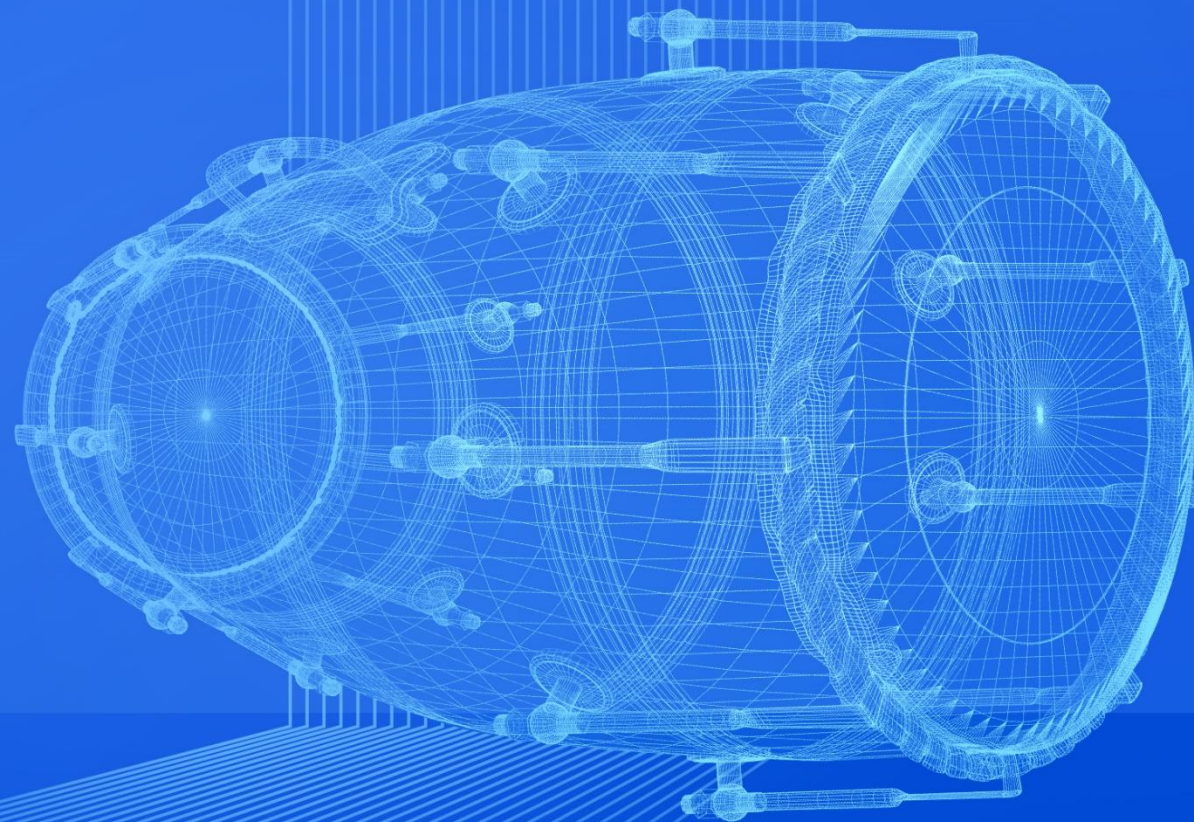


ZW<sup>3</sup>SOFT

# What's New in ZW3D 2026

---



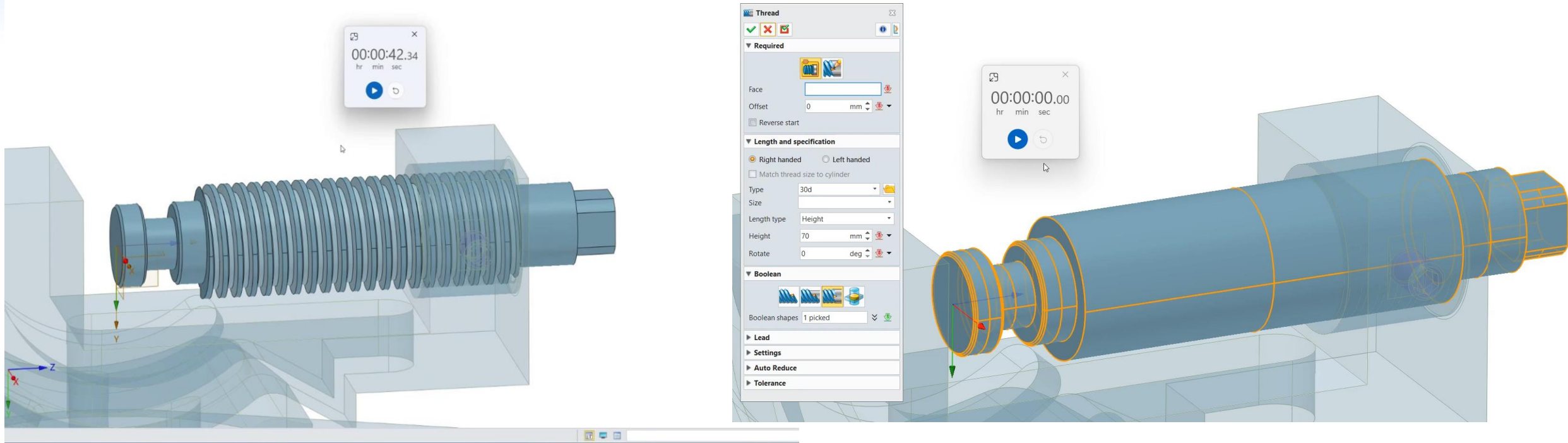
# What's New in ZW3D 2026 CAD/CAM?

