



topuz

PCD TOOLING

2024



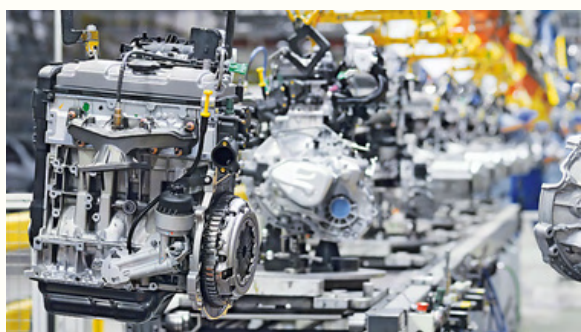
With over 40 years of experience, our company has earned a reputable position as a trusted partner in the machining and cutting tool industry in Türkiye. The foundation of our success lies in our strong partnerships with our clients and the industry-leading solutions we provide.

We closely follow developments in the metalworking, woodworking, and aerospace-defense sectors, integrating the latest technologies into our products. By prioritizing both quality and innovation in cutting tool production, we deliver tailored solutions that meet the specific needs of our customers. We remain committed to strengthening our leadership position in the industry and providing the best service to our clients.



Sharp steps with cutting solutions

As TOPUZ, we produce 90% of our cutting tools as custom, 'tailor-made' solutions for our clients. By utilizing state-of-the-art machinery and innovative approaches, we ensure precision in production and, through our close relationships with customers, provide solutions even for the most challenging operations.





BENEFITS OF PCD TOOLING

- reduced machining time
- improved surface quality
- longer tool life
- consistent product quality
- accurate&precise finishing operations



PCD Custom Tools

Topuz helps its customers optimize production processes and reduce costs by offering tailored solutions. Our cutting tools, known for their long-lasting precision and high dimensional accuracy, ensure efficiency and lower costs during production. Whether in solid carbide or PCD special tools, we provide the best milling, turning, or drilling solutions.

By maintaining effective communication with our clients, we guarantee optimal machining throughout the entire usage period, giving you a competitive edge. Together, we work towards your success with an economically and future-oriented approach.





Lasered edge for high-performance use

Concentricity is important. Balancing bores. Balancing is necessary to achieve this concentricity and are important for many factors such as tool life and surface quality.

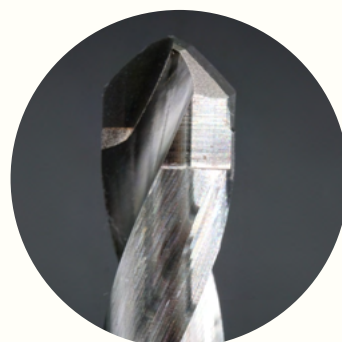
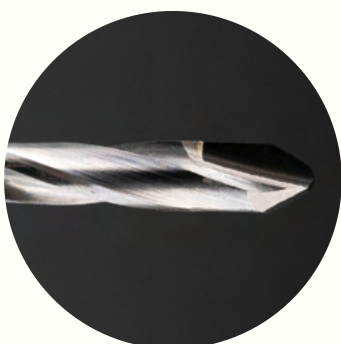


Aviation Solutions

-Countersinks: PCD countersinks are precision cutting tools that perform exceptionally well, especially when working with composite materials in the aerospace industry. With high wear resistance, diamond tips are used to create smooth chamfers around holes, often in airframe assembly for riveting connections. These cutting tools ensure flawless edge quality on materials like CFRP and GFRP, and their ability to be re-sharpened makes them a long-lasting and cost-effective solutions.

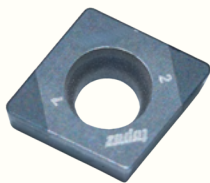


-Drills: PCD drills are high-precision tools used primarily in the aerospace and automotive industries for machining composite materials. They provide exceptional durability when working with abrasive materials like CFRP and aluminum, minimizing issues such as delamination and fiber pullout. These drills offer cost-effective solutions in high-volume production due to their long lifespan and re-sharpening capabilities. Their performance and reliability make them ideal for demanding conditions, ensuring consistent and precise results.

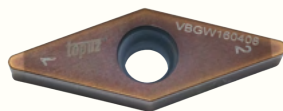


PCD–PcBN Inserts

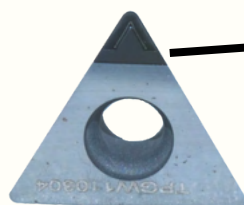
As Topuz, we not only make standard indexable inserts but also special ones. We use laser technology and then process with diamond grinding wheels after brazing. These operations are carried out on special grinding machines with fully automated which allows creating required geometry of the cutting edges. PCD/PCBN indexable inserts are highly wear-resistant, offering long tool life and efficient cutting even for tough materials. PCD inserts are designed for turning high-silicon aluminum, carbon fiber, glass fiber, and abrasive plastics, providing exceptional performance and surface finish. These tools ensure high metal removal rates and consistent quality, enhancing productivity with their durability and sharp cutting edges.



-Double Edge CCGW060204 PcBN Insert



-Double Edge VBGW160408 PcBN Insert



-TPGW110304 PCD Insert



Laser ChipBreaker Technology



Topuz İmalat San. Tic. Ltd.

Topuz Cutting Tools

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