



UK Inspection
Systems



Helping you maintain your standards...

www.ukinspectionssystems.com

Contents

- 01 Introduction
- 02 General Information
- 03 Coverage

Products & Services

- 04 Fortis Metal Detector
- 06 Fortis Plus Metal Detector
- 08 Aegis Checkweigher
- 10 Aegis Plus Combination Unit
- 12 Minebea-Intec Synus/Cosynus 15
- 13 X-ray Inspection
- 14 Scales
- 15 Parts Department
- 16 Calibration & Validation Services
- 17 Customer Portal
- 18 Consultancy Services
- 19 Training Services
- 21 Test Sticks

Rates, Rental & Delivery

- 23 Engineer Rates
- 25 Rental Charges
- 26 Delivery Charges

Who we are

UK Inspection Systems Limited (UKIS) is an independent, family-owned company, specialising in Foreign Body detection, Checkweighing and Scales. Owned and operated by two brothers with over 40 years of combined industry experience. Our commitment to traditional values and service excellence has been a key element in the success and growth of the business.

The business operates on a national basis and is uniquely positioned to support our clients. At UKIS we are able provide a complete range of products and services.

- Equipment Sales and Rentals
- Calibration and Validation Services
- Service Contracts and Emergency Breakdown Response
- SME Training
- Compliance Consultancy and Implementation
- Bespoke Manufactured Solutions

Our Mission

Simply stated, our mission is to provide a consistent, thorough, high quality service that leaves our customers completely satisfied, time after time.

“UK Inspection Systems has been providing new machinery and technical support to us for several years. Their service response is fast and effective, their engineers knowledgeable and they have been essential in keeping our equipment operational during very busy times.”

Engineering Manager, Bakkavor Ltd



Where we are

Our head office is located in Farnborough, Hampshire. This is our administration, parts and service centre. Our manufacturing plant is in Rushden, Northamptonshire, where our own range of machinery is built.

Contact Details

Telephone: Office: +44 (0) 1252 510565

Email: General: info@ukinspectionssystems.com
Sales: sales@ukinspectionssystems.com
Service: service@ukinspectionssystems.com
Parts: parts@ukinspectionssystems.com
Training: training@ukinspectionssystems.com

Website: www.ukinspectionssystems.com

Head Office: Unit 15
Hercules Way
Farnborough Aerospace Centre
Farnborough
Hampshire
GU14 6UU

Manufacturing: Units 5 & 6
Elan Court
Norris Way
Rushden
Northants
NN10 6BP

Please refer to our website for all Terms & Conditions.

