

To the Press

Press Information

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Power Transmission at a Glance

The International Rail Industry

- As a result of the ever- growing demand for greater mobility of people and goods, the worldwide market for rail vehicles is a market of the future with an anticipated annual growth rate of 3 – 7% over the next few years. Especially the vehicle segments high-speed and railcars are expected to exceed the 5% mark.
- Worldwide, some EURO 25 billion are invested every year into the rail vehicle market (for vehicles approximately EURO 17 to 18 billion, for infrastructure approximately EURO 7 to 8 billion). The largest market is Europe (approximately EURO 15 billion), followed by Asia (approximately EURO 5 billion), as well as North America (approximately EURO 4.5 billion). Growth markets for the rail industry and its suppliers are primarily China and India, but also the Eastern European countries.
- The NAFTA states have the longest rail network of the world (23%), followed by Europe (15%), India and China (each 6%).

- The total rail market has a volume of over 260,000 active rail vehicles. Among them, 88,000 diesel and 25,000 electric locomotive are in service worldwide. The largest segment today is the area of light rail vehicles (metros, S-Bahn city rails, urban rail systems and trams) with a total of over 100,000 vehicles. The number of railcars and high-speed vehicles is currently amounting to 30,000.
- There are three major suppliers worldwide which claim over 50% of the overall market: Bombardier, Canada (23% market share), Alstom, France (18%), Siemens, Germany (14%). While Alstom is regarded as the market leader for high-speed trains, Bombardier has acquired market leadership for light rail vehicles (metro, city rail, underground rail systems, city rail systems and trams) by taking over Adtranz.

The International Commercial Vehicle Industry

- Between 1993 and 2000, the commercial vehicle industry experienced one of the longest phases of economic revival. Since 2000, demand is declining. In the long term, the worldwide commercial vehicle business is a growth market. Worldwide, sales of commercial vehicles have risen by 24% from 1980 to 2000, in the heavy truck sector even by approximately 50%.
- Worldwide, 126 million commercial vehicles were registered in 2001. Among them, some 37% are in Asia, followed by Western Europe with 19% and Eastern Europe with approximately 12%. In North America, about 10% of all commercial vehicles are registered, in South America 3.6%. In Asia, the number of commercial vehicles has doubled over the last 20 years.

Power Transmission for Industrial Applications

Variable-speed drives in gas and steam turbine power stations

- Natural gas is an energy source with a promising future. The deposits known today cover the natural gas requirements of the next 100 years. With natural gas, both gas turbine and steam turbine power plants can be driven.
- The share of natural gas within the worldwide energy mix will double over the next 20 years to 40%. At the same time, the capacity of gas turbines installed worldwide and/or gas-powered steam turbines will also double.
- Gas-powered power plants can be planned and built relatively fast and cost effectively and have low CO₂ emissions. Combined power stations with gas and steam turbines installed one after another achieve high efficiencies of over 60%.
- Especially in the USA and in Asia, numerous new combined power plants will be built as a result of a growing demand for energy. As a result, the markets for variable-speed drives in these areas will also continue to grow.

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