

# Swiss tilting train ICN



ICN in revenue service passing Dulliken, Switzerland

## Factsheet 4.00021

### Details

#### Project details

- Customer: SIG Swiss Industrial-Company
- Time frame:
  - Development 1993 to 1995
  - Construction since 1999

#### Technical data of the ICN

- Number of coaches: 7
- Number of seats: 471
- Mass (tare): 355 t
- Maximum speed: 200 km/h
- Tractive power: 5,2 MW
- Deliveries:
  - 1st series (1999): 24 trains

### Contact

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### Customer Requirement

In 1993 SBB Swiss Federal Railways took the principle decision to purchase tilting trains to realise the Bahn 2000 concept. The Swiss rolling stock industry wanted to participate in this important tender with its own product.



Experimental train NEITEC, consisting of three former British Rail Mark III coaches

SIG Swiss Industrial-Company had developed a tilting system for the standard type III coach of SBB already in the early 80ies. Based on this experience it was SIG who decided to develop the running gears and tilting system for the new project.

### Realisation

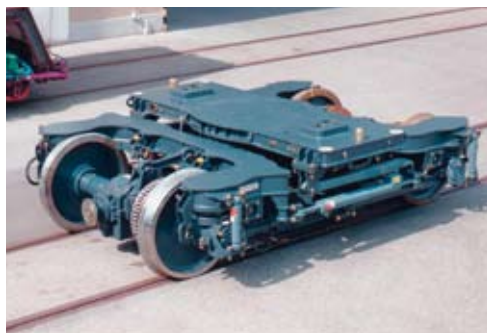
PROSE engineers have been commissioned by SIG Swiss Industrial-Company as technical project manager as well as for various development tasks.

### Customer Advantage

The competent and tight project management allowed the completion of this complex multi-disciplinary project within the commercial and schedule objectives. It enabled the Swiss rolling stock industry to acquire the ICN contract from SBB.



Electro-mechanical tilting actuators



ICN bogie with integrated tilting actuators

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