

Alstom has been present in Denmark for **20 years**, having sold **over 200 regional trains** in the country, as well as **world-class signalling solutions**. In Denmark, Alstom is currently delivering the ERTMS signalling solutions for Banedanmark for Trackside in Eastern Denmark, and for On-board equipment nationwide. In 2016, Alstom and Banedanmark successfully tested for the **first time ever worldwide** an ETCS (European Train Control System) level 2 baseline 3 application; an upgrade which will make the trains more reliable and punctual, as well as safer.



KEY FIGURES

200

Employees

237

Trains sold

2

Depots for installation of ERTMS Onboard equipment

1st

First worldwide tests of ETCS level 2 baseline 3 application in 2018



SIGNALLING

- In 2018, Alstom set a **new national railway speed record** of 255 kph during a ERTMS Trackside installation test on the Copenhagen to Ringsted line
- In 2019, Denmark opened the **first line equipped** both ERTMS trackside, Onboard signalling solutions and a fully integrated Traffic Management System from Alstom
- Ongoing delivery of Atlas, Alstom's ERTMS-based signalling solution to Banedanmark, the Danish railway infrastructure owner, replacing the existing trackside signalling system in the Eastern part of Denmark, as well as installing new on-board ERTMS equipment of the entire Danish fleet
- Installation of ERTMS Onboard equipment at a local depot in Langå
- The signaling project in Denmark is being delivered in cooperation with Alstom teams based in the site of Charleroi (Belgium) for Onboard, Bologna (Italy) for Trackside, and Stockholm for global solutions



REGIONAL TRAINS

- A total of 524 trains sold in Denmark
- Delivery of 97 Coradia Lint trains to Nordjyske Jernbanen, Arriva, Lokalbansen, Regionstog and Vestbanen (Esbjerg). An additional 4 trains to be delivered in 2021
 - Delivery of 136 S-trains to DSB
 - Delivery of 96 Flexliner/IC3 to DSB
 - Delivery of 44 Flexliner/IR4 to DSB
 - Delivery of 34 Contessa/OUT to DSB
 - Delivery of 113 Dosto to DSB

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- In Denmark, Alstom is currently delivering the ERTMS for Banedanmark for Trackside in Eastern Denmark, and for Onboard nationwide
- For ERTMS Trackside, Alstom has also delivered Legacy Relay Interlocking (E80) and upgrades of regional conventional interlocking by adding LEU 2000 (Controlled ERTMS & legacy ATC2 balises)



Delivering world class signalling solutions



- Delivering Trackside ERTMS signalling solutions in the Eastern region of Denmark, on 12 intercity and regional lines in Zealand and Fyn, which cover half of the country. This railway network consists of almost 800 km-long double track lines and 90 stations. The contract signed in 2012 also includes 25 years of maintenance
- Delivering Onboard ERTMS equipment for the entire Danish fleet of approximately 350 regional trains, locos and yellow machines, of 16 different types
- Delivering Onboard ERTMS equipment for 111 X31 regional trains running in the South of Sweden, and Eastern Denmark. The solution features an integrated dual system enabling the trains to run on legacy lines as well as on lines newly equipped with the ERTMS Level 2 system both in Sweden and Denmark

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