

# HI-SCAN 145180-2is

Heimann X-Ray Inspection System

## Feature Highlights:

The **HI-SCAN 145180-2is** has been specially designed to meet the needs and applications of warehouses, carriers, forwarders and couriers for airports (palletized Lower Deck - Cargo).

- Universal X-ray system for palletized items
- Dual-view concept shortens inspection times
- Ruggedized small pitch roller conveyor, capacity 1000 kg / m, i.e. up to 5000 kg when evenly distributed
- Meets TSA requirements for skid size 1,2 m x 1,2 m x 1,65 m (48" x 48" x 65")
- Additional Highlights Typical penetration: 37 mm steel
- HI-MAT Plus technology for advanced material discrimination



The **HS 145180-2is** is equipped with two 160 kV generators in a 90 degree opposition providing a horizontal and vertical view of the object (dual view) for shortened inspection time and high quality images.

The tunnel dimensions of 1450 mm (57") width and 1800 mm (71") height is especially suitable for the inspection of air cargo transported on standard Euro, British or US pallets.

# Technical Information HI-SCAN 145180-2is

## General Specifications

- Tunnel Dimensions 1470 (W) x 1820 (H) [mm] • 57.8" (W) x 71.7" (H)
- Max. Object Size 1450 (W) x 1800 (H) [mm] • 57.1" (W) x 70.9" (H)
- Conveyor Height <sup>1)</sup> approx. 570 mm (22.4")
- Conveyor Speed (adjustable with frequency converter) typical 0.24 [m/s]
- Max. Conveyor Load (evenly distributed) 5000 kg (11,025 lbs.) • 1000 kg/m (672 lbs./ft.)
- Resolution (wire detectability) <sup>2)</sup> standard (view A): 36 AWG (0.13 mm) • typical: 38 AWG (0.10 mm)  
standard (view B): 36 AWG (0.13 mm) • typical: 38 AWG (0.10 mm)
- Penetration (steel) <sup>2)</sup> standard (view A): 35 mm • typical: 37 mm  
standard (view B): 35 mm • typical: 37 mm
- X-ray Dose / Inspection (typical) standard: 3.0 µSv (0.2 mrem)
- Film Safety guaranteed up to ISO 1600 (33 DIN)
- Duty Cycle 100%, no warm-up procedure required

## X-ray Generator

- Anode Voltage • Cooling 160 kV cp operated • hermetically sealed oil bath
- Beam Direction VA: diagonal from side / VB: 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, O<sup>2</sup>, OS, HIGH, Electronic zoom: enlargement up to 64 times
- Monitor Flat Panel LCD Monitor

## Additional Features

- Functions fading-in of date/time, luggage 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-TIP, 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
- Sound Pressure Level < 70 dB(A)
- Operating / Storage Temperature 32°F - 104°F / -4°F - 140°F (0° - 40°C / -20°C - +60°C)
- Humidity 10% - 90% (non-condensing)
- Power Supply <sup>3)</sup> standard: 230 VAC + 10% / -15% • 50 Hz / 60 Hz ± 3 Hz
- Power Consumption approx. 2.2 kVA (without options)
- Protection Class System IP 20 / IP 43
- Dimensions • Weight <sup>4)</sup> 5545 (L) x 2160 (W) x 2545 (H) [mm] • approx. 3,000 kg  
218.3" (L) x 85" (W) x 100.2" (H) • approx. 6600 lbs.
- Mechanical Construction steel construction with steel panels, mounted on roller castors  
standard color: RAL 7016 (dark grey)

<sup>1)</sup> approx. values (adjustable)

<sup>2)</sup> Conds.: steel step wedge, CU wires, conveyor speed 0.2 m/s

<sup>3)</sup> different values optional

<sup>4)</sup> approx. without control desk, keyboard, monitor(s), control cabinet, etc.



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Point Security, Inc.  
5815 NC Hwy 8 South  
Lexington, NC 27292  
1-800-476-1607