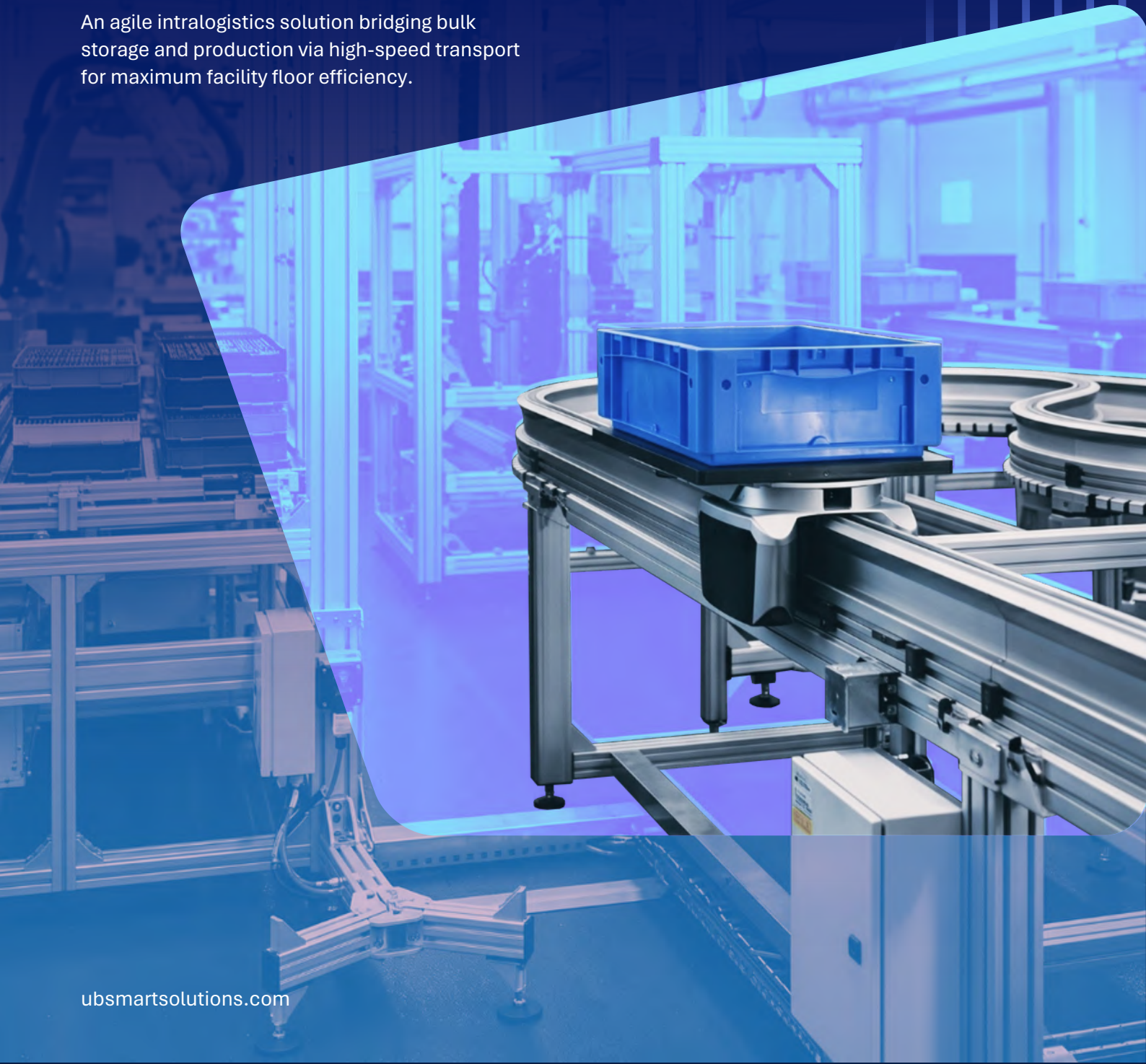




Intelligent Material Handling Solutions

Overhead Shuttle System (OHS)

An agile intralogistics solution bridging bulk storage and production via high-speed transport for maximum facility floor efficiency.



Corporate Overview



UB Penang (HQ)



UB Kuala Lumpur



UB Ipoh



UB Shanghai



UB Nantong

UB is a leading provider of Smart Manufacturing and Warehouse Automation solutions with more than 30 years of innovation. Specialising in industry automation, UB empowers organisations to achieve higher efficiency, precision, and sustainability through digital backbone technologies, material flow systems, warehouse automation, and AI-driven solutions.

