

# Atlas Copco Geotechnical Drilling and Exploration



Atlas Copco Capital Markets Day, November 20, 2007

Hans Lidén, President Atlas Copco GDE

## Atlas Copco Geotechnical Drilling and Exploration



Atlas Copco GDE develops, produces and markets quality products and services for **exploration drilling** and **selected applications and markets within ground engineering**

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Atlas Copco Capital Markets Day, 30 November 2017

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## Application Areas

Find, identify and define natural resources

Investigate rock and soil conditions

Strengthen, seal and drain rock and soil

Ground construction support systems

Energy and waterwell drilling

Exploration products



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Ground engineering systems

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## Ground Engineering

A general outlook for the future development

### Urbanization is increasing, leading to expansion into unstable areas

*Tunnels are done in poor ground conditions, which increases the need for forepoling*

### Fast growing development areas in great need for infrastructure

*Need for new utility lines and underpasses increases the need of horizontal drilling*

### Environmental and safety concerns affect construction methods

*Tunnels are used instead of road cuts, which increases demand for ground stabilization etc.*

### Decreased access to pure water, increased energy demand

*Increased need for energy and water wells*

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## Atlas Copco Geotechnical Drilling and Exploration

The makers of solid ground

Investigate rock  
and soil conditions

Strengthen, seal and drain  
rock and soil

Ground construction  
support systems

Energy and  
waterwell drilling



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- Energy and waterwell drilling



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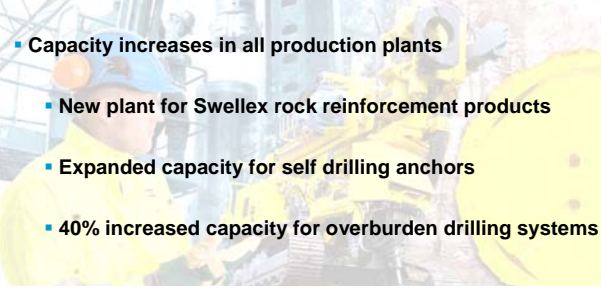
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**Atlas Copco Geotechnical Drilling and Exploration**  
 Gearing up – capacity increases

- **Capacity increases in all production plants**
  - New plant for Swellex rock reinforcement products
  - Expanded capacity for self drilling anchors
  - 40% increased capacity for overburden drilling systems



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**Atlas Copco Geotechnical Drilling and Exploration**  
**Gearing up – product development**

- Large diameter piling systems

Poor ground requires more piling  
 New constructions require more  
 and larger piling



- Roofex deep mine bolt –  
 also for construction in seismic areas



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**Atlas Copco Geotechnical Drilling and Exploration**  
**The House the Ruth built (and Atlas Copco rebuilt)**

Customer: Yankee Stadium (Skanska)  
 Application: Foundation piling  
 Challenges: High reliability needed  
 Time constraints  
 Method: Micropiling  
 80 casings (324 mm)  
 45 m depth, incl 6 m rock  
 System used: Symmetrix



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**Atlas Copco Geotechnical Drilling and Exploration**  
**Increasing customer capacity**

Customer: Häkkinen, Finland  
 Application: Foundation piling  
 Challenges: 400 tons of weight  
 Few  $\mu$  settlements allowed  
 Method: 71 piles (711 mm) driven  
 in granite bedrock  
 System used: Symmetrix  
 Time needed: 5 weeks



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**Atlas Copco Geotechnical Drilling and Exploration**  
Interacting for superior productivity



Customer: Veidekke, Sweden  
Application: Tunneling  
Challenges: Sealing of tunnel with different rock conditions  
Tight schedule - efficiency  
Logistics  
Method: Mobile grouting production  
System used: Unigrout



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



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