



Industrial Vision Systems

**Global specialists in high performance
vision systems and inspection machines**

Automated Metrology



**Your expert partner in vision
technology for automated
quality control**

WHAT WE DO

Global specialists in high performance machine vision and vision systems for quality control, sorting, inspection and guidance.

WE'RE ONE-OF-A-KIND

Combining industrial automation with machine vision we provide inspection machines and solutions to blue-chip manufacturers worldwide.

Let us do your hard work. We remove the headache of deploying automated visual inspection.



Our specialist capabilities include

- Ready-to-run inspection machines for quality control.
- Single and multi-camera off-the-shelf vision systems for automated inspection.
- High-performance automation and control.
- Machine vision sensors, cameras, software and associated technologies.
- Robot inspection cells. Robot and vision technology combined.
- Automated optical metrology. Metrology-grade inspection machines for quality assurance.
- Special purpose machines, cells and lines for quality control - tailored to your requirements.
- Vision systems training and support.



Industrial Vision Systems operates from a custom designed facility at the prestigious Harwell Science and Innovation Campus in the United Kingdom. The campus is one of the most advanced and active innovation communities in Europe, located just South of Oxford and only forty-five minutes from Heathrow Airport.

Our Comprehensive Services



Machines

Take advantage of our engineering and machine building know-how. Our advanced solutions range from standard machines customised to your needs through to special purpose machinery, all designed, built and installed by experts.



Consulting

Our knowledgeable experts will assess and determine the best solution for your product range and application. Using our skilled expertise, we provide quick and timely demonstration results, analysis, and solution proposals.



Automation

Benefit from our unique combination of machine vision mastery and automation expertise to provide complete turn-key solutions from a single partner. Take advantage of our complete handling and automation package to optimise your production.



Inspection

We are passionate about machine vision. Leave nothing to chance by leveraging our unparalleled proficiency and experience in vision technology to provide unrivalled inspection solutions customised with the latest generation technology.



