

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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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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The makers of solid ground

Investigate rock
and soil conditions

Strengthen, seal and drain
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Ground construction
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Energy and
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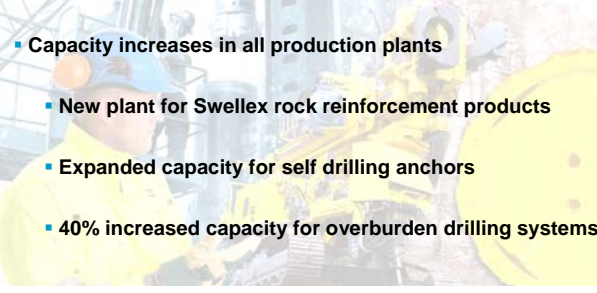


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 Gearing up – capacity increases

- **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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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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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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Increasing customer capacity

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



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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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