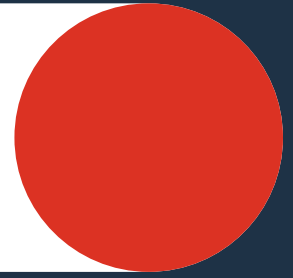


ALSTOM IN GERMANY



In Germany, Alstom offers solutions for sustainable mobility and is one of the leading suppliers of railway technology with metros, suburban trains, tramways, regional trains, locomotives and signalling solutions. More than 70% of the high-speed trains in Germany are equipped with Alstom's ETCS signalling solutions. In Lower Saxony, Alstom is building the world's first fuel cell-powered, completely emission-free Coradia iLint regional train. Alstom is Germany's only manufacturer of infrastructure, signalling and digital mobility solutions to provide maintenance, service and modernization of all trains for all manufacturers.



KEY FIGURES

2.500 employees

6 sites

3 business areas

almost **200** years of experience



MANUFACTURING

of rail vehicles, bogies and locomotives



PROJECT EXECUTION & SERVICE FOR SIGNALLING SYSTEMS

ERTMS – European Rail Traffic Management System
CBTC – Communication-based Train Control



SERVICE AND MAINTENANCE

of locomotives, electrical and diesel multiple units and freight wagons



SITES

Salzgitter

Design and manufacturing of regional trains, metros, bogies, locomotives, traffic systems, services for freight wagons

Braunschweig

Services and modernisation of electrical and diesel multiple units, spare parts logistic centre

Stendal

Design, services and modernisation of locomotives

Berlin

Project execution and service for signalling systems and commercial office

Waibstadt

Services of diesel and electrical locomotives

Munich

Commercial office

MAIN REFERENCES

Innovation and sustainability

- **Coradia iLint** – the world's 1st hydrogen powered train: This zero-emission train emits low levels of noise, with exhaust being only steam and condensed water.
- **Coradia Lint:** Over 900 Coradia Lint regional diesel trains in service with DB and other private operators in Germany, Denmark, the Netherlands and Canada (over 1,100 trains ordered).
- **Coradia Continental:** Since 2008, successfully in operation with more than 325 Coradia Continental regional electric trains sold for 10 customers in Germany. Total fleet performs more than 80 million km per year. Now available also as a battery version. World's first Automatic Train Operation for regional passenger trains to be tested in Germany.
- **Signalling:** With 15 years of experience putting into service ERTMS Level 2 digital signalling solutions, Alstom is a global pioneer in its development and implementation. In Germany, 176 DB ICE high-speed trains and more than 800 Siemens Vectron locomotives are equipped with Alstom's ETCS solution. Alstom also delivered a complete signalling system on-board and wayside for Wuppertaler Schwebebahn. Alstom is the worldwide leader in CBTC technology with more than 100 installed systems in 23 countries, including 17 driverless metro lines.
- **Bogies:** Centre of Excellence Regional Bogies (CoE). Alstom produces around 1000 bogies/year in Salzgitter.
- **Coradia Nordic:** Since 2005 successfully in operation for 6 customers in Sweden with more than 300 electric trains specially developed for Nordic weather conditions.
- **Special Products:** Over 500 DT2-DT5 metros for Hamburger Hochbahn. Over 1,000 trainsets ET 422, 423, 430 and 474.
- **Locomotives:** Alstom's hybrid shunting locomotive Prima H3 reduces CO2 emissions up to 50%, while pollutant emissions overall are cut by up to 70%. 27 Prima H3 hybrid shunting locomotives are in service for DB, Volkswagen, Audi, InfraLeuna, Metrans, MEG, Talgo, Chemion, SKW, VGT and SBBC.

PROJECTS ONGOING

Reliability and top quality



- **Coradia iLint:** First orders in Lower Saxony and Hesse. Successful 18 months of trial operation of the world's first two hydrogen trains in Lower Saxony between 2018 and 2020. In 2020, tests run in Austria and the Netherlands.
- **Coradia Lint:** Ongoing projects for HLB, Denmark, ODEG, BRB, SFBW, DB AG, LVNG, VIAS.
- **Coradia Continental:** Alstom will manufacture, deliver and maintain until 2032 eleven Coradia Continental battery-electric trains for regional traffic on the Leipzig-Chemnitz route on behalf of VMS. Ongoing projects for DB AG, HLB.
- **Locomotives:** 12 Prima H3 hybrid shunting locomotives planned for service for SBBC.
- **Bogies:** Design and production of bogies for a wide range of train products (Coradia Lint, Continental, Nordic, Stream, Meridian, Üstra Hannover, etc.)
- **Signalling:** Ongoing projects for DB AG, WSW, OEBB and various train manufacturers.

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