- Part Design Updates
- Assembly Design Updates
- 2D Drawing Updates
- Improvement in CAM modules

The background is a solid blue color with abstract, flowing, liquid-like shapes in a slightly darker shade of blue. These shapes create a sense of movement and depth, with highlights and shadows that suggest a glossy, reflective surface. The overall effect is modern and dynamic.

# **New Updates in Part Design**

# Innovated Thread



## Functional Advantages

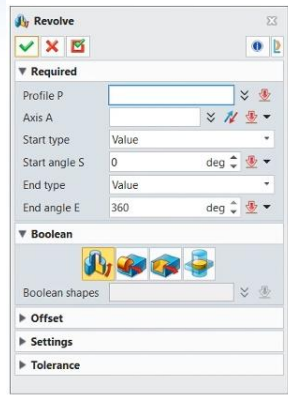
- More automatically and intelligently, no need to draw manually.
- Supports difference types of thread, such as Rp series 55° inch pipe thread specifications.
- Supports adding **customize threads** through Excel or using z3skh to build users own threads.

Efficiency↑

Capability↑



# New Slot

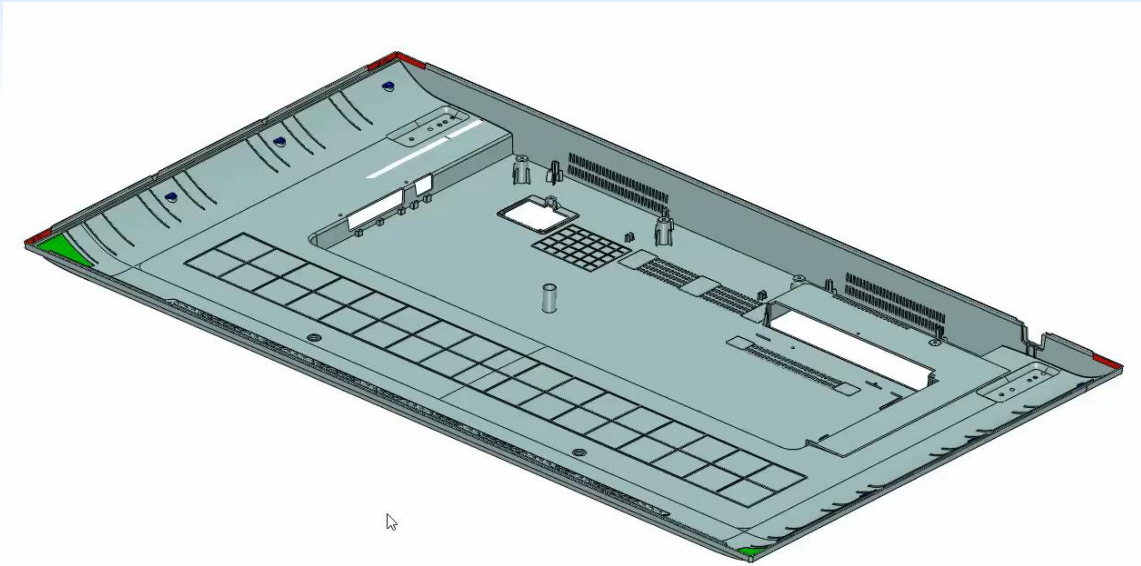


## Functional Advantages

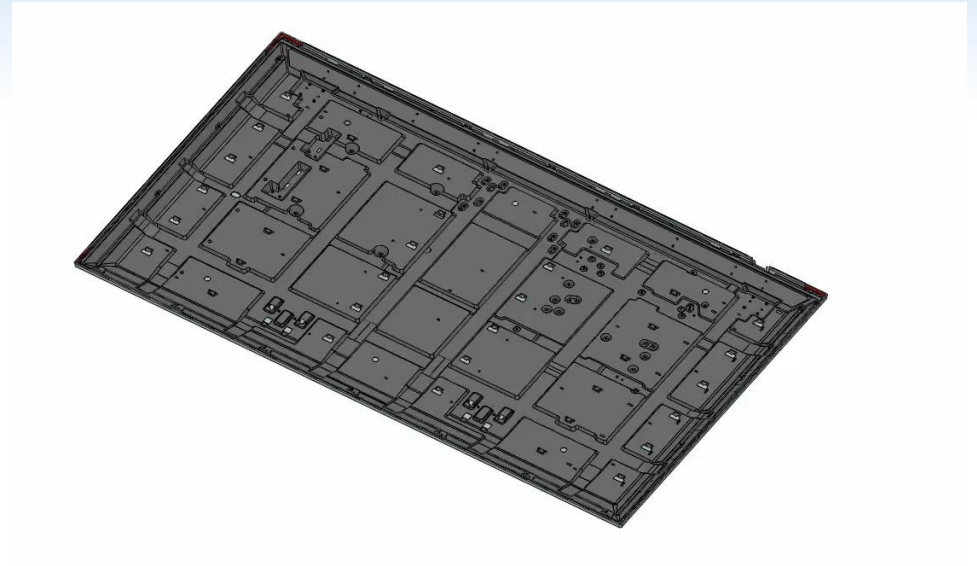
- A complete slot can be created by simply clicking on a surface, which is **simple, fast, and easy to use**.
- Four commonly used slot shapes, including **rectangular, spherical, dovetail, and T** - shaped grooves, are fully covered to adapt to various application scenarios.
- All dimensions of the slot feature are **fully parameterized**.

**Efficiency↑**

# New Plastic Structural Design Features



Mounting Boss



Snap Hook/Groove

## Functional Advantages

- **3 new dedicated engineer plastic features** to greatly accelerate plastic structural design efficiency.
- **6 types of hole shapes** for screw bosses (threaded holes) and threaded bosses (through-holes), covering most common structures.
- **Single click** on surfaces can create these features rapidly, which is **simple and easy to use**.

