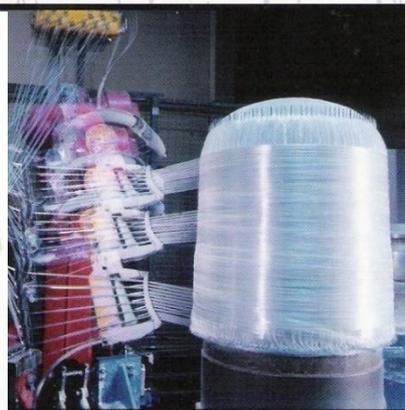
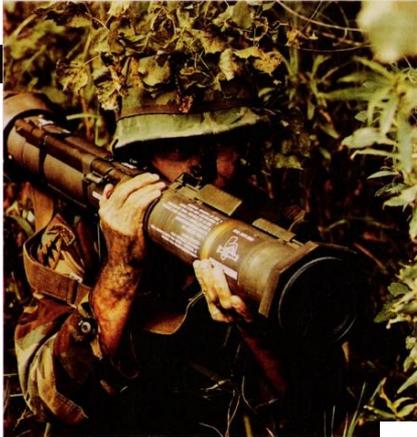




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High performance design, high and fully automated production



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Background Kurt Berglund



PhD and Ass Professor at The Royal Institute of Technology, Stockholm 1977 – 1980, full time. (Mechanics of Materials, i.e., Strength of Materials for Composites)



Professor at The Royal Institute of Tech, Stockholm and Luleå University 1981 – 1995. Scope as above.



Development Manager ABB Plast 1980 – 1989



Composite Scandinavia AB, Founder and CEO

1989 – 2004. LPG Cylinders and air tanks for heavy trucks. Sales in Europe and Africa, License production USA and Korea.



Joint – Venture Volvo Car Corp – Kurt Berglund
2006 – 2007; CNG Tanks for cars



HFC Sweden AB, Founder and CEO, LPG cylinder business



Gastank Sweden AB, Founder and CEO

2007 – ; CNG tanks for cars and for transport of gas



CE&G Sweden AB, CE&G bought all material- and immaterial rights originating from Gastank Sweden.



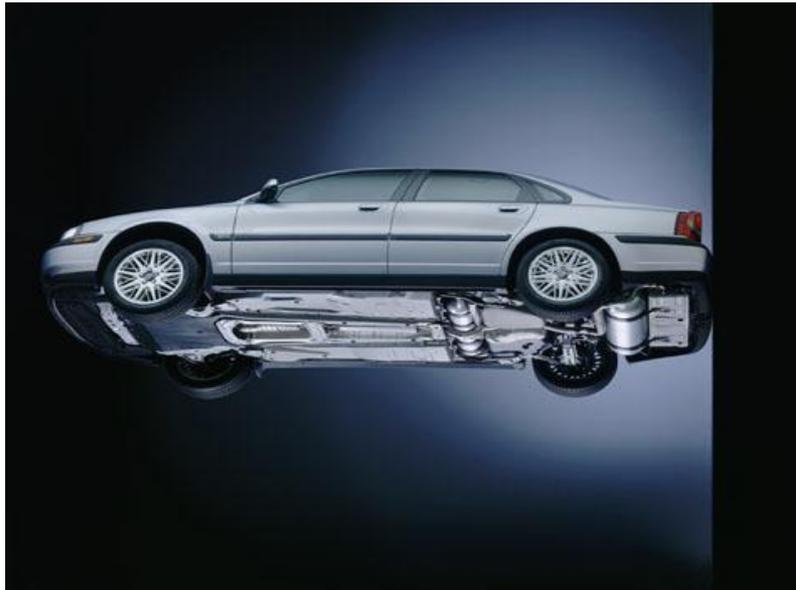
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Background CNG Gastank projekt

Advanced Engineering Project 2005-2006

Volvo Car Corp - Kurt Berglund (Consortium)





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Adopt the gastank to the existing space, not vice versa.

A Tank with “**rectangular**” cross section, with an internal structure.

