

BOMBARDIER

SITE FACT SHEET

Kassel, GERMANY

Basic Information

Total area: 69,000 m²

With 200 years of history, the site at Kassel is the oldest factory under the Bombardier umbrella. It has produced more than 34,500 steam, diesel and electric locomotives to date. Its product portfolio covers heavy duty to high speed locomotives, and Kassel is the main production location for the *TRAXX** family, the modular locomotive platform. Key features of the site are its extremely high flexibility e.g. with regard to production processes and working time arrangements, and the entire production “under one roof”.

Competencies

- Pre and final assembly of locomotives
- Testing and commissioning
- Engineering for locomotives
- Homologation and warranty support

Main Products and Contracts over the last 10 years

- Electric freight locomotives *TRAXX F140 AC* for various European customers
- Electric passenger locomotives *TRAXX P160 AC* for Germany
- Electric freight locomotives *TRAXX F140 MS* for various European customers
- Diesel-electric passenger locomotives *TRAXX P160 DE* for Germany
- Power heads with maximum speed of 250 km/h and 350 km/h for Spain (in cooperation with Talgo Spain)
- *ALP-46*, *ALP-46A* and *ALP-45 DP* locomotives for North America
- *IORE* heavy haul locomotives for Sweden

Historical Milestones

- 1810 Formation of the plant by Georg Henschel
- 1848 Steam engine “Dragon” marks conversion to specialize as locomotive plant
- 1905 Start of production of electric locomotives
- 1925 Standardized steam engines for passenger and freight transport
- 1947 Breakthrough in the sector of high-power diesel locomotives

- 1971 World's first Henschel-BBC DE 2500 diesel-electric locomotive incorporating three-phase power transmission
- 1985 Start of new era in rail transport with the delivery of first ICE (ET 401) prototype powerhead
- 2001 Lead site of Bombardier for the production of electric and diesel locomotives
- 2002 Delivery of first *TRAXX* cross-border locomotives Re 482 Switzerland-Germany to SBB Cargo
- 2003 Introduction of *TRAXX* trademark and *TRAXX* MS locomotive
- 2004 Delivery of 34,000th locomotive from Kassel
- 2006 Introduction of *TRAXX* DE and *TRAXX* DC locomotives
- 2007 Handover of 300th Class 185 to Deutsche Bahn
- 2008 Launch of dual-powered locomotive ALP-45 for North America
- 2009 Site achieved maximum production rate of 30 locomotives per month

Certifications

- Quality management system, certified according to DIN EN ISO 9001:2008
- Occupational Health & Safety Management, certified according to BS OHSAS 18001:2007
- Environmental management system, certified according to DIN EN ISO 14001:2009 and EMAS II
- Welding of railway vehicles and vehicle components, certified according to DIN EN 15085-2/ component classification CL1
- Fusion welding of metallic materials, certified according to DIN EN ISO 3834-2
- Deutsche Bahn AG Q1-supplier
- EBA-authorized for certification of conformity
- EBA-approved testing facility for railway related tests
- Adhesive bonding of railway vehicles and parts, certified according to DIN 6701-2
- Independent Safety Assessment Center Type C, certified according to DIN EN ISO/IEC 17020:2004
- Quality management System Approval for *TRAXX* 2 Family, Module SD (Sales and Distribution)/TSI (Technical specifications for interoperability) *TRAXX*

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