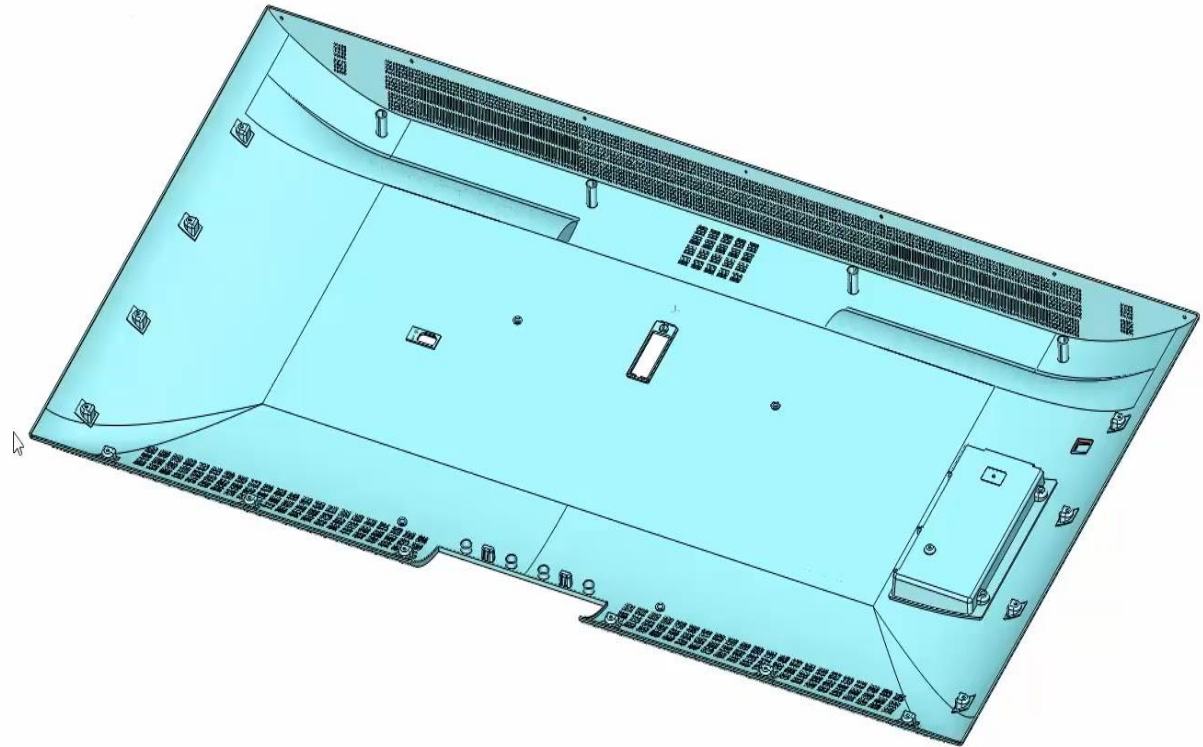
**Capability↑**

# Innovated Lip

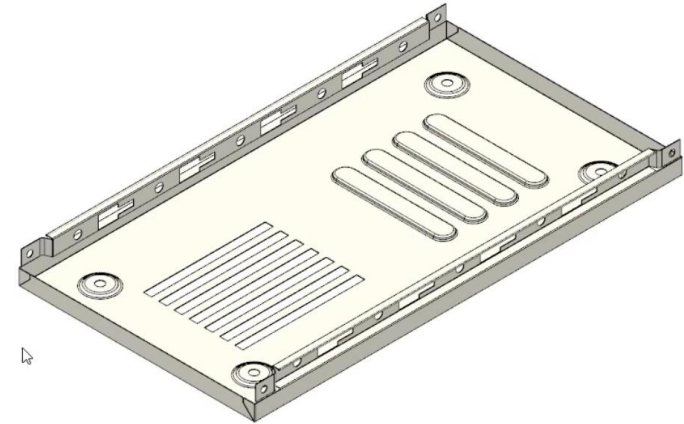
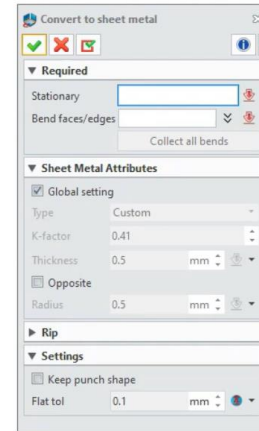
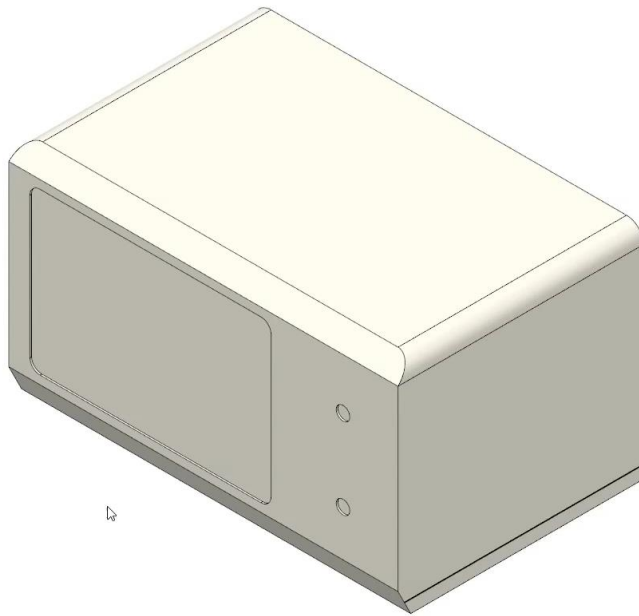
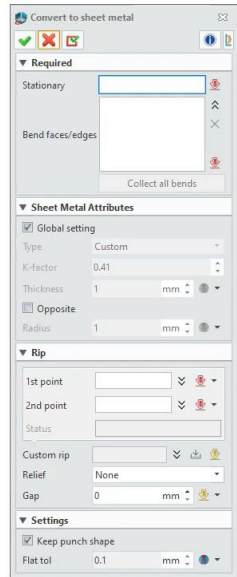
## Functional Advantages

- **3 new creation methods:** Lip, Groove, and Lip/Groove
- Lip/Groove method supports cross-component creation, which not only ensures structural matching but also improves design efficiency.
- multiple Lip/Grooves can be created in batches, which is **simple and easy to use**.

Capability↑