Validation

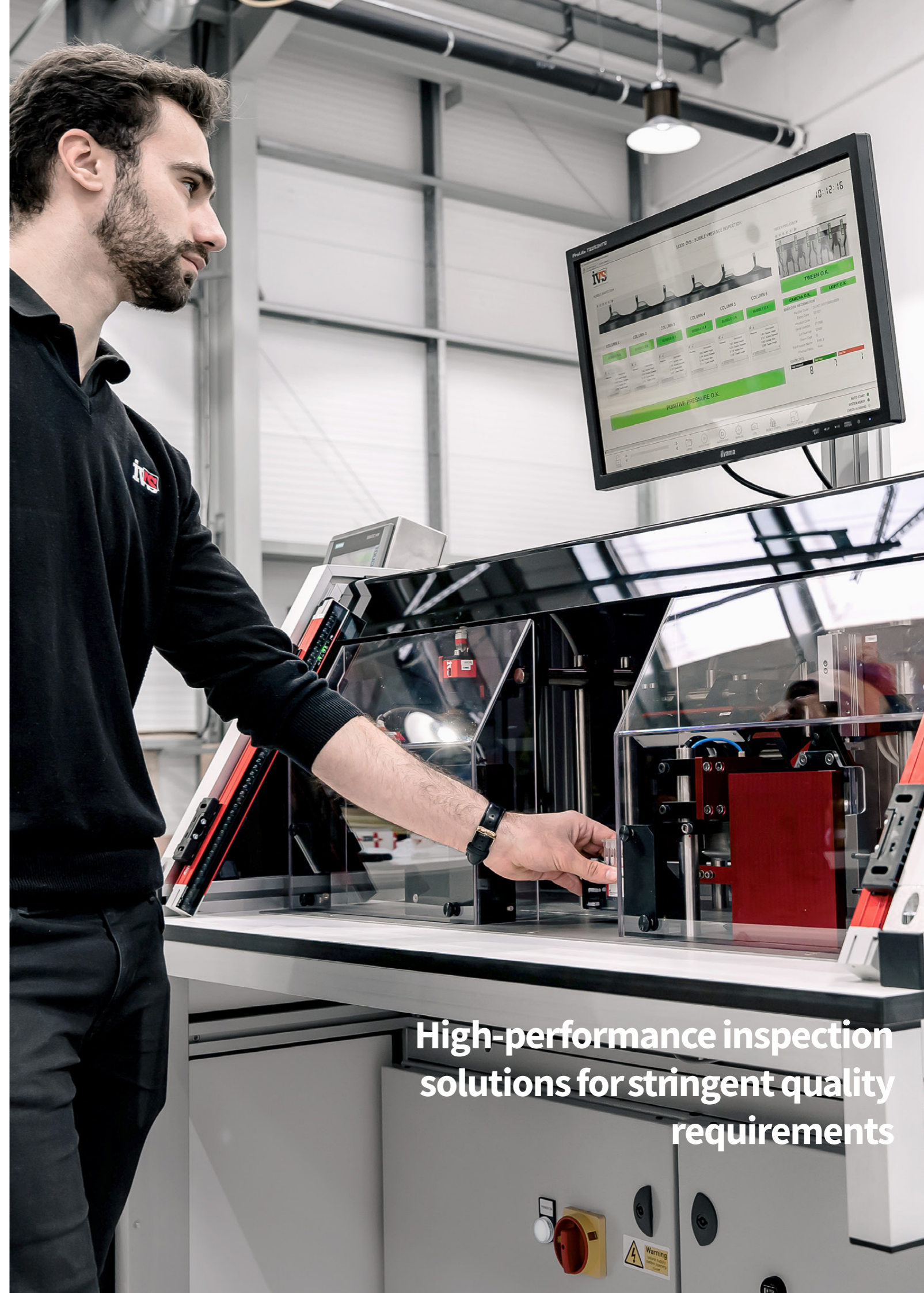
Expedite machine qualification and validation with our tested and proven processes for methodological execution according to GAMP. Minimise risk by using our validation services carried out by industry experts.



Support

From after-sales servicing, preventative maintenance, remote solutions, on-site support, through to training - we offer a comprehensive support package. Our training programs are customised to your specific needs to embed knowledge and confidence into your engineers.

Benefit from the most innovative and advanced inspection machines and vision systems available. Deployed worldwide in automated production processes for quality control, inspection, guidance, identification, measurement, tracking and counting – in many diverse industries.



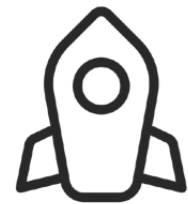
High-performance inspection solutions for stringent quality requirements



EASY SETUP

Our expert vision engineers will get you automated faster.

Benefit from easy configuration and seamless integration with established industry leading software and hardware solutions. Achieve reliable robust inspection performance using IVS graphical User Interface software options. Trusted industry-standard vision tools provide advanced visual inspection.



FAST PAYBACK

Quick and easy integration is critical.

We provide a 'right-first-time' solution, saving you money, and allowing you to fast track your development using our expertise. Minimise your project life cycles and have access to the latest and most potent development tools.



RELIABLE INSPECTION

A vision system like no other.

Advanced algorithms, enhanced intelligence, feature analysis and extendable processing. We cover all areas of machine vision technology, combining application requirements into a single solution.

