



CAM-TOOL

CAD/CAM System for Molds & Dies

www.camtool.com

Custom Mold & Design :

- Over 55 years of building high-quality molds for demanding needs
- Commitment to delivering highest performing molds through investments in equipment, CAD/CAM software, cutting tools, and skilled staff to bring all the pieces together

www.custommold.net





Custom Mold & Design :

- Custom Mold & Design (CMD) located in Forest Lake, Minnesota, and has established itself as a leading provider of high-quality molds.
- The company specializes in a wide range of mold types, including two-shot molds, liquid silicone rubber molds, metal injection molds, full interchangeability, insert molds, high cavitation tools, and more.

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Commitment to Quality:

- CMD's commitment to delivering the highest quality molds is evident in its investment in state-of-the-art equipment and cutting-edge technology.
- The company currently operates 10 Yasda machining centers, which serve as a testament to CMD's dedication to excellence.
- By continuously upgrading its equipment and facilities, CMD ensures that it can meet the evolving demands of the mold manufacturing industry.

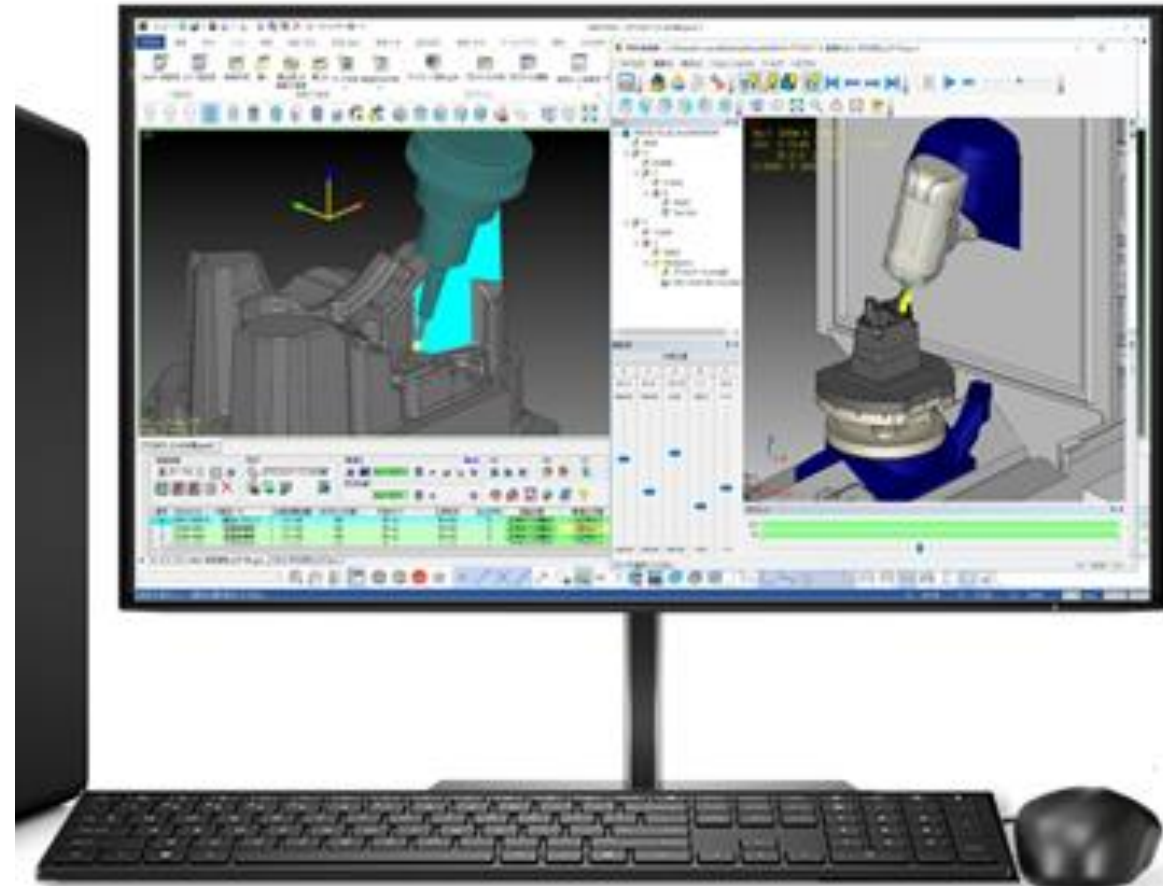


Advanced CAD/CAM Software Integration:

- CMD recognizes the importance of leveraging advanced CAD/CAM software to streamline its mold manufacturing process.
- Since 2006, CMD has been utilizing CAM-TOOL CAD/CAM software, which has played a crucial role in optimizing their Hardmilling operations. They now have 9 seats of CAM-TOOL.
- By leveraging CAM-TOOL's advanced capabilities, Custom Mold & Design has achieved outstanding results in machining hardened steels, reducing production time, and delivering world-class molds to their valued customers.
- Custom Mold & Design values the support they receive from CAM-TOOL staff, which is consistently reliable and responsive allowing them to push the limits of machining.