# Convert Solids into Sheet Metal



## Functional Advantages

- When you convert an ID solid model, **shape edges can be converted into bends** with different bend radii. Rips are automatically added at the associated bends while manual 2-point rip is supported.
- One-click collection and recognition bends from sheet metal parts in third-party formats, and **original stamping structures like louvers can remain unchanged, which is not supported by SW.**

Efficiency↑

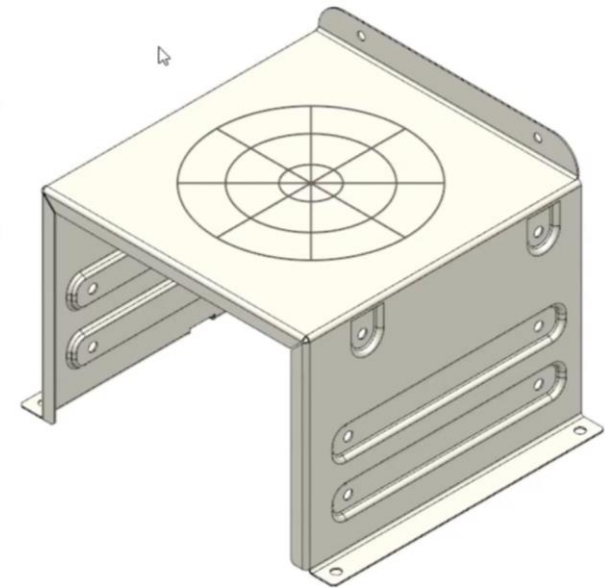
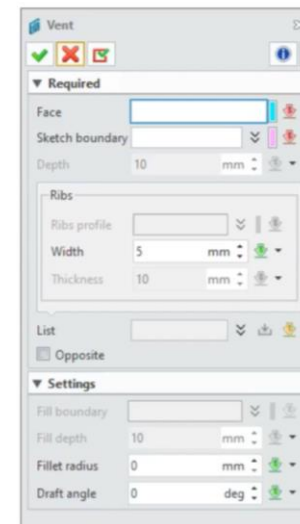
Capability↑



