

# Mach-SmartLane<sup>®</sup>

Checkpoint Automated Tray Handling



MacDonald Humfrey  
Automation

## An innovative, secure and efficient checkpoint solution.

The modular construction and flexibility of the Mach-SmartLane<sup>®</sup> system allows each individual application to be designed and configured to produce a wide variety of layouts to suit each application – a real benefit for installations where space is restricted or constrained.

Mach-SmartLane<sup>®</sup> is designed to be integrated with the world's leading manufacturers of checkpoint Xray and CT machines and can be configured for local or remote screening.

The Mach-SmartLane<sup>®</sup> provides a controlled entry and exit and subsequent optimization of imaging and X-ray machine.

With global health, safety and environmental product certification, Mach-SmartLane<sup>®</sup> has been ergonomically designed to ensure easy loading and unloading of hand baggage. A simple and effective automated tray return facility increases throughput rates while eliminating the need for repetitive and time consuming manual handling of trays by checkpoint personnel.



### SECURE AND EFFICIENT CHECKPOINT SOLUTION

- Improves security compliance
- Increases operational efficiency
- Reduces queue waiting times and congestion
- Enhances overall public safety, security and service
- Reduces security checkpoint personnel staffing levels
- Cost effective – enable rapid return on capital investment
- Ergonomically designed for public and security personnel use
- Deployed at airports and other security checkpoints globally
- Seamless integration into Mach-Secure<sup>®</sup> portfolio of products



**The L3 Mach-Secure® Advantage.** The Mach-SmartLane solution addresses security requirements and problems of the transport industry globally and offers an integrated, efficient, and secure inspection of threat baggage.

**Enhanced Security:  
Improves Security Compliance**

Conventional checkpoint systems can be hindered by security issues with passenger access to uncleared baggage, thus potentially introducing a major security risk. Mach- SmartLane® ensures only screened and security cleared hand baggage are accessible to the public.



**Increases Operational Efficiency:  
Enhances Overall Public Safety, Security and Service**

From the operational perspective, the passenger experience is significantly enhanced when presented with a controlled, securely managed, free flowing and efficient security checkpoint environment that the Mach-SmartLane® provides.



**Efficient Operations:  
Reduces Queue Waiting Times and Congestion**

The latest Mach-SmartLane® incorporates parallel loading techniques offering dramatically increased passenger throughput over conventional serial passenger load solutions. With the Mach-SmartLane® solution, less experienced passengers do not inhibit or prevent more efficient passengers from progressing at the divest stations and through the checkpoint itself.



Growing numbers of passengers mean that the challenges we face today will be greater tomorrow.

Mach-SmartLane is a scalable solution which is designed to cope with major increases in passenger flow.

### **Seamless Integration: Proven Technology**

The baggage trays are an intrinsic part of the Mach-SmartLane® system. The trays are designed and manufactured to handle tough automated lane environments and repeated use and collation of RFID tag coding data. Mach-SmartLane® utilizes proven technology and is the preferred system for a number of airports and security checkpoints worldwide.



### **Cost Effective: Rapid Return on Capital Investment**

Conventional checkpoint systems are labor intensive. Checkpoint personnel are often under intense pressure to speed up the screening process. Mach-SmartLane® not only reduces the staffing levels required, it also enables checkpoint personnel to process more people in a secure and controlled environment.



### **Highly Effective: Scalable and Modular Solutions**

Using the Mach-SmartLane® automated tray return solution can help end the burden and disruption of passengers handling trays and restore speedy throughput. The option to introduce a vision detection system would ensure the tray is empty before automatically returning the tray to the start position, and would further assist security personnel.



### **Mach-Secure Integrated Airport Security Solutions Seamless Integration into the Mach-Secure Portfolio of Products**

Mach-SmartLane can be utilized with a number of different X-ray or CT scanner systems, and therefore provides a future proof solution. The modular concept and server client architecture means that future expansion is a simple matter of adding modules or search clients to the Mach-Secure network.

# Mach-Secure® Integrated Airport Security Solutions

The Mach-Secure® suite of innovative products and systems is designed specifically for airport security applications. The Mach-Secure® suite of products and systems is designed to dramatically increase the overall efficiency of an airport's security systems while enhancing the passenger experience and lowering the operational costs.

- Mach-SEMS® Security Efficiency Management System
- Mach-SmartARCS® Compliance check against airport regulatory framework
- Mach-SmartView® Checkpoint directive search facility
- Mach-SmartViewMatrix® Centralized X-ray security screening
- Mach-SmartAccess® Intelligent access control
- Mach-SmartSense® Personnel tracker
- Mach-SmartGate® PAX validation to proceed through gate
- Mach-SmartRoster® Resource roster system
- Mach-SmartBRS® Baggage reconciliation system
- Mach-SmartSAC® Security audit and sortation systems
- Mach-SmartRegister® PAX/airline spend profile and PAX locator
- Mach-SmartTutorial® In-situ X-ray operator training
- Mach-SmartPredict® Dynamic real-time equipment utilization planning
- Mach-SmartPupil® Security vigilance monitoring system
- Mach-SmartDrop® Automated passenger bag drop
- Mach-SmartFlow® Queue analysis management system
- Mach-SmartCargo® Cargo streamlining and security compliance
- Mach-SmartCore® Security Scanner Performance Data
- Mach-SmartMotion™ Intelligent software simulation of PAX Flow



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