Hybrid locomotives and propulsion systems

Solutions for Modern Freight Transportation

Advanced Rail Technologies
Our Modular Solution, Your Energy Efficiency, Everybody’s Green Future.

Toshiba is your competent partner for hybrid freight locomotives and electrical propulsion systems. Discover our modular concepts for your new build or refurbishment projects - Toshiba is providing you with customized solutions.

Hybrid System

The hybrid system combines Toshiba’s long experience in propulsion systems and its innovative SCIB™ battery technology (SIL 4 compliant). Choose the perfect type of hybrid system adjusted to your demand.

Hybrid Drive
Optimization is achieved using one or a combination of the following power sources: catenary, engine, battery.

Battery Drive
Ideal for shunting and low-speed operation.

Regenerative Braking
When braking, regenerative power can be transferred into the catenary or stored in the batteries.

High Flexibility
Easier maintenance and adaptation to other power sources

3 Features
Toshiba combines its experience in railway systems with its innovative technology. In designing next generation products we promote a more safe, reliable and sustainable railway system.

High Efficiency
Energy savings and emission free operation

High Comfort
Provided by larger driver’s cabin

Our Goal
improve life cycle cost
reduce maintenance effort
improve operational reliability
Toshiba advanced railway and locomotive technologies situated at the “Heart of Europe”

**Toshiba Railway Europe GmbH**

**Site Kiel**
Locomotives & Mechanical Engineering
Address: Diedrichstrasse 9, 24143 Kiel

**Site Duesseldorf**
Propulsion Systems & Electrical Engineering
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**Working together with a global network**

Toshiba Railway Europe GmbH is a part of an expansive global network with operations in Japan, China, India, Taiwan, Singapore, Australia, South Africa and the United States.

- Main global offices of the Toshiba Group cooperation for Railway System Business

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Find out more on  http://toshiba-railway.com

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