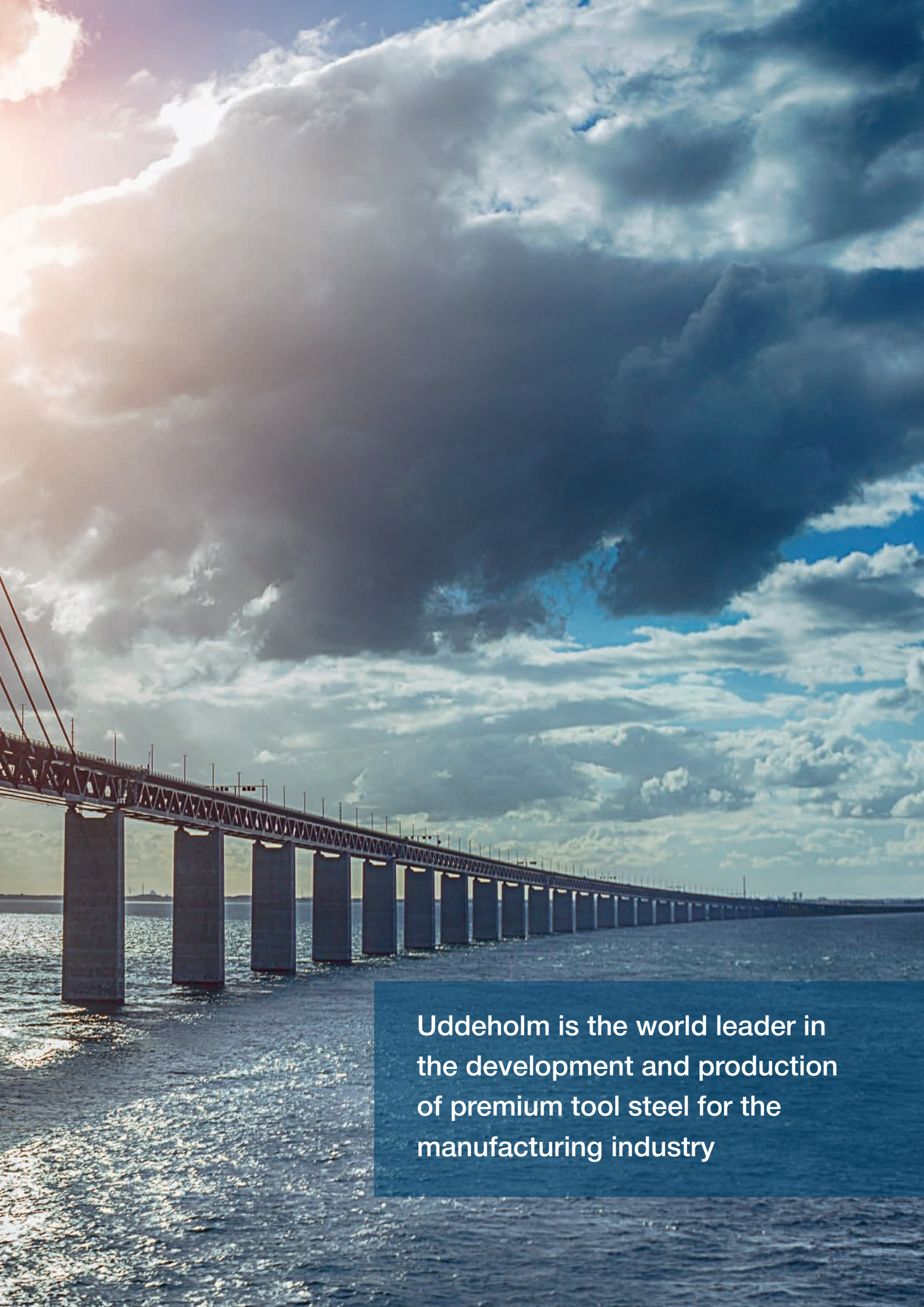


Maximize your production

Uddeholm Vanadis® 8 XL

**PURE ABRASIVE WEAR  
WON'T STOP YOU**





Uddeholm is the world leader in the development and production of premium tool steel for the manufacturing industry



# MAXIMIZE YOUR PRODUCTION

Uddeholm offers a wide range of high quality cold work materials for superior performance in a variety of applications. The unique cold work grade Uddeholm Vanadis® 8 XL is designed to resist pure abrasive wear, making it ideal for the most demanding cold working applications.



