Patrik Nolåker, President
Underground Construction
Transport applications
- Road tunnels
- Railway tunnels
- Subways

Underground Construction
Hydropower applications
- Head race tunnels
- Tail race tunnels
- Surge shaft
- Power house

Underground Construction
Water applications
- Sewage treatment plants & tunnels
- Storm water surge tunnels
- Water supply and purification plants
- District heating
- Irrigation
Underground Construction

Storage applications

- Oil and gas
- Food and wine
- Nuclear waste

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Productivity

1905 The first rock drill
1952 The “Swedish Method”
1962 Mechanization
1973 The hydraulic rock drill
1998 RCS PC control system
2005 COP 3038

World Record at Sauda Hydro Power Project in Norway, May 2007

165 m advance in one week on a single face

165 metres in one week: The AF Skandinavia team – from left, Service Engineer John Gunnar Eggerud, Frode Dyrland and Per Stiglie and Ken Ove Basgård, Tunnel Manager. Photo: Ingvil Bakka/Ryfylke.
**Underground Construction**

Productivity – three key elements

- The rock drill – COP3038
- The boom – BU745
- The rig control system – RCS
  - PC based network control system
  - Superior "instant" process control
  - Automation options

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**Underground Rock Excavation**

Underground construction

- Important markets
  - Markets for underground construction
  - Markets for underground mining and underground construction
  - Markets for underground mining

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**Underground construction**

Market shares – most important markets

- Atlas Copco market shares for URE construction products
  - Above 50%
  - 25%-50%
  - Below 25%
Underground Rock Excavation
Future growth markets

Graph showing projected growth in different regions over the years 1995 to 2015.

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Safety and ergonomics

- Operators
- Environment
- Liftable cabin
- Automated operation

Underground Construction
Total solutions

Drill rigs for cross sections from 10 – 180 m²

Service agreements, Atlas Copco finance, repairs, rock tools, automation.
Underground Construction
Our strength for the future

- Strong growth, especially in far east
- Strong local presence
- Always in the lead
- Total solutions

We are committed to your superior productivity through interaction and innovation.