Through its Smart Manufacturing & Warehouse Ecosystem, UB delivers end-to-end automation across industries such as Automotive, Medical, Semiconductor, Electronics, and Warehousing & Logistics. Recognised as a pioneer in lights-off automation with successful large-scale deployments for global manufacturers, UB continues to advance Industry 4.0 through innovation, engineering excellence, and dedicated R&D.

30+ Years of Innovation

Deep domain expertise driving measurable efficiency gains in manufacturing and automation.

Pioneers in Lights-Off Automation

Among the first with real-world lights-off back-end line deployments.

Smart Manufacturing & Warehouse Ecosystem

Seamlessly uniting digital backbone, material flow, warehouse automation, and robotics into a powerful, integrated solution.

Key Accomplishments & Recognitions

ISO 9001:2015 Certified

Malaysia Digital (MD) Status Company

Technology Excellence Award, Malaysia Smart Manufacturing Awards (MSMA) 2025

Tribute 30 Industry Leaders Award Nominee, SEMICON SEA 2025, Singapore

INPenang International Award for Excellence in Industrial Automation

National Technology Solution Provider, recognized by MIDF

CHT Excellence Award for I4.0 Solution Provider

STATSChipPAC Gold Award for Epoxy Tooling Management System (ETMS)

Awarded for Innovation and Support in the Lights-Off Manufacturing Journey with Western Digital

Delivered one of the first lights-off semiconductor backend lines with SanDisk Shanghai

How the UB Smart Ecosystem works



- ✓ Connects machines, data, and workflows seamlessly
- ✓ Automates material movement to enhance productivity and safety
- ✓ Tracks inventory and optimizes storage with real-time visibility
- ✓ Seamlessly uniting the digital backbone into a powerful, integrated solution.
- ✓ Synchronizes control across production and warehouse systems
- ✓ Scales easily to maximize operational efficiency

Overhead Shuttle System (OHS)

Revolutionize Your Process Integration

The UB OHS is a high-throughput intralogistics system engineered to optimize material flow and eliminate cycle-time inefficiencies. By removing floor-level bottlenecks, it sustains a continuous production pulse within complex, high-mix environments. This stable, 24/7 autonomous architecture reclaims 100% of usable floor space, transforming the overhead plane into a scalable highway for high-value and sensitive materials.



Modular Design

Adapt to changing production needs with flexible, scalable components



ESD Safe

Protect high-value electronics with advanced static discharge control



Shock-Free Transport

Ensure vibration-free handling to protect delicate components



Operational Efficiency

Reduce maintenance with a self-monitoring, energy-efficient 24 V DC system



Cleanroom Compatible

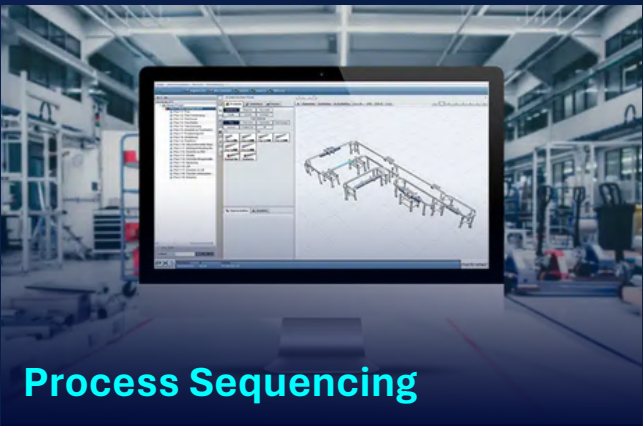
Designed for ISO 6 environments to support sensitive production processes

THE VERSATILE INTRALOGISTICS SYSTEM



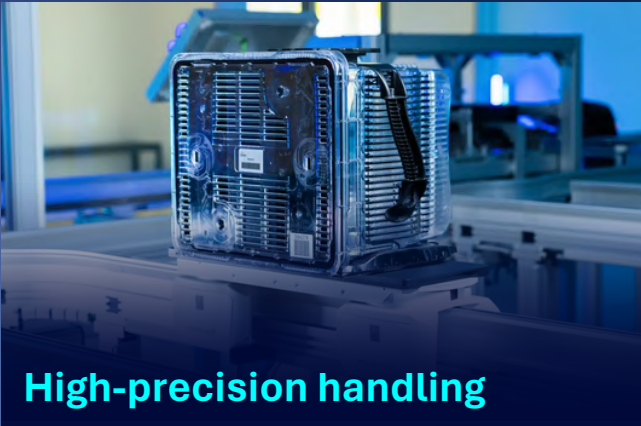
Intralogistics

Enable easy reconfiguration, adapting swiftly to changing production needs. With real-time tracking and smart routing capabilities, the OHS ensures that materials are always in the right place at the right time, paving the way for truly adaptive manufacturing processes.