Uddeholm Vanadis® 8 XL has been developed for applications where extreme resistance to abrasive wear is required. Coarser carbides in the material structure give increased tool performance. Uddeholm Vandis® 8 XL will maximize your production in a profitable and sustainable way.



# PURE ABRASIVE WEAR WON'T STOP YOU

Uddeholm Vanadis® 8 XL is designed for applications where extreme wear resistance in abrasive environments is required. Coarser carbides in the material structure give you improved tool performance.

Carbides are very hard particles in the steel that give it extra wear resistance and durability. Think of them as small reinforcements that protect the steel from wear. In Uddeholm Vanadis 8® XL, the carbides are coarser, which increases tool life and up-time in production, an important improvement in demanding, high-abrasive environments where materials with large abrasive particles are processed.



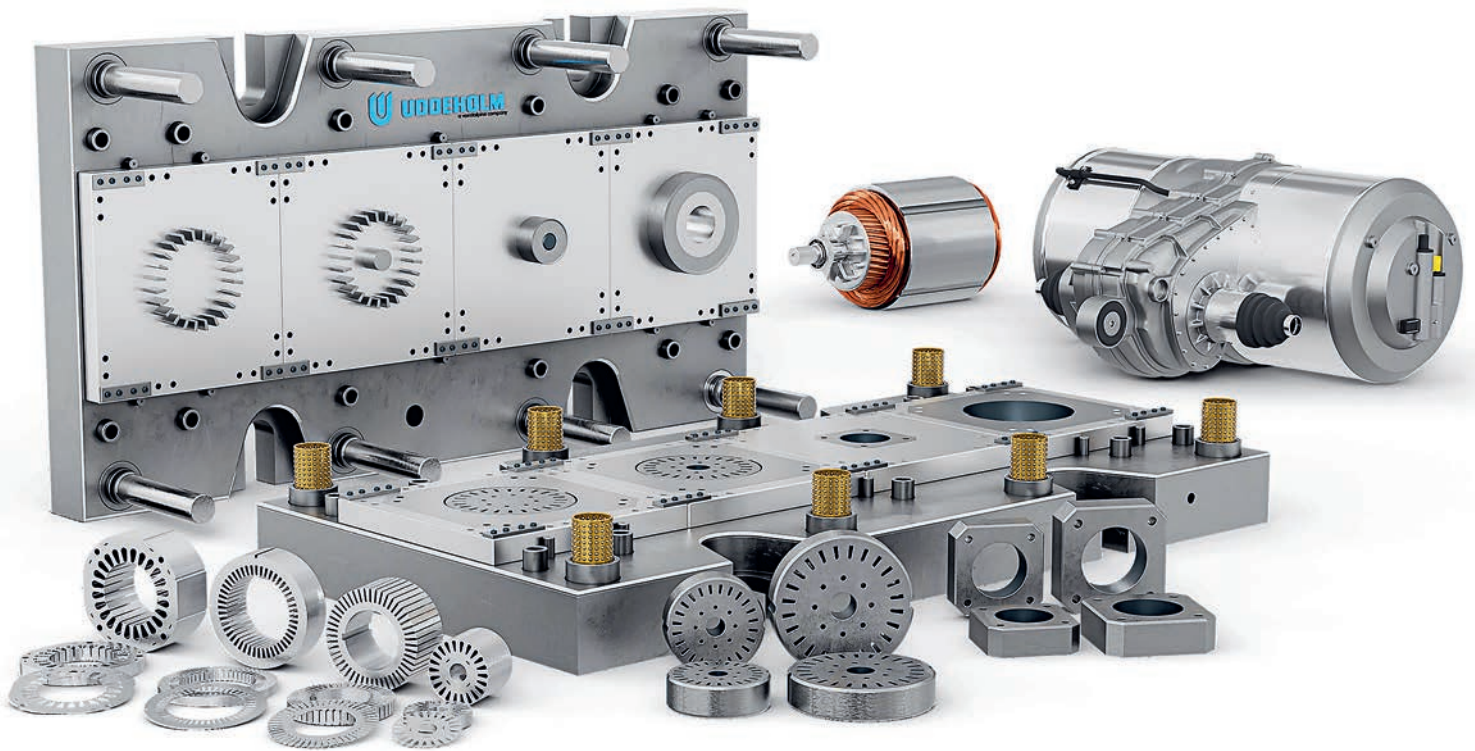


# A SUSTAINABLE TOMORROW, TODAY

Uddeholm Vanadis® 8 XL is strong and durable, but it's also a smart, sustainable choice. Longer tool life means fewer tool changes and less time spent on maintenance. This saves