

To The Press

Mar 6, 2023

C&G SYSTEMS INC.

Optimized Path Creation for Large Mold Parts

In April, our company (President: Seiichi Shiota) will release "V19.1", the new version (Hereafter "this version") of CAM-TOOL which is the CAD/CAM system corresponded to 5-axis machining center for molds & dies.

To this version, we have newly added "Tool shape fillet" (this version) to improve the machining efficiency of large mold parts.

The conventional version can also create paths by internally processing fillets for tool shapes in order to avoid the contact between tools at corner or other contact points; but the process is sometimes inefficient as it takes much time to do calculations in large parts processing. To solve this problem, this function has made it possible to save a fillet of a tool shape (ball or radius) from the tool information as a 3D figure in a layer and reuse it as a different processing. As it can designate the optimal profile



Creation Image of Tool Shape Fillet

(process setting data) to the created fillet, the number of work man-hours of operators will be reduced and the calculation time be shortened, which leads to a significant improvement of the creation efficiency of paths, particularly for large mold parts.

Model Change Part Specifying Function

To visualize the changed points of a 3D model, the "extract model change part" command (this function) has been added.

Until now, in the event of a design change, operators had to visually identify the changed points putting two models on top of each other. However, with this function, it is possible to extract changed points automatically from the standard shape and the changed shape, realizing the easy visualization of the design change points. It also greatly improves the visibility and the workability in uneven areas with the ability to define the machining and create paths there.



Extraction Image of Model Change Part





Tool Contact Point CL Display Function

Currently, the confirmation of a processing area is done by displaying the information of tool locations (cutter location: CL) like "tool center" or "tool tip"; but there are cases where it is difficult to confirm the absence of uncut parts left by CAM when cutting the adjacent processing areas with tools of different diameters or types. To solve this problem, the CL display by "tool contact point CL" (this function) has been realized and it improves the reproducibility of the display of a process area even with the use of different types of tools like a barrel and a lens.



Image of Tool Contact Points CL Display

Newly Developed 59 Functions

59 other functions have been newly developed like the optimization of operations and machining paths, the improvement of the accuracy of tooling interference avoidance, and expansion of translator and modeling functions.

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[Product Prices] (All prices below are in Japanese Yen.)

- CAM-TOOL 3-axis package :¥ 5,200,000 -
- CAM-TOOL 5-axis package : ¥ 6,400,000

*Taxes and the maintenance fees are excluded.

*The price depends on the module configuration.

[Company Information]

- Foundation : July 2, 2007 (*1)
- Capital : ¥500,000,000-
- Description of Business : Development/Sales/Support of CAD/CAM System for Mold & Die, and Production Management Systems

(*1) Our company is a CAD/CAM solution developer founded in 2010 as the result of a business integration and merger with Computer Engineering (founded in 1978) and Graphic Products (founded in 1981).

Note: All company and product names in this release are trademarks or registered trademarks of their respective companies.



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Questions and Inquiries

Mr. Tatsuya Izawa, Public Relations, C&G Systems INC. Tokyo Headquarters (Shinagawa-ku, Tokyo) Kitakyushu Headquarters (Kitakyushu-city, Fukuoka)

E-mail: cgs_pr@cgsys.co.jp <u>https://www.cgsys.co.jp/eng/</u>