



## Press Information

### **New concept from Ovako challenges established hydraulic systems design thinking**

**Ovako has launched a new concept with its Cromax<sup>®</sup> material and one that will deliver cost advantages, while challenging design concepts for hydraulic cylinders.**

As the only producer of dedicated piston rod steel Ovako has complete control over the material quality from initial melt through to rod production and final coating. It is this unique position that allows the company the ability to deliver optimum material quality for customers so important in the processes of piston rod manufacture.

By making small metallurgical refinements optimizing the chemical composition in the steel to safeguard the structural integrity it is possible to provide a significant economical gain with cost reductions and lighter construction possibilities.

The new concept presents the industry with design opportunities not only to downsize the cylinder, without loss of performance, but also to increase the performance of existing designs. It presents higher mechanical properties combined with excellent machinability and weldability.

The sum of all diameter parameters in the piston rod manufacturing process grows exponentially with the diameter. By reducing the diameter by just 5 mm a 15% cost saving can be achieved along with less weight, reduced space requirements and lower energy consumption. Equally, by using more high strength material in an existing size cylinder work load can be increased.

“Our complete offering combines material, surface finish and services taking into account all parameters to minimize the total cost and capital required enabling a hydraulic cylinder to supply a specific force throughout its operational life regardless of where in the world it is being used,” said Per Israelsson, Head of Marketing & Technology, Ovako Cromax AB.

“Specifically developed for piston rod manufacture, Cromax® grades guard against fatigue, buckling and impact fracture. They provide customers with the best possible material to minimize their production costs while delivering exceptional mechanical properties and operational efficiency.”

For more information visit: [www.ovako.com](http://www.ovako.com)

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### **About Ovako**

*Ovako develops high-tech steel solutions for, and in cooperation with, its customers in the bearing, transport and manufacturing industries. Our steel makes our customers' end products more resilient and extends their useful life, ultimately resulting in smarter, more energy-efficient and more environmentally-friendly products.*

*Our production is based on recycled scrap and includes steel in the form of bar, tube, ring and pre-components. Ovako is represented in more than 30 countries, and has sales offices in Europe, North America and Asia. Ovako's sales in 2015 amounted to EUR 834 million, and the company had 2,905 employees at year-end. For more information, please visit us at: [www.ovako.com](http://www.ovako.com)*

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