

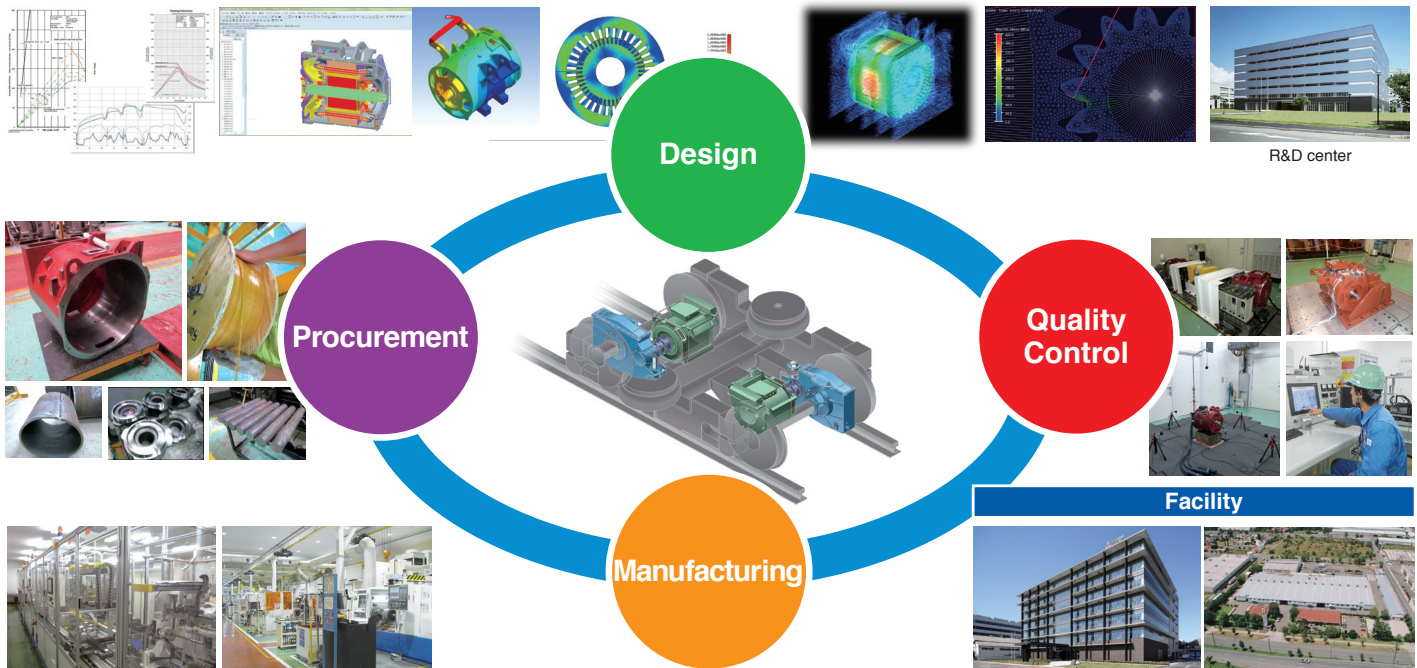
Integrated Traction System

- Traction Motor, Gear Coupling, Gear Unit -

Mitsubishi Electric handles the interface design of the "Traction System".

Mitsubishi Electric provides an integrated "Traction System" that consists of Traction Motor, Gear Coupling and Gear Unit, based on the required performance and bogie interface. The customer will benefit from:

- Minimized design time for a custom "Traction System"
- Refined validation – Refined performance



Optimized reliable traction equipment

Traction Motor

- Over 80,000 units worldwide
- Broad experience from Shinkansen (Japanese bullet train)
- Various types of induction motors



Open type self-ventilated



Open type forced-ventilation



Totally enclosed type



Linear induction motor

Gear Unit

- Optimum gear ratio
- Single/Double reduction gear
- Minimized interface design with traction motor
- Broad experience from Locomotives / EMU
- Low acoustic noise

