

# The Future of Security Screening

AI-driven, high-throughput screening technology to  
detect explosives, weapons & narcotics.

**Advanced Technology – Powerful Capabilities – Premium Experience**

# World-Leading Innovator

Apstec develops advanced, high-throughput screening technology to detect explosives, weapons, and narcotics. We excel in combining sophisticated detection technologies with AI and machine learning to deliver innovative solutions capable of simultaneously screening large numbers of people and their belongings in real-time, identifying diverse threats while ensuring a seamless, non-intrusive security process.

Founded by experts at the forefront of Radio Physics, Electronics, Software Engineering, Security Operations and Counter-Terrorism, Apstec is a world-leading innovator in the field of real-time, high-throughput, people screening and automatic threat detection technology.

Public and private sector organizations work with Apstec to improve security and safety.

## Global Reach

Our manufacturing, warehousing, logistics and service entities are located in Estonia. We have a distributed business model with operations handled through global and regional commercial teams and a growing partner network in over 30 countries that sell to, service and support customers.

Our distribution channel includes highly skilled security systems distributors, specialist security providers and integrators who are carefully selected to ensure our customers have access to expert service and support locally.

## Broad Range of Customer Applications

Apstec and our partners actively work with customers throughout their journey of understanding and adopting smart people screening technology for their particular needs.

In addition to private sector end-users, we proactively work with public authorities to secure vulnerable public places. Apstec's innovative solutions revolutionize the screening process for a broad range of customers, including:

- The Landside of Airports
- Customs & Border Agencies
- Sports Stadia
- Rail, Metro, Land Transport
- Expos & Entertainment Venues
- Major Events
- Corporate Headquarters & Government Buildings
- Hotel & Casinos
- Tourist Attractions
- Places of Worship





## The Challenge

Implementing effective, practical, and affordable, security screening measures for publicly accessible locations is exceptionally challenging. Traditional aviation-style security approaches are not well-suited to the task. They are inefficient, labor-intensive, complex, and cumbersome not to mention vulnerable.

As a result, the security operation too often becomes slow, invasive, expensive, and unwelcoming. Organizations and government departments are actively searching for meaningful solutions to this challenge.

Instead of outdated approaches, they require better ways of screening people and their belongings for a wide range of threats quickly, reliably, and with minimal disruption.



A crowd of people is walking through a security screening area. They are passing through metal detectors. The scene is dimly lit, with light coming from the background where the crowd is moving towards. The text is overlaid on the left side of the image.

# The Solution: AI-Driven Smart Screening Technology

Apstec offers a genuine solution to the challenge of seamlessly screening large numbers of people in real-time.

Apstec pioneered the application of centimeter range radar technology in the security sector for use in high-throughput screening resulting in Human Security Radar (HSR), the World's First Mass People Screening Solution!

In pursuit of our goal of streamlining security, we combined multiple types of sensors with machine learning and powerful analytics to develop smart technology capable of screening large numbers of people and their possessions in real-time.

Through extensive experience of working with clients and authorities, we continue to innovate, push the boundaries of high-throughput screening and smart detection technology to reliably detect a wide range of items, minimize disruption and provide better and more cost-effective screening solutions.

Through our portfolio of complementary products, HSS Falcon, HSS Falcon Plus, and HSR, we strive to continuously improve the effectiveness of the screening process, while dramatically improving the screening experience.





Our Products →





## HSS Falcon

Apstec's next-generation screening technology HSS Falcon, delivers a quantum leap in security screening as the first solution able to screen people, their hand-carried bags for explosives. The comprehensive, smart solution uniquely detects explosives, weapons, and narcotics on people and in bags.

### One Comprehensive, Smart Solution for People & Bags

HSS Falcon's fast and seamless detection of explosives on people, in hand-carried bags / body-worn bags makes securing mass transport networks affordable and practical. It provides game-changing capabilities for sports stadia and entertainment venues to enhance the spectator experience.