Registered in England Number 06932748 VAT No. GB 973 0059 22

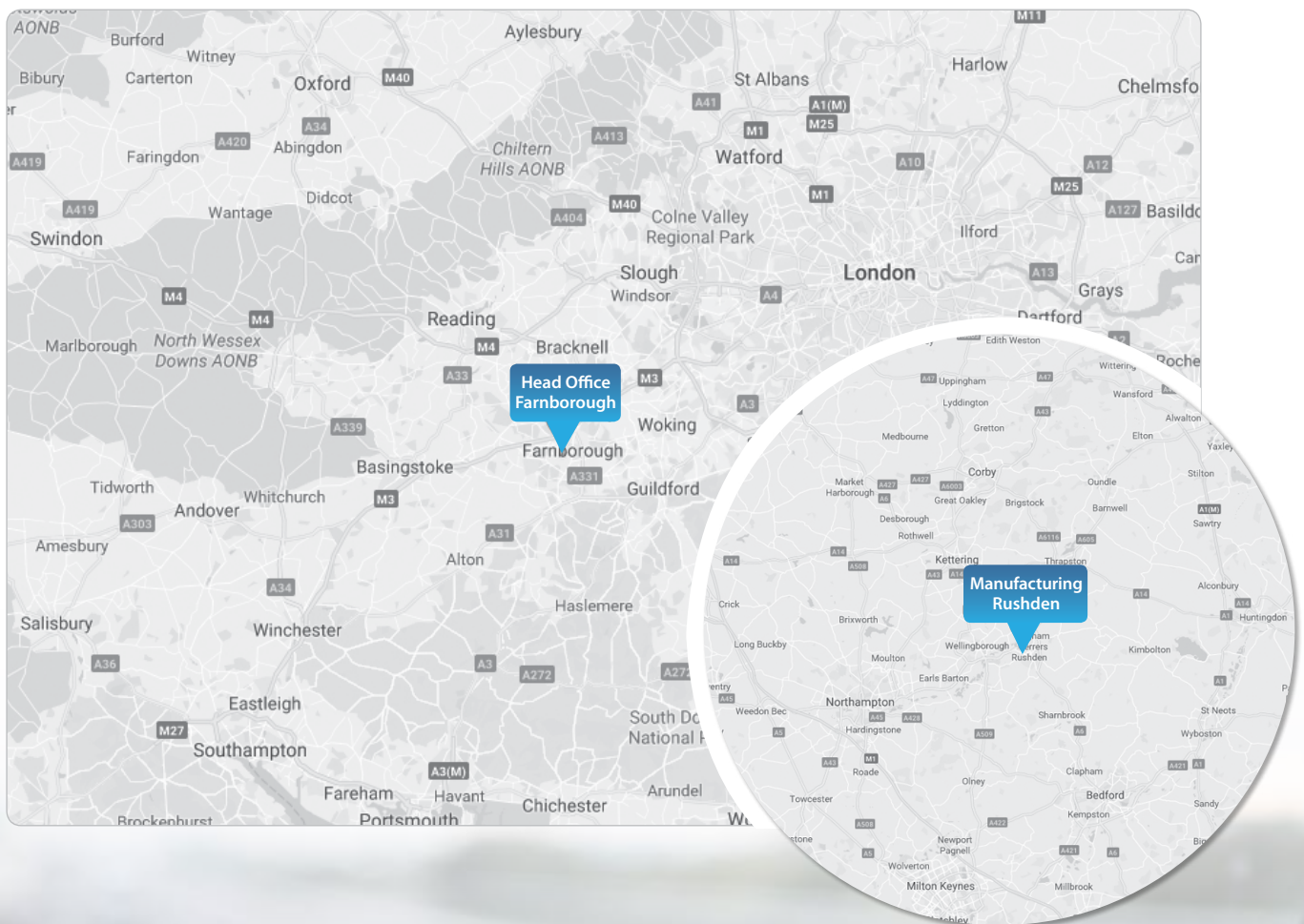


Where we go

As our name suggests, we operate nationally and our team of engineers will travel to jobs all over the UK.

We operate out of two centres which are located in Farnborough, Hampshire and Rushden, Northamptonshire. Being located to the North and West of London gives us good access both into London and around the country.

We also reciprocate with approved industry partners to extend our access into the North of England and Scotland, whilst keeping travel costs at a reasonable level for our customers.



The Machine

In 2019 we launched our own brand Metal Detection system with the 'Fortis' family of metal detectors. The Fortis has been designed with the customer in mind and has, we believe, eliminated the many problems we have encountered over our years in the business.



The system combines the high performing and reliable 'Fortress Technology' search head with the extremely robust, UKIS conveyor and control system.

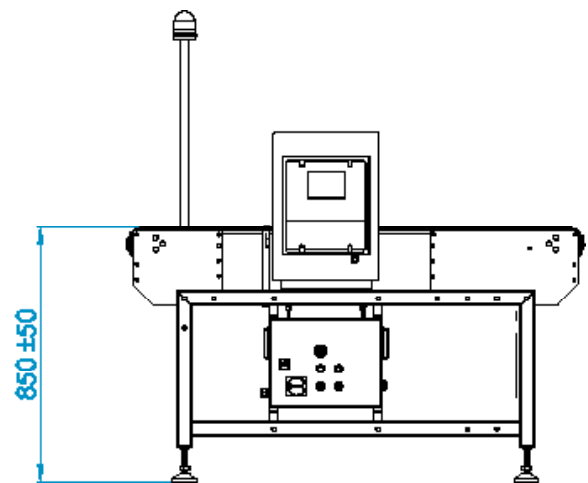
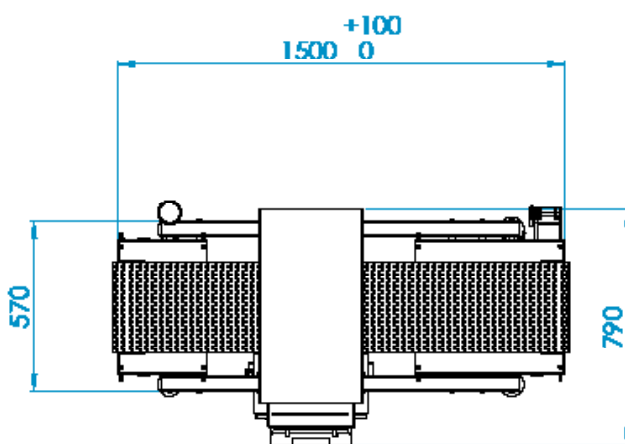
The search head can be supplied with sizes to suit most standard applications and uses powerful Digital Signal Processing technology and high sensitivity levels to ensure the detection of the smallest ferrous, non-ferrous, and stainless-steel contaminants.

