

UDDEHOLM NIMAX



Even basic can be better.

Everyday life involves a lot of things we take for granted. From car parts to frequently used plastic accessories such as shampoo bottles, refrigerators, hair combs, buckets and many other kinds of products, all of which enhance and simplify our daily lives. All of these things could be manufactured using the new steel grade, Uddeholm Nimax.

Reliable and efficient tool steel is essential for good results. The same goes for achieving high productivity and high availability. When choosing the right steel many different parameters have to be considered, but by using a superior steel your productivity can be greatly improved. Uddeholm Nimax is the new basic tool steel from Uddeholm. With excellent machinability and very good polishability, you will spend less time on finishing your product. This makes it far easier to meet your deadlines. Try Uddeholm Nimax. Even basic can be better.

In any shape or form.



SUPERIOR MACHINABILITY

By using Uddeholm Nimax you will benefit from better machinability, thus giving you the advantage of shorter machining time. In turn this means that it will be easier for you to meet your customers' demands on delivery time. You will also benefit from lower cutting tool cost and increased availability in your machines.

INSTANT WELDING

– NO PREHEATING OR POST HEAT TREATMENT REQUIRED

Weld repairs, maintenance and design changes can be performed quicker, thus shortening the downtime during mould manufacturing and production. Using Uddeholm Nimax will greatly enhance your flexibility, and your production will run smoother and faster.

CONSISTENT TOOL PERFORMANCE

– LONGER TOOL LIFE

Uddeholm Nimax combines high hardness with high toughness. This leads to a mould with good resistance to indentations and a minimal risk of unexpected failures, thereby leading to a more reliable tool and a prolonged tool life.

REDUCE YOUR POLISHING COSTS

– ACHIEVE A BETTER SURFACE FINISH

With Uddeholm Nimax you acquire a steel with good structure and a low amount of inclusions. This means that you will spend considerably less time on achieving the desired surface finish.



Excellent machinability and high toughness also makes Uddeholm Nimax suitable as a holder material and for many engineering applications.



Uddeholm Nimax tool for producing a box for electrical switches.

“ We used to have to choose between the low strength and indentation resistance of standard W Nr 1.2738/P20 or the low machinability of W Nr 1.2738/P20 High Hard. Now when using Uddeholm Nimax we can offer our customers a steel with good indentation resistance and we, as a tool maker, can benefit from the good machinability. ”
 STEMA S.r.l, Italian tool maker



Box for electrical switch

“ With Uddeholm Nimax we can achieve good surface quality directly after machining. The critical geometry does not allow polishing after machining. In addition to this heat treatment is not needed, which means reduced cost and shorter lead times. ”

Ali Bayat, Tool Shop Manager at Farplas in Turkey



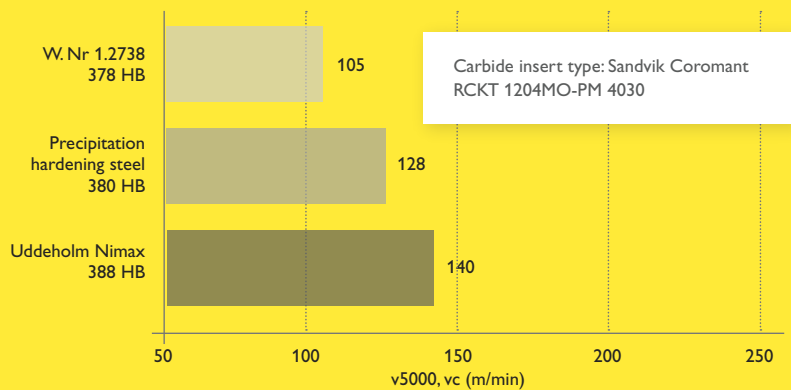
MACHINING OF UDDEHOLM NIMAX

In comparison with ordinary W. NR 1.2738/P20 plastic mould steel in the same hardness, Uddeholm Nimax has a significantly better machinability.

CAVITY MILLING WITH CARBIDE INSERTS

Figure 1: When cavity milling the cutting speed used to remove the same chip volume can be increased compared with competing materials.

Figure 1: Comparison – cutting speed for a tool life of 5,000 cm³ removed chip volume

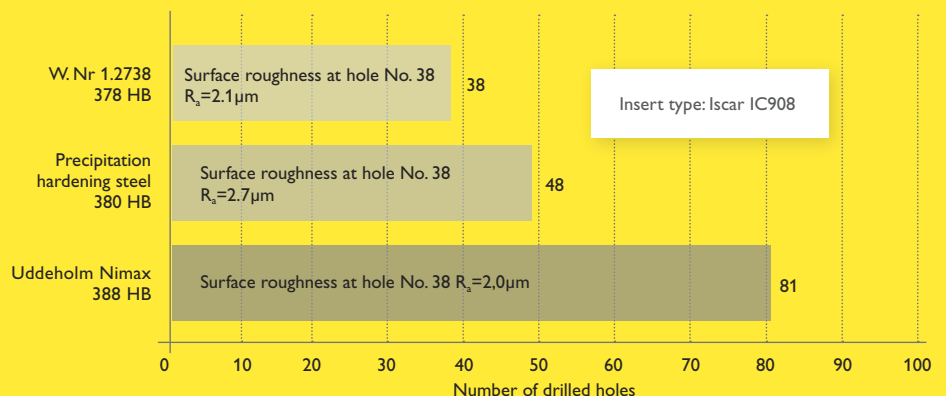


DRILLING WITH CARBIDE INSERT DRILLS



Figure 2: In this type of drilling operations Uddeholm Nimax has an improved drill life in comparison with other steel grades. The surface finish after 38 drilled holes was measured, and the results indicate that the surface finish is improved with Uddeholm Nimax.

Figure 2: Comparison – number of drilled holes until flank wear 0.15 mm



Uddeholm is the world's leading supplier of tooling materials. This is a position we have reached by improving our customers' everyday business. Long tradition combined with research and product development equips Uddeholm to solve any tooling problem that may arise. It is a challenging process, but the goal is clear – to be your number one partner and tool steel provider.

Our presence on every continent guarantees you the same high quality wherever you are. Assab is our wholly-owned subsidiary and exclusive sales channel, representing Uddeholm in various parts of the world. Together we secure our position as the world's leading supplier of tooling materials. We act worldwide, so there is always an Uddeholm or Assab representative close at hand to give local advice and support. For us it is all a matter of trust – in long-term partnerships as well as in developing new products. Trust is something you earn, every day.

For more information, please visit www.uddeholm.com or www.assab.com

