

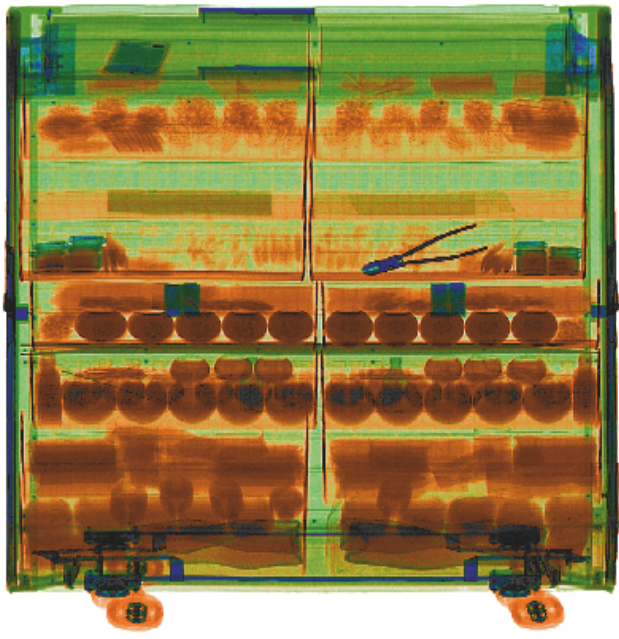
Features and Benefits Comparison Charts

Existing Cargo Style machines	TR-STS Machine
Large foot print – 8000mm (L) 2400mm (W) 3000mm (H) Approximate dimensions dependent on make and model.	Small foot print. 3430mm (ex ramps), 6353mm (with ramps) (L) x 1750mm (W) 1665mm (H)
A standard cargo style machine has powered rollers, which means airline trolley need additional handling, such as the use of pallets or jigs prior to being loaded onto the rollers using a fork truck.	The TR-STS has a solid rubberised continuous belt conveyor, which mean the trolleys can be manually hand feed to the machine without any additional equipment.
Trolleys will require the foot brake to be applied and released during the loading and unloading process.	No requirement to apply the foot brake during loading and unload.
Large base height, hence the requirement for MHE during the loading / off-loading process.	Base height only 308mm so enabling the use an inclined ramp.
Approximate height 3000mm height dependant on make and model.	Maximum height of only 1665mm, making the machine suitable in confined spaces.
Lead curtains prone to knocking over the trolleys when entering the X-Ray tunnel.	The TR-STS is fitted with automatic doors which open and close without touching the trolleys.
Lead curtains prone to damage and so requiring regular maintenance in order to adhere to IRR17 regulations.	Due to the inbuilt safety inter locks the automatic lead lined doors ensure the highest possible safety standards at all times.

Based on EU / UK regulations all inbound goods must be screened, or purchased from an approved supplier. Current screening of inbound goods is a manual process, and very labour intensive as 100% of all items must be handled as part of the screening process.

100% of all outbound trolleys, and 50% of all goods within the aviation trolleys (and overhead containers) must also be searched to ensure they do not contain any prohibited items. This is a manual process and can take over 1 hour to complete with over 20 staff (dependant on flight type).

