

## MITSUBISHI HEAVY INDUSTRIES, LTD.

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### Service Locations

#### Crystal Mover Services, Inc. (CMS)

815 N.W. 57th Avenue, Suite 222 Miami, FL 33126, U.S.A.  
 Phone: 1-786-476-5985 Telefax: 1-786-476-6056  
<http://www.crystal-mover.com/>

#### MHI Mobility Services WLL

Floor No. 1, Building 29, Street No. 820, Zone 40,  
 Ali Bin abi Talib, P.O. Box 24873, Doha, Qatar  
[https://www.mhi.com/network/area/middle\\_east.html](https://www.mhi.com/network/area/middle_east.html)

#### MHI Mobility Engineering Services L.L.C

P.O. Box 12878, Office No.20-22nd Floor, Twin Towers (Rolex), Deira,  
 Dubai, UAE

#### TES Philippines, Inc. (TESP)

207 Meriton One Building, 1668 Quezon Avenue, Quezon City,  
 Philippines 1103  
 Phone: 63-2-332-5489 Telefax: 63-2-920-0173

#### MHI MOBILITY MACAU LTD.

Alameda Dr. Carlos D'Assumpcao, no 411-417, Edf Dynasty Plaza,  
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 Phone: 853-2875-5211



# INNOVATIVE TRANSIT SYSTEMS

# Mitsubishi Delivers Innovation

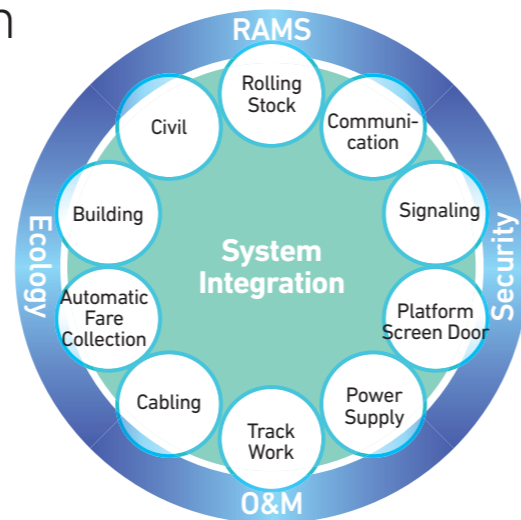
Mitsubishi Heavy Industries (MHI) has successfully provided a broad range of transportation solutions over the past 30 years, ranging from Automated People Movers, Automated Guideway Transit, and Suspended Monorails to High-Speed Rail. Our vast technical resources and experience ensure that we deliver projects on time and within budget, with the highest levels of safety, reliability, performance, and customer satisfaction.



**Prismo**  
CRYSTAL MOVER

## Full Turnkey Project Implementation

MHI has extensive, proven experiences in the project management and system integration covering design, manufacturing, installation, testing & commissioning, and operations & maintenance of full turnkey transportation projects and has successfully implemented in a wide range of challenging environments around the world.



In May of 2025, MHI has launched Prismo, the all new AGT system providing new elements to MHI's AGT lineup. New key elements Prismo brings include:

## Applications

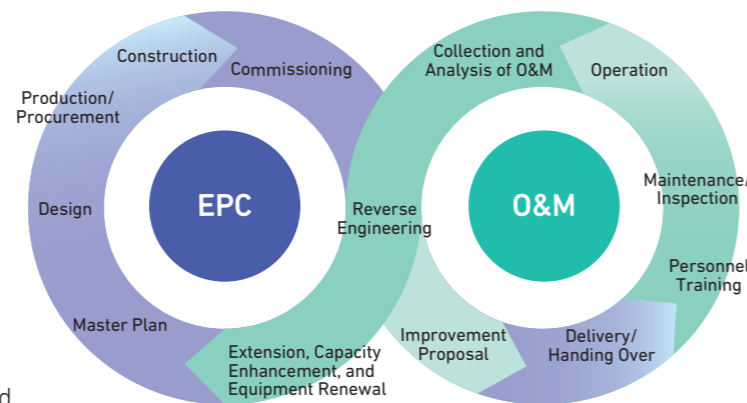
MHI's systems have been delivered in a broad range of applications, from green field to brown field such as extension, rehabilitation and capex expansion.

