



Apstec Falcon Plus

The Next-Generation Screening Technology

Apstec Falcon Plus

Comprehensive Threat Detection for Explosives & Weapons

For clients who require high-throughput, non-invasive screening to detect both non-metallic and smaller metallic threats and wish to discriminate between these and everyday items with a very low rate of nuisance alerts, Apstec has developed a unique dual technology solution, Apstec Falcon Plus. The solution combines proven millimeter wave technology of Apstec Falcon with powerful new active magnetometry of Apstec Merlin in a back-to-back configuration. Apstec Falcon Plus accurately distinguishes between both non-metallic and metallic threats such as explosives, firearms and knives, and everyday items such as smartphones and keys without divestment. It provides increased detection accuracy with reduced false alert rates, representing a significant advancement over traditional detection methods.

Attributes Include

- Comprehensive, high-throughput screening for both metallic and non-metallic threats in one combined and easy to use solution
- AI-driven detection of explosives, weapons, and small metallic threats (handguns, polymer-framed handguns and knives).
- Accurately discriminates between threats and everyday objects
- Improves detection of IEDs with metallic fragmentation and contained explosives
- Operates effectively in areas with high electro-magnetic interference, such as mass transport hubs
- Provides selective baggage screening while maintaining flow and comfort



Winning Combination

Apstec Falcon Plus combines the power of Apstec Falcon's proven Millimeter-Wave detection of explosives with Merlin's 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.

- **High Throughput** – 2500 people per hour
- **Operational Flexibility** – Indoor/outdoor deployment, compact footprint and rapid relocation
- **Low False Alert Rates**
- **Improved Screening Experience** – Seamless, respectful, and fast screening with no divestment
- **Cost-Effective** – Single-system solution with reduced staffing needs

The benefits of a comprehensive screening solution able to non-invasively screen large numbers of people and their bags for a wide range of threats in real time without having to stop and divest are manifold. Screening people for a wide range of non-metallic and metallic threats, Falcon Plus is a high-throughput walk-through solution that screens people much faster and with far less disruption than traditional screening methods. It is simple to operate, fits smoothly into the security operational process, has a compact footprint and an attractive look and feel. Cost-effective and easy to deploy, this flexible solution is suitable for multiple customer applications, indoor/outdoor use, as well as rapid relocation.

Customer Applications

Specifically designed for high-throughput, non-invasive screening of threats at publicly accessible locations such as:

- Entertainment Venues
- Sports Stadia
- Shopping Malls
- Places of Worship
- Exhibition & Conference Centres
- Tourist Attractions
- Theme Parks
- Corporate Headquarters
- Critical Infrastructure
- Hotels
- Mass Transport

People per hour

>2500

- AI-driven detection
- High-throughput
- Millimeter wave technology combined with discriminative metal detection
- Distinguishes between both non-metallic and metallic threats and everyday items

See How It Actually Works

Scan the QR-code to learn more about Apstec Falcon Plus and what it does, how it detects threats, and how it can improve security and the screening experience. The future of security screening is here – learn how it can be beneficial for your business.



Apstec Falcon Plus Highlights

Placement	Indoor & outdoor
Throughput	2500 people/hour
Detection	The powerful detection of Apstec Falcon plus small metallic threats such as handguns, polymer framed handguns and knives
Screening	People and their hand-carried or body worn bags
Setup	Mobile
Installation	Quick