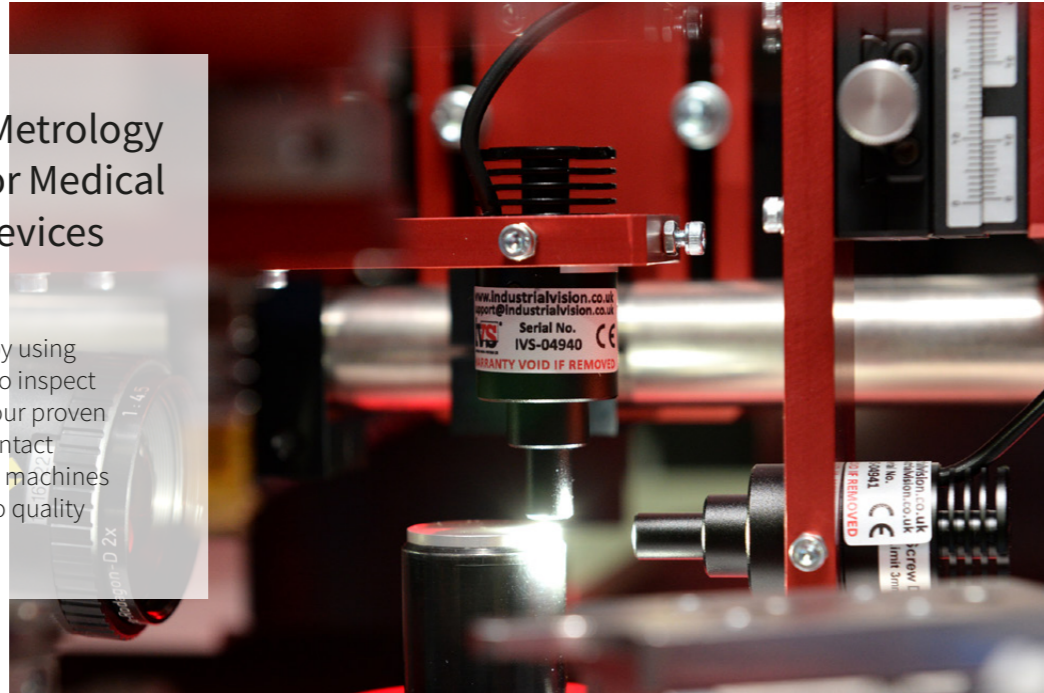
Use our expertise, after all, we've been doing this a long time. Over the last twenty years we've continued to invest in R&D, so our vision engineers are using the very latest machine vision technology, algorithms and hardware.



Automated Metrology

Validated Automated Metrology Inspection solutions for Medical Device components, devices and manufacture.

Benefit from accelerated metrology by using our automated metrology solutions to inspect your products in seconds. Based on our proven platforms, we have a range of non-contact manual or automatic load inspection machines to automate your repetitive, critical to quality inspection tasks.



Metrology made simple.



Non-Contact Measurements

Enhance your quality processes with our non-contact measurement technologies. From vision system cameras, confocal sensors, to 3D laser vision - our experts select the right solution for your application.



Accurate, Traceable, Fast

Avoid risk and rest assured knowing IVS systems are calibrated to traceable national Standards. Our systems are fully validated for metrology and backed up with testing reports, MSA, and traceable certification.



Customised Reporting

Optimise your inspection report workflow with our customisable data management. Our highly flexible solutions interface with any factory information system from spreadsheets through to SQL databases.

Typical Applications

- ✓ Medical device dimensional metrology
- ✓ Medical device assemblies
- ✓ Dental implants
- ✓ Orthodontic brackets and components
- ✓ Caps and moulds
- ✓ Surgical drills, cutters and tools
- ✓ Surface roughness and finish
- ✓ Orthopaedic joint surface inspection
- ✓ GD&T measurements
- ✓ Screws, bolts and tools
- ✓ Machined components
- ✓ Gears
- ✓ Orthopaedic joints and implants
- ✓ 3D printed ortho components
- ✓ Knee, hip and spinal implants
- ✓ Medical screws, inserts and plugs
- ✓ Cardiac components
- ✓ Bone screws and bone screwdrivers
- ✓ Chemical etched products
- ✓ Injection moulded components
- ✓ Medical sub-assemblies
- ✓ Precision gauging and measurement
- ✓ Extruded and moulded parts
- ✓ Lathe processed parts

Validated Turnkey Metrology Solutions

Minimise operator involvement and eliminate human error with our high-speed automated inspection solutions. Optimise your part inspection repeatability by automating the inspection process with systems that perform validated processes consistently, 24 hours a day, 7 days a week.

