EVERY TIME A WINNER

UDDEHOLM VANCRON® 40
EVERY TIME A WINNER
Tool users want to keep production running while maintaining high product quality and keeping costs down. With fewer interruptions for tool adjustments the demands of the customers will surely be a lot easier to meet. The key to achieving this is the quality and properties of the tool.

Uddeholm Vancron 40 offers an excellent combination of galling resistance, adhesive wear resistance and low friction. This means that it is very suitable for coping with problems that might occur in powder compacting, cold extrusion, blanking and forming processes.

A tool manufactured in Uddeholm Vancron 40 keeps running long after its competitors have given in. And with the same high quality from the first part produced to the last. The fact is that after 18 million parts produced the tool was still running while the second best gave up just before 2 million.

All this together means that Uddeholm Vancron 40 gives you more advantages than coated cold work tool steel. And without taking the time and cost of surface-coating the tool. That makes Uddeholm Vancron 40 a winner, every time.

Every time a winner

The picture shows a pump component manufactured by Grundfos A/S in a tool made of Uddeholm Vancron 40.
18,000,000 pieces and still running
EXCELLENT SURFACE PROPERTIES, NO COATING NEEDED

In many cold work applications tools are surface-coated in order to prevent galling and adhesive wear. Uddeholm Vancron 40 is designed to be used without surface-coating, yet it offers an excellent combination of galling resistance and adhesive wear resistance.

LONG RUN PRODUCTIONS – MORE PARTS PRODUCED

The unique surface property profile is a result of years of testing, and finding a matrix containing a high amount of low friction vanadium nitrides giving superior performance. In tests Uddeholm Vancron 40 has proved to surpass coated tools over a long period of time.

LONGER TOOL LIFE – IMPROVED OVERALL ECONOMY

The reduction of tool failure due to galling and adhesive wear will vastly improve the tool life and reduce the cost per piece. In addition, production will run a lot smoother with fewer disturbances, and the production output will be higher.

Soft work material like aluminium and austenitic stainless steel as well as metal powder and high strength materials are all prone to sticking or cladding to the surface in many forming processes. Uddeholm Vancron 40 will contribute to fewer disturbances in many such cases.

HIGH QUALITY FROM THE FIRST PART PRODUCED TO THE LAST

As a result of longer tool life achieved by reducing galling and adhesive wear the surface quality of the manufactured parts will be improved. This means that the product quality will be uniform from the first part produced to the last.

RELIABILITY IN DELIVERY TIME

In a market situation where the product lifetime is shortened, it is of the utmost importance that the market window is hit and the delivery time met. A well controlled production process is necessary in order to achieve this. A tool manufactured in Uddeholm Vancron 40 will make it easier for you to keep your promises of delivery time.
At the technical centre at Grundfos we are always interested in performing production tests with new tooling materials, to improve tool life as well as the quality of different pump components. In order to secure a true evaluation we have a standardized process and tooling platform in which all process data are known. We have used a part for a pump housing to evaluate a process and corresponding tooling. Uddeholm Vancron 40 has shown very positive results.

Erik Madsen, Senior Consultant, Grundfos A/S, Bjerringsbro, Denmark.
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, www.assab.com or your local website.