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Powerful and efficient

Solid carbide tools in metal working - every metal cutting application requires an ever more complex machining process and an increasingly difficult choice of materials to achieve the best results. However, without the right tools, you will quickly run up against obstacles

Solid carbide tools prove their efficiency in such cases time and time again. Nevertheless, it is essential here to use tools that are precisely adapted to the process, the material and the batch size. If you rely on a supplier who has extensive application experience, a wide range of products and provides expert advice, he will maximise the benefits for you and certainly reduce the size of your investment.

The efficiency of solid carbide tools has long been proven. Their wear resistance and the consistent quality of machining results are impressive for producing large batches. This allows users to quickly achieve economic results in their production and they outweigh the higher prices of the tools. Nevertheless, production managers should not blindly rely on solid carbide tools in the hope of having a universal all-round tool. This is because developments in solid carbide technology mean that it is now possible to produce a wide range of tools for different purposes.

Many details are important for solid carbide tools

Once you select the right material with the right coating, the expertise of the tool manufacturer then has a decisive impact on the quality of the tool. For example, a supplier must know exactly what grain and which grinding finish are the right ones to use with steel, hardened steel, cast material,



aluminium, non-ferrous metals or exotic materials such as titanium, Inconel or Hastelloy. Other factors to consider are whether the process requires roughing, finishing, dry or wet machining, HSC machining, what are the cutting depths, the helical pitch and so on.

With so many vital details, it quickly becomes obvious that there is no such thing as a universal all-round tool for all processes and materials. Trustworthy suppliers should therefore offer a wide range of products. Arno Werkzeuge is a supplier that takes this complexity in production together with the

plethora of possibilities very seriously. It has extensive knowledge of materials, numerous applications and enormous expertise. The family-owned company offers a wide range of solid carbide tools for a variety of applications as well as specific requirements.

Suppliers with a wealth of experience and a wide product range have the leading edge

“Thanks to the relationships we have built up with our customers over many years, we have amassed a large pool of application knowledge. This is why our expertise allows us to offer exactly the right solid carbide tools for a wide range of machining processes and materials,” says product manager Marco Staiger from Arno Werkzeuge. You realise this straight away when you browse through the 400-page catalogue of solid carbide milling cutters, drills and thread-milling tools. But if you are then put off in your search for the right tool, Marco Staiger reassures you by emphasising: “Our application consultants will help you select the right solid carbide tools quickly and competently.”

Of course, the range also includes tools for general applications that cover a specific universal range. For many users, the Arno-FP milling cutter is an ideal entry-level tool that covers a wide range of metal-cutting operations on steel, stainless steel and cast materials. The universal milling cutter made of powder metal HSS steel is TiAlN-coated, extremely tough and wear-resistant. This ensures a longer tool life and maximum cutting performance. The AF solid carbide milling cutter is also suitable for general machining applications including steel and cast materials. It is just as suitable for wet and dry machining as it is for conventional or high-speed milling.

Customers appreciate the diversity of the range of solid carbide tools from Arno Werkzeuge. Many customers recognise they can achieve tight tolerances using the fully ground, high-precision tools that are also extremely sturdy and sharp.

ARNO (UK) Ltd
Tel: 01785 850072
www.arno.de