### Airports, Intra-City Transportation

Automated Guideway Transit (AGT), Suspended Monorail, 100% low floor Light Rail Vehicle, Metro

### Inter-City Transportation

Mass Rail Transit, High-Speed Rail  
In addition to system delivery, MHI also provides operation and maintenance, meeting our clients' diverse needs based on our knowledge and experience as a system integrator and an AGT OEM, providing full lifecycle support from engineering to operation and maintenance.



**Business Model**  
Engineering → O&M Cycle

### High Energy Efficiency

Utilizing the all-new Innovative Energy Storage Module, an onboard regenerative power technology, achieves energy saving of approx. 10% during operation.

### Simplified Infrastructure

The adoption of the on-board energy storage and center guidance system help eliminates side guide power rails (necessary in existing MHI AGT models) which help reduce infrastructure construction costs.

### Decarbonized Production

With production held at Mihara Machinery Works, a factory reduced 97.5% of CO<sub>2</sub>, the manufacturing of Prismo brings a significant reduction of CO<sub>2</sub>.



Dubai International Airport APM



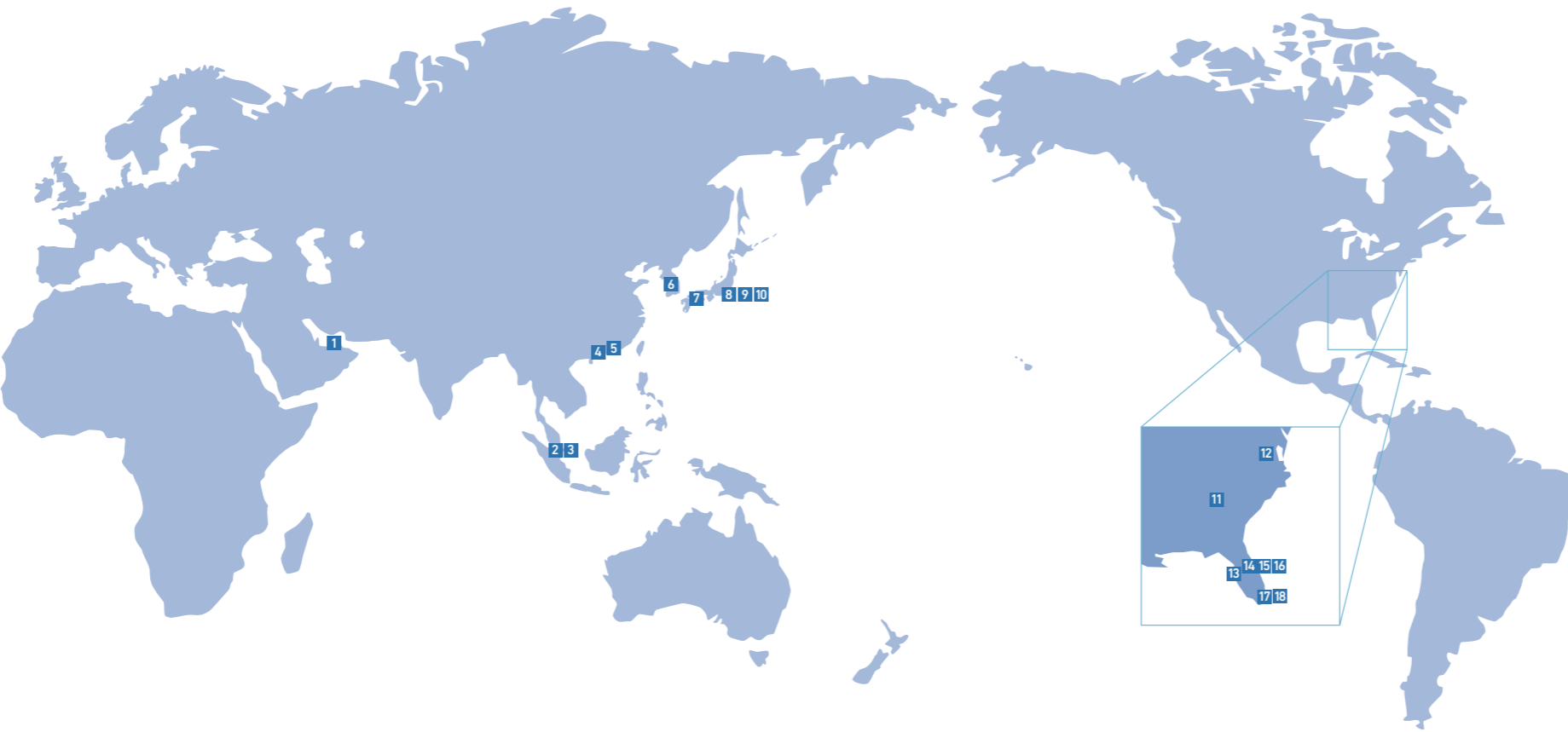
Singapore Changi Airport PMS (APM)



