

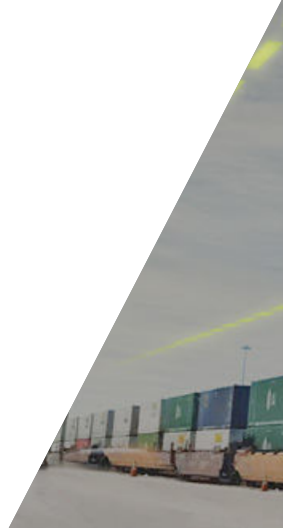


Port Automation Solutions.



Driving Efficiency, Empowering Real-Time Decisions.

The Mi-Star system is comprised of multiple modules that provide everything from differential GPS automated steering and GPS inventory management to virtualized operations viewing and centralized fleet management.





EQUIPMENT-AGNOSTIC

Mi-Star is platform-agnostic: Our hardware bolts on to all Container Handling Equipment. Our systems integrates seamlessly with any Terminal Operating System (TOS) via application programme interface (API). Web-based access to the whole software suite simplifies user access and support without the need to install & maintain separate software packages.

SUPERIOR REDUNDANCY

Dead reckoning keeps track of your equipment during GPS interruptions through sensor information, built-in gyro, and proprietary algorithms. It enables operations even in low visibility weather including snow, fog, and rain.

INSTANT REPLAY

Mi-Star allows the user to view and monitor yard vehicles, analyze vehicle productivity, replay vehicle movements, and retrieve/ display vehicle information.

VIRTUALISED OPERATIONS

Mi-Star graphically represents a centralised view of the current state of terminal operations.

DIFFERENTIAL GPS STEERING



AccuSteer uses differential GPS to steer machines down a predefined path. AccuSteer lets operators leave the driving to Mi-Star so they can focus on picking and placing their loads, increasing productivity up to 25% while reducing operator fatigue.

AccuSteer tracks accurately even on snow-covered ground and eliminates damage from crane path collisions. Touchscreen display makes system monitoring easy. Precision navigation lets you create more container storage space by narrowing fleet runways.

INVENTORY MANAGEMENT SYSTEM



AccuStack, Mi-Star's GPS inventory management system module, uses Position Detection System (PDS) technology to map all facility container inventory to logical locations represented within the terminal operating system (TOS).