time, money and resources. What's more, it's cobalt-free, which helps reduce environmental impact. By using Uddeholm Vanadis® 8 XL, you are taking concrete steps towards a sustainable tomorrow, today.







# A NEW LEVEL OF PERFORMANCE

Uddeholm Vanadis® 8 XL is a unique cold work grade that is designed to withstand pure abrasive wear, making it an ideal steel grade for the most demanding cold work applications where abrasive wear is the dominating failure mechanism. Uddeholm Vanadis® 8 XL is specially developed for applications that require extreme wear resistance.

Carbides are the very hard particles in the steel that provide extra wear resistance and durability. In Uddeholm Vanadis® 8 XL, the

carbides are coarser, which gives you better performance and increases the life of the tools.

The longer tool life means fewer tool changes and less maintenance, saving time, costs, resources and it is also cobalt-free, which supports our customers' goals of reducing their environmental impact.

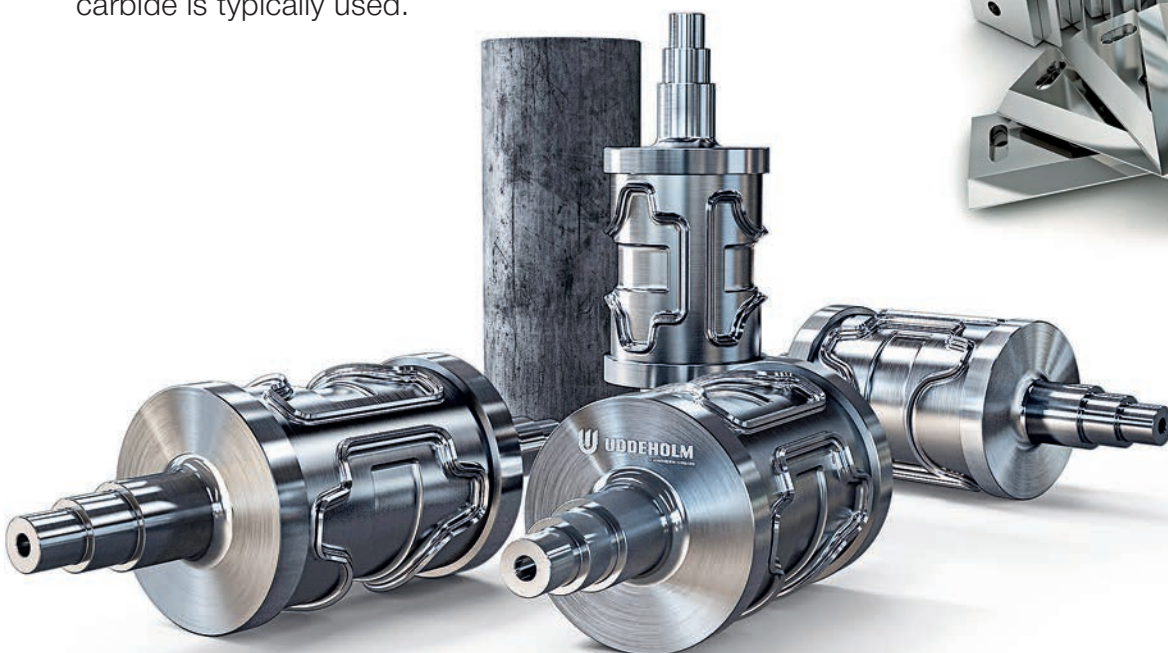
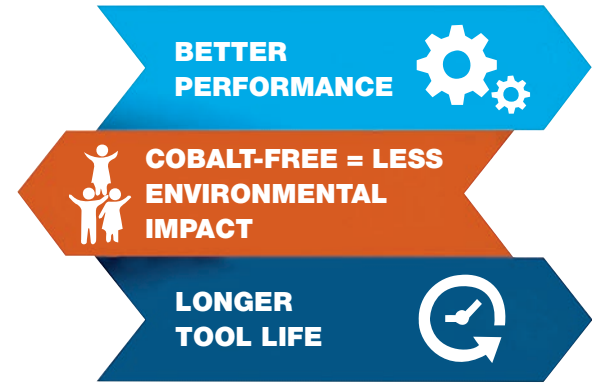
By offering Uddeholm Vanadis® 8 XL, we are taking concrete steps towards a sustainable future.