The conveyor system, controls and failsafe systems, are designed to be extremely user friendly, and keep maintenance and repair times to an absolute minimum. Utilising a robust direct drive DC motor to eliminate pulleys and belts, with heavy duty bearings and modular belt, the machine is built to last but if components need changing it can be done quickly and easily.

A unique feature of the Fortis is its ability to be able to adapt to changing customer needs. The machine handling can be changed to accommodate changes in factory layout to reduce the need to purchase new machinery.

Features

- Designed and built in the UK
- Designed and built to deliver high detection performance and withstand the demanding rigours of the industry
- Washdown IP65 rated
- Constructed to minimise bug traps but facilitate easy and effective washdown



Specification

Finish:	Polished Stainless Steel
Height:	850mm +/- 50mm
Length:	1500mm standard (+ 100mm if required)
Width:	1050mm in Failsafe configuration
Head size:	350mm x 150mm or 350mm x 200mm
Belt width:	300mm
Reject:	Pusher or Air Blast
Failsafe:	Available in Alarm and Stop or Full Retail Compliance configuration



The Machine

In 2019 we launched our own brand Metal Detection system with the 'Fortis' family of metal detectors.

The Fortis Plus bulk detector is the larger cousin of the Fortis metal detector, which has been designed with the customer in mind by delivering low cost of ownership and simple maintenance. The Fortis Plus is supplied as standard in Alarm and Stop configuration with key switch reset.



The system combines the high performing and reliable 'Fortress Technology' search head with the extremely robust, UKIS conveyor and control system.

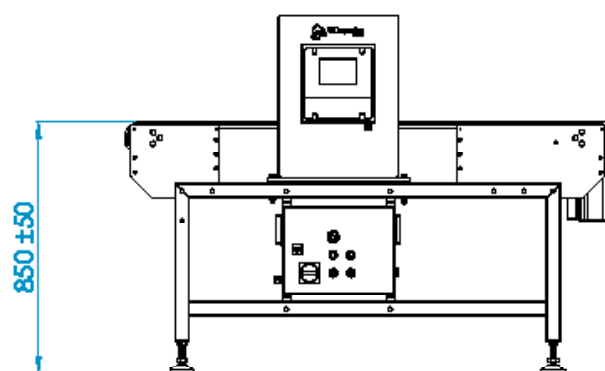
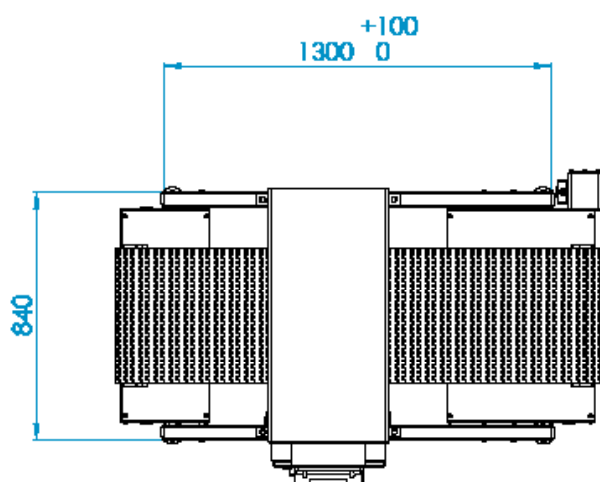
The search head can be supplied in two standard sizes to suit most standard box applications and uses powerful Digital Signal Processing technology and high sensitivity levels to ensure the detection of the smallest ferrous, non-ferrous, and stainless-steel contaminants.

The conveyor system and controls are designed to be extremely user friendly and keep maintenance and repair times to a minimum. A robust direct drive DC motor eliminates the need for pulleys and belts and the heavy-duty frame and bearings mean the machine is built to last.

