

Toolox® 44 has been proven to be the optimum choice for heavy duty wheels and rollers. Toolox® is delivered already heat treated to a high tensile strength of 1450 MPa and an excellent fatigue resistence gives a superior performance under the most demanding conditions. The guaranteed crack resistance combined with the 100% ultrasonic testing assuares a long, problem free, life time. Toolox® is based on an ultra-clean metallurgical steel concept developed during decades at the SSAB Oxelösund plant in Sweden.

In addition to the excellent mechanical properties, Toolox® represents a superior solution in the workshop. The low carbon and alloy content makes plasma and oxycutting possible, which gives the possibility to start machining from a shape much closer to the final one. Toolox® is developed for optimized machining performance. Being stress-free, deformations after machining are at a minimum. The surfaces obtained when machining are very smooth which further improves the function of the rollers and improves fatigue life.



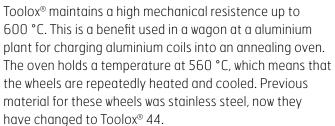
Crane steering wheels in a steel plate rolling mill. The wheels are normally changed every 3–5 years. Previously 35CrNiMo14 (similar to W.Nr.1.6582) machine steel was used. The wheels where induction hardened to a depth of 10 mm. Now Toolox® 44 with no surface treatment is used. Large advantage in manufacturing is achieved since time is saved due to no need of heat treatment. Furthermore, cutting the rings from plate saved machining time and guaranteed a homogeneous small grain structure.



Guide rollers in cement mill stacker/reclaimer. In the previous solution case hardened 42CrMo4 was used. Changing to Toolox® 44 decreased lead time with 10 days due to no need to send the rollers for heat treatment. A much better surface finish with Toolox® gives better resistance to adhesive wear.









Wheels used in a steel coking plant locomotive. Previoulsy the wheels were made from forged steel which was a well working solution. The disadvantage was the long lead times once the wheels needed to be replaces. Making the wheels out of Toolox® 44 plates solved the problem.

## **Availability**

Plates from 6-165 mm. Bars between 16 and 405 mm with lengths up to 5000 mm. Toolox® is available from the local SSAB stock. Cut pieces of Toolox® can be obtained through the well-established global network of Approved Toolox® Distributors. Both SSAB and distributors can also provide you with good application support as well as technical guidelines.

## **Contact and more information**

Contact your local sales representative to learn more, visit www.toolox.com or consult Tech Support at: help@ssab.com