Process Sequencing

Revolutionize assembly automation by mastering complex transport tasks in confined spaces and across multiple floors. From single-unit customization to high-volume production, the system enables seamless, just-in-time operations around the clock.



High-precision handling

Protect sensitive electronics from discharge and vibration with shock-free engineering and static dissipative features, while on-board power enables time-efficient component testing during transit.



Assembly Automation

Offer unparalleled speed, accuracy, and flexibility to optimize material flow across diverse manufacturing environments. The system's modular design allows for easy scalability, adapting to everything from delicate electronic components to heavy automotive parts.



Global Standards
for Uncompromised
Operational
Excellence



ISO 9001



ISO 14001



EMC



TISAX®



ISO5 and ISO7

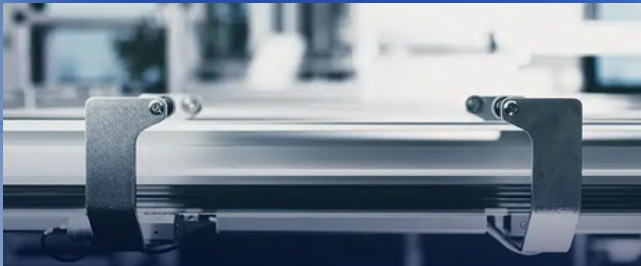
Certifications are held by our technology partner, montratec GmbH, based on the montrac® system architecture.



A Revolution In Motion



RAIL SYSTEM Custom transport lines that effortlessly navigate tight bends and multiple floors.



PERIPHERALS Ergonomics and efficiency system for an intelligent production environment.



TRACCONTROL Orchestrate entire operation to master both simple and complex layouts with ease.