A unique feature of the Fortis is its ability to be able to adapt to changing customer needs. The machine handling can be changed to accommodate changes in factory layout to reduce the need to purchase new machinery.

Features

- Designed and built in the UK
- Designed and built to deliver high detection performance and withstand the demanding rigours of the industry
- Washdown IP65 rated
- Constructed to minimise bug traps but facilitate easy and effective washdown



Specification

Finish:	Polished Stainless Steel
Height:	850mm +/- 50mm
Length:	1500mm standard (+ 100mm if required)
Width:	1050mm in Failsafe configuration
Head size:	550mm x 250mm or 550mm x 325mm
Belt type:	Modular or PU
Belt width:	300mm
Reject:	N/A
Failsafe:	Available in Alarm and Stop or Full Retail Compliance configuration



The Machine

UK Inspection Systems Ltd are delighted to be able to add the Aegis check-weighing system to our range of products.

The Aegis check-weigher has been designed to eliminate the problems usually encountered when operating this type of machine and provide simple use and a low cost of ownership.



Features

Weigh table length can be varied 'in-situ' between 350mm and 500mm without affecting the overall length of the conveyor. This flexibility allows the machine to accommodate different sizes of products reducing the need for additional capital expenditure for new product launches.

The machine handing can be changed relatively simply. This feature allows the machine to adapt with future changes to factory configuration and reduces the need for new machinery purchases.

The machine modules are fully welded and have through hole sleeving which prevents water ingress into the frame and eliminates the hygiene hazards associated with bug traps.

The running gear is accessed quickly through drop down guarding, which permits quick yet extensive access for clean down and maintenance activity and the tables have been designed to allow quick changes of transport belts, drive motors and belts and rollers. Typically, a motor change takes under ten minutes.

The modular concept means that this machine can be easily converted to a combination unit or used as stand-alone MD/CW units (depending upon the original configuration) making customer production line layout changes easy.

When in combination configuration, the unit has dedicated metal reject and weight reject bins and each reject type is controlled by the MD or CW; this reduces the problems caused by communication errors when the check weigher is in control of all rejects.

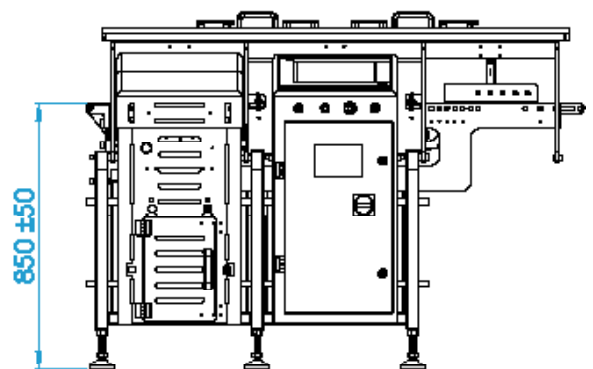
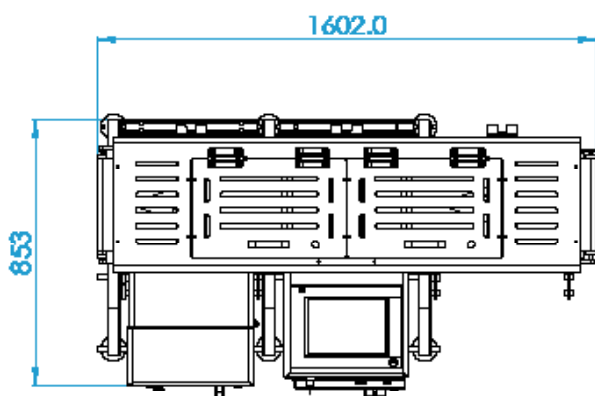
Overhead reject mechanisms prevent damage when knocked.

The user interface is through a 10" Colour Monitor and touchscreen which is mounted in a preacher style cabinet on the front of the machine. This ergonomic design reduces the need to stretch across the machine, lean on safety guards and prod a monitor with a pen.

Access to the Aegis interface is controlled with passwords, but there is an enhanced security option available that uses coded USB keys. This eliminates the problem of passwords being shared and settings being corrupted by untrained or inexperienced staff.

The over belt cover system has been designed to remain fixed to the machine whilst permitting safe access to all areas for cleaning.

The machine has a power save option that saves energy and reduces wear on running gear components.



