Steels for Hydraulic Applications from Ovako
Our hydraulic steel can take the pressure

At Ovako we have a long tradition as a steel supplier to the hydraulic industry, and throughout the years we have also gained comprehensive application know-how in this field. Today we supply steels for all kinds of cylinders, from standard cylinders to highly stressed cylinders for demanding applications.

Over the years we have refined our standard products and developed new front-edge products. Here’s one example: To meet the increasing strength requirements of the hydraulic industry, Ovako has developed an entirely new product family, Ovahyd, which is ideally suited for the manufacture of highly stressed hydraulic components – cylinders and piston rods. The most important characteristic for this type of steel is that it has very good impact toughness, in both longitudinal and transverse directions.

Ovako is also Europe’s leading manufacturer of long, hard chrome plated products, such as bars and tubes. They are marketed under the names Cromax and Nikrom and are available in different steel grades, executions and in a broad range of sizes.

With our wide range of steel grades and products it goes without saying that we can offer the optimal steel for each cylinder application. Our clean steels with excellent fatigue strength, high impact strength and fine grain structure, giving the steels uniform mechanical properties, are typical characteristics of the products we manufacture.

Our broad range, which includes bars, tubes and hard chrome plated bars/tubes, covers most of the needs for the production of cylinders, piston rods, pistons, cylinder ends and eyes. In fact, even for pin bolts. Further, we are a supplier of steels for hydraulic components for pumps as well as for control and regulating equipment.
Cylinders made of steel from Ovako can be found everywhere

Whatever the type of cylinder, Ovako can supply exactly what is needed. The right steel, the right product, the right quality. With the right performance and the right service. Let us be your partner when discussing new ideas. We speak the designers’ language.
The optimal steel for the optimal cylinder

Our clean steels with excellent yield and tensile strength, high impact strength both longitudinally and transversely, uniform mechanical properties, good machinability and weldability, are ideally suited for the manufacture of cylinders, piston rods, pistons, cylinder ends and eyes as well as for pin bolts. Below you can see the yield and tensile strengths of different steel grades suitable for cylinder production.
A broad range of executions and dimensions

Ovako has a wide range of high-grade steel products, which means that we can offer the optimal product for most hydraulic applications. Our comprehensive programme of dimensions provides a basis for excellent production economy through a higher degree of materials exchange and consequently lowers material and machining costs.

Seamless tubes and hard chrome plated tubes

- **Cromax® Tube, standard sizes**

In the inner orange field the tolerances indicated for hot rolled tubes apply and in the inner blue field the indicated tolerances apply for cold worked tubes. In the outer light orange and blue fields the tube sizes must be applied by the mill.

Hard chrome plated bars

Bars – hot-rolled and Bright bars

More information about our products can be found at www.ovako.com
Ovako has comprehensive resources for manufacturing pre-components in various stages of machining, from cut blanks to finished parts that are controlled and ready for assembly. Our production systems are designed to meet the customers’ requirements for product optimization and short lead times. The equipment can be adapted to both long and short production runs.

- Cutting
- Chamfering
- Drilling
- Milling
- Tumbling
- Planing
- Turning
- Threading

More detailed information on our pre-machined components is available at www.ovako.com.

Logistics IT solutions
At Ovako, logistics have always been a strategic issue and an integral part of our operations. With our long experience of supplying steel products to customers worldwide, we have continuously refined our logistic solutions by offering shorter lead times, more rational and cost-effective transport systems, and more purpose-driven warehousing routines. Our IT-based solutions, for example, can under certain conditions be used to give you detailed information relating to your business activities with us. The system also makes it possible to present data from different Ovako units in a uniform way. Our objective has always been to enable our customers to simplify their material handling, reduce their capital costs and enjoy better service.

Customer support
Making steel is only part of the job. Just as important is the technical co-operation with every individual customer. Using our comprehensive knowledge and experience of different applications and production methods, we can give qualified customer support not only regarding the properties of our steel, but also on how to heat-treat and machine it. We can also be a partner when discussing new ideas on how to get the most out of our products in production, to achieve high quality end products as well as the best production economy. Also at your service is our website, www.ovako.com, where you can find up-to-date information on all our standard steel grades, products, and service offer. You will also find contact details for our sales and technical support.
Ovako is a leading European producer of long special steel products for the heavy vehicle, automotive and engineering industries. Production consists of low alloy and carbon steels in the form of bare, wire rod, tubes, rings and pre-components. We have 16 production sites and several sales companies in Europe and the USA. Our total steel production amounts to 2 million tonnes.

MARKETING AND SALES:

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