

HI-SCAN 180180-2is

Advanced dual-view X-ray cargo scanner

Feature Highlights

- Dual-view concept shortens inspection times
- Optimized beam geometry facilitates the detection of potential threats
- Rugged roller conveyors accept loads of up to 5 t when evenly distributed
- Tunnel dimensions allow for screening of max. accepted skid size today
- High penetration capabilities avoid disassembly into individual packages



The *HI-SCAN 180180-2is* pro has been designed for the inspection of large-scale consolidated and palletized goods. Thanks to its large tunnel dimensions, it is capable of screening LD3 containers.

Based on a dual-view concept, the system provides two independent sharp views of the screened goods, at 90°. As a result, it delivers better security due to more accurate and reliable image evaluation.

The two powerful 300 kV X-ray generators are capable of penetrating even large and dense objects, reducing re-inspection times (as consolidated cargo does not usually need to be broken down into smaller items), ensuring high throughput and a fast & efficient inspection process.

The small pitch roller conveyors ensure a smooth passage for the scanned goods and supports a total load of up to 5000 kg/m (evenly distributed).

The optimized footprint minimizes the required floor space, helping to keep the lifecycle costs low.

Technical Information HI-SCAN 180180-2is

General Specifications

- Tunnel Dimensions 1810 (W) x 1821 (H) [mm] • 71.3" (W) x 71.7" (H)
- Max. Object Size 1790 (W) x 1700 (H) [mm] • 70.5" (W) x 66.9" (H)
- Conveyor Type small pitch roller conveyor
- Conveyor Height ¹⁾ approx. 840 mm (33.1")
- Conveyor Speed standard 0.24 [m/s]
- Max. Conveyor Load (evenly distributed) .75 t/m (504 lbs/ft), 5000 kg evenly distributed over the whole conveyor
- Resolution (wire detectability) standard: 36 AWG (0.13 mm) • typical: 37 AWG (0.11 mm)
- Penetration (steel) standard: 70 mm • typical: 75 mm
- Internal X-ray Dose (typical) approx. 14 μ Sv (1.4 mrem)
- External X-ray Dose standard: <2 μ Sv/h • optional: <1 μ Sv/h
- Film Safety guaranteed up to ISO 1600 (33 DIN)
- Duty Cycle 100%, no warm-up procedure required

X-ray Generator

- Anode Voltage • Cooling 300 kV cp • hermetically sealed oil bath
- Beam Direction view 1: diagonal side, view 2: diagonal from bottom to top

Image Generating System

- X-ray Converter L-shaped detector line
- Grey Levels Stored 4096
- Image Presentation B/W, color
- Digital Video Memory 1280 x 1024 / 24 bit
- Image Evaluation Functions VARI-MAT, O², OS, HIGH
- Monitor Flat Panel LCD Monitor

Additional Features

- Functions fading-in of date/time, object counter, user-id number, luggage marking system (acoustic), display of operating mode, Review-feature (to recall previously visible image areas), zoom overview, free programmable keys, USB 2.0 interface, stepless zoom
- Options HI-SPOT, SEN, XPIore, IMS (Image Store System - stores up to 100,000 images), Xport, Media Bay for RIDA (250 GB), CD/RW module

Installation Data

- X-ray Leakage meets all applicable laws and regulations with respect to X-ray emitting devices
- CE-Labeling in compliance with guidelines 2004/108/EC, 2006/42/EC, 2006/95/EC
- Operating / Storage Temperature ²⁾ 32°F - 104°F / -4°F - 140°F (0° - 40°C / -20°C - +60°C)
- Humidity 10% - 90% (non-condensing)
- Power Supply ³⁾ 400 VAC, 3 phases • 50 Hz / 60 Hz \pm 3 Hz
- Power Consumption approx. 4.5 kVA (without options)
- Protection Class System IP 43
- Dimensions • Weight ⁴⁾ 7200 (L) x 2650 (W) x 2900 (H) [mm] • approx. 9,000 kg
280" (L) x 104" (W) x 114" (H) • approx. 19,842 lbs.
- Mechanical Construction steel construction with steel panels, mounted on roller castors
standard color: RAL 7016 (dark grey), B11-W1 (blue)

¹⁾ approx. values (adjustable)

²⁾ extended temperature range on request

³⁾ optional 3-phase: 208/220/380/415/480 VAC

⁴⁾ without control desk, keyboard, monitor(s) etc.