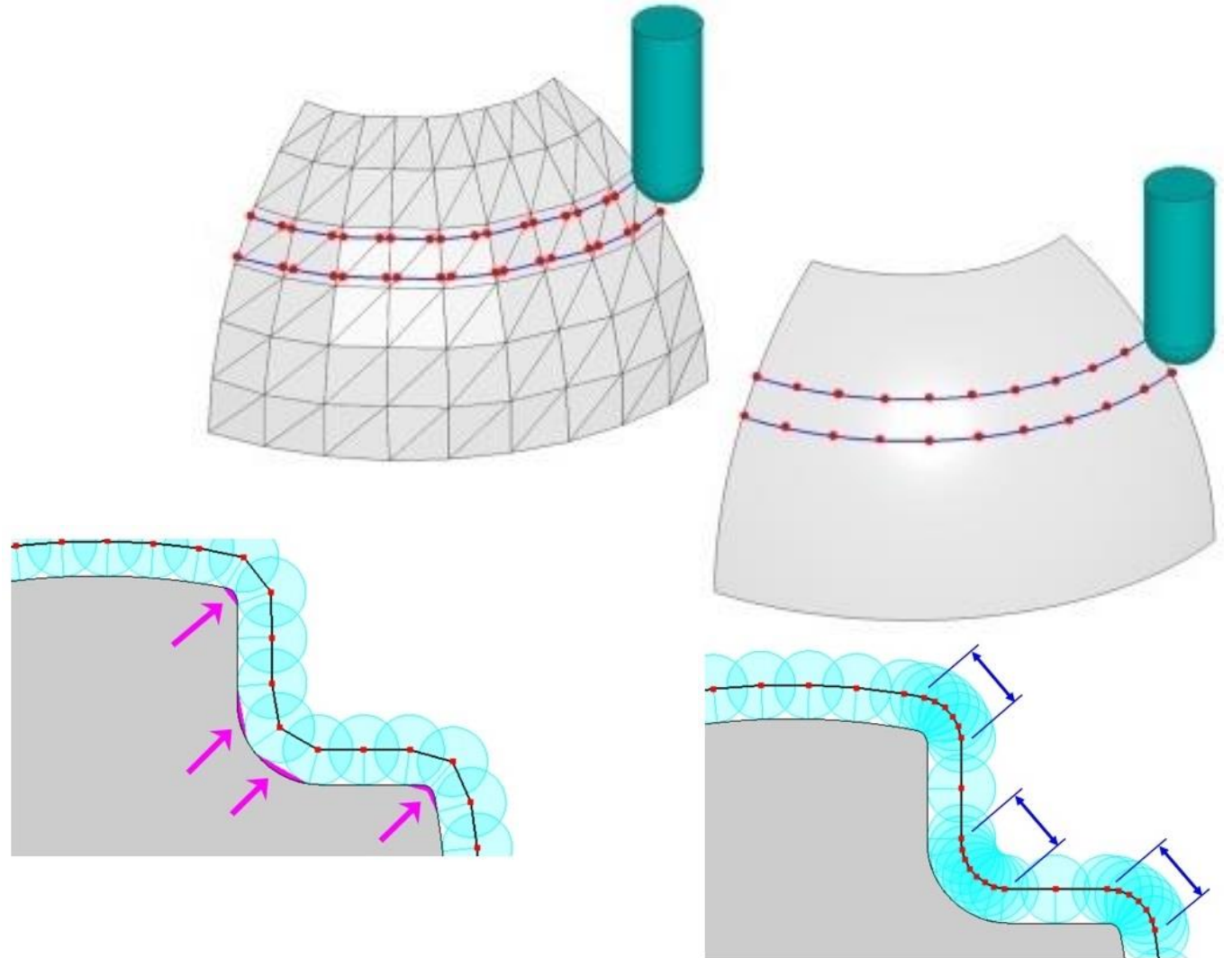
Versatility and Control with CAM-TOOL:

- One of the key advantages of CAM-TOOL CAD/CAM software is its ability to provide CMD with a wide variety of toolpath options.
- This versatility allows CMD's programmers and machinists to have maximum control over the machining process.
- By selecting the appropriate toolpaths, with high accuracy surface calculation, CMD can efficiently machine complex features, reduce spotting and polishing time, and enhance overall mold quality.