Low Cost Production irrespective of Circular Tanks or CCT’s



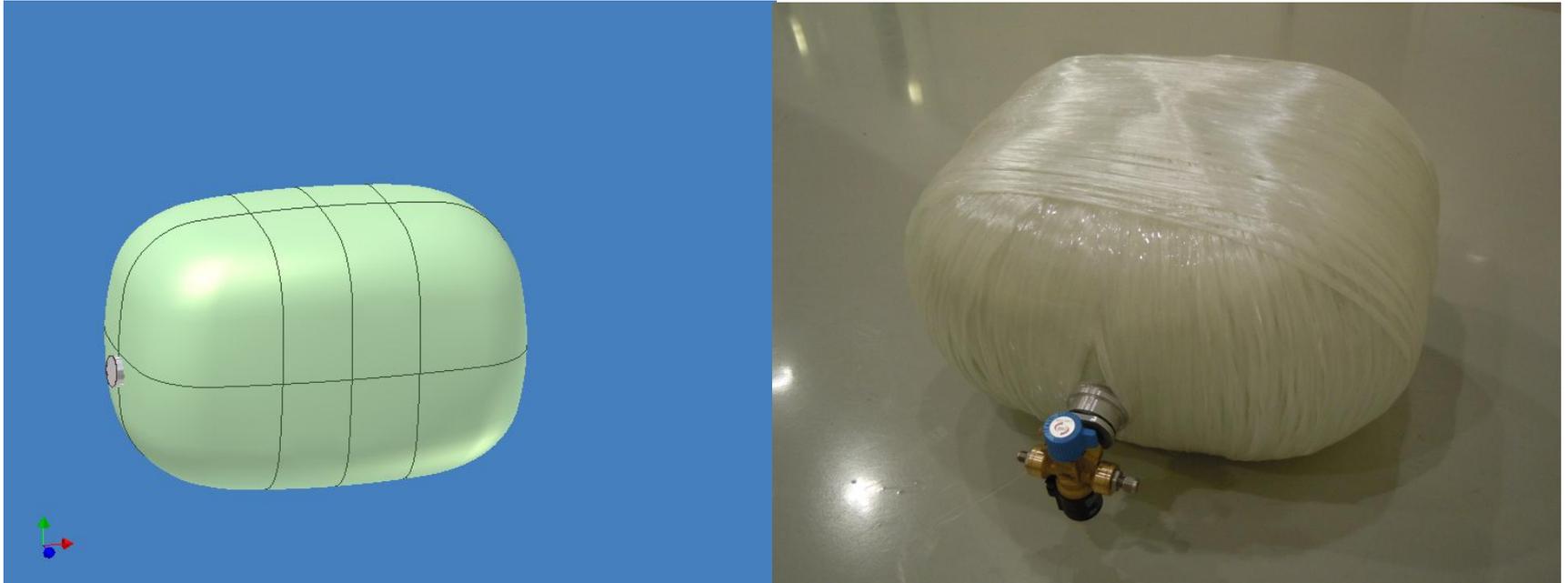
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Volume increase within the available space



Volvo: For some specific spaces the gas volume can be increased with approx 30%

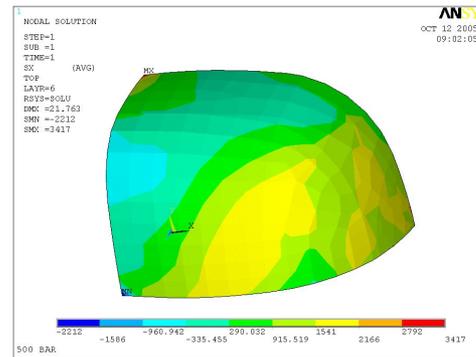
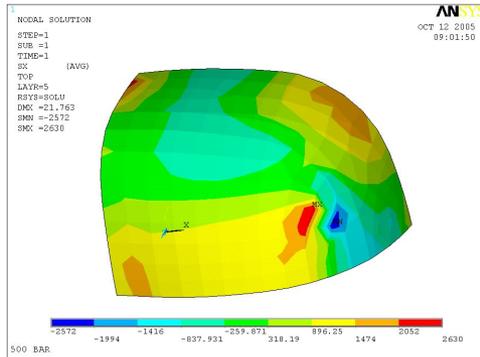