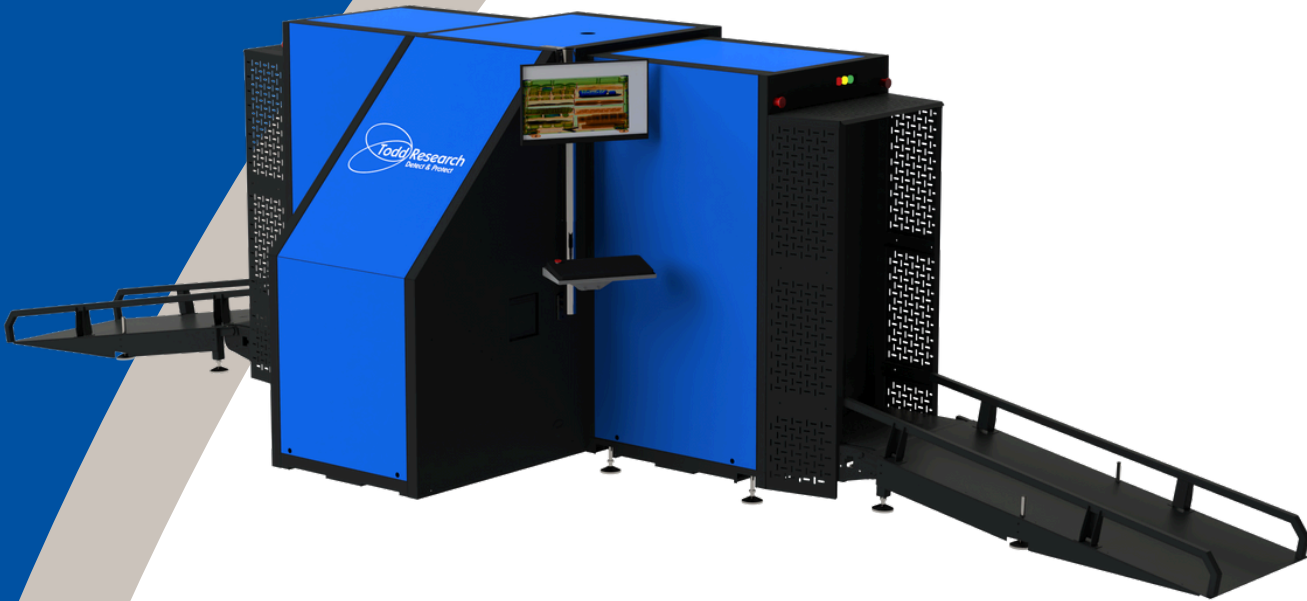
By using x-ray screening, the inbound inspection and final search can be completed in a single operation at a fraction of the time it takes to complete a manual search, enabling 100% inspection of all items, and taking away the need to use approved suppliers. The total process of x-ray screening including the final search takes a fraction of time – 20 seconds per trolley using 2-3 staff.



TR-STS

airline service trolley x-ray inspection system

Up to 3 scans per minute (full or half carts and multiple boxes).
10 x faster than traditional methods.
100% scanning of all items!



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The TR-STS is a specially designed x-ray inspection system for screening of airline service trolleys and carts.

Multiple views in one image the specially designed U-Shaped detectors allows you to achieve 100% inspection, including the difficult to search internal ice draw compartment, the underside braking mechanism, and a full side view, in one easy to assess image.

Special Automatic Doors are used, instead of lead lined curtains, this means the trolley and anything on it, stays where it was put on the belt, increase flexibility and throughput.

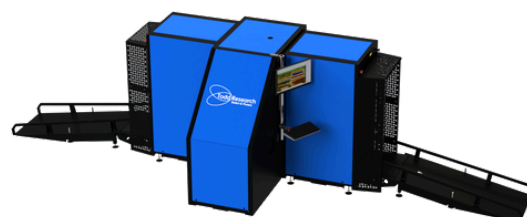
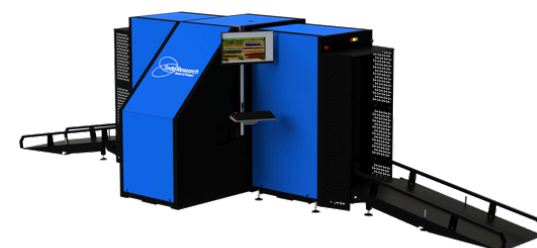
Dual Energy Technology provides automatic colour coding of materials according to their effective atomic numbers.

Image Processing Features including material separation colour display, pseudo colour, black and white image, positive/negative, contrast manipulation, edge enhancement, organic/inorganic stripping, high/low penetration, high density alert

Image Display Features including image review, variable zoom up to 16x, view change.

Additional Features: baggage counter, data and time display, all views in simultaneous preview.