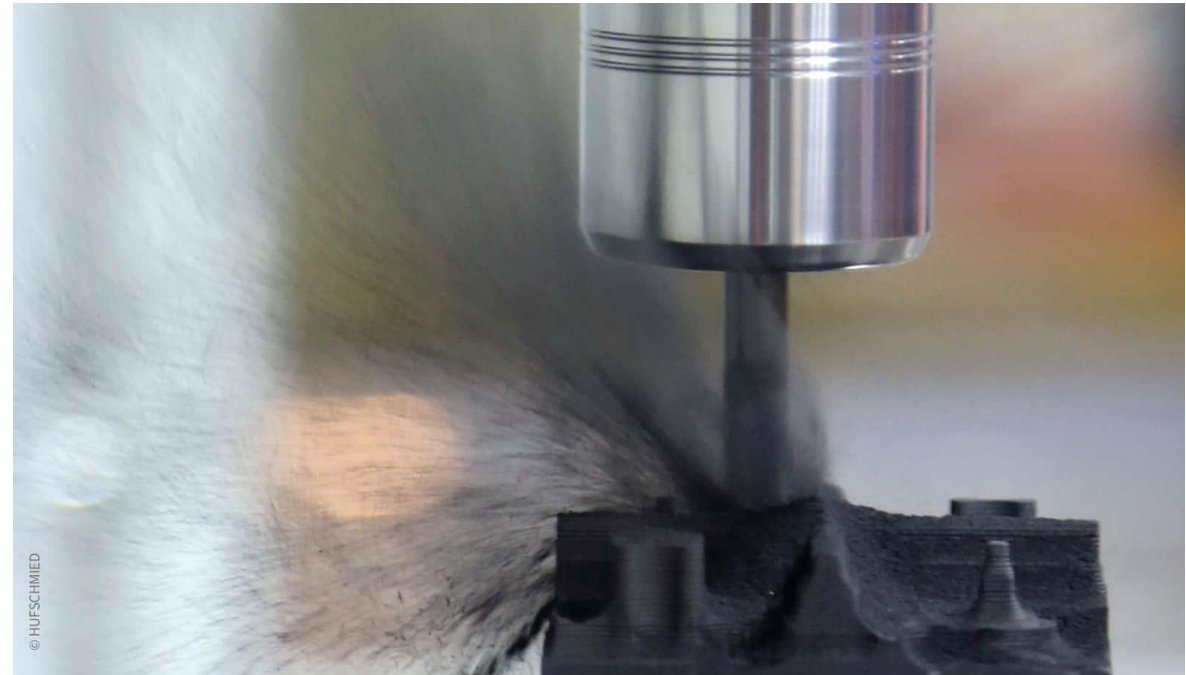
CAM-TOOL and Custom Mold & Design's Success:

- The partnership between CMD and CAM-TOOL CAD/CAM software has significantly contributed to the success of CMD's mold manufacturing process.
- CAM-TOOL's unique capabilities, such as generating points directly on surfaces, have provided CMD with unparalleled accuracy in toolpath creation.
- This increased accuracy has allowed CMD to excel in machining hardened materials, utilize smaller tools, and achieve superior surface finishes.



Machining Graphite Electrodes :

- Custom Mold & Design utilizes CAM-TOOL, not just for Hardmilling, but also in their graphite department with a 5-axis linear motor Yasda machining center equipped with dielectric fluid to cut electrodes.
- Benefits of this system:
 - 5-axis allows shorter cutters which reduce vibration, increase accuracy, and enable faster feeds.
 - More intricate detail can be achieved on each electrode.
 - 2X longer cutter life with dielectric fluid flush system compared to dry cutting with vacuum.
 - Improved blends between cutters and accurate surfaces without sanding or polishing.



Validation from Customers:

- CMD's commitment to delivering exceptional molds has been recognized and validated by its customers.
- Through rigorous inspection processes and feedback from clients, CMD consistently receives high praise for the quality of their molds.
- In fact, some customers have adopted CT Scanning technology to inspect CMD's molds and have consistently found them to be superior to those from other suppliers.



Global Interchangeability and Precision:

- CMD's molds are trusted and recognized globally for their precision and interchangeability.
- Customers who run identical molds in different locations have validated that complex components can be seamlessly shipped, placed in another mold, and run successfully without requiring fitting or adjustments.
- This level of precision and consistency is a testament to CMD's expertise and the effectiveness of their mold manufacturing process.
- Business growth in LSR and MIM tooling due to accuracy in machined shutoffs



Continuous Improvement and Future Outlook:

- CMD remains committed to continuous improvement and innovation in mold manufacturing.
- The company actively explores new technologies, techniques, and collaborations to further enhance their capabilities.
- By embracing advancements in CAD/CAM software, like CAM-TOOL, CMD is poised to continue delivering world-class molds to its customers.



Conclusion:

- Custom Mold & Design's longstanding reputation for delivering high-quality molds
- The integration of CAM-TOOL CAD/CAM software as a key factor in their success
- Continuous investment in advanced equipment, cutting-edge technology, and skilled staff



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