

# **BOMBARDIER**

## SITE FACT SHEET

### **Lisbon/Porto, PORTUGAL**

#### **Basic Information**

Total area: 250 m<sup>2</sup> (200 m<sup>2</sup> in Porto and 50 m<sup>2</sup> in Lisbon)

The Rail Control Solutions Lisbon site focuses on rail control engineering, sales, project management and customer services for the Portuguese market and the wider region, stretching to support Spain and Brazil. The product portfolio includes *EBI*\* Lock computer-based interlocking (CBI), wayside and automatic train control systems for *INTERFLO*\* main lines and *CITYFLO*\* mass transit solutions. The site has over 22 years experience in providing the latest signalling technology to the Portuguese Railway Network.

#### **Competencies**

- Project Management, testing, commissioning and customer service of signalling projects in *EBI* Cab 700 onboard train control, *EBI* Link 700N / 2000 ERTMS wayside solutions and *CITYFLO* 250 mass transit system.

#### **Main Products and Contracts over the last 10 years**

- 1989 / 2011 Continuous delivery of *EBI* Cab 700, onboard and wayside ATP system (main line) for the Portuguese Railway Network (REFER)
- 2002 / 2011 Maintenance of *EBI* Cab 700 onboard train control equipment for the complete Comboios de Portugal (CP) fleet
- 1998 / 2011 *CITYFLO* 250 signalling system for complete Metro do Porto network
- 2008 / 2011 *CITYFLO* 250 system for Metro do Porto Yellow line extension
- 2009 / 2010 *EBI* Cab 900 for Tram Train *FLEXITY* Swift P4500 for Metro do Porto
- 2010 / 2011 *EBI* Link 700N / 2000 wayside equipment with LEU2000 dual encoder solution (*EBI* Link 700 and ERTMS) for REFER

## Historical Milestones

- 1989 First signalling contract in Portugal for onboard and wayside ATP system – *EBI* Cab 700 – known as CONVEL (Ericsson)
- 1996 / 1999 Acquisition by Adtranz Daimler Benz Transportation (later, Adtranz DaimlerChrysler Rail)
- 1998 Awarded turnkey contract to supply complete signalling system for the entire Metro do Porto LRT network (alongside LRV rolling stock) (Adtranz, part of consortium)
- 2001 Incorporation of Adtranz into Bombardier
- 2011 First *EBI* Link 2000 wayside system delivered with LEU 2000 encoder to support *EBI* Cab 700 and ERTMS telegrams for the international corridors between Portugal and Spain

## Certifications

- Quality management system, certified according to ISO EN 9001:2000
- Environmental management system, certified according to ISO EN 14001
- Occupational Health & Safety Management, certified according to BS OHSAS 18001:2007

## Address

Bombardier Transportation - RCS

Edifício Art's

Av. D. João II - Lote 1.18.01 - Bloco A - Piso 11

1998-028 **Lisboa**, Portugal

Telephone +351 496 91 10

Bombardier Transportation - RCS

Rua do Ferroviário – Gatões – Guifões,

Matosinhos – **Porto** 4460 – 020 Portugal

Telephone + 351 22 9569400

<http://www.transportation.bombardier.com>

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