Specification

Machine length:	2600.00mm
Speed:	Variable
Conveyor height:	850mm +/- 50mm



The Machine

At the centre of our product range is our very own Aegis combination unit. The design of the Aegis checkweigher has easy maintenance and minimal downtime at its core.

The machine modules are fully welded and have through hole sleeving which prevents water ingress into the frame and eliminates the hygiene hazards associated with bug traps.



Features

Based on a modular construction, the Aegis concept provides a number of unique features that set it apart from other machines:

The machine handing can be swapped around very easily, which accommodates future changes to customer environments without having to plan for the configuration of existing equipment or having to buy new.

Table lengths can be varied by +/- 100mm, which allows for changes to product lengths.

10" colour monitor and touchscreen user interface.

The running gear is accessed quickly through drop down guarding, which permits quick yet extensive access for clean down and maintenance activity.

The tables have been designed to allow extremely swift changes of transport belts, drive motors and belts and rollers.

Enhanced USB security key option (see Aegis).

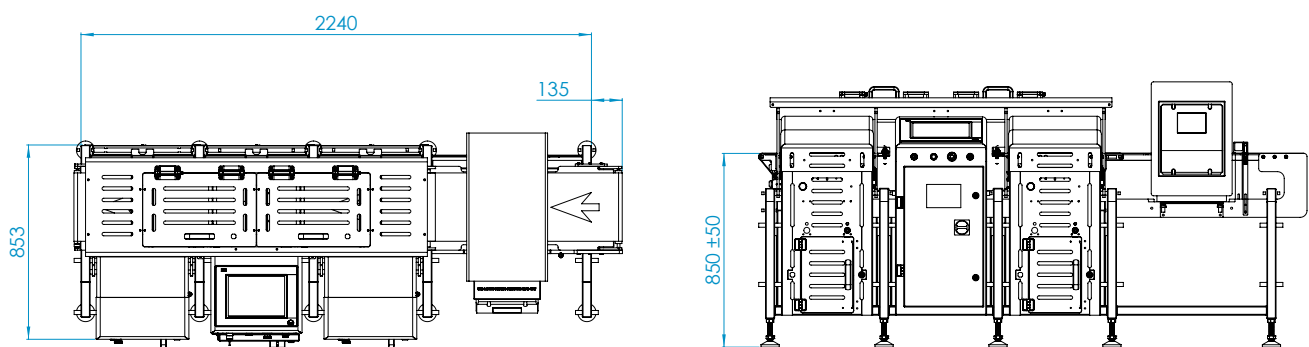
AEGIS PLUS COMBINATION UNIT

11

The modular concept means that machine can be easily converted to a combination unit, or stand alone MD/CW units (depending upon the original configuration) making customer production line layout changes easy.

When in combination configuration, the unit has dedicated metal reject and weight reject bins with each reject type being controlled by the MD or CW; this reduces the problems caused by communication errors when the CW controls all rejects.

Overhead reject mechanisms prevent damage when knocked.



The combination unit is fitted with a Fortress Technologies detector head, which can be supplied with sizes to suit most standard applications and uses powerful Digital Signal Processing technology and high sensitivity levels to ensure the detection of the smallest ferrous, non-ferrous, and stainless-steel contaminants.

The preacher style cabinet mounted control panel is easy to use and by eliminating the need for users to reach up to a screen, does away with the temptation to extend their reach with a pen which causes expensive screen damage.

The over belt cover system has been designed to remain fixed to the machine whilst permitting safe access to all areas for cleaning.



The Machine

From our partners at Minebea-Intec, we are able to offer the the newest model in the SYNUS checkweigher family, the Synus 15 Check Weighing and combination systems, as part of our product portfolio.

The Cosynus is a member of the Synus checkweigher family and combines the electronics of a metal detector with the well-known checkweighing technology. The operation of the metal detector is fully integrated in the familiar user interface of the field-tested Synus® checkweigher.



Features

As a combination unit, the operator can configure and control two instruments in one interface quickly and easily.

- Weighing systems: 1.0 kg, 2.0 kg, 5.0 kg or 7.0 kg
- Display scale divisions 0.1 g to 1g
- Max. throughput 200pcs/min
- 3 display and control units: 6.4" TFT, 10.4" TFT or 15" TFT with touch screen
- Aperture width of the coils for metal detection: 225, 275 or 375 mm
- Aperture height of the coil for metal detection: working height 110 max.