Benefit from significantly faster inspection processes by integrating our metrology solutions into a fully automated in-line solution. With substantial savings on operating costs and improved OEE, our systems deliver a rapid return on investment.



Automated Metrology Inspection IVS-AMi

Enhance your production quality and inspection capabilities with IVS semi-automated and in-process metrology inspection solutions. Maximise your OEE, minimise risk, and reduce costs for a rapid return on investment.

IVS automated metrology inspection systems are highly flexible and adaptable. Based on our standard metrology platforms, we customise our tried-and-tested systems with optimised inspection technologies for your product.

Remove uncertainty from your inspection workflow by automating the inspection processes and eliminating human error. Our proven systems significantly improve your inspection reliability, repeatability and efficiency.

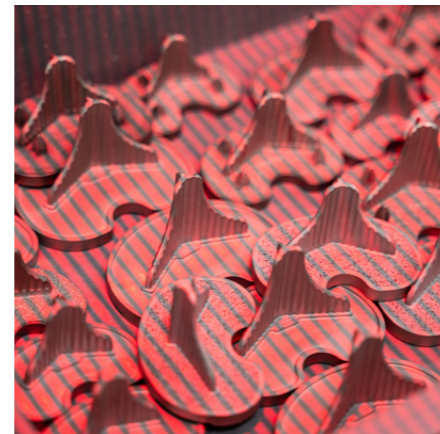
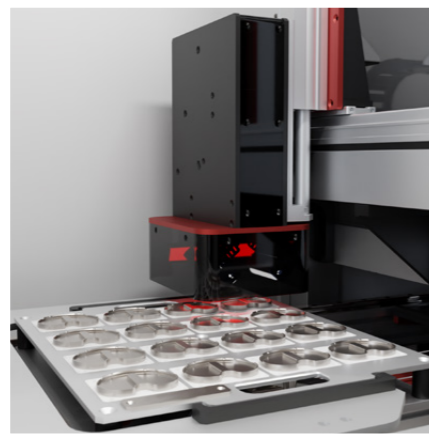
Leave nothing to chance by turning to our experienced team of engineers to automate your metrology inspection requirements. Leverage our inspection know-how and automation expertise to maximise your production efficiency, quality, and inspection accuracy.

Accelerate Inspection Workflow

Optimise your product inspection processes by implementing advanced automation into your workflow. Perform 100% inspection in real-time to match the speed of your production line.

Reduce Operator Resource

Minimise the time your quality team spend carrying out repetitive off-line inspection with IVS automated metrology inspection. Free your engineers to do what they do best, while our systems take care of the repetitive inspection process.



Automate Data Collection

Improve the efficiency, integrity and accessibility of your data collection. IVS systems automate the reporting process with tailored solutions to meet your requirements.

Eliminate Human Error

Enhance product inspection with systems that inspect without deviating from your validated process. Maximise repeatability and reproducibility with IVS tried-and-tested inspection platforms.

Made to Measure

Proven measurement platforms
tailored for your specific needs



Automated Loading Solutions

Accelerate your inspection workflow with IVS range of automated loading and machine tending solutions. From collaborative robot machine tending, to auto-loading, to tray stacking.

