# PCD / CW OUTILS SP.

## JONE PRECISION

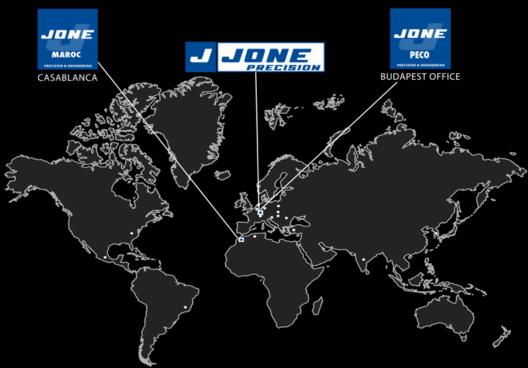






Sharp tools. sharp ideas





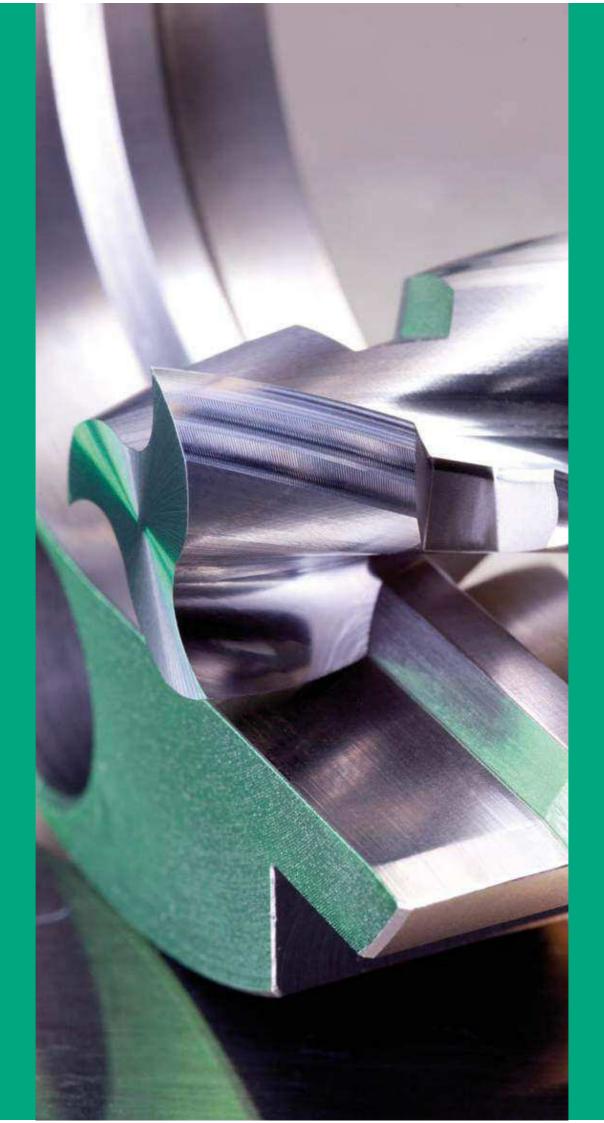
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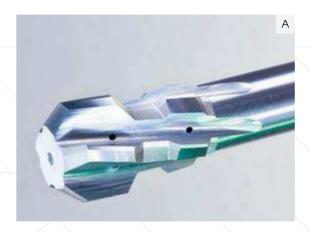


Sharp tools. sharp ideas

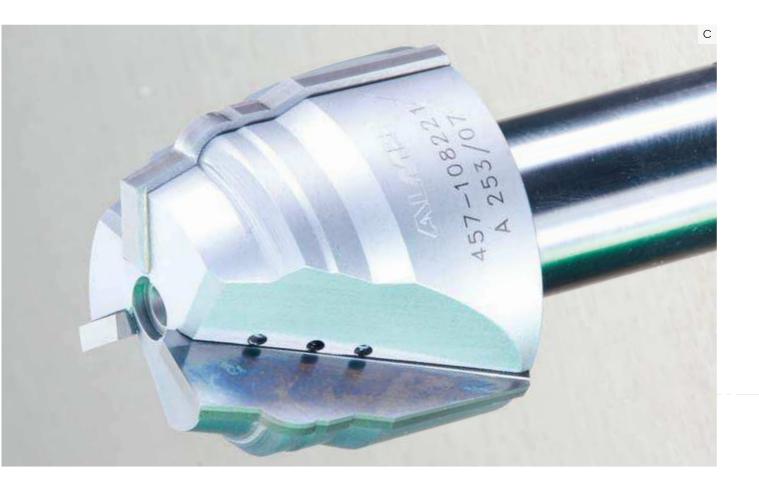




PRAZISIONS
PCD TOOLS
WERKZEUGE
PCD MONOBLOC









#### SOLID CARBIDE TOOLS

Modern solid carbide tools' specifications in serial production are manifold. Processing cast and aluminum components presents lots of technological possibilities.

To be able to offer tools made exactly for the individual manufacturing process, you not only need technological competence, but also great creativity. That often ends up in creating entirely

new tool shapes, which excel in productivity and costeffectiveness.