DIGITAL TWIN

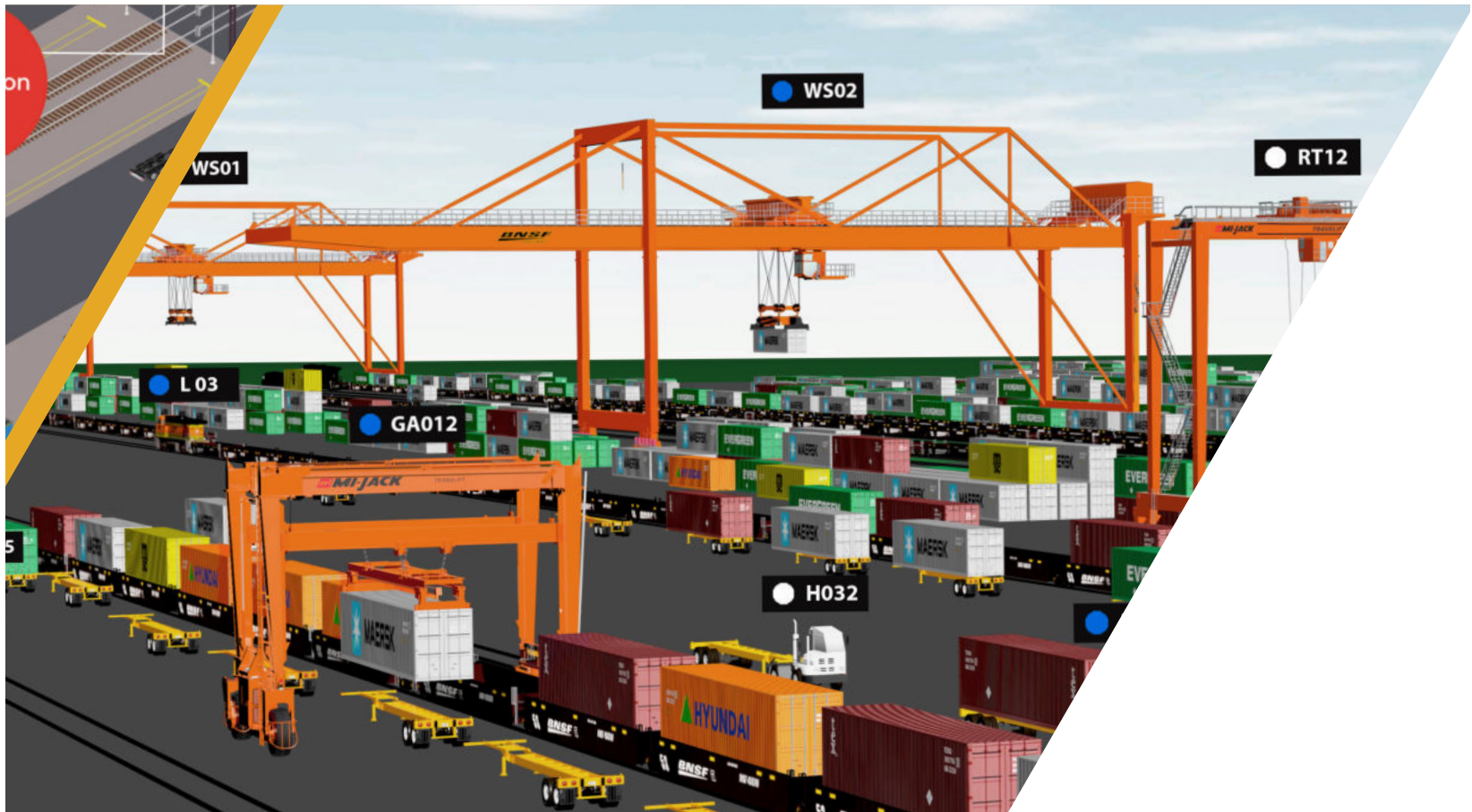
AccuVIEW®

AccuView gives you a gate-to-gate virtual view of the state of your freight, graphically representing the current state of terminal operations that have been equipped with Mi-Star equipment: Movements – real time as well as historical. And real time status of container handling equipment and other ramp vehicles.

FLEET MANAGEMENT

AccuFLEET™

AccuFleet is Mi-Star's fleet management module, enables terminal management to boost productivity improving visibility into operations to gain critical insights. It continuously monitors and displays CHE fleet status so you can identify and remedy issues before they impact uptime. Machine status metrics include fuel flow, tyre pressure, and maintenance indicators to help you get ahead of problems before they slow you down.