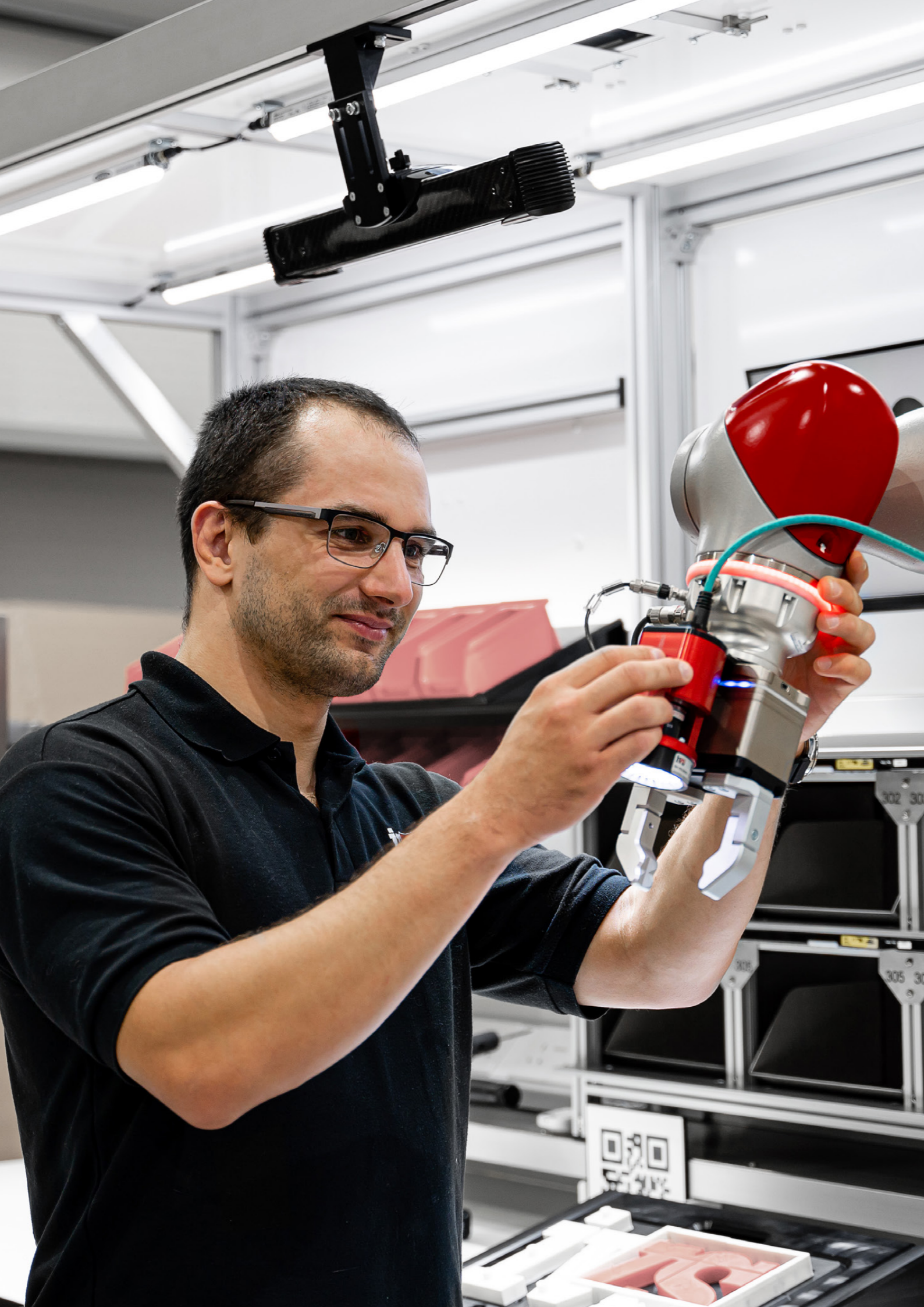
Benefit from inspecting complete batches with accurate results and automated data collection. Our experienced engineers tailor the optimum solution for your production workflow.

Improve your lean manufacturing and allocation of resources by leveraging IVS automated metrology solutions. Release your quality team from repetitive, manual inspection operations and improve the productivity of your quality department.

Automated Loading Solutions

- Tray loading for multiple part inspection
- Tray stacking and buffering for extended operator-less runtime
- Part loading with collaborative robots





Services

Leave nothing to chance - partner with IVS and benefit from support and training packages delivered by industry leading experts.

Working with us means drawing on the experience of our large team of vision service engineering specialists who together offer an extraordinary range of expertise and support in machine vision technology, artificial intelligence, industrial automation and control.