Customers who already have a Synus checkweigher can upgrade to the Cosynus combination system, easily and economically.

The Machine

We work closely with Minebea-Intec and are proud members of their Partner Programme. We are delighted to be able offer the Dymond range of X-ray systems as part of our product portfolio.

The Dymond range combines high performance with low-power components and a very compact size. With their innovative design, these systems are suitable for a wide range of applications and are extremely easy to install and maintain.



The Dymond Series of X-ray inspection systems is suitable for inspecting the majority of applications of packaged products across its 4 models. This system is extremely versatile for ensuring product integrity and quality. It is ideal for multi-lane applications of up to 8 traces with belt widths up to 800 mm.

Features

- Interface through a 15 colour touchscreen display
- High detection sensitivity is combined with low power consumption
- Belt widths from 200 mm up to 800 mm can be supplied
- Missing product search determines product mass and compartment mass
- Easy inspection and cleaning
- Time and cost saving
- Hygienic design – following EHEDG principles featuring curved edges and sloped surfaces
- X-ray inspection systems supports compliance with industry standards such as HACCP, IFS and BRC, avoid costly product recalls and protect brand reputation

Our Range

UK Inspection Systems Ltd offer a range of static weighing scales to suit almost all applications. From basic bench scales to high end systems, our products have most applications and budgets covered. We manufacture our own brand equipment with Dini Argeo indicators, and represent Ohaus, and MIDRICS® (Minebea-Intec) as a dealer for their products.

Dini Argeo

The high quality and simple operation of the Dini Argeo weighing indicator, matched with the robust UKIS designed metalwork delivers a high performance and durable weighing instrument, with a low ongoing cost of ownership.



Ohaus

Scales from a worldwide leader that manufactures and markets analytical balances, precision balances, portable balances and industrial electronic and mechanical weighing scales, that continually meet customer's needs at competitive prices.



Midrics

The Midrics® is a tough, high quality and reliable scale system. Boasting a long product lifetime, they are robust, easy to clean and simple to operate. Midrics® can be supplied in a wide range of platform sizes, resolutions and weighing capacities.



Machine Spare Parts

UK Inspection Systems Ltd has a dedicated spare parts department that will be able supply most of your requirements.

We stock a full range of high turnover spare parts for many of the well-known makes of metal detector, check weighing equipment, X-ray machines and Scales.

Our parts department are particularly skilled at identifying and tracking down less common parts for those older or rare machines.

It is no secret that a major contributor to unwanted downtime is having to wait for parts to be identified, sourced and delivered. The solution to this problem is to have the parts available for immediate use.

Whilst it is impossible to accurately predict every likely breakdown, our experienced parts specialists will be able to put together a recommended spares list for you.

Please contact us to find out more.



A full range of services...

Your in-line inspection equipment performs a vital function in keeping your product safe and compliant, so it is important that you have confidence with its accuracy.

We provide a full range of calibration and validation services for metal detection, check weighing, x-ray, scales and weights.

Our technicians are fully trained to carry out this work using certified equipment traceable to National Standards.

We have a fundamental belief that just calibrating or validating a machine is only a part of our responsibility and so we perform a full retail compliance and condition inspection and report as part of our basic calibration service.

Also, as part of the service, you will be given access to our online document storage Portal, where all of your certificates will be stored and can be accessed, downloaded or printed 24/7. This is free of charge.

We are ISO9001 accredited and are members of the UK Weighing Federation and Safe Contractor approved.



Client Log In

Experience has taught us that our customers often discover their calibration and training certificates are missing, just after an auditor has asked to see them, usually because someone has stored them away safely and then left the business.

Our solution to this problem has been to develop an online Portal that will contain your certification, that can be easily accessed 24/7, viewed, printed or downloaded as often as you need to.

Since we launched this service the feedback from our customers is extremely positive.

You will be asked to complete a simple 'Terms of Use' form to obtain a password and you will then be able to access the Client Login Portal' on the UK Inspection Systems Ltd website and view all of your calibration/ validation, training and test stick certificates.

It is a completely free of charge service.



Achieving Best Practice

UK Inspection Systems Ltd will be able to assist you in achieving best practice with your Critical Control Points and in-line inspection equipment compliance.

We have many years of experience in the industry and have worked with most retail Codes of Practice; we are, therefore, well positioned to be able to guide you through the complexities of compliance.