# New Vent

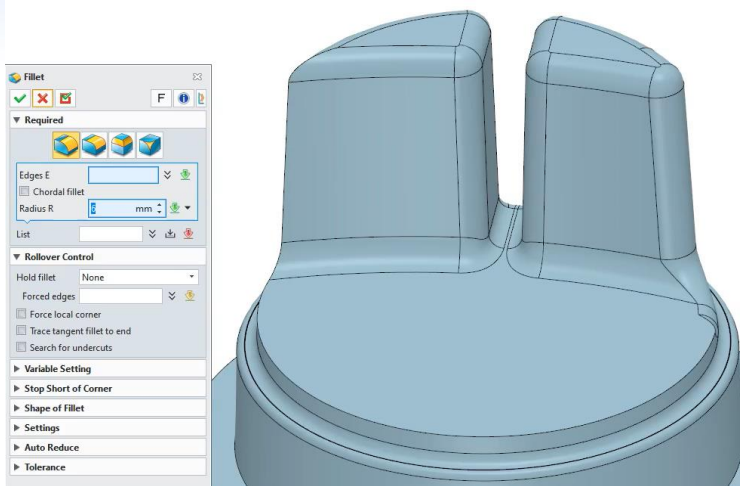
## Functional Advantages

- After selecting the position face, a vent can be created according to the definition of the sketch, which is simple and easy to use.
- Ribs with different widths and thickness can be created with no limits while SW only can handle two sets of ribs.
- Round corners or drafts are automatically added to speed up design.

