in a hard plastic foam-filled carry case complete with 150mm broad sponge assembly, and earthing cable.

A calibration certificate traceable to UKAS is available as a cost option on request.

Complies with International Standards

BS EN ISO 8289 A, BS 7793-2, ASTM D-5162, ASTM G62-87, ASTM G6-83, NACE RP 0188



Part no.	Range	Maximum test thickness 9V	Maximum test thickness 67.5V	Maximum test thickness 90V	Accuracy	Sponge size	Cal. cert. part no.
AB7866200	9V/67.5V/90V	300µm 12mils	500µm 20mils	500µm 20mils	±1%	150 x 100 x 30mm	AB7866211
Accessories							
Part no.	Product	Size Metric	Size Imperial	Extension size	Information		
7866210	Extension rod	500mm	20"		To extend sponges for applications where a long reach is required.		
7866220	Extension rod	1000mm	40"				
7866230	Circular sponge and assembly	50mm	2"	200mm/8"	Circular sponges for the testing of internal diameters of pipes.		
7866240	Circular sponge and assembly	100mm	4"	200mm/8"			
7866250	Flat sponge and assembly	200mm	8"	200mm/8"	For coatings on large flat areas.		
7866260	Earth cable	10m			Larger testing area earth cables.		

STEEL SURFACE FINISHING STANDARDS

	SA1	SA2	SA2 1/2	SA3																													
	BRUSH-OFF BLAST CLEANING Removal of loose mill scale, loose rust and loose paint, to a degree hereafter specified, by the impact of abrasives propelled through nozzles or by centrifugal wheels. It is not intended that the surface shall be free of all mill scale, rust and paint. The remaining mill scale, rust and paint should be tight and the surface should be sufficiently abraded to provide good adhesion and bonding of paint. A brush-off blast cleaned surface finish is defined as one from which all oil, grease, dirt, rust scale, loose mill scale, loose rust and loose paint or coatings are removed completely but tight mill scale and tightly adhered rust, paint and coatings are permitted to remain provided that all mill scale and rust have been exposed to the abrasive blast pattern sufficiently to expose numerous flecks of the underlying metal fairly uniformly distributed over the entire surface.	COMMERCIAL BLAST CLEANING Removal of partial mill scale, rust, rust scale, paint or foreign matter by the use of abrasives propelled through nozzles or by centrifugal wheels, to the degree specified. A commercial blast cleaned surface finish is defined as one from which oil, grease, dirt, rust scale and foreign matter have been completely removed from the surface and all rust, mill scale and old paint have been completely removed except for slight shadows, streaks, or discoloration caused by rust stain, mill scale oxides or slight residues of paint or coating that may remain if the surface is pitted, slight residues of rust or paint may be found in the bottom of pits at least two-thirds of each square inch of surface area shall be free of all visible residues and the remainder shall be limited to the light discoloration, slight staining or tight residues mentioned above.	NEAR-WHITE BLAST CLEANING Removal of nearly all mill scale, rust, rust scale, paint, or foreign matter by the use of abrasives propelled through nozzles or by centrifugal wheels, to the degree hereafter specified. A near-white blast cleaned surface finish is defined as one from which all oil, grease, dirt, mill scale, rust, corrosion products, oxides, paint or other foreign matter have been completely removed from the surface except for very light shadows, very slight streaks or slight discolorations caused by rust stain, mill scale oxides, or light, tight residues of paint or coating that may remain. At least 95% of each square inch of surface area shall be free of all visible residues and the remainder shall be limited to the light discoloration mentioned above.	WHITE METAL BLAST CLEANING Removal of all mill scale, rust, rust scale, paint or foreign matter by the use of abrasives propelled through nozzles or by the centrifugal wheels. A white metal blast cleaned surface finish is defined as a surface with a grey-white, uniform metallic colour, slightly roughened to form a suitable anchor pattern for coatings. The surface, when viewed without magnification, shall be free of all oil, grease, dirt, visible mill scale, rust, corrosion products, oxides, paint, or any other foreign matter.																													
<p>STEEL SURFACE LARGELY COVERED WITH ADHERING MILL SCALE BUT LITTLE, IF ANY, RUST.</p>	<p>STEEL SURFACE WHICH HAS BEGUN TO RUST AND FROM WHICH THE MILL SCALE HAS BEGUN TO FLAKE.</p>	<p>STEEL SURFACE ON WHICH THE MILL SCALE HAS RUSTED AWAY, BUT WITH SLIGHT PITTING VISIBLE UNDER NORMAL VISION.</p>	<p>STEEL SURFACE ON WHICH THE MILL SCALE HAS RUSTED AWAY, GENERAL PITTING IS VISIBLE UNDER NORMAL VISION.</p>	<p>STEEL SURFACE ON WHICH THE MILL SCALE HAS RUSTED AWAY, GENERAL PITTING IS VISIBLE UNDER NORMAL VISION.</p>																													
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ACHIEVING THE BEST FINISH

The finish surface achieved by abrasive blast cleaning depends upon the original surface condition as well as the type of abrasive blasting equipment, size, hardness, type and abrasive shape.