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The Design is always scientifically based and combined with long term experience





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Business idea for Gastank Sweden AB

Development and serial production of
Composite Cylinders for CNG characterized by:

- Know-how on highest international level
 - **Cost effective raw materials**
 - **Fully automated production resulting in high and even quality and low production cost**
 - Volume effective designs (CCT design. Volume increase up to 35 %)
-



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- **Material:** HP glass fiber, epoxy, thermoplastic liner
 - **Manufacturing method:** Wet winding with industrial robots
 - **HP glass fiber instead of carbon** in order to substantially lower the cost
-



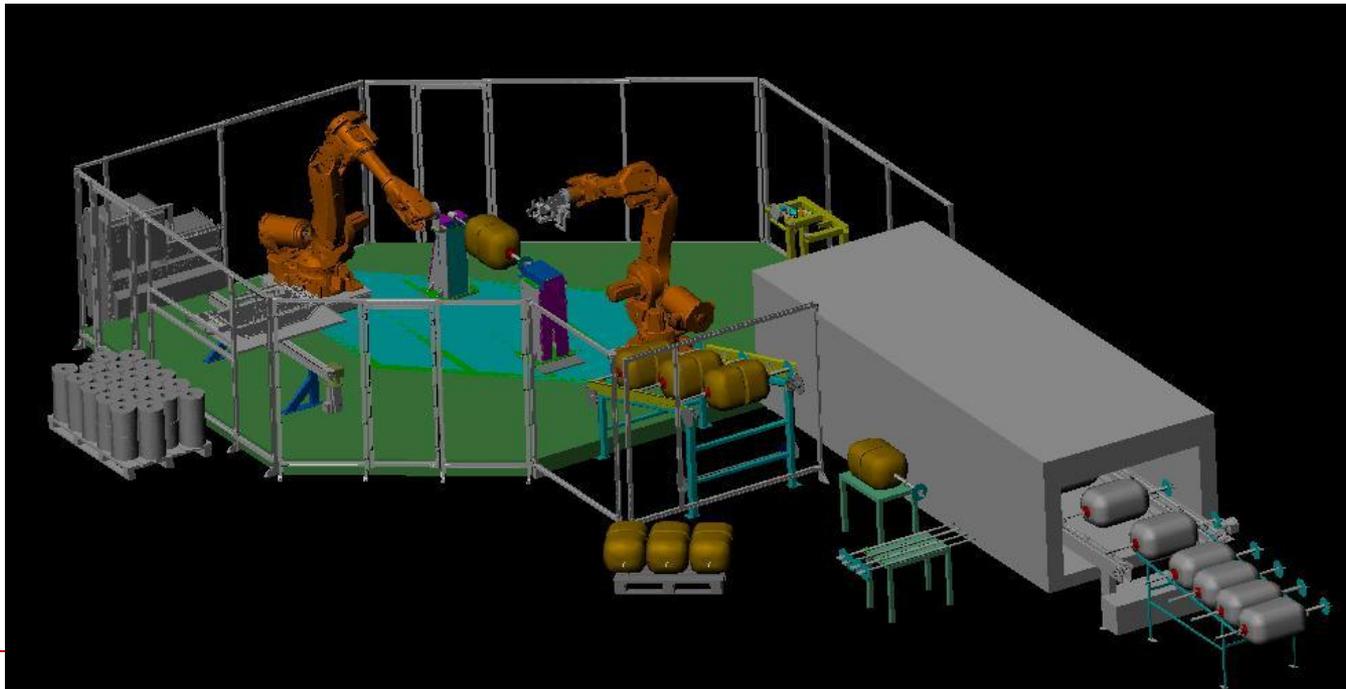
