

Atlas Copco Underground Rock Excavation



Atlas Copco Capital Markets Day, November 20, 2007

Patrik Nolåker, President

Atlas Copco

Underground Construction

Transport applications



- Road tunnels
- Railway tunnels
- Subways

Atlas Copco

Underground Construction

Hydropower applications



- Head race tunnels
- Tail race tunnels
- Surge shaft
- Power house

Atlas Copco

Underground Construction

Water applications

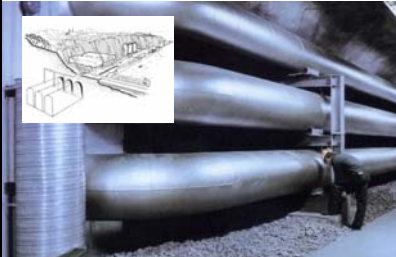


- Sewage treatment plants & tunnels
- Storm water surge tunnels
- Water supply and purification plants
- District heating
- Irrigation

Atlas Copco

Underground Construction

Storage applications



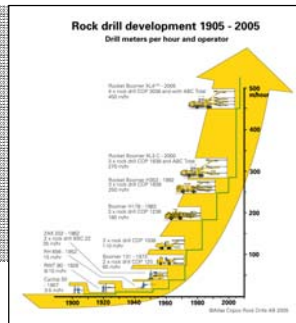
- Oil and gas
- Food and wine
- Nuclear waste

Atlas Copco

Atlas Copco Capital Markets Day, November 20, 2007

Underground Construction

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

Atlas Copco

Atlas Copco Capital Markets Day, November 20, 2007

Underground Construction

Productivity



- 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 Engineers John Gunnar Eggerud, Frode Dyrland and Tor Rognli and Ken Ove Basgård, Tunnel Manager. Photo: Ingvil Bakka/Ryfylke.

Atlas Copco

Atlas Copco Capital Markets Day, November 20, 2007

Underground Construction

Productivity – three key elements



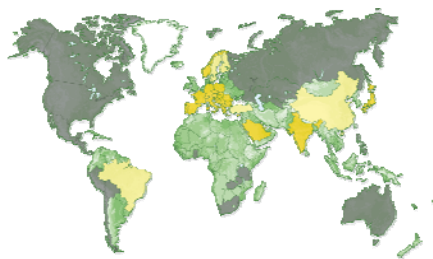
- The rock drill – COP3038
- The boom – BUT45
- The rig control system – RCS
 - PC based network control system
 - Superior "instant" process control
 - Automation options

Atlas Copco

Atlas Copco Capital Markets Day, November 20, 2007

Underground Rock Excavation

Underground construction



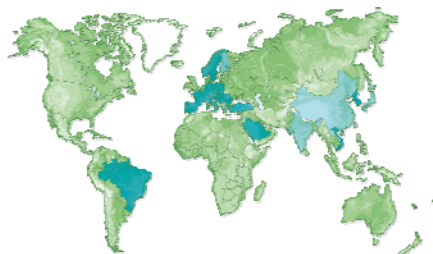
- Important markets
- Markets for underground construction
 - Markets for underground mining and underground construction
 - Markets for underground mining

Atlas Copco

Atlas Copco Capital Markets Day, November 20, 2007

Underground construction

Market shares – most important markets



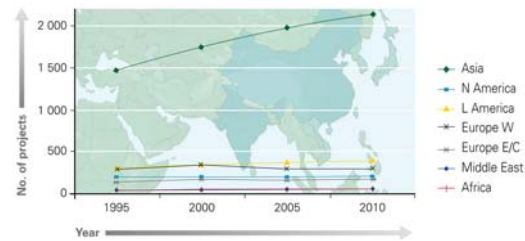
- Atlas Copco market shares for URE construction products
- Above 50%
 - 25%-50 %

Atlas Copco

Atlas Copco Capital Markets Day, November 20, 2007

Underground Rock Excavation

Future growth markets



Atlas Copco

52 Atlas Copco Capital Markets Day, November 20, 2007

Underground Rock Excavation

Safety and ergonomics



- Operators environment
 - Liftable cabin
 - Automated operation

Atlas Copco

53 Atlas Copco Capital Markets Day, November 20, 2007

Underground Construction

Total solutions



Atlas Copco

54 Atlas Copco Capital Markets Day, November 20, 2007

Underground Construction

Our strength for the future



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

Atlas Copco

56 Atlas Copco Capital Markets Day, November 26, 2007

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

Atlas Copco

57 Atlas Copco Capital Markets Day, November 26, 2007