

## Technical Review Special Edition: Commercial Aviation & Transportation Systems

Kazuaki Kimura  
Executive Vice President  
President and CEO,  
Machinery, Equipment & Infrastructure  
Head of Marketing & Innovation Headquarters



Welcome to the special edition of MHI Technical Review featuring our Commercial Aviation & Transportation Systems businesses.

No praise is too high for the athletes who competed in the Rio 2016 Summer Olympics in August. Japan earned the most medals ever in its Olympics history, and it was so inspiring to see the new generation of athletes being passed the baton from senior athletes and performing with superlative technique, particularly in wrestling, gymnastics, and table tennis. We will be thrilled to witness what they can show us in the Tokyo Olympic Games in four years.

Our Machinery, Equipment & Infrastructure domain provides a wide range of products with superior technology such as sports and leisure complexes, and industrial equipment that are essential to social and industrial infrastructures.

This special edition highlights six products and technologies concerning automotive-related components and Intelligent Transport Systems (ITS). For automobile engines, the latest developments in the following two technologies are featured: simulation of engine transient characteristics using a zero-dimensional combustion model and a variable geometry turbocharger for fuel efficiency improvement. Also featured are our collision simulator and automotive aero-acoustic wind tunnel facility, both of which play an integral part in the testing and improvement of automobile performance and safety. As a further example of energy efficient technology, the Mitsubishi internal mixer, an innovative mixer that produces tire products with higher energy performance, is introduced. This edition concludes with the application of our RFID-enabled toll collection system that mitigates congestion at highway toll stations.

Machinery, Equipment & Infrastructure continues to offer superior technologies that contribute to the making of a safe and prosperous society. We deeply appreciate your ongoing support and guidance in our pursuit of excellence.