

## Bogies for the CP 2000 commuter trains for the Portuguese state railways



CP 2000 on his way to Porto São Bento

### Factsheet 4.00006

#### Details

##### Project details

- Customer: Bombardier Transportation
- Time frame: 2000 to 2003

##### Technical data of the pilot coach

- Track gauge: 1 668 mm
- Axle load:
  - Trailer bogie 13 t
  - Jakobs motor bogie 20,5 t
- Number of motors: 6
- Continuous Power: 6 x 240 kW
- Units: 34 trains

#### Contact

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### Customer Requirement

The Portuguese state railways purchased new 4-car electrical multiple units from a consortium, consisting of Bombardier Transportation (mechanical part) and SIEMENS (electrical part).

### Realisation

Bombardier Transportation in Winterthur was commissioned with the development and design on the bogies. PROSE received the contract for the technical project management. Further on PROSE performed load collective measurements during the on track type tests in Portugal in order to be in a position to validate the load assumptions.



Jakobs motor bogie for the CP 2000

### Customer Advantage

The experience of PROSE engineers in the development and design of bogies allowed a smooth performance of the project. The new commuter trains have started operation without any substantial problems and are well accepted by the customer as well as by the passengers.



First CP 2000 after commssioning in Poceira

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