EXCESS-HYBRID II   Parts CAM
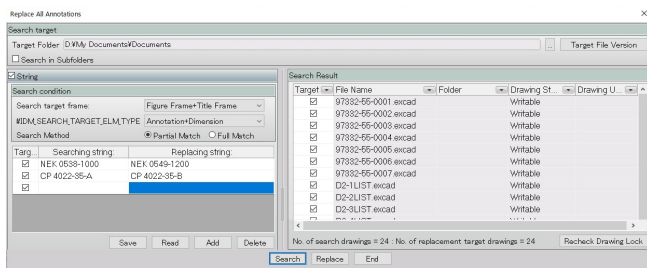### EXCESS CAM Limited Edition

Version 7.1

Released in March 2022

Eliminate workload for drawings with one click!!
Drastically reduce rework for creating machining data !!

Replace All Annotations

Batch replacement of annotations for multiple drawings is now possible. This feature can improve your efficiency as you can change all notes like model/control numbers as well as property values associated with variable notes in one go. It is also possible to save/read the conditions frequently used.
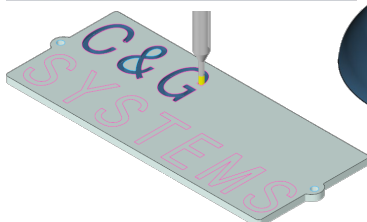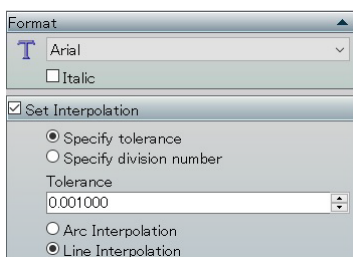

MISUMI Order

One-click enables you to facilitate your order process. Filling the format of [MISUMI-VONA] will be completed, based on the component part placed in your CAD data.
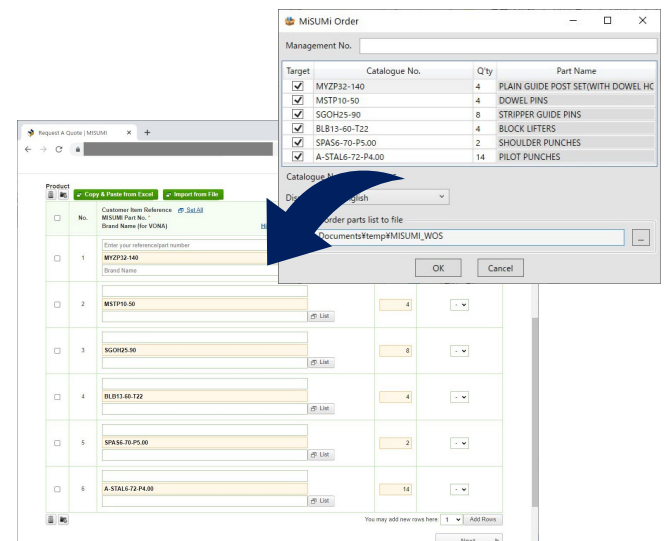

Figured Characters

Proportional font is now applicable to graphic letters. It is possible to create smooth graphic characters using the elements of spline and arc. It is useful for CAD modelling and text engraving in CAM.
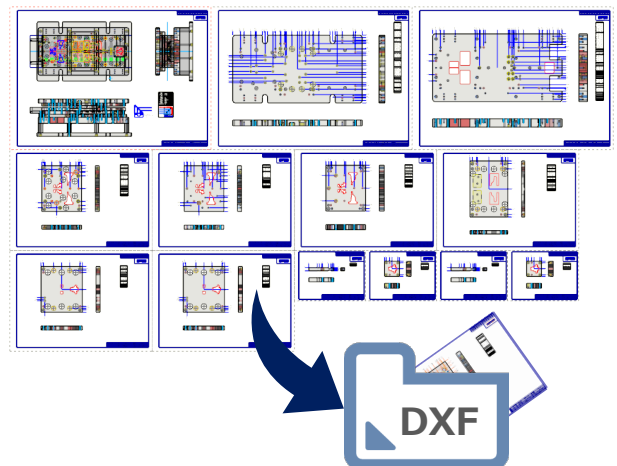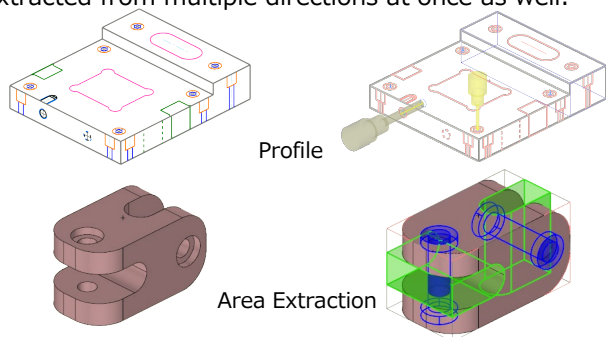

Frame（Exporting multiple DXF files）

All Drawings in Frames can now be saved into one file as DXF and DWG with the scale/paper sizes as they look. This should make it easer to exchange data, and higher compatibility with general-purpose CAD will be expected.
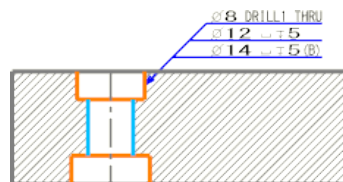

CGS C&G SYSTEMS INC.