Our consultancy services include:

- Best practice guidance
- Code of Practice guidance
- Failsafe suitability audit
- Pre audit inspections
- CCP Audit
- Training requirements
- Site surveys



A comprehensive range of training solutions...

The people you employ are a valuable asset to your Company and you rely on them to perform at their best to safeguard the integrity and quality of your product.

Well trained staff are happy, effective and can add value to your business through reduced customer complaints, fewer product recalls and increased customer confidence.

You will have invested wisely in the equipment you use on your production lines and so it follows that training the staff using the machinery is an equally wise investment.

An additional benefit of training, specifically in the field of metal detection, is that factories with staff that have a good understanding of the subject spend less money on breakdown callouts.

Our own statistics show us that 60% of our engineer callouts can be attributed to lack of user knowledge causing machinery to be set up incorrectly.

UK Inspection Systems Ltd training packages range from basic 'on the job' coaching through to certified Engineer and Subject Matter Expert or equivalent courses (see course content overleaf).

These higher-level courses can be tailored to suit your specific needs or equipment.

If you are considering training for your staff, please give us a call to discuss your needs.

Attendee comments from a recent Bakkavor training day...

"It was an overall good learning experience."

"...overall a very good training session..."

"...Excellent."

"The practical session was extremely useful in helping me understand the metal detector operation."



UKIS One Day Higher Level Metal Detection Course

Level 1 - General Understanding of Metal Contaminants and Detection - Operators and cleaning staff

- What we do to prevent metal contamination
- Why we inspect products for potential metal contamination
- What we expect of each operative

Level 2 - Routine Testing Requirements - Line Leaders, Line Management, Technical/Engineering staff

- The basics of how a metal detector works
- All M&S COP requirements including routine testing
- Detection sensitivity requirements
- Reason for and how to audit fail-safe systems
- Control of rejected products
- Depth and nature of metal reject investigations required
- Any senior management intervention required



Level 3 - Service, Maintenance and Breakdowns - Site Engineers

- How to trace faults – route analysis
- Importance of maintenance and Performance Validation
- Following the manufacturer's maintenance recommendations, lubrication requirements, critical locations on the equipment
- Good engineering practices to reduce the risk of product contamination.

Level 4 - Subject Matter Expert - SME

- All of the above levels of training
- Principles of metal detection
- An in-depth understanding of the specification of the equipment and the full scope of how it works
- Full understanding of the Marks and Spencer COP requirements
- New Product set-up including how to optimise detection sensitivities

The maximum attendance is kept to six people to give everyone the chance to see and hear the instruction on the shop-floor.

Training Costs

The course is designed for a maximum of six people. A course précis, online test and certificate are included.

Cost for Tier C Training: £150 per person, plus travel costs.

UKIS Test Sticks

Our standard test stick housings are manufactured from an FDA Approved shatter and chip resistant polymer. Housing colours are available in red (Ferrous), yellow (Non-ferrous) and blue (Stainless Steel 316) to comply with industry standards.



Standard Test Stick

Product Details:

- Standard test stick dimensions (approx): 11mm x 11mm x 93mm long
- Metals available: Ferrous (chrome), Non-ferrous (brass), Stainless Steel (316)
- Ball (bearing) size availability: 0.5mm - 9.5mm diameter
- Other ball diameters are available on request

Price: £13.00 each + carriage + VAT

20.0mm (Ferrous) Test Ball

Product Details:

- 20.0mm (Ferrous) test ball dimensions (approx)
- 35mm diameter (38mm spherical diameter)
- Metal available: Ferrous (chrome) in red housing as shown
- Ball (bearing) size availability: 20.0mm diameter
- Designed to comply with the magnetic phase interference (system shock) test
- For use on 'conveyor' or 'drop-through' metal detector systems

Price: £36.00 each + carriage + VAT

Test Balls

Product Details:

- Test ball dimensions (approx): 38mm spherical diameter
- Metals available: Ferrous (chrome), Non-ferrous (brass), Stainless Steel (316)
- Ball (bearing) size availability: 0.5mm - 10.0mm diameter
- Other ball diameters are available on request

Price: £32.00 each + carriage + VAT

Test Pucks

Product Details:

- Test puck dimensions (approx): 25mm diameter x 5.2mm thickness
- Metals available: Ferrous (chrome), Non-ferrous (brass), Stainless Steel (316)
- Ball (bearing) size availability: 0.5mm - 3.0mm diameter
- Other ball diameters are available on request

Price: £18.00 each + carriage + VAT

Laminated X-ray Test Cards

Product Details:

- Laminated test card dimensions (approx): 68mm width x 98mm long
- Metals available: Ferrous (chrome), Non-ferrous (brass), Stainless Steel (316)
- Ball (bearing) size availability: 0.5mm - 2.5mm diameter
- Other ball diameters and materials are available on request

Price: £14.00 each + carriage + VAT

NOTE:

If you use a large variety of test pieces we can create a boxed, bespoke kit that will cover your range of sizes and materials.

We can also offer discounts for bulk purchases – please enquire about this when you contact us.

Metal Detection & Checkweigher

Rate Type/Description	Per Hour
Standard Rate	£85.00
Time and a Half	£127.50
Double Time	£170.00
Standard Call Out (Zone A)	£255.00
Standard Call Out (Zone B)	£340.00
Standard Call Out (Zone C)	£425.00

Scales

Rate Type/Description	Per Hour
Standard Rate	£55.00
Time and a Half	£82.50
Double Time	£110.00
Standard Call Out (Zone A)	£165.00
Standard Call Out (Zone B)	£220.00
Standard Call Out (Zone C)	£275.00

Workshop

Rate Type/Description	Per Hour
Workshop Rate	£60.50

Calibration

Type/Description	Per Unit
Standard (Metal Detector or Checkweigher)	£89.00
Combi	£160.00
X-Ray	£89.00
Freefall MD	£65.00
M&S Validation	FOC (included)

Scales

Rate Type/Description	Per Scale
1g up to 19g	£45.00
20kg up to 149kg	£55.00
150kg up to 599kg	£85.00 (plus time on site)
600kg up to 1,400kg	£125.00 (plus time on site)
1,500kg up to 2,999kg	£175.00 (plus time on site)
3,000kg up to 5,999kg	TBC

Discounts

- Between 1 & 3 scales (up to 149 kg) Only travel and time on site at scale hourly rate
- Between 3 – 10 As above price list plus travel
- Between 11 – 25 As above price list plus travel less 2.5%
- Between 26 – 40 As above price list plus travel less 5.0%
- 41 and above to be quoted

Further UKIS discount available if taken out alongside metal detection checkweigher contracts. We will calibrate your scales and issue a certificate. We will also inspect and report any problems we find. A calibration certificate will be issued on the UKIS portal.

M&S Spec Checkweigher or Metal Detector

Length of Hire	Per Month
Minimum 3 Months	£800.00
Minimum 2 Months	£900.00
Only 1 Month	£1,000.00

STD Spec Checkweigher or Metal Detector

Length of Hire	Per Month
Minimum 3 Months	£600.00
Minimum 2 Months	£682.00
Only 1 Month	£852.00

X-Ray

Length of Hire	Per Month
Minimum 3 Months	£1,850.00
Minimum 2 Months	£2,100.00
Only 1 Month	£2,630.00

Calibration & Maintenance: Machines will be supplied in good working order and with a valid calibration. For longer term rental, a service package will be included in the cost.

Monthly Rental Charges: To be invoiced monthly for advance payment. Order number to be confirmed at time of rental agreement.

Initial Costs to be Included: Monthly rental delivery & pick up (including mileage) and installation and commissioning cost.

Monthly Rental Costs: Initial rental period will be for a maximum of 3 months. This may be extended by mutual agreement.

Delivery Options

Our standard delivery service is next day before 4pm, subject to availability of ordered items.

For non-standard delivery requirements, please contact us for a quote.

Weight	Service	Delivery	Cost
Up to 5kg	Mail Pack/Courier Pack	Next day before 4pm	£15.00
Between 5 - 20kg	Mail Pack/Courier Pack	Next day before 4pm	£20.00
Over 20kg	Check pricing with courier	Next day before 4pm	TBC





Head Office:

Unit 15
Hercules Way
Farnborough Aerospace Centre
Farnborough
Hampshire
GU14 6UU

Manufacturing:

Units 5 & 6
Elan Court
Norris Way
Rushden
Northants
NN10 6BP

T: +44 (0) 1252 510565

E: info@ukinspectionssystems.com

W: www.ukinspectionssystems.com