ALMÜ's solid carbide tools stand out due to polished chipping spaces, individual cutter designs, precisely polished sections, and many other details. All that ensures that your finished workpieces will have exactly the surfaces you want them to. Our extended services also

provides you with exact data for the chipping parameters - of course, customized for the respective CNC machining center.

On request, we provide you with the milling data, the machining strategy, and the programming data in ISO code.

Our resharpening service uses the original production program to ensure the highest profile accuracy.

#### PCD TOOLS

Tools with polycrystalline diamonds as cutters have long become a success story in the metal industry, and nobody can live without them. After all, PCD tools offer an outstanding service life, and have thus become state of the art in cost-effective production processes of complex components.

Our longstanding customers are well aware of our competence when it comes to handling PCD.

Our aim and our motivation is to merge several machining tasks into just one single tool. The result is obvious: just take a close look at the excellent results of our innovative work. We know a lot about what it means to reduce nonproductive time caused by frequent tool changes. This is exactly what we take into account – and therefore, ALMÜ has created tool concepts that are absolutely unique.









#### PCD MONOBLOC TOOLS

Monobloc-designed PCD tools are perfect thanks to their running smoothness and their exact rotation. These advantages are reached by the stiffness of the tool design.

ALMÜ's specially designed tools always fit like a tailor-made suit. Of course, our technological expertise and advice play an important role – from planning to production.

For our customers, handling monobloc tools is incredibly simple, as you don't have to adjust the cutters manually. The machining conditions such as spindle and tool tension always have to be taken into account. As we produce individual tools for your individual machining station, we can, of course, provide you with all the necessary cutting parameters. Thus, our customers always end up with perfect solutions.







DRILLING/COUNTERBORING

## PRÄZISIONS

WITH INTERCHANGEABLE PLATES

### WERKZEUGE

HSC FLEX CUTTER







- A // Standard drilling/counterboring combination B // Axially adjustable countersink cutter
- with ALMÜ-Flex system

  C // A tool for processing the hydraulic connections of a car steering



Special machining situations require individual solutions. That can save costs and ensures that time targets are observed – that is our understanding of efficiency. The drilling/counterboring combination is a modular tool system, and is most often used when using a solid carbide tool is not economical. Such tools are preferred for processes when, for instance, the aim is to deal with vast differences in diameters. Its major trump is that at least two functional surfaces can be created in one go. That means saving valuable time, as well as conspicuous quality improvements.

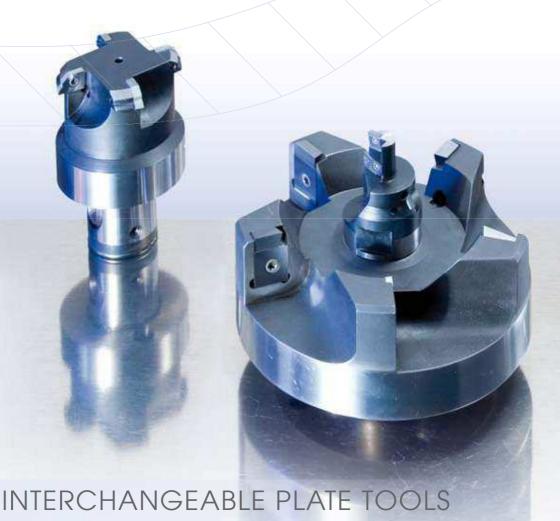
With our ALMÜ-Flex system, the cutters of the central tool can be adjusted in respect to each other. Apart from well-established coatings, you can also order our PCDequipped plates.







- A // A circular milling tool with PCD-equipped interchangeable plate
- B // A diagonally adjustable cutter with the ALMÜ-Flex system
- C // Preparation for a car's connecting rod, small eye



Interchangeable plate tools are – along with PCD monobloc tools – a great technological and economic alternative.

Thanks to the ALMÜ-Flex system, the PCD-equipped interchangeable plates can by adjusted to the latest  $\mu m$ . Fittings from the world of IT6 with a CpK value of 1.66

are no problem at all. Moreover, the interchangeable plates can be resharpened, and just be used again. The costs of logistics, as well as the cost per cutter use can thus be reduced to a minimum.

Apart from using them in processing aluminum and light metal, we also prefer inter-



- A // A tangential cutter head, Ø 40, with four axially adjustable PCD cutters
  B // An HSC-Flex cutter with radially assembled pcd inserts and ABS® interface (License by KOMET®).





#### HSC-FLEX-CUTTER

If you expect more than others when it comes to surfaces of workpieces, you need a tool system that allows you to adjust the cutters rapidly and easily. With the ALMÜ-Flex system, we have found an easy solution, just by turning a screw. We don't promise too much when we claim that the cut-

ters can be adjusted within minutes. Our HSC-Flex cutter actually match up with all your expectations when it comes to face milling. The variable number of cutters stands for the highest efficiency of your milling processes. The robust and rather basic design of the tool makes it possible to rapidly adjust the

cutters – all far from complicated. Thanks to its higher grinding volume, combined with higher feeding rates and reduced cutting forces, the HSC-Flex cutter offers great potential in profitability.

