

A photograph of a busy airport security checkpoint. In the foreground, there are metal detectors and conveyor belts. People are seen in motion, some walking through the lanes and others standing near the equipment. A security officer in a dark vest is visible in the middle ground. The background shows more of the checkpoint area with various machines and people. A large, semi-transparent magenta triangle is overlaid on the left side of the image, containing white text.

# Focus On\_ Checkpoint Security

iLane  
Keeping the process moving

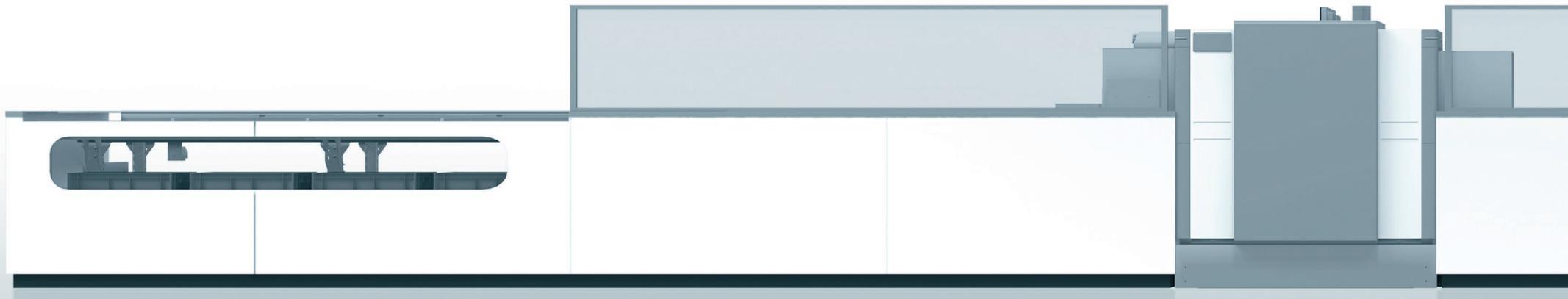
smiths detection

# Keeping the process moving

Screening equipment needs a steady flow of trays to reach optimum performance

An effective lane with tray handling system is a primary checkpoint component. By delivering a steady flow of trays, it plays a critical role in streamlining the screening process and delivering the subsequent benefits of increased throughput, lower per capita costs and an improved passenger experience.

Innovations in lane design and function can help take the overall checkpoint solution to the next level by removing bottlenecks and literally keeping the process moving. The iLane from Smiths Detection features the latest developments and addresses the key issues of passenger divestment; tray loading and return; re-routing suspicious items; and 'reclaim' space at the end of the checkpoint.



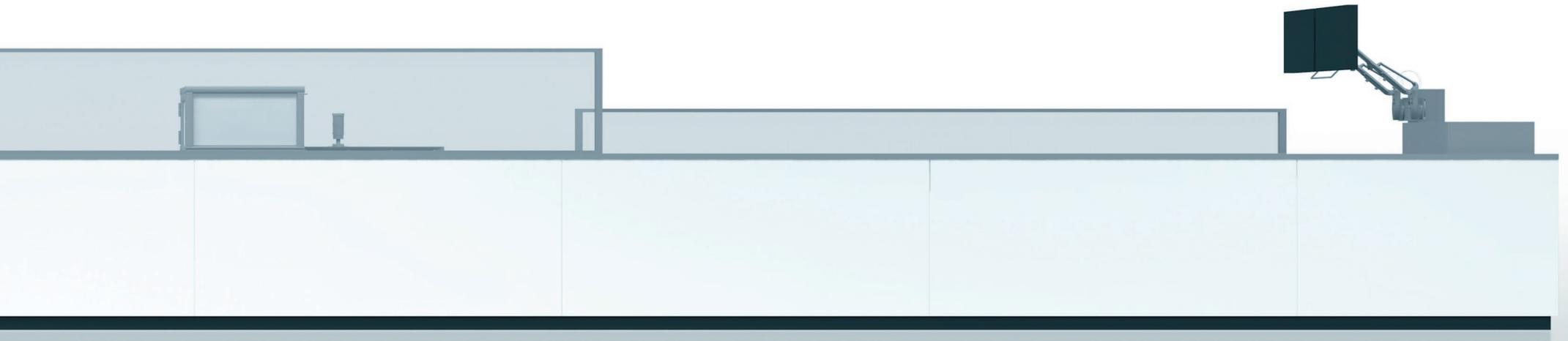
# Removing the bottlenecks

Design and technical developments maintain the flow

iLane has been designed to eliminate bottlenecks, keep queues under control and the system moving. Three key advances together deliver the improved productivity, higher throughput and reduced operational costs which represent the measures and benefits of optimum operational efficiency:

- **Parallel divest:**  
a completely different approach to preparing passengers for the screening process
- **Automatic diversion:**  
an efficient method of separating suspicious baggage from the main conveyor
- **Automated tray return:**  
eliminates the need to transport trays manually

The high level of automation leaves operators free to focus on the travelling public, getting them ready for screening and keeping the process moving. Fast and effective screening increases the number of people screened and reduces the screening cost per head. At the same time, a positive experience is sure to please the travelling public and happy relaxed passengers travelling quickly through the security checkpoint have more time and opportunity to enjoy retail facilities and other airside services.



# Pragmatic and automatic

Highly functional design takes full advantage of automation

## Practical from start....

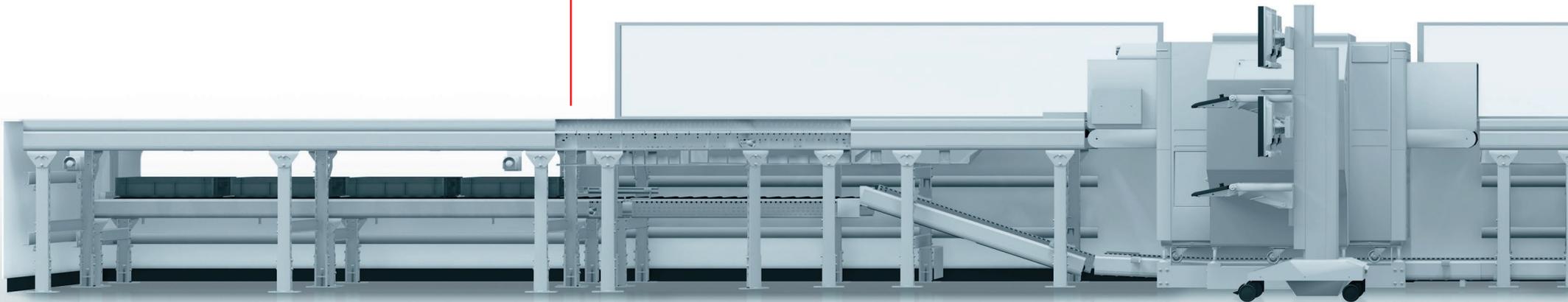
Traditionally, the security checkpoint has proved frustrating for the travelling public with hold-ups right at the start as, one after another, people remove items to place in trays. iLane incorporates parallel divestment, which allows multiple passengers simultaneously to prepare and, once ready, push their trays into the screening queue and proceed to the body screening stage.

As several trays can be filled and fed onto the conveyor at the same time, passengers can start organising their own belongings and move around slower people in front. With the addition of an active conveyor, trays can be pushed on to it for transport towards the scanners as soon as they are ready - eliminating the need to wait for other passengers.

The iLane design has also considered the people 'downstream' who may not be able to access the conveyor if trays are approaching from further 'upstream'. Light sensors are used to pause a portion of the active conveyor so 'downstream' trays can be added manually.

## ....to finish

At the end of the checkpoint, iLane provides viable space for multiple passengers to reclaim their belongings and get organised before continuing on into the departure lounge - a process which typically takes twice as long as divesting. If necessary, several reclaim stations can be added to avoid any potential backlog.



## Automatic diversion

By avoiding belt stops and manual intervention, iLane can significantly increase the throughput of the main conveyor system. Any trays carrying items identified as suspicious are automatically diverted off the main (cleared) conveyor towards a secondary search area with no interruption to the central flow. An additional, high threat module can be used to divert highly suspect trays to a third area for inspection by appropriately authorised personnel.