For 3+2 Machining (Profile/ Auto Area Extraction)

All projection planes in CAD can now be imported into CAM as Set-up planes for 3+2 Machining. As a result, hole attributions on a side can be utilized. "Auto Area Extraction" from 3D model can be extracted from multiple directions at once as well.

Profile

Area Extraction
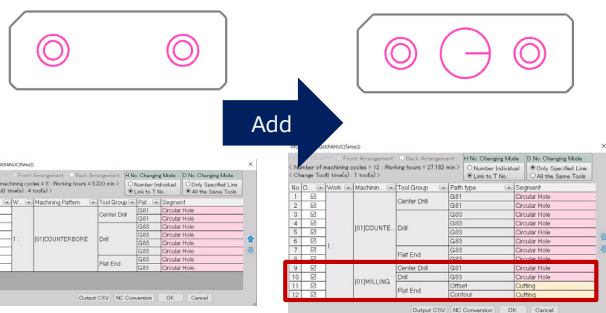
MC Machining Definition

[Machining Dia] has been newly added to the MC Machining Definition. This clarifies the distinction between the tool diameter and the machining diameter. It must help avoid setting error.

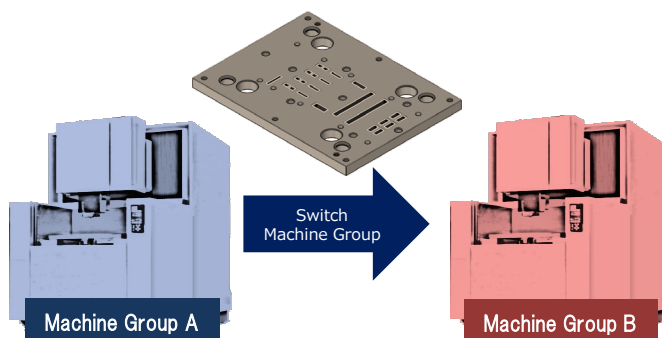|	Process name	Tool Dia.	Machining Dia.	Depth of cut	Path type
1	[01]DRILL	0	10	Through, front	Master Search
2	[01]COUNTERBORE	0	12	5	Master Search
3	[01]COUNTERBORE	0	14	-5	Master Search

MC Process Creation / Edit

It is now possible to add new figures and processes for machining which are defined after creating MC process from the [unselected process list]. Definition of pre-hole and adding/editing/deleting processes are also possible.
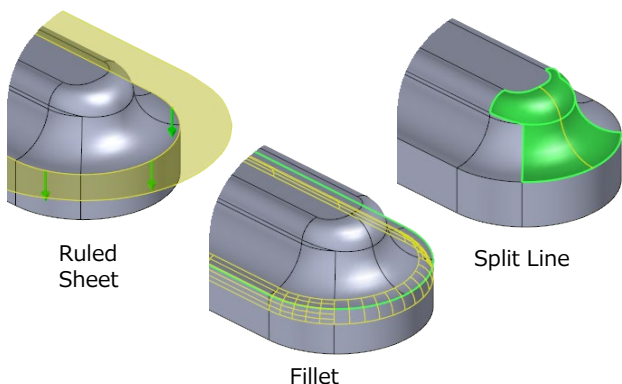
Add

WC Process Creation

You can now change a Machine Group to output WC data to another Group while maintaining the settings such as approach. This enables you to create NC data promptly by selecting the optimal machine in accordance with the situation.

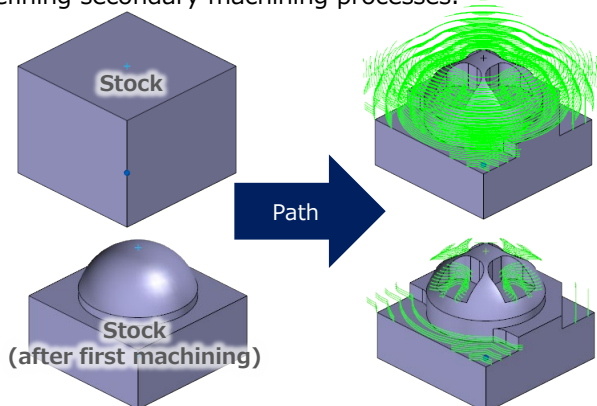Switch Machine Group

Machine Group A

Machine Group B

Modeling

Some of modeling functions such as changing fillet radius and creating auxiliary surfaces are now available in CAM. In this result, correction work that previously required to go back to CAD can now be done in CAM.

Ruled Sheet

Split Line

Fillet

3D Machining Definition

In 3D MC, Material body can be designated in each MC definition. You can choose STL data as a material body as well as 3D body. It is expected to be useful especially for defining secondary machining processes.

Stock

Stock (after first machining)

Path

Feature Enhancements

- **2D CAD**
  - Search annotation
  - Parts List
  - Parts Release
  - Frame etc.
- **3D CAD**
  - Repair Mesh
  - Distance Reference
  - Prospect Deform etc.
- **2D CAM**
  - Machining Definition
  - Simulation
  - Spot Escape etc.
- **3D CAM**
  - Model repair function
  - Modeling function
  - 3DMC Machining Definition
- **NC**
  - HEIDENHAIN

※ The contents of this leaflet are as of Mar.2022 and subject to change without prior notice.