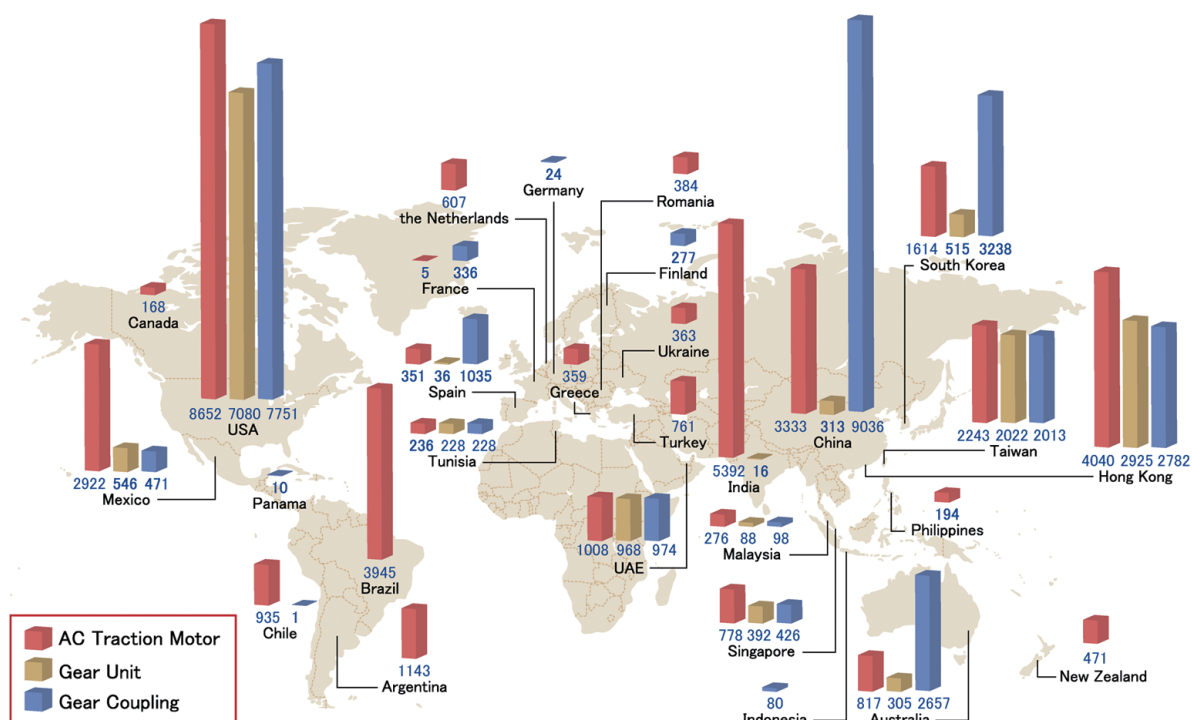


Gear Coupling

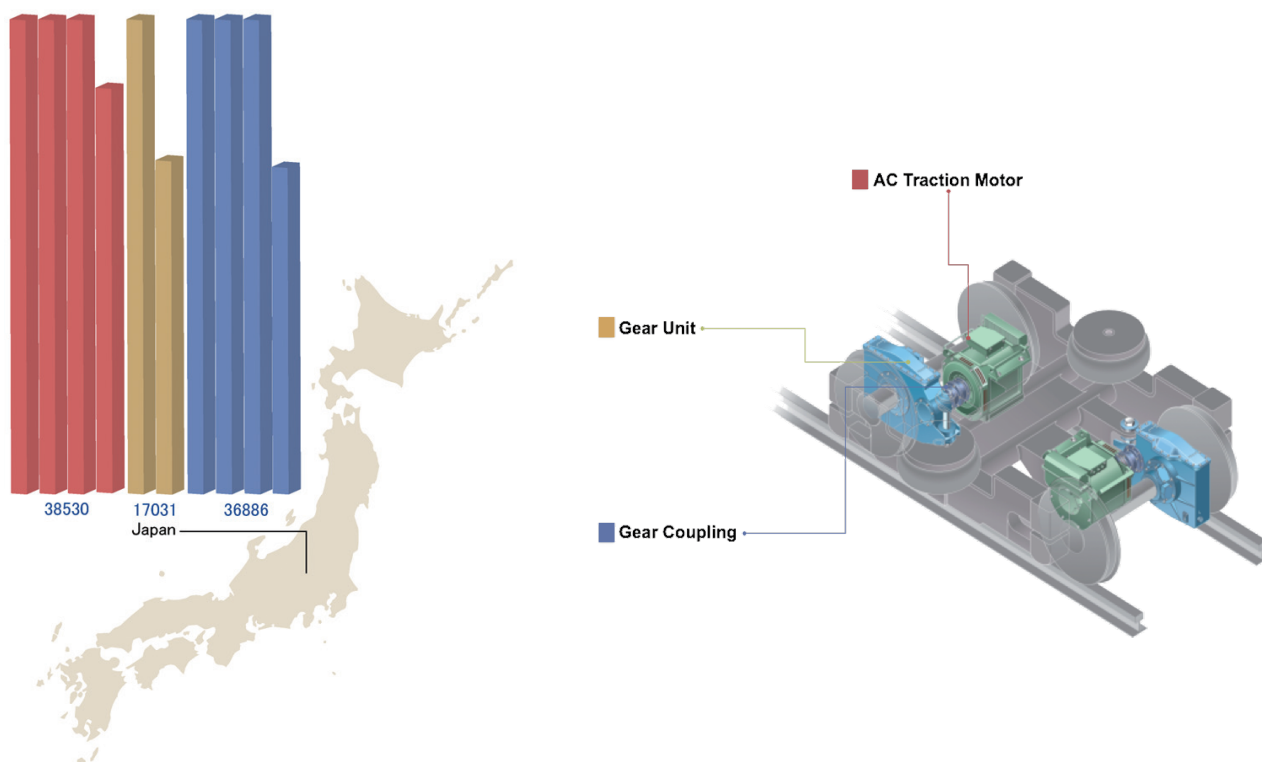
- Large acceptable shaft misalignment with small coupling dimensions
- Low acoustic noise
- Broad experience from Locomotives / EMU / Shinkansen



Manufacturing Record (World)



Manufacturing Record (Japan)



MITSUBISHI ELECTRIC CORPORATION

<http://www.MitsubishiElectric.com>