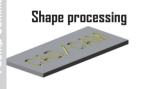


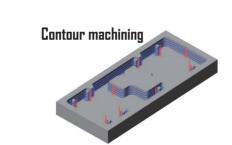
Easy-to-Use / Feature-Rich 2D/2.5D CAM System

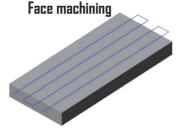
The Milling application is a practical 2D/2.5D CAM system that allows you to create NC data efficiently with a sleek and user-friendly interface in a short amount of time.

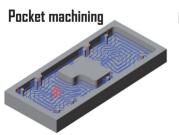
- Dur system is equipped with a variety of machining definition commands, allowing for customizable cutting conditions for each command Save and select (tool conditions/processing Z/approach, etc.) to reduce input operations.
- Detecting leftover areas and performing finishing operations, machining paths are defined to achieve optimal results.
- The process tree allows for easy verification of processes and definitions, while simulation via the tool path is also possible.
- By modifying cutting conditions and redefining paths, changes to the shape can be achieved.
- Additionally, operations such as machining definition, path modification/deletion are supported by UNDO (undo) and REDO (redo) functions.
- When generating NC data, you can select the machine type to create the desired data.

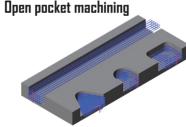
2D machining

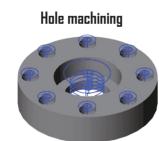


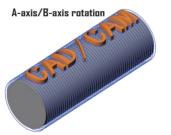


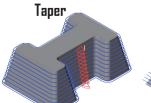




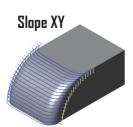




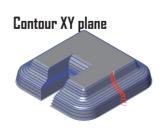


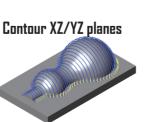






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■ Easy verification and modification of processes/definitions.

The process tree displays the defined processes and definitions. where operations such as verification and modification can be performed.

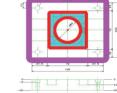


Processes and definitions can be reordered or deleted. Creating new processes is done.

and definitions are added to the active orncess Properties allow changes to process and definition settings. Redefining allows changes to the shape and settings of processes and definitions. Enabling or disabling checks for definitions and processes allows specifying screen display and NC generation.

The screen displays in color for each type of machining with the selected definition (or entire process) highlighted (in red).

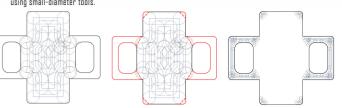
The right image shows the state when fill mode display is enabled



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Detect remaining uncut areas and define machining for the necessary range.

Remaining uncut areas can be recognized in pocket machining and contour machining. These areas can then be defined for further nocket machining or contour machining using small-diameter tools.



Detecting areas with leftover Roughing with large-diameter tools

X The above image shows the state when in contour line mode.

■ Significantly reducing leftover material with optimized offset calculations.

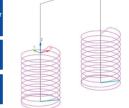
When the sten over exceeds the tool radius, triangular leftover material annears at the edge. However, by using optimized offset calculations, the leftover areas can be automatically removed, leading to significant reduction in machining time.

■ Hole machining.

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Machining is performed in the order defined in the hole cycle. By selecting the hole type in the cycle and utilizing features such as batch recognition of circles and optimization functions, it is easy to create an optimal machining path

Hole position specification	Batch input through individual or group recognition Recognition conditions can be set based on representative elements or diameter Return to R point and return to initial point can be specified
Optimization	Optimization of travel distance is possible with the sorting function. Tool change frequency can be optimized during NC generation.
0	Fixed cycle. G01 drill. circular pocket.



Shape machining. Without switching input modes, you can freely create

Contour machining.

A path is created along the contour shape.

Path	Cutting movement can be selected from three types: linear, arc, and rapid movement. UP movement (rapid traverse) can be selected from two levels: escape 2 and initial Z. Batch recognition automatically determines the path based on the recognized elements. Text elements automatically generate vector data.
Diameter Compensation	Diameter compensation can be specified.
Approach	It is possible to simply add an arc radius from the current position

Interference checking between the path and contour shape is performed to prevent cutting interference.



■ Pocket machining.

Pocket machining and island cutting are supported, and with offset calculations,

cincions passo can be generated by separating/combining passo for complex shape			
Diameter compensation	It is not possible to specify.		
Approach	Fixed cycle, helical, zigzag, and 2-up are selectable. Entry coordinates can be specified.		
Direction	Area: Inside/Outside, Cutting: Down-cut/Up-cut can be selected respectively.		
Remaining cut	Both detection and definition are possible.		



■Open pocket machining.

For specific open shapes, a dedicated path is sought, different from pocket machining, to perform optimal processing

Diameter compensation	It is not possible to specify.
Approach	Entry coordinates can be specified.
Direction	Cutting: Down-cut/Up-cut can be selected.
Remaining cut	Detection/definition are both possible.

■ Face machining.

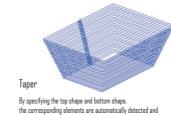
A dedicated command for surface milling has been prepared, allowing for the generation of the most optimal path for the work size.

Approach	Entry coordinates can be specified.
Direction	Cutting: Down-cut/Up-cut/Bidirectional can be selected. Path angle: Horizontal/Vertical/Automatic can be selected.



■2.5DProcessing

Equipped with commands corresponding to the machining surface, enabling easy definition of machining. Ball end mills, flat end mills, and radius end mills can be used (except for ball end mills with a slope of 20).



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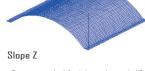
Contour lines

"Specify basic shapes from the XY plane, and slope shapes from the X7 plane apetity vesits steps in the replace of the steps of the s









From the basic shape on the Y plane processing can be defined for a single slope.

Processing can be defined along a slope on the YZ

- Shape, indentation, pocket, open pocket, hole, face,contour, taper, slope XY, slope 2 Post-related G-code, coordinate modal management, and various significant digit specifications are possible.
- 2.5D machining definition Properties, editing of created definitions through redefinition features for detecting remaining cuts

- Program expression (absolute/incremental values) can be specified for main/sub programs. Arc commands: IJ specification, R specification, and automatic IJ/R switching Helical arc approximation function. Work coordinate settings are possible
 - - Work instructions can be created during NC generation ation of tool exchange frequency during hole machining

Feed and rotation range setting and inspection functions

Setting and inspection of each tool's effective length.

plicate inspection function for diameter correction val

- Mouse recognition
 Simultaneous input of elements/coordinates with navigation, dragging, and rubber-band input assistance
- Automatic recognition of continuous elements, perimeter recognition with a single click, nultiple inner perimeters recognition, and multiple outer perimeters recognition via diagonal point specification are possible Recognition conditions can also be set using mask settings.

 There are no restrictions on the number of elements or loops for recognition and calculat