

# **UHN 07 SNEKKESTAD PROJECT**

## **SNEKKESTAD (NO)**

### **CLIENT**

Jernbaneverket Utbygging  
(Norwegian National Rail Administration)

### **CONSTRUCTION PERIOD**

04.2011 – 03.2015

### **CONTRACT SUM**

CHF 68 Mio. (NOK 414 Mio.)

### **JOINT VENTURE COMPANY**

Marti ÍAV DA

### **JOINT VENTURE PARTNERS**

Marti Tunnel AG, CH-3302 Moosseedorf  
ÍAV hf, IS-110 Reykjavik

### **LEAD COMPANY AND TECHNICAL LEAD**

Marti Tunnel AG, CH-3302 Moosseedorf

### **COMMERCIAL LEAD**

ÍAV hf, IS-110 Reykjavik

# UHN 07 SNEKKESTAD PROJECT

## SNEKKESTAD (NO)

### PROJECT DESCRIPTION

The UHN 07 Snekkestatd project is the southernmost 2.5 km long construction lot of the double track railway line between Holm and Nykirke, which aims to modernize the Vestfold railway system. The main parts of the project consist of:

- 2'100 m long (135 m<sup>2</sup>) double track railway tunnel
- 400 m of double track railway
- 320 m long (53 m<sup>2</sup>) adit/escape tunnel
- 380 m long (24 m<sup>2</sup>) escape tunnel

### GEOLOGY

- Basalt
- Rhombic porphyry

### WORK DESCRIPTION

Underground excavation, rock support and grouting work

- Excavation methods: drill & blast, pipe umbrella advance (60 m)
- Excavated length and volume: 2'995 m, 332'000 m<sup>3</sup>
- Grouting method: systematic cementous pre-grouting
- Grouting quantity: 208 rounds, 10'000 t of cement
- Standard rock support: shotcrete (9'930 m<sup>3</sup>) and systematic rock bolts (19'600 pcs)
- Additional rock support: reinforced shotcrete arches (36 pcs.), steel beams (57 pcs.)

Underground water and frost protection work

- Concrete elements lining: 51'350 m<sup>2</sup>
- PE-foam & shotcrete lining: 12'360 m<sup>2</sup>
- Spray applied membrane & shotcrete lining: 2'700 m<sup>2</sup>

Surface- and groundwork

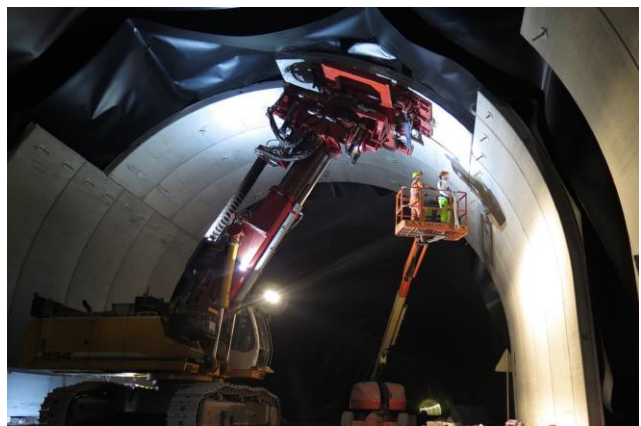
- Sheet piling work in the portal area
- Roadwork
- Fresh water and drainage system
- Installation of cables pipes and channeling

Concrete work

- 3 technical buildings
- One 50 m long portal

Electrical work

- Earthing system



15.11.2017



**Marti Tunnel AG**

Seedorffeldstrasse 21 3302 Moosseedorf Tel. +41 31 388 75 10 [www.marti-tunnel.ch](http://www.marti-tunnel.ch) [tunnel@martiag.ch](mailto:tunnel@martiag.ch)