If remote, centralised screening is being used, a decision conveyor can be installed between the scanners and the diverter. When needed, this enables operators to spend a little more time evaluating images but if any tray exceeds the given time limit, it can be automatically sent to the secondary search area.

## Focusing on customer support

iLane automatically recirculates trays from a retrieval unit at the end of the checkpoint, delivering them to passengers back at the start. Not only is this a much more efficient method of transporting trays, it also enables some job functions to shift in emphasis from manual tasks to customer support.

For lanes to perform at their best, people need to understand the system: where to go; what to do; which items should go in the trays. With iLane, staff can now focus on getting passengers ready; assisting them through divestment; and helping them to become familiar with the new process – resulting in a positive impact on throughput and the passenger experience.

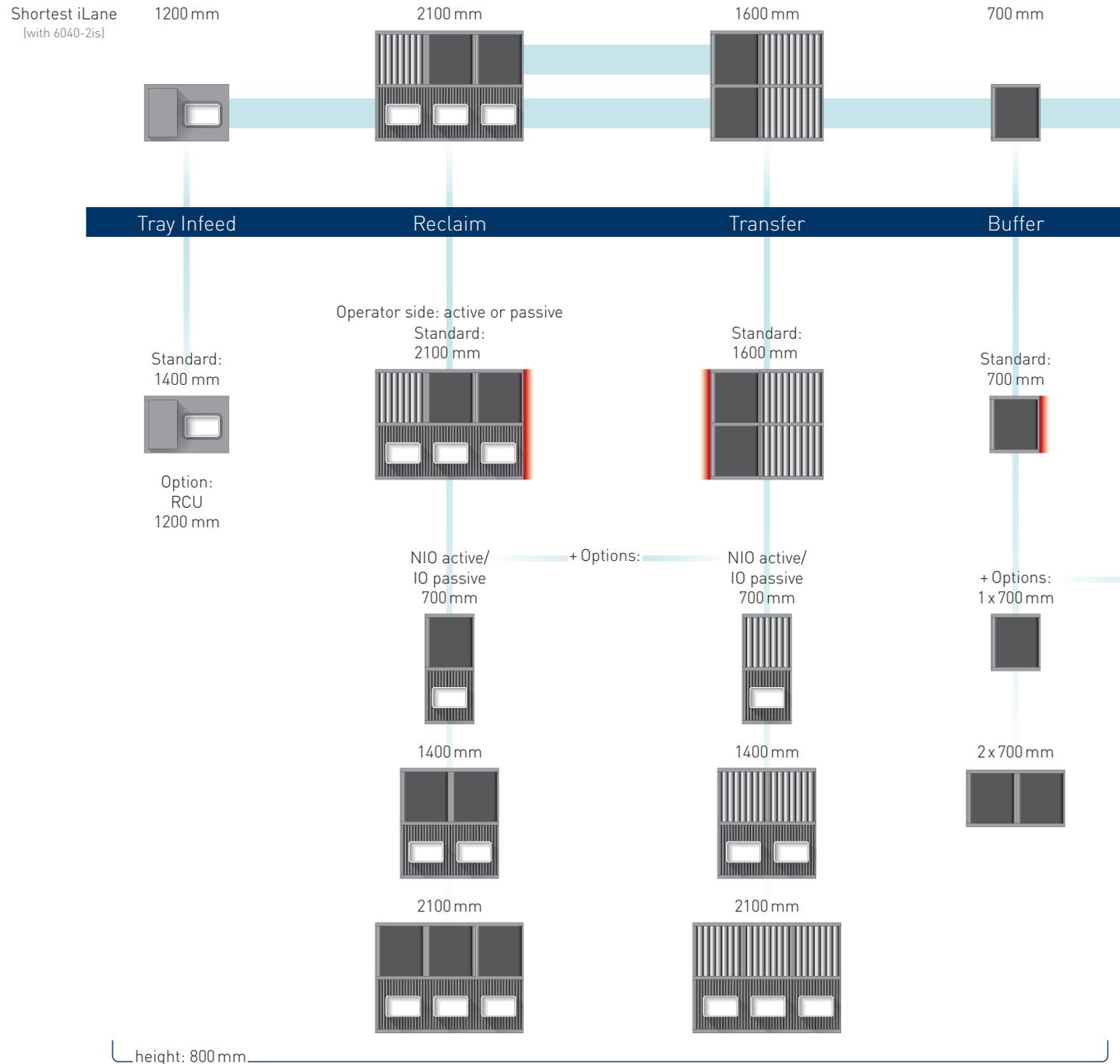


# Modular flexibility

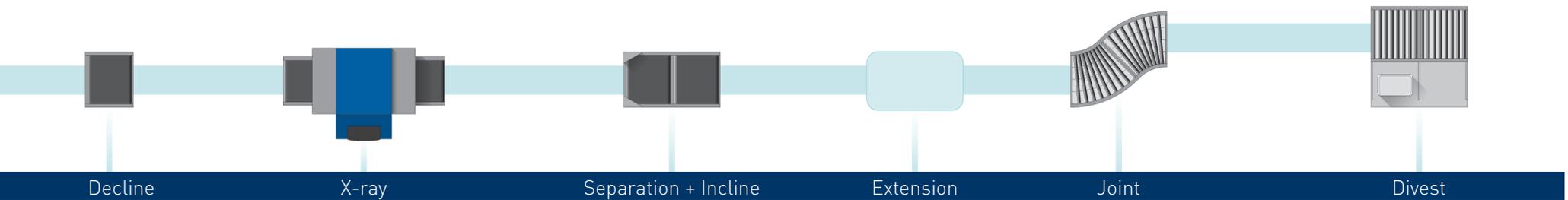
Customised configuration and smooth integration

iLane is modular in design, offering the flexibility to develop a variety of configurations to meet different requirements and expand to handle increasing passenger traffic. It is future-proof with the capability to incorporate new inspection systems and functions. In order to ensure the best possible overall results, iLane seamlessly integrates with other checkpoint components.

Whilst clearly developed to improve performance, iLane also creates a more relaxing passenger experience and can be adapted to blend into the look and feel or individual branding of the airport.



700 mm      2380 mm      1400 mm      1600 mm      1400 mm      = 13080 mm



Standard:  
700 mm



Options:  
6040aTix – standard conveyor  