IN-CAB VISUALISATION

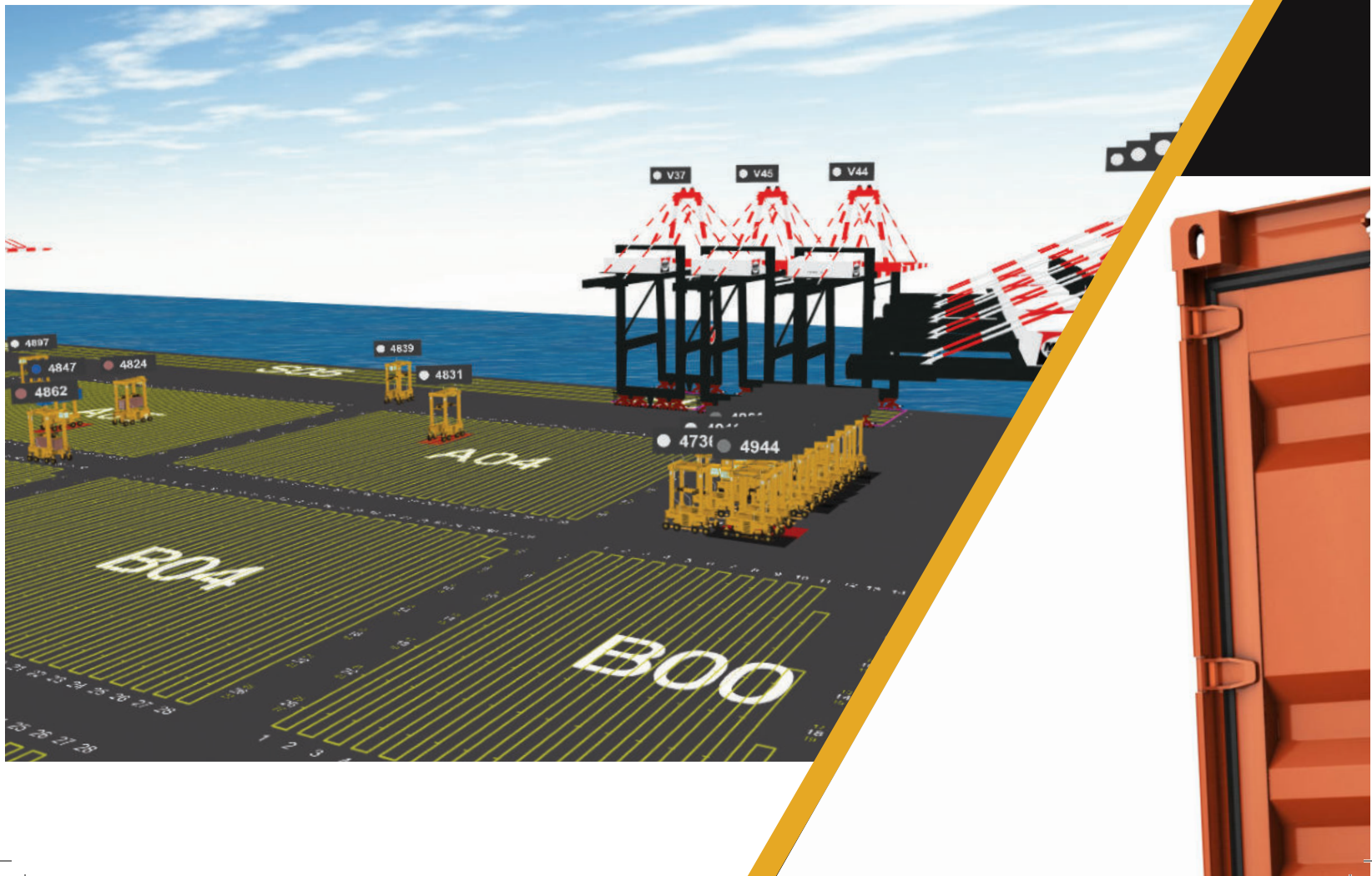
VEHICLEVIEW®

VehicleView affords equipment operators access to the same visualisation tool as the centralised AccuView provides to terminal operators an in-cab visualisation to see what's happening along the route.

WORKFORCE & WORKZONE PROTECTION

ACCUTRACK®

Accutrack is a solution for personnel and asset tracking with optional work zone protection features. Using a combination of GPS, Ultra Wideband (UWB), Bluetooth, and other assorted technologies, the system can provide accurate location of assets and personnel.



OPTICAL CHARACTER RECOGNITION (OCR)

Through a distribution agreement with Certus, Mi-Jack Europe GmbH offers solutions for the Ports and Intermodal industries that are developed with the progress of those industries in mind, addressing the needs to improve efficiency and bottom line as well as enabling better control and monitoring of security and safety issues.

Optical Character Recognition (OCR) solutions, for both gate operations and cranes, improve automation, logistics, security and safety for marine container terminals, and Intermodal/Railroad terminals. OCR gate systems for the recording of chassis and containers as they enter or leave the facility. OCR crane systems provide container identification as containers are loaded or unloaded onto ships or railcars.

These systems are scalable and the configurations are designed with the needs of the customer in mind. Add-on modules have also been developed to provide; damage inspection and hazardous materials tracking.

Improve Efficiency Through Automated Gates, Truck Kiosk Systems, Rail Portals, Crane OCR, Damage Inspection and Crane to Hostler Truck Matching

Advanced Image Processing Technology / No Portal Canopies Required
Reads all ISO Standard Container ID's / Accuracy is the Highest in the Industry
Easily Integrates to Customer's Existing TOS / Remote Management and Monitoring Capabilities

RFID Truck Matching System

Improve Efficiency Through Automated Gates, Truck Kiosk Systems, Rail Portals, Crane OCR, Damage Inspection and Crane to Hostler Truck Matching





mJ MI-JACK[®]
PRODUCTS



mJ MI-JACK[®] EUROPE **mJ MI-JACK[®]** GLOBAL PRODUCT SUPPORT

Corporate Headquarters: CHICAGO, IL USA

Regional Headquarters: FONTANA, CA, USA / MESQUITE, TX, USA
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