

BOMBARDIER

SITE FACT SHEET

COPENHAGEN, DENMARK

Basic Information

Total area: 3,192 m²

The RCS Denmark site focuses on rail control engineering and product development, sales, project management and customer services for the Danish market and contributes to the wider RCS worldwide markets. The product portfolio includes *EBI** Lock computer-based interlocking (CBI) systems, wayside equipment and automatic train control systems for *INTERFLO** mainline and *CITYFLO** mass transit and a full range of *OPTIFLO* service solutions. With over 80 years of experience in providing the latest signalling technology to the Danish rail network, RCS Denmark has a unique appreciation of the market.

Competencies

- Development, country specific adaptation and engineering of *EBI* Lock CBI systems including latest-generation Release 4 (R4).
- Project management, engineering, testing, commissioning and customer service for signalling projects in Denmark concerning relay interlocking and CBI systems.
- Delivery of wayside equipment such as *EBI* Light signal, *EBI* Track train detection and *EBI* Lock (computer- and relay-based interlocking) systems.
- Full maintenance and service of Central Traffic Control (CTC) and interlocking systems.

Main Products and Contracts over the last ten years

Denmark:

2001-2011	Interlocking installations, geographical and free-wired, at various stations
2004-2009	<i>EBI</i> Lock 850 interlocking system upgrade of five major stations (Nyborg, Korsoer, Kastrup, Kalvebod, Aarhus)
2007-2009	<i>EBI</i> Lock 950 CBI R4 system for two major and two smaller stations (Aarhus, Great Belt, Maribo and Baunehoej)
2007-2021	Two frame agreements for wayside equipment and maintenance
2011-2013	<i>EBI</i> Screen 2000 CTC system upgrade to integrate four lines into one (three of the previous installed by Bombardier)
2011-2021	<i>EBI</i> Screen CTC system service agreement for Banedanmark installations
2012-2013	New relay-based interlocking to replace old system at Holbaek Station
2012-2017	Service agreement for <i>EBI</i> Lock 950 CBI R4 (Great Belt, Aarhus, Baunehoej)
2013-2017	Two extensions of <i>EBI</i> Lock 950 CBI R4 system for Aarhus
2015-2021	Service agreement for <i>EBI</i> lock 850 CBI system (Hobro, Kalvebod, Kastrup)

Other countries

2005-2008	<i>EBI</i> Screen CTC system for Gävle and Hallsberg, Sweden
2012-2015	<i>EBI</i> Lock 950 R4 upgrade, Majorstuen, Norway
2004-2009	Train Management System (TMS) for Central and Western Railways, Mumbai, India

Engineering over the last ten years

2005-2010	Development, adaptation and engineering for the Amsterdam-Utrecht Line, with <i>INTERFLO</i> 450 European Rail Traffic Management System (ERTMS) Level 2, the Netherlands
2008-2010	Development and engineering for the Wuhan-Guangzhou ERTMS line, China
2007-2014	<i>EBI</i> Screen 2000 CTC system in London between Waterloo and City Stations two of the busiest stations in the city centre, UK
2012-2014	<i>EBI</i> Lock 950 R4 upgrade, Norway
2015-2016	Upgrade of <i>EBI</i> Screen CTC with new platform and remote control, Thybanen + Silkeborg, Denmark
2015-2017	<i>EBI</i> Lock 950 R4 upgrade, Izmir, Turkey

Historical Milestones

1930	Foundation of Dansk Signal Industri (DSI) manufacturing sirens, railway signals, relays and road signals.
1934	First major order for an interlocking system (Fredericia, Denmark)
1935	Registered as limited company (Ericsson as main shareholder)
1957	First relay-based traffic management system in Denmark (Nykoebing Falster)
1967	First relay set interlocking system in Denmark (Copenhagen Main Station)
1972	First electronic CTC in Denmark (Copenhagen Suburban Line)
1980	First electronic interlocking installation delivered in Denmark (at Grejsdal)
1989	Ownership and name change to EB Signal
1992	Ownership and name change to ABB Signal
1993	First electronic <i>EBI</i> Lock 850 CBI delivered in Denmark (at Hobro)
1996	Company change, named Adtranz Signal
1998	Two major <i>EBI</i> Lock 850 systems delivered (at Aarhus and Oresund)
2001	Company change, named Bombardier Transportation
2009	First <i>EBI</i> Lock 950 R4 CBI in operation in Denmark (at Maribo)
2011	First <i>EBI</i> Lock 950 R4 CBI in operation on a full line (the Great Belt Fixed Link connecting the Danish islands of Zealand and Funen)
2012	<i>EBI</i> Lock 950 R4 system and OCS 950 project in operation (Baunehoej)
2013	<i>EBI</i> Screen 2000 upgrade (Regionstog Holbaek) combining four lines and three different CTC systems

Certifications

- Quality Management System, certified according to ISO 9001, 2008
- International Railway Industry Standard (IRIS), Revision 02, May 2009

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