Timeless possibilities assab solutions for fine blanking





RELIABLE SOLUTIONS – OVER TIME

Fine blanking technology was initially used mainly in the watch and clock industry but nowadays more than 60% of fine blanked parts are used in the automotive industry. In a car there is a guarantee that the safety belt, brake system or airbag is working properly. Consequently, fine blanked parts play a major role for the safety in our daily lives.

The demands on the tool steel are enormous and often close to its limits. In order to choose the optimal solution for a fine blanked part, you will need a toolmaker with specialist expertise and long experience.

Complicated parts with extreme demands on precision entail big challenges. The smallest disturbance can bring production to a halt. In short, nothing must go wrong.

GET IT ALL FROM ASSAB

We will help you through the whole production chain with tool steel supply, technical support, heat and surface treatment. Uddeholm and ASSAB's global presence puts us in a unique position close to you. This enables us to help you make your production easier and to improve your total tooling economy. Choosing ASSAB as your partner is a guarantee for finding the best solution for your fine blanking application. You will have a safe journey – all the way.







SEAT RECLINER*

SEAT HEAD REST*







GEAR SET OIL PUMP

The most striking feature of fine blanking is the smoothly cut edges and the higher precision of the finished part. The advantage is that the part can fulfil its functions directly without any additional finishing, which is not the case with normally stamped parts. In order to obtain the quality and precision of the fine blanked part, using a high performance tooling material is crucial as the tool is very complex with high precision and often PVD coated. Due to the often large investment in tooling and surface coating, there is no room for compromises when it comes to the selection of tool steel.

Choosing the right steel reduces your maintenance cost. A more predictable tooling performance allows you to plan your maintenance and avoid unplanned stops. Less down time means higher productivity.



Choosing the right steel

ASSAB 88

A universal tool steel that is a low cost upgrade of the traditional AISI D2/W.-Nr. 1.2379. With higher chipping resistance, compressive strength and dimensional stability it is a good option for less demanding fine blanking parts.

CALDIE

Has an excellent combination of chipping resistance and compressive strength. With very good dimensional stability it is also a perfect substrate for surface coatings. This means that Caldie is a very useful and cost effective option for fine blanking of complex parts, provided the hardness requirement is moderate.

VANADIS 4 EXTRA SUPERCLEAN

A well-balanced combination of properties with excellent chipping resistance and dimensional stability, together with good wear resistance and compressive strength. This makes it our best grade for most fine blanking applications.

ASSAB PM 30 SUPERCLEAN

Good chipping and wear resistance combined with a very good compressive strength for applications requiring a hardness above 64 HRC.

VANADIS 8 SUPERCLEAN

Combines one of the highest wear resistances on the market with good chipping resistance and compressive strength.

ASSAB PM 60 SUPERCLEAN

Almost equal to Vanadis 10 SuperClean when it comes to the highest wear resistance. In addition ASSAB PM 60 SuperClean offers moderate chipping resistance but also the best compressive strength, as it can reach a hardness of up to 70 HRC.

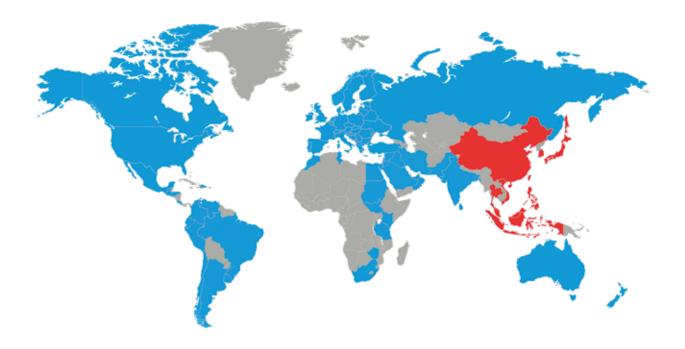








Your Challenge	Abrasive Wear	Adhesive Wear/Galling	Plastic Deformation	Chipping
Our Best	VANADIS 8	VANADIS 4 EXTRA	ASSAB PM 60	CALDIE
Solution	SUPERCLEAN	SUPERCLEAN	SUPERCLEAN	
Our	ASSAB PM 30	VANADIS 8	ASSAB PM 30	VANADIS 4 EXTRA
Alternative	SUPERCLEAN	SUPERCLEAN	SUPERCLEAN	SUPERCLEAN
Solutions	VANADIS 4 EXTRA	ASSAB PM 30	VANADIS 8	VANADIS 8
	SUPERCLEAN ASSAB 88	SUPERCLEAN CALDIE	SUPERCLEAN VANADIS 4 EXTRA SUPERCLEAN	SUPERCLEAN ASSAB PM 30 SUPERCLEAN



Choosing the right steel is of vital importance. ASSAB engineers and metallurgists are always ready to assist you in your choice of the optimum steel grade and the best treatment for each application. ASSAB not only supplies steel products with superior quality, we offer state-of-the-art machining, heat treatment and surface treatment services to enhance steel properties to meet your requirement in the shortest lead time. Using a holistic approach as a one-stop solution provider, we are more than just another tool steel supplier.

ASSAB and Uddeholm are present on every continent. This ensures you that high quality tool steel and local support are available wherever you are. Together we secure our position as the world's leading supplier of tooling materials.

For more information, please visit www.assab.com