6040aTix – US conveyor



6040-2is



Standard:  
1400 mm



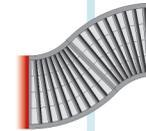
Options:  
1 x 700 mm



2 x 700 mm



Standard:  
1600 mm



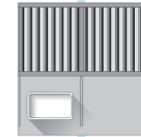
Options:  
45°



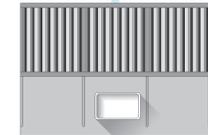
90°



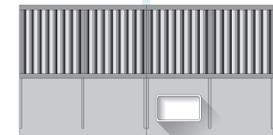
Options:  
2 = 2-tray module



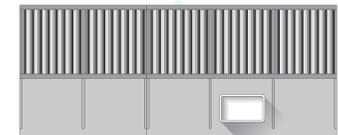
3 = 3-tray module



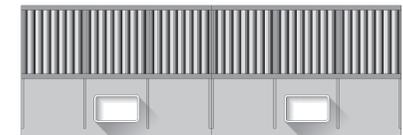
4 = 2x2-tray module



5 = 2-tray + 3-tray module



6 = 2x3-tray module



 = insert points

height: 800 mm

## Making the world a safer place

Smiths Detection is a global leader in threat detection and screening technologies for military, air transportation, homeland security and emergency response markets. We deliver the solutions you need to protect society from constantly changing chemical, biological, radiological, nuclear and explosive threats, as well as weapons, contraband and narcotics.

Recognised around the world as delivering best in class expertise, equipment and support, we are relied on by customers from multiple sectors to help them make the world a safer, more secure place. With over 40 years' experience, our mission is to turn technology into innovative solutions and services which preserve life, safeguard society and uphold the free flow of trade.

One of our greatest assets is our customer centric approach to service and support. We work hard to address the very varied and often unique challenges you face on a daily basis with outstanding solutions and support. From the operational demands of busy airport passenger checkpoints, to inspecting cargo for contraband at ports and land borders, Smiths Detection is constantly looking at ways to help you achieve your goals in different environments.

Smiths Detection is the trusted partner of choice in this very demanding sector: you can rely on our proven record in security.