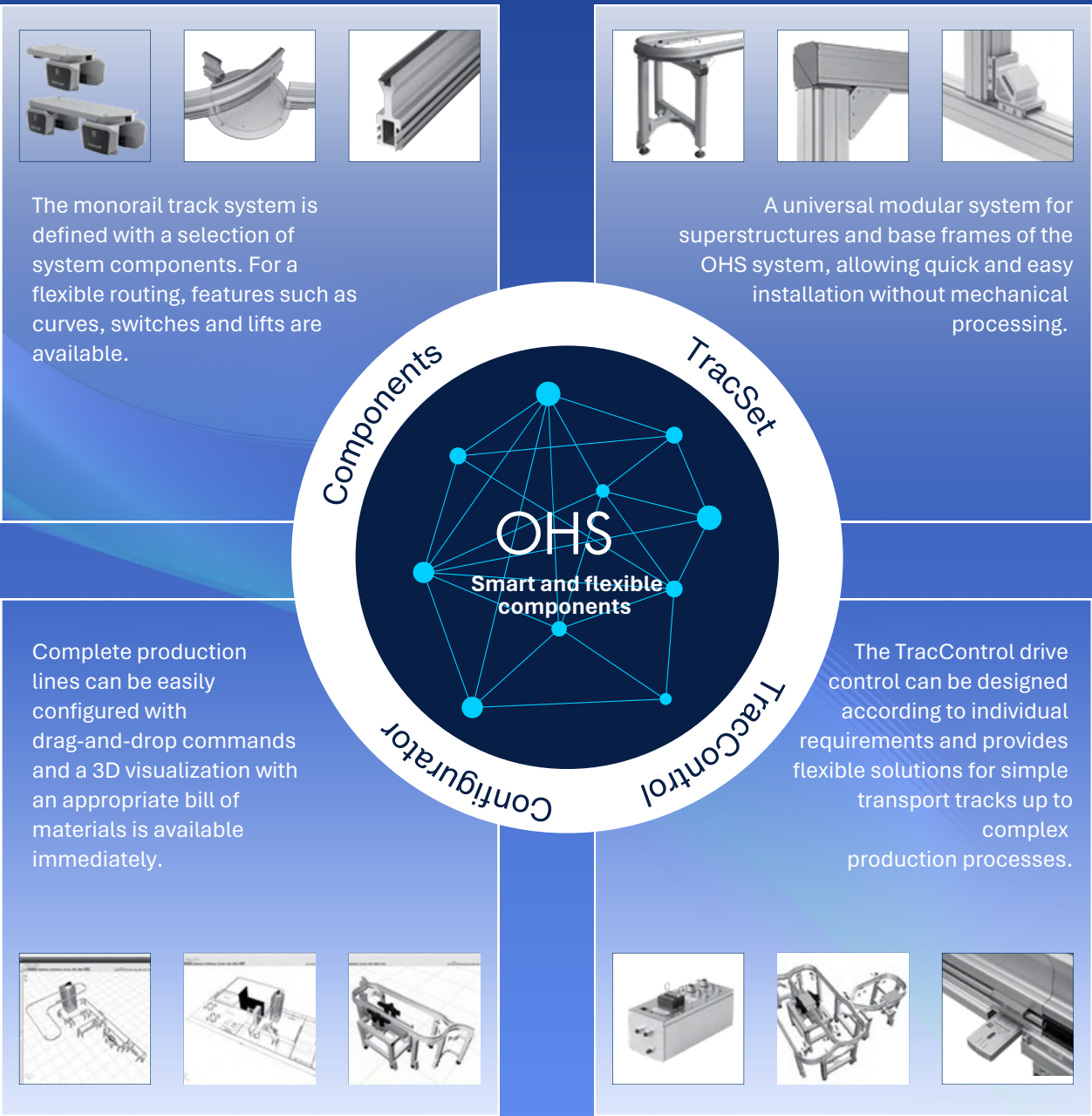


TRACSET Rock-solid foundation for the monorail system, ensuring stability and longevity.

The OHS System Components

Cutting-edge Components with Intelligent Motion Technology

The modular system can be freely and flexibly configured and thus can be easily extended at any time., creating a bespoke solution tailored to your unique manufacturing challenges. With nimble, individually-driven shuttles and space-saving rail configurations, the OHS is designed to adapt to your ever evolving operation.



Specification

Reshaping Industry, One Component at a Time

From microscopic semiconductors to massive aerospace components, the OHS is redefining the boundaries of manufacturing, helping your business enter a new era of precision, efficiency, and adaptability.

			
MODEL			
	Shuttle W040	Shuttle W070	
BASIC SPEC	Payload Capacity	40 KG	70 KG
	Shuttle Weight	10.3 KG	11.8 KG
	Overall Dimension (L×W×H)	550 × 200 × 144 mm	550 × 201 × 144 mm
PERFORMANCE	Travel Speed	max 55 m/min	max 55 m/min
	Acceleration	0.5 m/s ²	0.0 m/
	Positioning Accuracy	± 1.5 mm	± 1 mm
	Cleanroom	ISO Class 6	ISO Class 6
SAFETY & CONTROL	ESD Protection	DIN EN 61340-5-1	
	Collision Prevention	Integrated distance sensors	
	Shuttle Locking	Electric locking (pin-in-station)	
	Emergency Data	Status retention during power interruption	
IT & INFRASTRUCTURE	MCS Server OS	Windows Server 2019 Standard (64-bit)	
	Hardware	Intel® Xeon® Platinum 8268 / 16 GB RAM	
	Network	10 Gbps (Dual NICs recommended)	
	Communication	Infrared / IO-Link / Ethernet / Profinet	
	Power Supply	24 V DC	
	Avg. Power	22 W at 12m/min speed	24 W at 12m/min speed

Specifications may vary depending on project configuration and application requirements.



SEMICONDUCTORS & ELECTRONICS

- Advanced ESD protection for sensitive components
- Ultra-clean transport solutions for wafer handling
- Rapid reconfiguration for new product lines
- High-precision positioning for automated assembly
- Integration with fab management systems



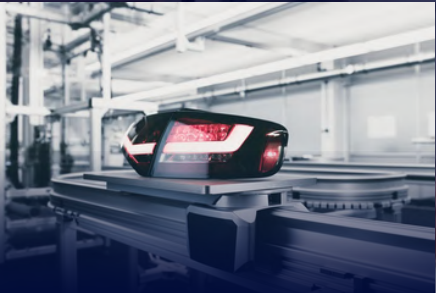
AUTOMOTIVE & EV

- Flexible systems that adapt to both ICE and EV production requirements
- Handling of sensitive electronics and batteries
- Meeting demands for customization
- Ensuring quality in high-volume production
- Optimizing space in existing facilities



MEDICAL & PHARMACEUTICAL

- Maintaining sterile production environments
- Ensuring complete batch traceability
- Handling temperature-sensitive materials
- Meeting stringent regulatory requirements
- Biocompatibility in implantable device production



PLASTICS & INDUSTRIAL

- Modular design for easy reconfiguration
- ESD-safe transport for sensitive components
- Real-time production data analytics
- Seamless integration with injection molding processes



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About UB Group

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