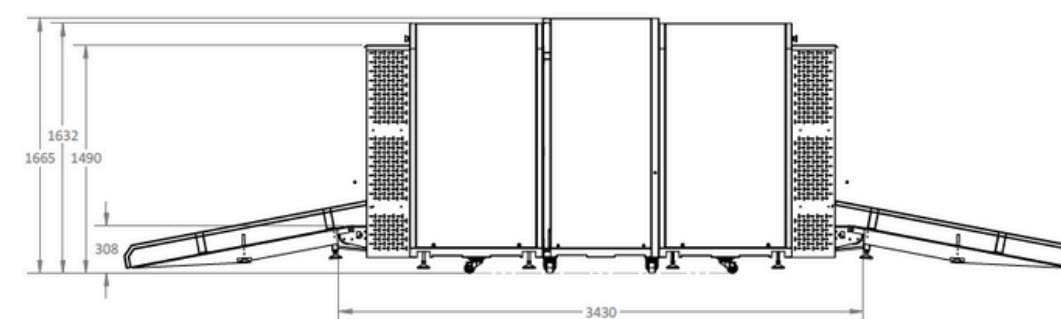
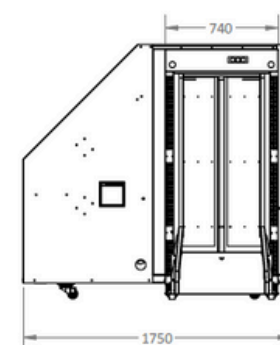
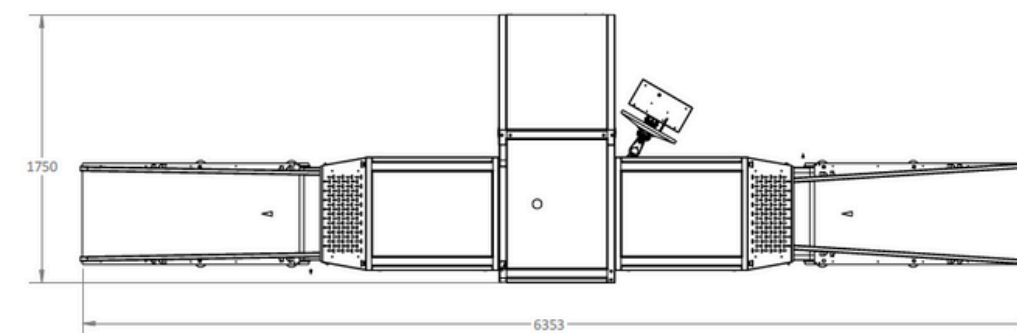
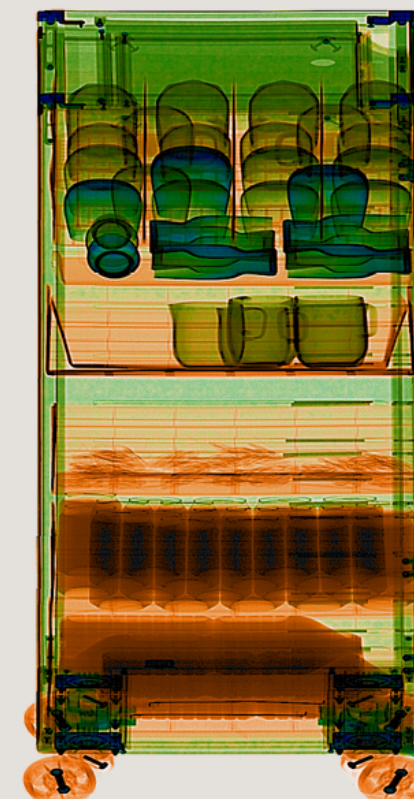
The TR-STS meets all international health & safety requirements.



Product Specification

TR-STS

- Dimensions with ramps (mm): 6353 (L) 1750 (W) 1665 (H)
- Dimensions ex ramps (mm): 3430 (L) 1750 (W) 1665 (H)
- Weight 1600 kg
- Inspection Tunnel (mm): 740 (W) x 1136 (H)
- Max object size (mm): 400 (W) x 1100 (H) to allow for stacking of Atlas/Ace box on trolley top, or use of skeleton cart.
- Belt Speed: 0.20
- Max object weight: 200 (kg)
- Resolution (AWG): 38 AWG (0.1 mm) typical 50 AWG (0.08 mm)
- Steel Penetration: 28 mm Guaranteed, 30 mm Typical
- Radiation dosage, μSv : less than 0.8
- Maximal/working voltage, kV: 200
- Maximal/working current, mA: 1.5
- Number of views: 1,0
- Detectors: U-shaped
- Power consumption, kVA: 3,0



Great innovative service



Worked with Todd over the past and found the service excellent. Equipment of a very high standard, support arrangements solid and reliable.

The company works alongside you to produce the best result for the client.

No hesitation in recommending Todd to others.

Quality at work!



Quality, robust products at fair prices. They meet all expectations. Highly recommended!

<https://uk.trustpilot.com/evaluate/www.toddresearch.co.uk>

High Definition imaging for the inspection of airline service trolleys.

