





Whether forwarding high volumes of small parcels or handling large consolidated shipments, the air cargo industry demands fast, reliable and accurate security screening.

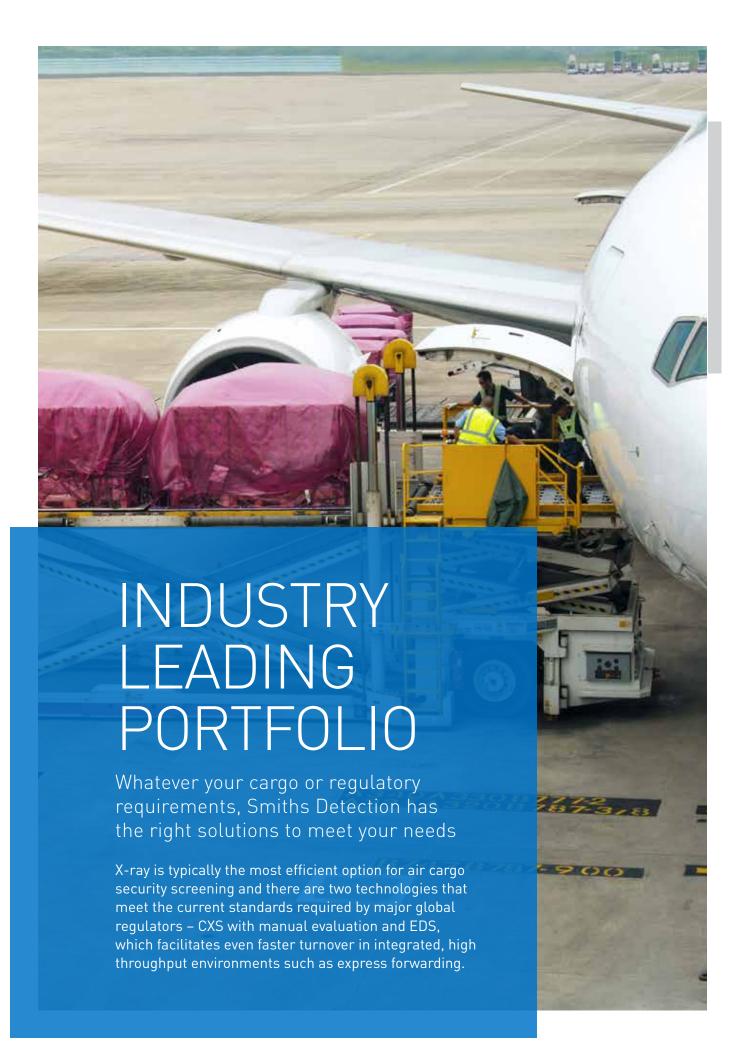


The latest air cargo screening technology combines the highest levels of security with effective automation and material handling system integration - meeting the challenges of increasing shipment volumes while complying with global regulatory standards. Critically, for a business driven by speed any technology must also significantly improve operational efficiency.

With over 40 years' experience, Smiths Detection understands air cargo's unique requirements, and provides everything from stand-alone Conventional X-ray Scanners (CXS) to fully automated, networked Explosives Detection Systems (EDS), the deployment of Artificial Intelligence (AI) for automatic object recognition and Explosives Trace Detection (ETD).

Our solutions, which routinely meet and exceed international legislative regulations for air cargo screening, bring together outstanding detection, high throughput, low false alarm rates and superior image quality. Expert and fully equipped service engineers are always at hand to optimise your equipment and take proactive measures to ensure essential uptime.

Specialist Smiths Detection teams work with customers to design and implement the most appropriate solutions, offering in-house management and support to handle the installation and commissioning - including interfacing screening equipment with material handling systems and other logistics applications.



CONVENTIONAL X-RAY SCREENING FOR BREAK-BULK CARGO

Our extensive CXS range offers a wide choice of scanners specifically designed to screen small, break bulk cargo or large palletised consignments. Many feature dual-view technology that accelerates inspection of tightly packed items by providing both horizontal and vertical views. All our solutions deliver a high level of security combined with excellent reliability.