Sengkang and Punggol LRT



Hong Kong International Airport APM



Incheon International Airport APM



Hiroshima Rapid Transit No.1 Line



Tokyo Waterfront New Transit Waterfront Line (YURIKAMOME) (7500 Series)



Saitama New Urban Transit "New Shuttle" (2020 Series)



Nippori-Toneri Liner



Hartsfield-Jackson Atlanta International Airport ATL Skytrain APM



Washington Dulles International Airport AeroTrain APM



Tampa International Airport APM



Orlando International Airport APM (Airside 1)



Orlando International Airport APM (Airside 3)



Orlando International Airport APM (South Airport APM Complex)



Miami International Airport MIA Mover APM



Miami International Airport North Terminal Skytrain APM

## Macau LRT <sup>5</sup>

- MHI's AGT system was adopted for Macau's first mainline transportation system, enabled by AGT features such as a small curve radius and high gradient capability for route flexibility, as well as low-noise operation using rubber tires.
- Following the opening of the Taipa line in 2019, extensions of Taipa Line to Barra in 2023, Seac Pai Van line and Hengqin line in 2024 have also been completed by MHI.
- Additional order received in 2024 for extension of the East Line, which is currently under construction, aimed to improve traffic flow and supporting regional growth, with further extensions planned for expanding the network in the future.
- MHI has also contributed with overhaul for the Taipa line, consisting of 5 years completing in 2024.



## Singapore Sengkang / Punggol LRT <sup>3</sup>

- Delivered and started operation for the 23.3km line in 2003, contributing to the line's safe operation for more than 20 years.
- Continuously providing flexible system upgrades to accommodate rapid demand growth, including the expansion of AGT train configurations from single-car to two-car operation, implementation of supporting system modifications, and expansion of the rolling stock depot.
- Further enhancing lifecycle support with a locally established Technical Service Center providing comprehensive after-sales service.



# Railway Transit (RT)

## Taiwan High Speed Rail

- MHI, as the consortium leader for the Taiwan High Speed Rail project, has provided the first overseas application of the Japanese Shinkansen technology.
- Delivered comprehensive system integration covering trackwork, electrical and mechanical systems, and project management.
- Continuously improving the network by extending a 5km link from Taipei to Nangang Station in 2016, as well as executing the expansion of Zuoying Depot, an inspection and maintenance shop, receiving the order in 2024.



## Bangkok Red Line

- Participating in Thailand's Red Line Construction Project, a major government-led rail infrastructure investment program.
- Developing a 41km commuter rail network comprising a 26.4km North Line and a 14.6km West Line Originating from Bang Sue Station in central Bangkok, starting operation in 2021.
- Responsible for system integration, the design, and procurement of core railway systems, including signaling, power distribution, communications, and trackwork.



## Manila EDSA Rail Transit System, Line 3

- MHI's first full design-build turnkey railway project, covering civil works, electrical and mechanical systems, delivering the EDSA Rail Transit System, Line 3 to Manila, completing works in 1999.
- Starting revenue service in January of 2000, MHI has executed a long-term maintenance service up until 2012.
- Having rejoined the project in 2018 for maintenance and rehabilitation works, MHI has completed two contract phases and has entered the third contract, further advancing the modernization of the network.



## Dubai Metro

- Delivered the world's longest driverless metro system, operating in Dubai since 2009, establishing the first urban rail network in the GCC.
- Provided full system integration covering signaling, communications, power, supply, and track work.
- Currently executing the operation and maintenance service in a joint venture with KEOLIS SA as Keolis-MHI Rail Management and Operation LLC, contributing safe, reliable, and smooth transport.