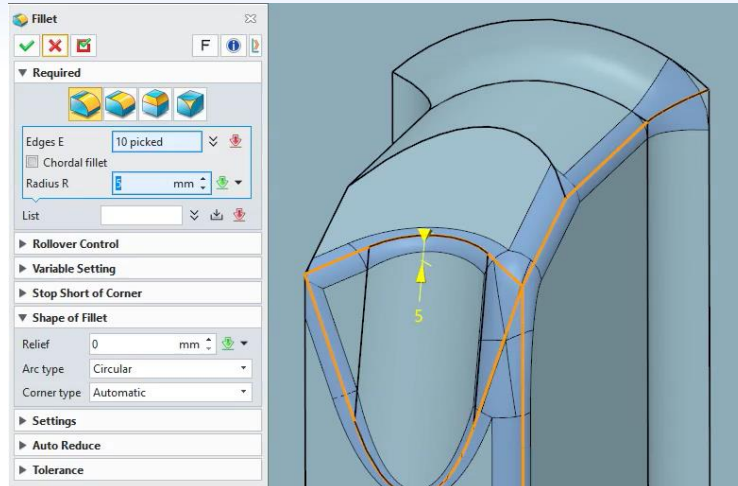


Efficiency↑

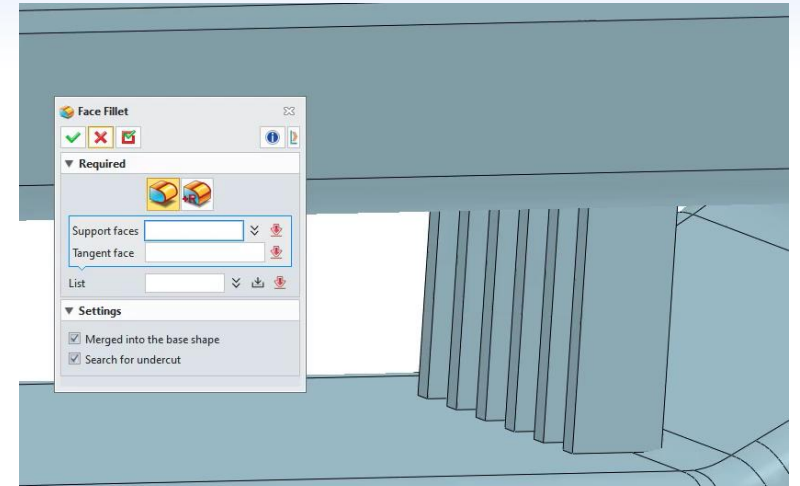
# Enhanced Fillet



New Trace tangent fillet to end



New Corner Type with intelligent recognition



New set in Face Fillet

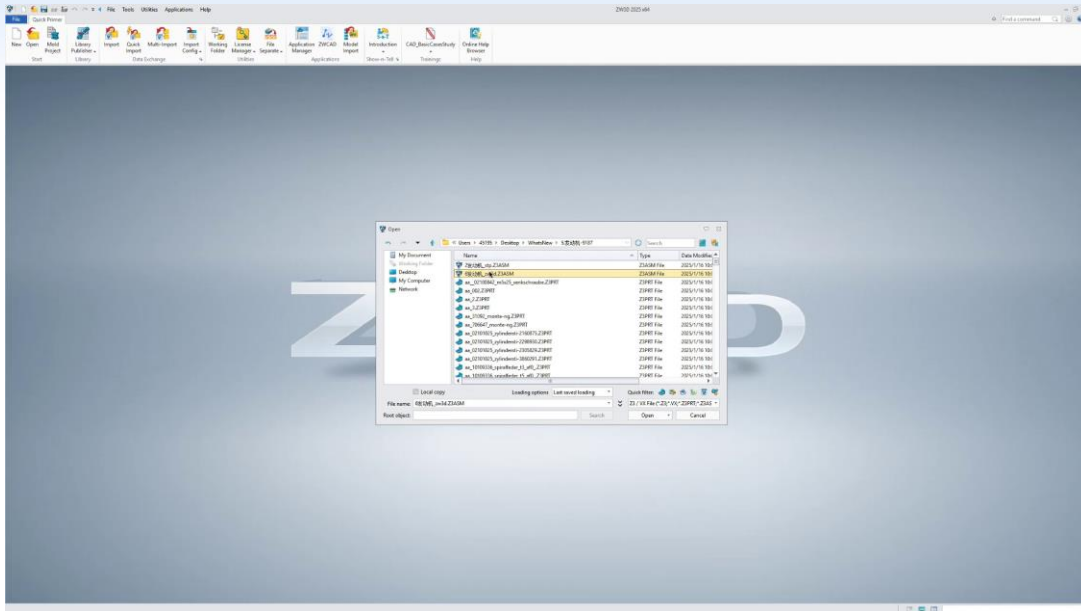
## Functional Advantages

- **New intelligence** for edge Holding and **auto corner handling recognition** are added, which make operation simpler and covers more scenarios.
- Multiple Face Fillets now can create at one time, significantly reducing the number of features.
- More powerful fillet interference handling capabilities.

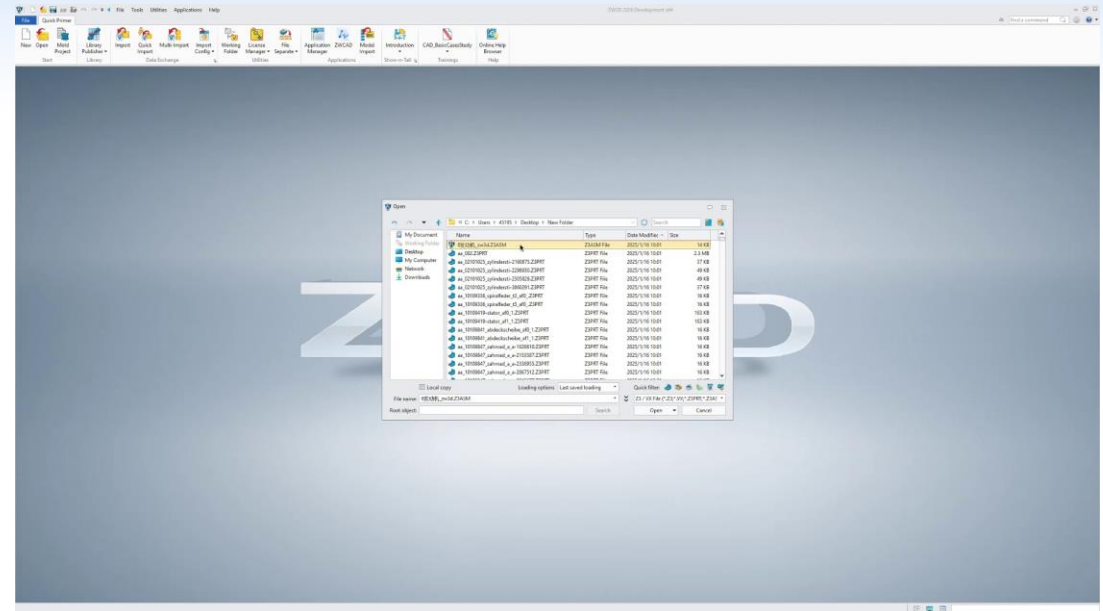
## Capability↑

# **New Updates in Assembly Design**

# Increase Efficiency of Large Assembly



2025 Open in 78s (5x)



2026 Open in 52s (5x)

Comparison of the opening efficiency of the engine assembly file with  
**8487 components (total size: 871MB)**

## Functional Advantages

- The opening speed of large files is further improved, saving the time spent waiting for files to open.
- It better supports a smooth design process for large assemblies.