CXS scanners for break bulk cargo are available in several different tunnel sizes and can be fully integrated into material handling lines to avoid manual loading and unloading. They are ideal for screening a mix of shapes and sizes as well as designed with a small footprint to take up less valuable floor space.

HI-SCAN 100100V-2is



Featuring a high-speed raised conveyor belt, the dual-view scanner provides high-quality images of screened objects of different sized parcels. Additionally, an updated model meeting the new 0.5 m/s belt specifications is available.

1,000 x 1,000mm / 39.4 x 39.4in

(7) 0.2, 0.5 m/s

HI-SCAN 100100T-2is



Featuring a low conveyor belt, this dual-view X-ray system is designed for screening oversized bulky freight.

1,000 x 1,000mm / 39.4 x 39.4in

(7) 0.2 m/s

CONVENTIONAL SCREENING FOR CONSOLIDATED, PALLETISED GOODS

We also offer scanners aimed solely at the inspection of large, consolidated or palletised goods. Our most powerful option, the HI-SCAN 180180-2is pro is capable of screening LD3 containers and features two 300kV X-ray generators for penetrating 75mm steel, reducing time spent on break down and re-inspection and ensuring a fast and efficient screening process.

HI-SCAN 145180-2is pro



The innovative dual-view 200kV air cargo screening system meets the demand for fast turnaround, high levels of security and an attractive total cost of ownership (TCO).

1,450 x 1,800mm / 57.1 x 70.9in

(7) 0.24 m/s

HI-SCAN 180180-2is pro



This advanced dual-view 300kV X-ray cargo scanner designed for the inspection of large scale consolidated and palletised goods provides excellent steel penetration.

1,790 x 1,700mm / 70.5 x 66.9in

(7) 0.24 m/s









IN-LINE, AUTOMATIC SCREENING / EXPLOSIVES DETECTION SYSTEMS

HI-SCAN 10080 XCT



This next generation high-speed, explosives detection system (EDS) features a dual-view dual-energy X-ray line scanner with full 3D volumetric computed tomography (CT) imaging and reconstruction.

1,000 x 800mm / 39.4 x 31.5in

(7) 0.5 m/s

HI-SCAN 10080 EDX-2is



This automatic explosives detection system uses dual-view X-ray for an improved the evaluation process.

1,060 x 800mm / 42.2 x 31.9in

7) 0.5 m/s

EXPLOSIVES TRACE DETECTION

IONSCAN 600



Detects/identifies explosives & narcotics in less than 8 seconds

Non-radioactive IMS source

Small, lightweight and portable

CTX 9800 DSi



This high-speed explosives detection system with full 3D volumetric computed tomography (CT) imaging allows for efficient security decisions on cargo packages.

objects up to 2.5m / 98.4in in length

(7) 0.2, 0.3, 0.5 m/s

CTX 5800



This compact explosives detection system (EDS) with full 3D volumetric computed tomography (CT) imaging automatically identifies threats in cargo packages.

max width at conveyor edge: 750mm / 20.5in max height at max width: 408mm / 16in max height at conveyor center: 625mm / 24.6in