Improve your uptime and reduce risk of unexpected disruptions by using our service and support network to help you get the most out of your investment. We offer on-site support, annual preventative maintenance and calibration to ensure your system remains reliable and consistent to improve the quality of your products and reduce the risk of costly defects.

- Training
- Support
- Preventative Maintenance
- Service Excellence

Training & Support



We provide comprehensive training relating to our full range of IVS machine vision solutions.

As part of our comprehensive after-sales service offering, IVS provides a choice of training courses in the operation and maintenance of our complete range of inspection machines and systems. Courses are practical, with a hands-on approach and all delegates are awarded certificates on successfully completing a course.

Topics Covered

Industrial Vision Systems is committed to providing comprehensive training empowering your engineers to support all aspects of your machine vision solution.

- ✓ How to set-up a machine vision system
- ✓ On-going maintenance of the system
- ✓ Automatic operation and results
- ✓ Measuring using machine vision
- ✓ Assembly control and verification
- ✓ PLC, serial and I/O control
- ✓ Debug facilities
- ✓ Camera and lighting technology
- ✓ Optics and filters
- ✓ Machine vision project control
- ✓ Manual operation
- ✓ Live mode
- ✓ Automatic mode
- ✓ Bar code recognition
- ✓ Presence verification
- ✓ Gauging
- ✓ Positioning
- ✓ Character and pattern recognition
- ✓ Template matching
- ✓ Training assignments

Key Benefits

- Delivered by our team of experienced and professional technical instructors
- Certified training certificate for each delegate on satisfactory completion
- Combination of practical workshop exercises and classroom based learning
- Flexible private classes at IVS Harwell Campus or at your manufacturing site
- Fully documented with printed Training Manuals for each delegate
- Full range of courses catering for all levels of ability



Basic Training

The two-day basic training course gives an overview of all the typical application areas of machine vision. You will be introduced to the full range of image processing functionality as well as to the various ways of integrating our vision systems into production processes and quality management systems.



Advanced Training

Our advanced training course builds on the foundation knowledge of the basic course providing a deeper understanding of complex applications, machine operation and vision tools. When you complete this course you will be able to fully understand the software, the hardware, and the program deployed on your system giving you confidence to support your vision systems in-house.



Tailored Packages

Tailored to suit your individual requirements covering everything from basic training, to advanced application specific training, to machine operation and maintenance. Courses can be held at either IVS training facility at Harwell Campus or delivered on site.

World-class Support

Partner with machine vision experts.

We support systems around the world with our comprehensive support package. When you partner with IVS you benefit from lifetime support from industry experts. Our systems are deployed with remote access solutions meaning we can securely analyse, maintain and troubleshoot your system minimising costly downtime.



Service Excellence

Our mission is to make companies more efficient, highly flexible and quicker with our machine vision solutions.

Get the most out of your investment. We know that working in partnership with our customers achieves the best results. By listening to our clients and working together, we communicate on equal terms – building trust and going the extra mile to deploy and support the ideal vision solution.



Right First Time

We operate under the concepts and philosophies of Total Quality Management and are dedicated to continual improvement in all phases of our business to better serve our customers, employees and the community in which we live and work. We are a British Standard Institute (BSI) and CE Marking Association registered company. We are also proud to have accreditation from SafeContractor® due to our commitment to achieving excellence in health and safety management across all areas of our business.

Our extensive range of vision and ID products for all applications is backed by an unerring commitment to quality and adherence to Good Automated Manufacturing Practice (GAMP) guidelines. We operate a complete in-house mechanical, electrical and control design service providing customers with full project management and feedback.

We have experts in industrial image processing, 3D CAD design, PLC control, electrical design, factory automation and project management. This allows us to deliver a complete scale of projects from the supply of vision peripherals and components through to fully integrated complete vision machines and production lines.

Not only do we provide consultancy and technical support but we also offer comprehensive training programs to familiarise customers with the capabilities of our vision system applications.





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