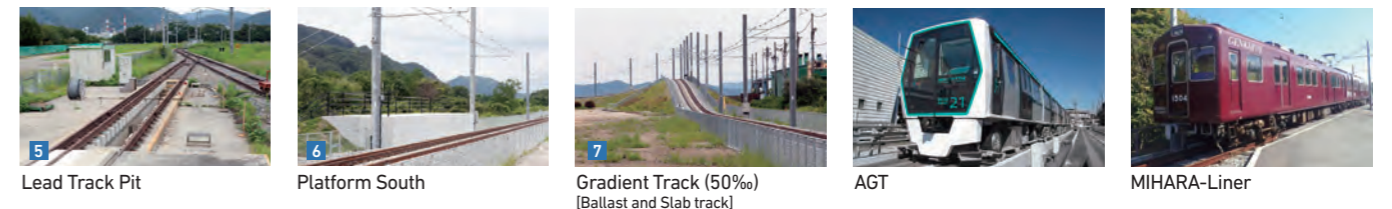
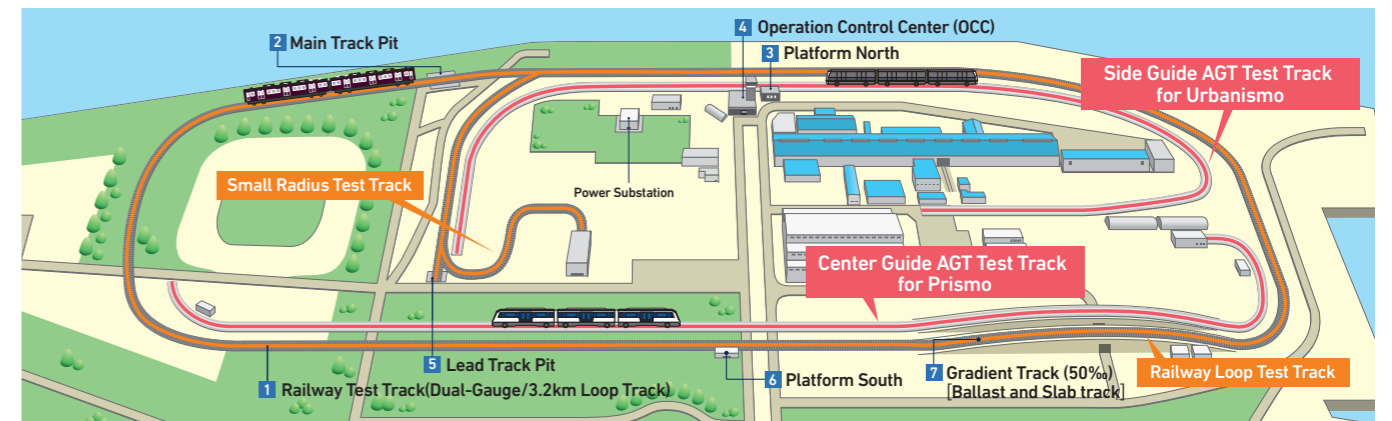


## Doha Metro

- Awarded the system package in 2015 as the consortium leader, MHI has delivered the Doha Metro as Qatar's first metro system and one of the world's largest single metro projects.
- Delivered a 76km metro network comprising of 37 stations across the Red, Green, and Gold Lines, connecting Hamad International Airport, the Old City, and major urban developments such as West Bay and Lusail.
- Supplied key railway and stations systems, including power distribution, platform screen doors, trackwork, and tunnel ventilation, while also executing overall project management and system integration. MHI continues to contribute to Doha Metro in long term maintenance service.



## MIHARA Test Center



- Japan's first comprehensive railway transportation system verification facility.
- Features dedicated test infrastructure, including a 3.2km loop railway test track and two AGT test lines for side guide and center guide systems.
- Enables comprehensive system verification covering noise and vibration, signaling, communications, power supply, and operational control under realistic conditions.
- MHI's AGTs are tested at this facility before delivery to the site to minimize on-site T&C activities and ensure a smooth handover.