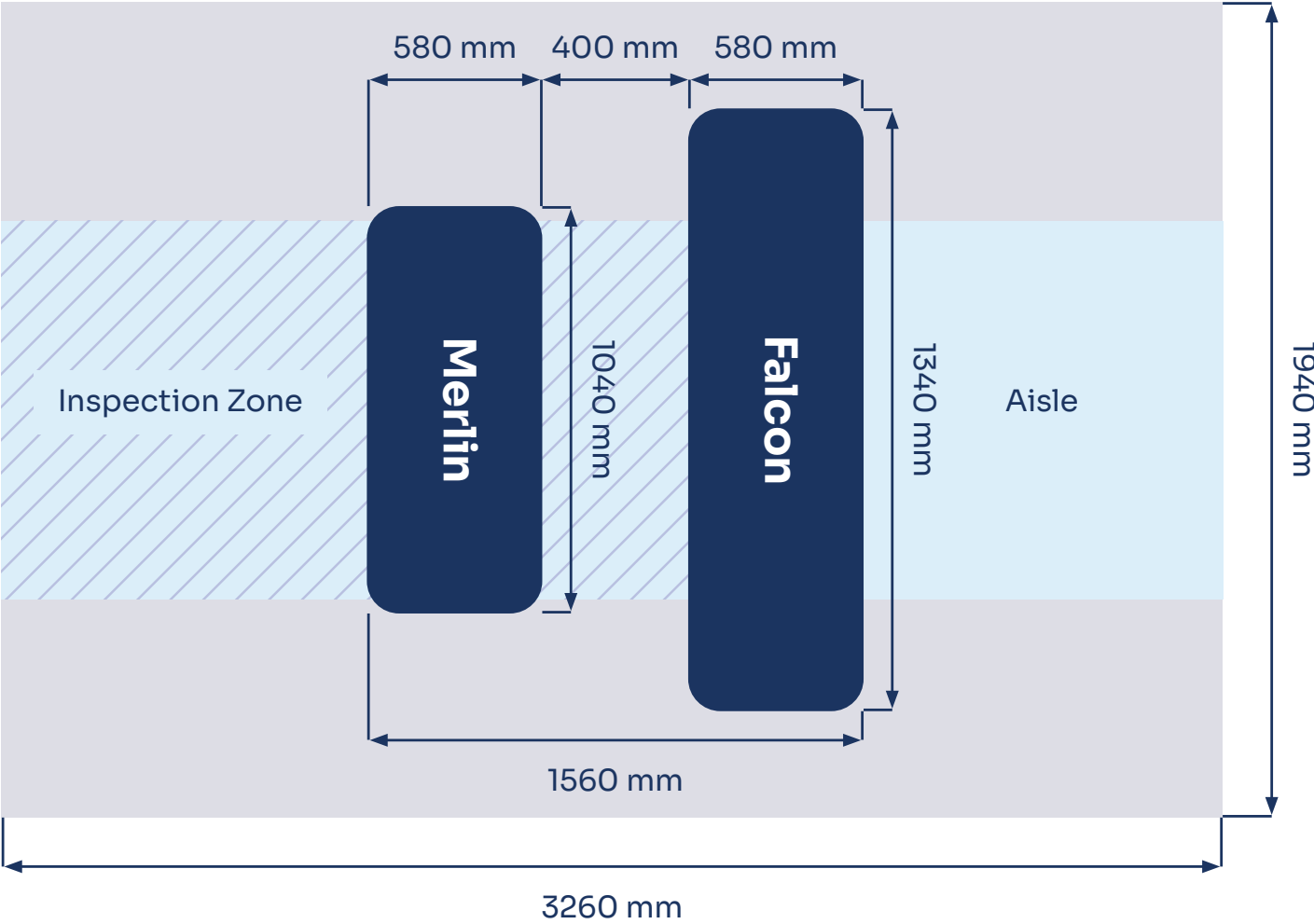
Specifications

Width	134 cm
Height	225 cm
Depth	156 cm
Free passage	90 / 120 cm
Weight	155 kg (Merlin+Falcon)

Installation & Operation

Minimum space needed	194 cm width, 326 cm depth and 235 cm height
Power	HSS: 250 W / 100-240 VAC / 50-60 Hz DMD: 120 W / 100-240 VAC / 50-60 Hz
Works in temperature	-10°C to +55°C
Humidity conditions	5-90%, non-condensing

Setup





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** or contact us at **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** and we'll get back to you.

The Future of Security Screening