## APPLICATION

Uddeholm Vanadis® 8 XL is specifically developed for extremely demanding tool applications where abrasive wear is the primary challenge. Its exceptional wear resistance makes it an ideal substitute for hard metals, especially in applications involving highly abrasive working materials. Typical applications include:

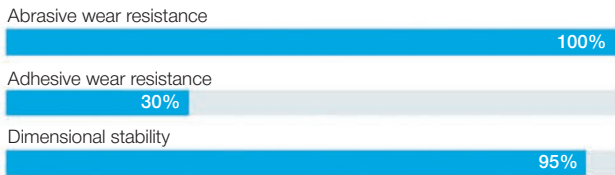
- Powder compaction
- Recycling knives
- Calibration rolls
- Cutting rolls
- Anvils roll
- Guide rolls
- Forming and punching of thinner abrasive sheets
- Blanking of electrical sheets
- Extruder screws and barrels

General applications where cemented carbide is typically used.

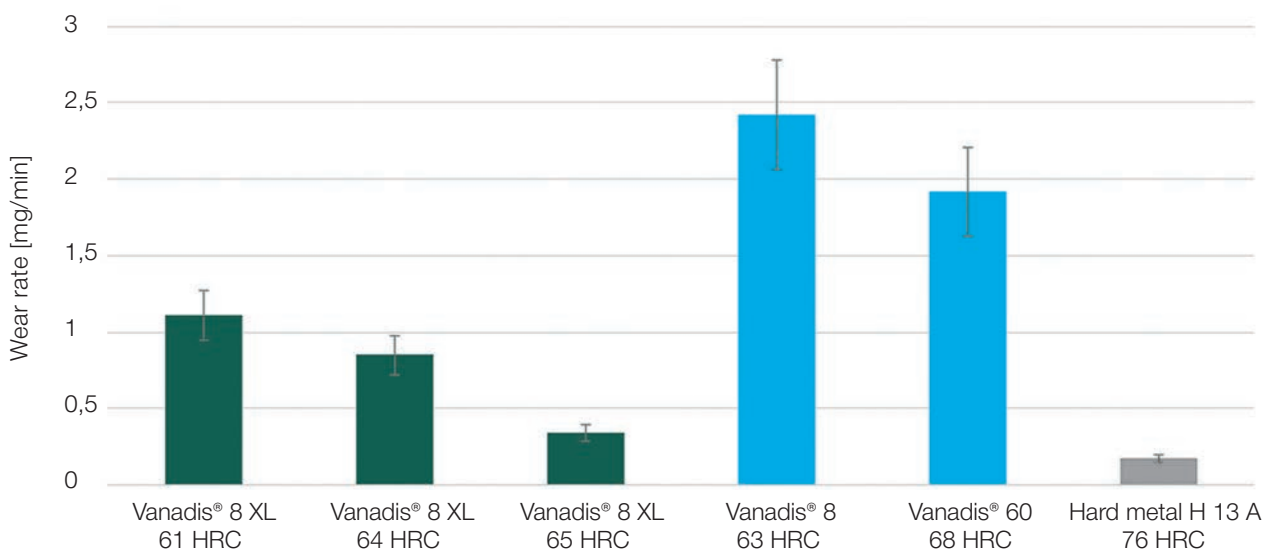
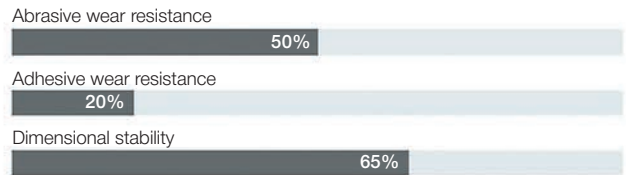


