

HI-SCAN™ 145180-2is

HEIMANN X-RAY TECHNOLOGY



Feature Highlights

- Universal X-ray system for palletized items
- Dual view concept shortens inspection times
- Excellent image presentation through optimized beam geometry
- Rugged roller conveyor, capacity 1000 kg / m, i.e. up to 5000 kg when evenly distributed
- Meets TSA requirements for skid size 1,2m x 1,2m x 1,65m, (48" x 48" x 65")
- HI-MAT^{Plus} technology for advanced material discrimination
- Typical penetration: 37 mm of steel

HI-SCAN 145180-2is is a state-of-the-art X-ray inspection system for scanning objects up to a size of 145 cm x 180 cm (57" / 71") [W x H].

Due to the compact footprint and the large tunnel dimensions the imaging system is perfectly suited for the inspection of air cargo, freight and palletized goods.

The HS 145180-2is is equipped with two 160 kV generators in a 90° opposition thus providing a horizontal and a vertical view of the object (dual view). This particular screening method facilitates a reliable inspection of even tightly packed objects in only one process. The dual view concept shortens inspection times and increases the effectiveness of the screening procedure.

Its new, innovative user concept makes it as easy to handle as the single-view system.

Even with a second beam direction, this new system remains compact and highly space-saving.

The heavy duty roller conveyor (small pitch design) allows the screening of heavy objects; conveyor load up to 5000 kg (evenly distributed).

HI-SCAN 145180-2is is the security concept for handling air cargo, freight and palletized goods.

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 ¹⁾ | approx. 570 mm (22.4") |
| Conveyor speed (adjustable with frequency converter) | typical 0.24 [m/s] |
| max. conveyor load even distributed over the whole conveyor | 5000 kg (11,025 lbs) • 1000 kg/m (672 lbs/ft) |
| Resolution (wire detectability) | standard (view A): 36 AWG (0.13 mm) • typical (view A): 38 AWG (0.10 mm) standard (view B): 36 AWG (0.13 mm) • typical (view B): 38 AWG (0.10 mm) |
| Penetration (steel) ²⁾ | standard (view A): 35 mm • typical (view A): 37 mm standard (view B): 35 mm • typical (view B): 37 mm |
| X-ray dose / inspection (typical) | 3.0 µSv (0.3 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 ² , OS, HIGH electronic zoom: stepless 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, XPlore, IMS (Image Store System - stores up to 100,000 images), Xport |

Installation Data

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|--|---|
| X-ray leakage | meets all applicable laws and regulations with respect to X-ray emitting devices. |
| CE-labelling | in compliance with guidelines 2004/108/EC, 2006/42/EC, 2006/95/EC |
| Sound pressure level | < 70 dB(A) |
| Operating- / storage temperature | 0° - 40°C / -20°C - +60°C |
| Humidity | 10% - 90% (non-condensing) |
| Power supply ⁴⁾ | standard: 230 VAC +10% / -15% • 50 Hz / 60 Hz ± 3 Hz |
| Power consumption | approx. 2.2 kVA (without options) |
| Protection class system/keyboard | IP 20/IP 43 |
| Dimensions • Weight ⁵⁾ | 5545 (L) x 2160 (W) x 2545 (H) [mm] • approx. 3000 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(s): RAL 7016 (dark gray) |

¹⁾ Conds.: steel step wedge, CU wires, conveyor speed 0.2 m/s
³⁾

⁴⁾ different values optional
⁵⁾ approx. without control desk, keyboard, monitor(s), control cabinet, etc.
⁶⁾



For product information, sales or service, please go to www.smithsdetection.com/locations

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