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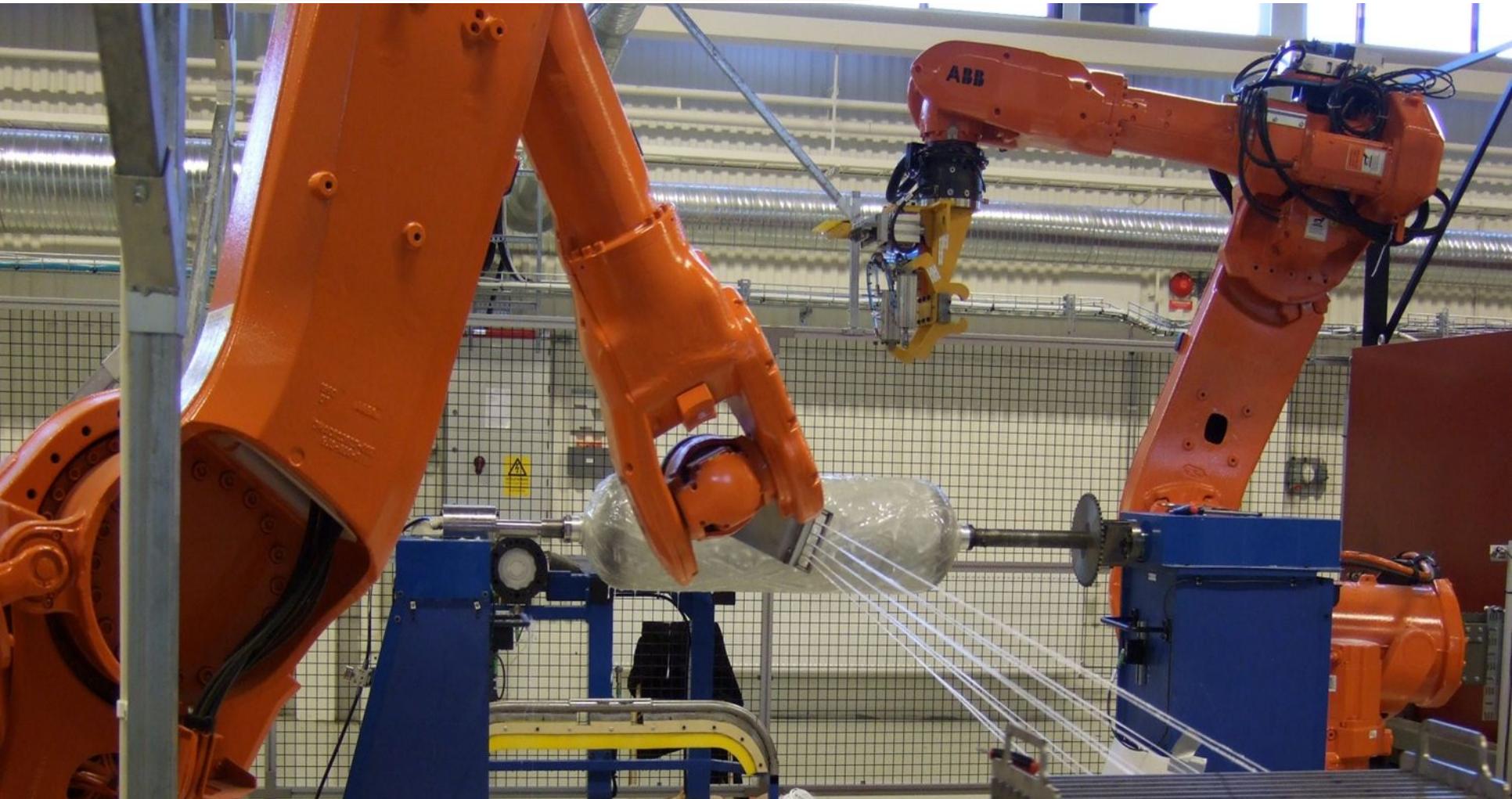
Equipment

Fully automated production line with robots with external axes, oven, etc

Test equipment



Konfidentiellt



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Type 4 tanks to the Netherlands, 32 liter tanks





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Type 4 tanks to the Netherlands, 32 liter tanks



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Example of Project for larger cylinders

Type 4 tanks, size 293 liter for tube trailers for transport of CNG in Peru and fuel tanks for buses





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Tube trailer with Gastank 293 liter tanks





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Enclosed are UN-ECE R110 approvals as well as PD's