# TYPICAL ANALYSIS

## Uddeholm Vanadis® 8 XL



## Reference grade



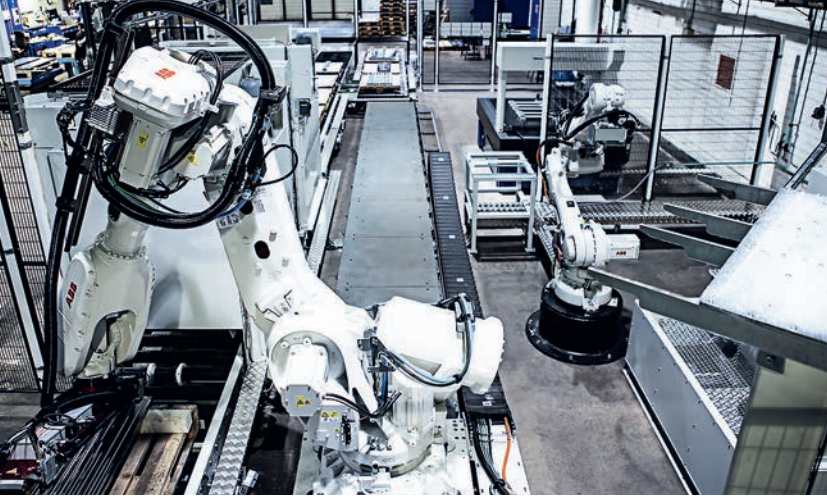
C	Si	Mn	Cr	Mo	V
2.3	0.4	0.4	4.8	3.6	8.0



# A UNIQUE PROCESS PATENT

Achieving the steel's properties required unprecedented innovation and a unique manufacturing process that sets a new global standard for pure wear resistance. Uddeholm has applied for and been granted a unique patent for the innovative manufacturing process.





# ENABLE YOUR COMPETITIVENESS

More and more tool users are choosing the exclusive range of Uddeholm tool steel. How do we do it? By putting your business needs first. We are the only tool steel supplier with dedicated international tool steel researchers, metallurgists, and product development teams.

Uddeholm provides you with proven and exclusive tool steel that increases your competitiveness in the markets in which you operate.

You can also enjoy customized sales and support services worldwide.



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This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as a warranty of specific properties of the products described or a warranty for fitness for a particular purpose.

Classified according to EU Directive 1999/45/EC  
For further information see our "Material Safety Data Sheets".

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Manufacturing solutions for generations to come

# SHAPING THE WORLD®

We are shaping the world together with the global manufacturing industry. Uddeholm manufactures steel that shapes products used in our every day life. We do it sustainably, fair to people and the environment. Enabling us to continue shaping the world  
– today and for generations to come.