

# PCD & Solid Carbide Tools for Metalworking





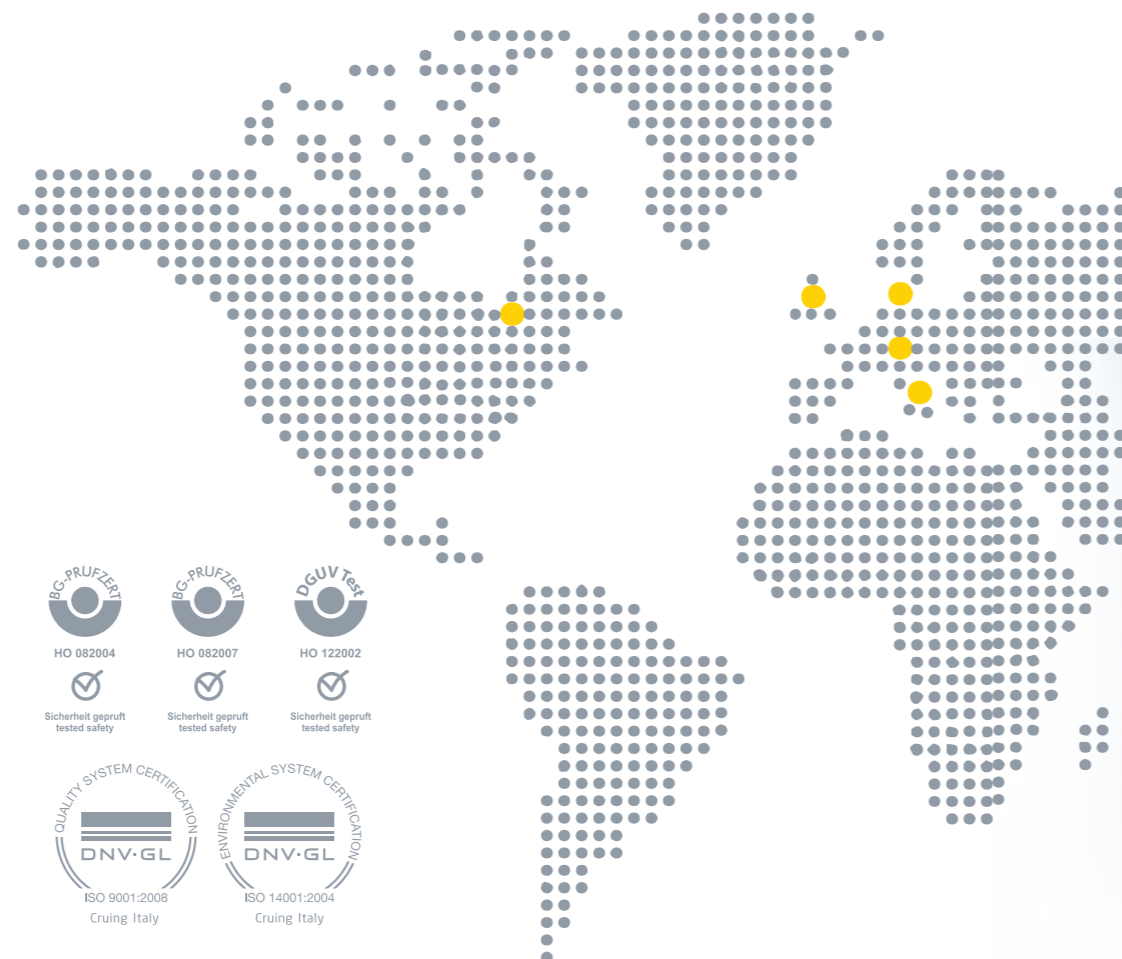
# PCD & SOLID CARBIDE TOOLS FOR THE AUTOMOTIVE AND METALWORKING INDUSTRIES

## OUR EXPERIENCE TO OFFER ADVANCED SOLUTIONS

With more than 50 years' experience, Cruing provides and suggests the latest solutions in metals and composite machining and offers a wide range of PCD and Solid Carbide drills and cutters tailored to specific customer needs.



Production plants and R&D facilities in Europe and North America enable Cruing to supply tested and award winning products worldwide.



Cruing is one of the most important groups for diamond cutting tools and works closely with many of the world's leading aerospace and automotive manufacturers and F1 racing teams.

“ QUALIFIED BY LEADING AUTOMOTIVE & AERONAUTICAL OEMs ”



# PCD TOOLS FOR METALWORKING

Cruing's programme of PCD cutting tools for metalworking consists of customized precision **drills, reamers, end mills, ball nose, face and circular milling cutters**, designed for high-performance machining.



**Customized PCD cutting solutions** are the first choice to machine reliably and cost-effectively large quantities of aluminium, non-ferrous metals, plastics and CFRP parts. The **hardness** and **wear resistance** of the polycrystalline diamond cutting edge ensure low forces on shearing off the chip and reduce the heat during cutting operations. This grants to the customers **high machining quality, optimal process reliability** and **outstanding productivity**.

Any cutting edge geometry, with **tolerances from  $\leq 3 \mu\text{m}$**  on the tool diameter, can be achieved in order to offer the optimal tool to satisfy the customer's requirements, ensuring an **optimized chip removal** and the **highest radial run-out accuracy**.

# SOLID CARBIDE TOOLS FOR METALWORKING

A global leader for **highly engineered metalworking tools**, Cruing offers a comprehensive range of custom Solid Carbide tools for **drilling, milling, threading, reaming, turning and countersinking**.



## CUSTOM-MADE SOLUTIONS FOR COMPLEX OPERATIONS

With its vast know-how in metal machining, Cruing is your competent and reliable partner when you need extremely **efficient machining, short delivery times** and **cost-effective solutions**. Manufactured from high grade micrograin tungsten carbide, and selected high quality coatings, Cruing's solid carbide tools provide high cutting speeds and consistently good hole quality, with reduced cutting forces and a consequently excellent tool life.

Complex machining operations, with very high demands on the **geometrical and dimensional accuracy of the bore and the surface finish**, are today common in the Automotive, Metalworking and Aerospace industries. Custom-made solutions, specifically tailored to the related machining tasks, will allow to increase efficiency reducing operations, tool changes and downtimes.





## Tool Management

It informs the customer of the number of tools which have been purchased from Cruing, displaying both their codes and serial numbers. In this way **it is possible to check which tools have received their regrinding service**, the number of regrinds performed as well as those still to be performed.

Data Matrix codes are part of the traceability process of Cruing tools and they can be read downloading the app on a smartphone. The Cruing codes IDS (for standard tools) or IDC (for customized tools) are engraved by laser onto tools and printed on the packaging label for easy scanning through the use of smartphones or tablets.



It also provides information about the substitution of plates, organize the replacement of perished tools, and **optimise the tooling budgets of companies**. Information is conveniently **available 24 hours a day**.



## Price Maker

**Personalized products are increasingly important** in today's market. Customers require products which adapt best to the characteristics of their own production system. This leads to an expansion of the range of cutting tools, and to a more complex management of the design, production and marketing phases within the company.



The Price Maker software can simulate the functioning of an expert system, giving **information about whether the tool is feasible or not**, and **evaluating the savings** which can be obtained when producing in large lots.





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