THE ORIGINATING SURFACE CONDITION OF STEEL IS:

- ▶ Steel surface largely covered with adhering mill scale by little, if any, rust.
- ▶ Steel surface which has begun to rust and from which the mill scale has begun to flake.
- ▶ Steel surface on which the mill scale has rusted away or from which it can be scraped, but with slight pitting visible under normal vision.

SURFACE CLEANLINESS IS DIVIDED INTO FOUR GRADES:

- ▶ SA 1 Brush off.
- ▶ SA 2 Commercial.
- ▶ SA 2-1/2 Near white metal.
- ▶ SA 3 White Metal.

Besides cleanliness of the steel, consideration needs to be given to the etch or profile roughness created by the impact of the abrasive on the steel surface.

THE SUBSTRATE PROFILE IS REGULATED BY:

- ▶ Shape, type and grading of abrasive.
- ▶ Blasting method and velocity of abrasive impaction.
- ▶ Steel condition prior to blasting.

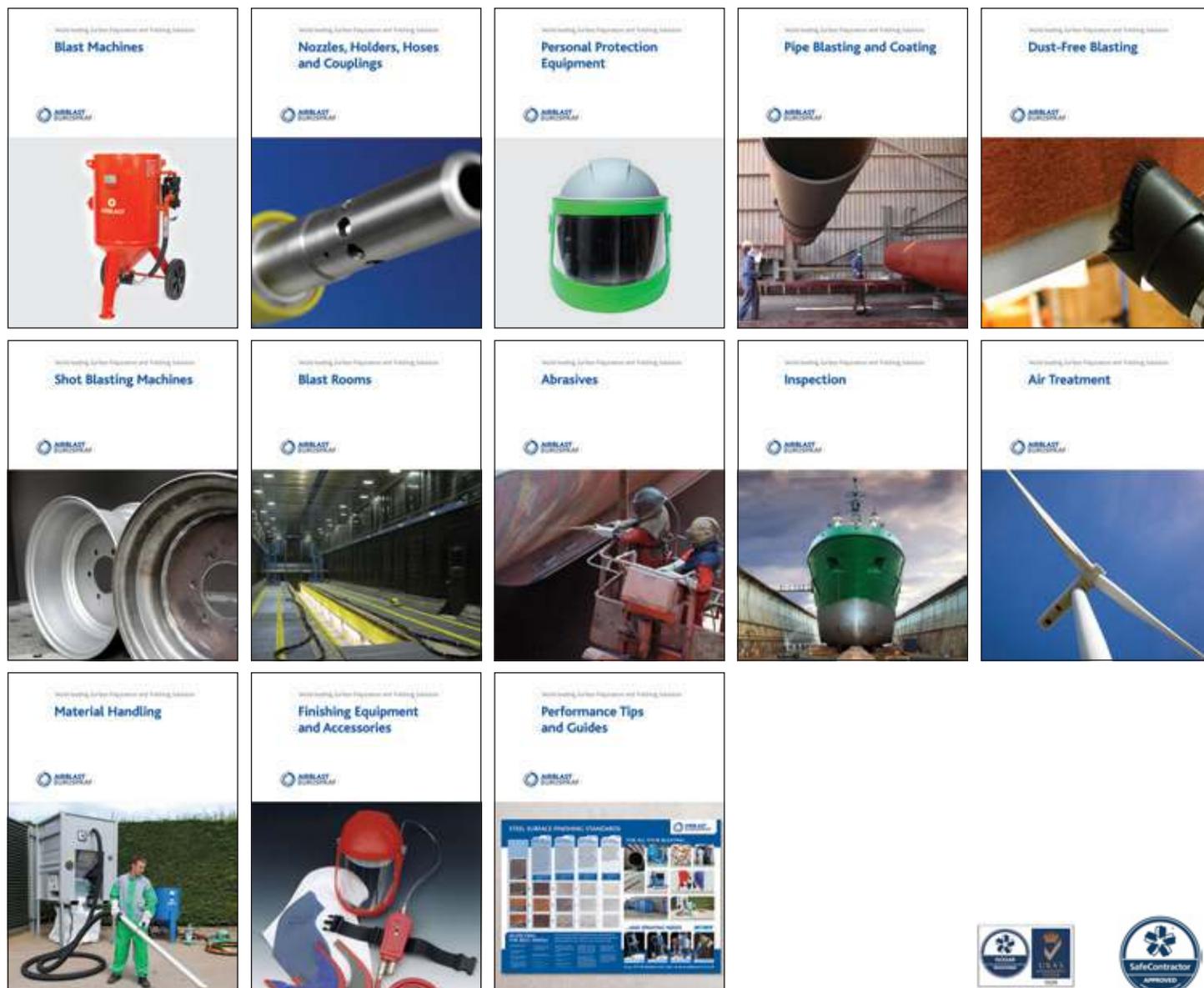
The etched profile of the surface enables adhesion of the protective paint coatings. If the level at which this is achieved is too severe it will cause a waste of paint. If too light, it may cause a lack of adhesion.

The best method of obtaining a profile specification is to ensure the correct blasting equipment and method are combined with the correct abrasive. Once these requirements have been decided upon, the selection of method, equipment and training of personnel should be instigated.

Equipment used for surface preparation must be extremely reliable and simple to use. Operation information and training should be up-to-date.

Airblast has become the industry standard for manufacturing and supplying surface finishing equipment worldwide through a network of branch-offices as well as distributors.

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