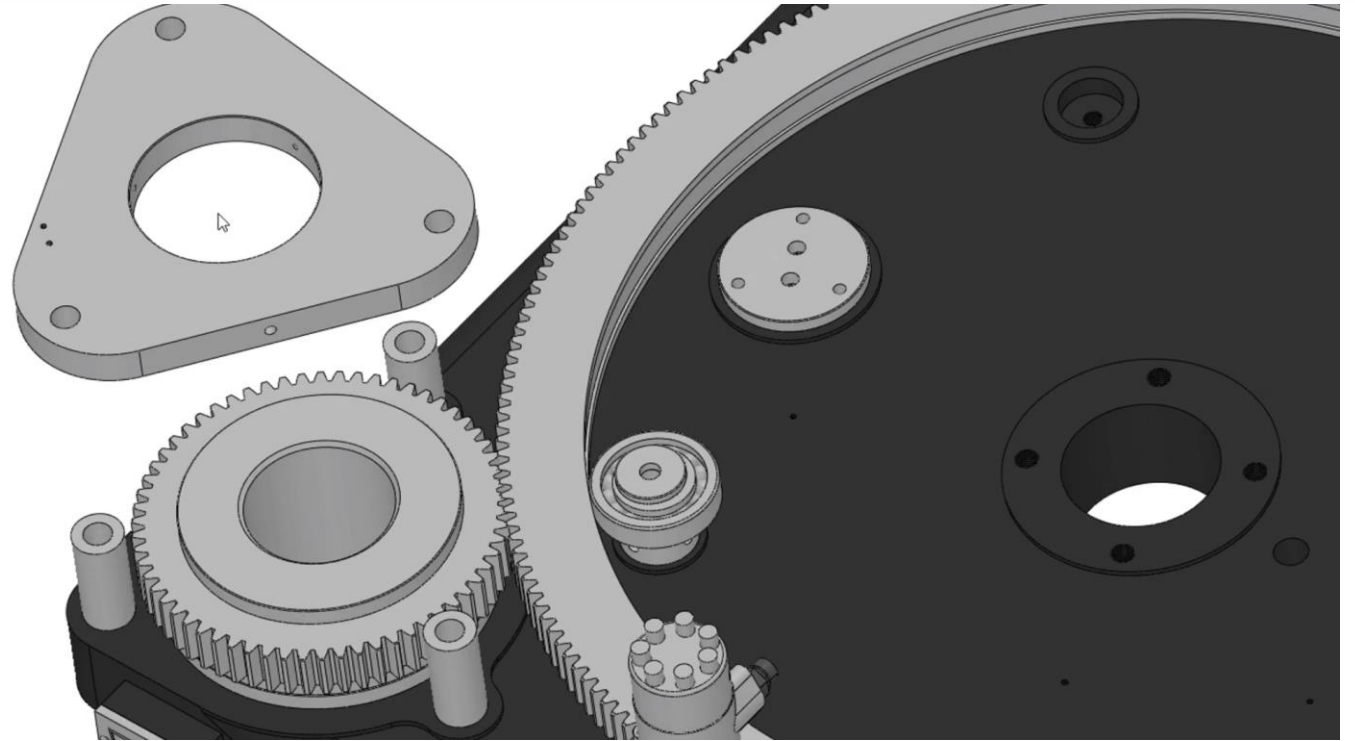
**Efficiency↑**



# New Intelligent Assembly Constraint

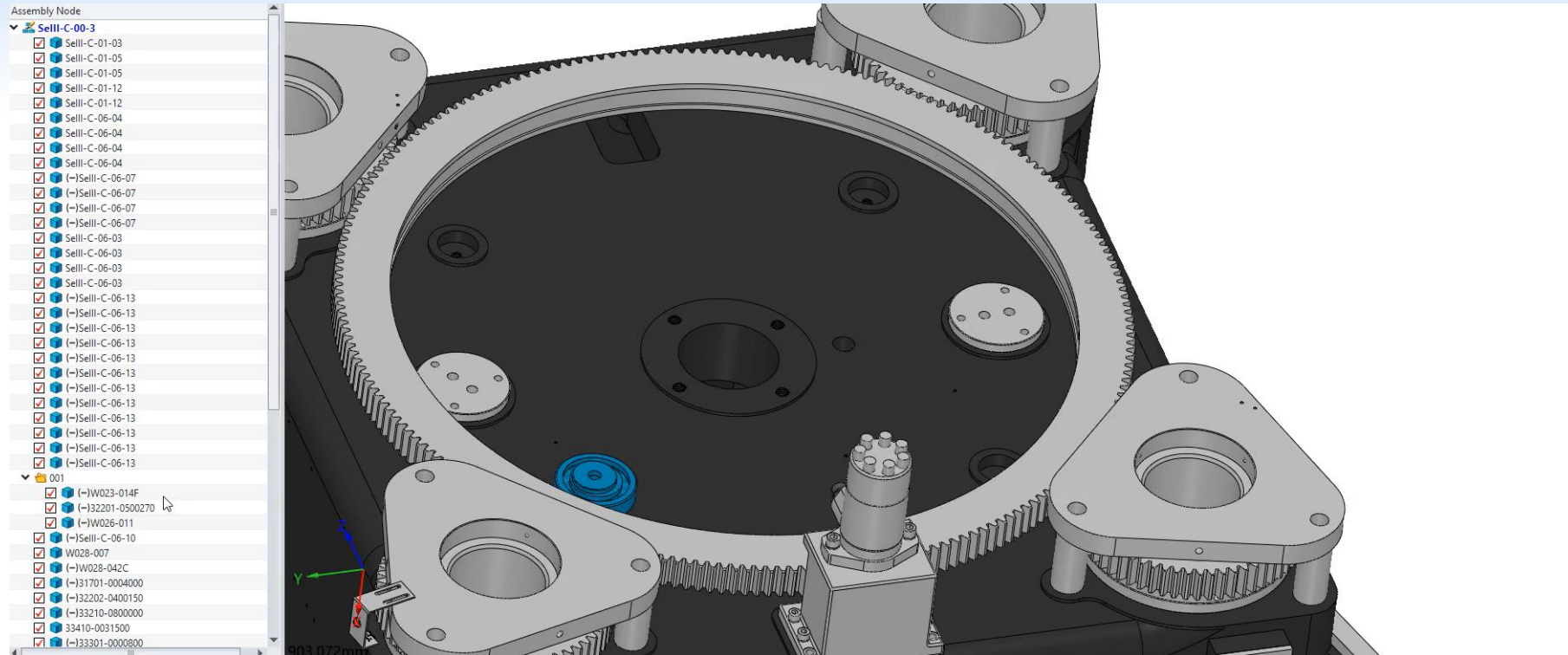
## Functional Advantages

- Inferred constraints pops up around picked objects with less mouse movement and efficiency **50%↑**
- Recommended constraints inside Common Constraints is optimized to reduce type toggle, bringing efficiency **30%↑**
- New Lock components in batches, reducing **80%↓** operations



Efficiency↑

# New Copy with Constraint

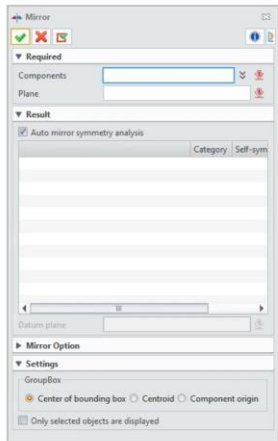


## Functional Advantages

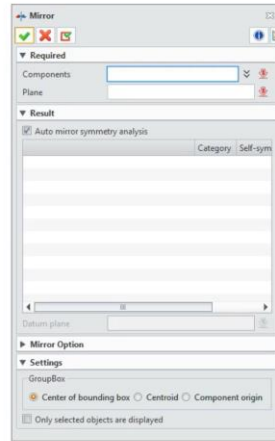
- Multiple components can be copied in batches with constraints, resulting in over **80%↑** efficiency improvement in reassembling.