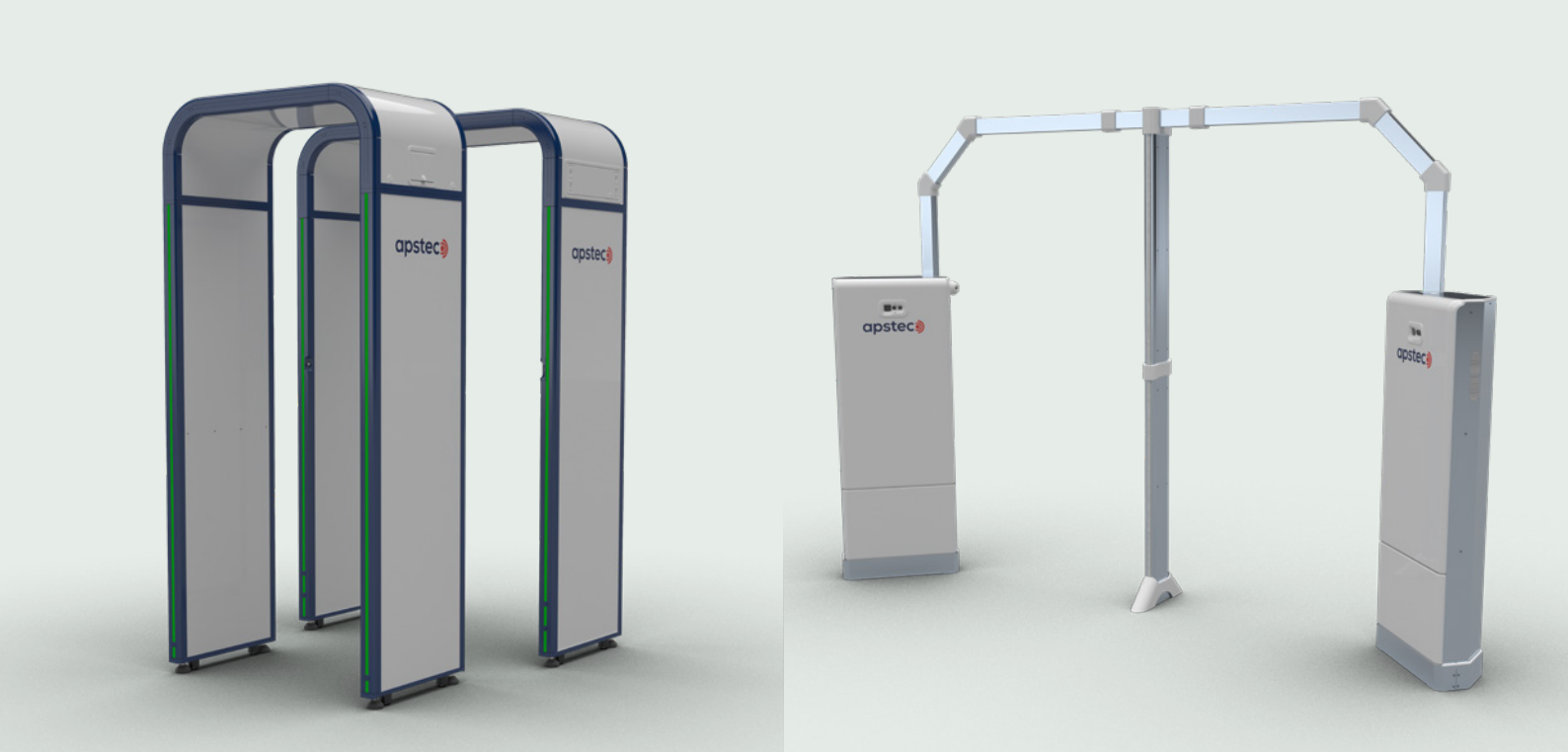
A highly mobile solution that fits easily and unobtrusively into the customer environment, HSS Falcon can be rapidly deployed for indoor or outdoor use, to significantly improve the speed and agility of security operations for major and outdoor events. The HSS Falcon Select edition for Customs has the ability to detect narcotics concealed on people under clothing giving Customs and Border Agencies the capability to inspect passengers autonomously and in real-time enabling customs officers to operate more effectively and efficiently.

### A Quantum Leap in Security Screening

- High-throughput (2500+ people an hour)
- Automatic detection of explosives, weapons, and narcotics
- Increase speed and agility
- Highly mobile, rapid deployment, indoor / outdoor
- Sophisticated monitoring, management and reporting
- Streamlines operations, reduces complexity and costs

HSS Falcon won the Detektor International Award 2025 in the category Alarm & Detection!





## HSS Falcon Plus

For clients who require high-throughput, non-invasive screening to detect smaller metallic threats and wish to discriminate between these and everyday items with a very low rate of nuisance alerts, Apstec has developed a new high-throughput, Discriminative Metal Detection capability, that represents a significant advancement over traditional metal detection methods.

HSS Falcon Plus combines the power of HSS Falcon's proven millimeter-wave detection with Discriminative Metal Detection in a back-to-back configuration, setting a new standard in AI-driven, high-throughput, non-invasive screening of people and their belongings.

### A New Standard in Security Screening

- High-throughput (2500+ people an hour)
- Highly mobile, rapid deployment, indoor / outdoor
- Low False Alert Rate
- Fast screening with no divestment, for a seamless and respectful screening experience
- Single-system solution with reduced staffing needs

## HSR

Apstec's breakthrough technology HSR, The World's First Mass People Screening Solution, provides seamless security for protecting public places from mass casualty threats and is specifically designed to screen multiple people at the same time, with one system having the throughput of up to 6000 people an hour.

The impressive high-throughput capability allows the free flow of people, ensuing there is no disruption, and improves security while at the same time improving the entire security experience.

HSR has been deployed widely with exhibitions, major events, hotels, concert venues, places of worship, government buildings, entrances to airport terminals and other significant sites.

### Breakthrough Technology for Security Screening

- High-end product
- Uniquely high-throughput (6000 people an hour)
- Uniquely wide portal
- Practical where others are not
- Unobtrusive
- By far the best, non-invasive, screening experience



## About us

Apstec® is a Swedish owned company with a global mission to make the world a safer place by developing innovative, AI-driven screening technology.

We're a leader in security solutions, specializing in advanced security screening technologies. With a commitment to providing safe, efficient, and cost-effective solutions, our products are trusted by clients worldwide.

## Contact

If you want more information about our products, and more about us, visit **[apstecsystems.com](https://apstecsystems.com)** or contact us at **[info@apstecsystems.com](mailto:info@apstecsystems.com)**

### Book a demo

If you're interested to learn more about how the products work and how they can help your organization, you can book a demo and we'll demonstrate it for you. Drop us a line at **[info@apstecsystems.com](mailto:info@apstecsystems.com)** and we'll get back to you.