(7) 0.14 m/s

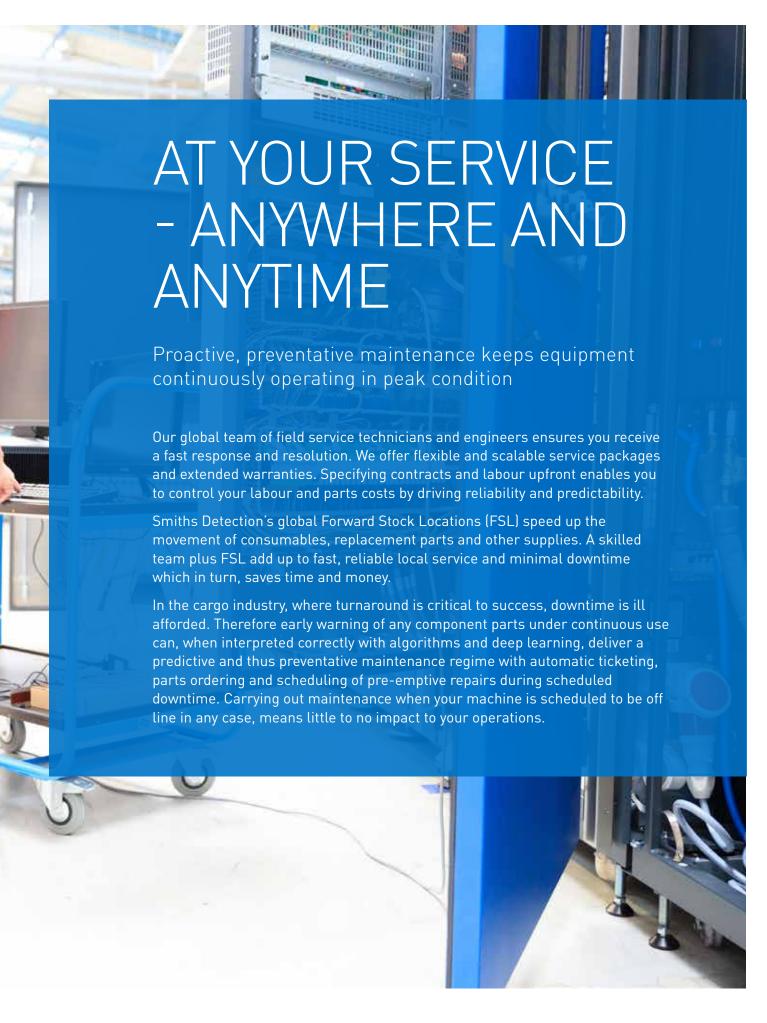


CREATING ANETWORK

Our networking solutions bring even further efficiency to in-line EDS by supporting an increase in security, reduction in costs and resource optimisation. Images are delivered to analysts in real-time via a dependable network with minimal downtime. Remote screening at a central location can also be introduced to all types of CXS scanners – even images from several systems screening large scale consignments can be handled by one operator. Smiths Detection is leading the way in connecting several screening lines, distribution hubs and airports both nationally and internationally.

Another key benefit of a network is the ability to create a system management function. This includes easy monitoring of the health of your solutions and gathering the data and insights needed for general administration and resource allocation. These functions can be accessed via multiple local workstations or a web-based platform.



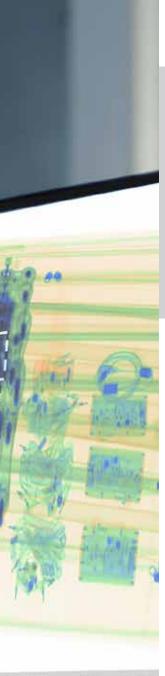




Maintaining cost effective operations, the highest levels of security and peak performance into the future

Smiths Detection solutions are designed to adapt to changing requirements, new security threats and developments in technology. Built-in upgrade paths mean equipment can be updated on-site. Future proofing your security systems.









A considerable and on-going investment in R&D ensures we can bring you the latest advancements in screening. Such as iCMORE, our automatic lithium battery detection algorithm, introduced to support IATA recommendations on shipping Dangerous Goods. It was developed to tackle the very real threat posed by undeclared lithium batteries which have the potential to ignite whilst airborne. The range of iCMORE object recognition algorithms already has the ability to identify other dangerous, prohibited or contraband goods and substances, such as flammable liquids and solids, and will continue to grow.

Progress in biometrics, artificial intelligence and integrated screening technology are driving some very exciting developments

in risk-based screening across several aviation sectors and air cargo is no exception. A degree of differentiation is already applied in air cargo to meet the additional measures required on some flights carrying consolidated shipments.

With RBS, each shipper/shipment triggers an appropriate level of screening for all consignments based on a pre-defined risk assessment. As captured information can be used multiple times across the network to benefit stakeholders at departure, transit and arrival airports, there is also an application here for object recognition algorithms in alerting local authorities to contraband and other prohibited items.