- Middle, Symmetry, Slot, and Path constraints are new added into support.

**Efficiency↑**

# New Intelligent Symmetry Analysis in Mirror



Intelligent Symmetry Analysis



Rename during Mirror



Assembly Constraint Inheriting

## Functional Advantages

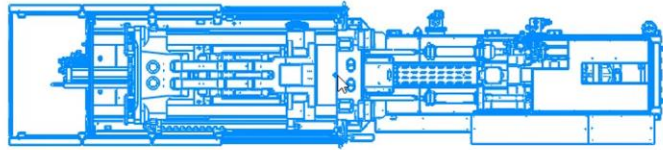
- New Intelligent Symmetry Analysis to auto recommend mirror type, reducing lots of manual operations
- Instant renaming allows users better complying with design rules.
- Added Assembly Constraints in Inherited Subassemblies for Efficient Reuse of Design Data.

**Efficiency↑**

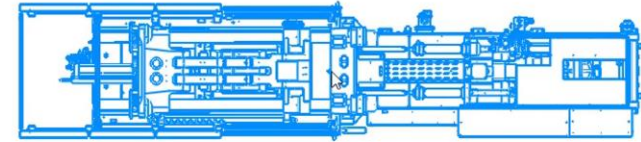
# **New Updates in 2D Drawing Design**



# Projection Efficiency 40%~60%, Operational Efficiency 70%



2025 takes 7s



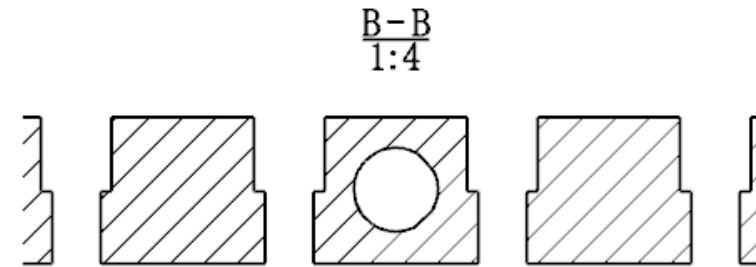
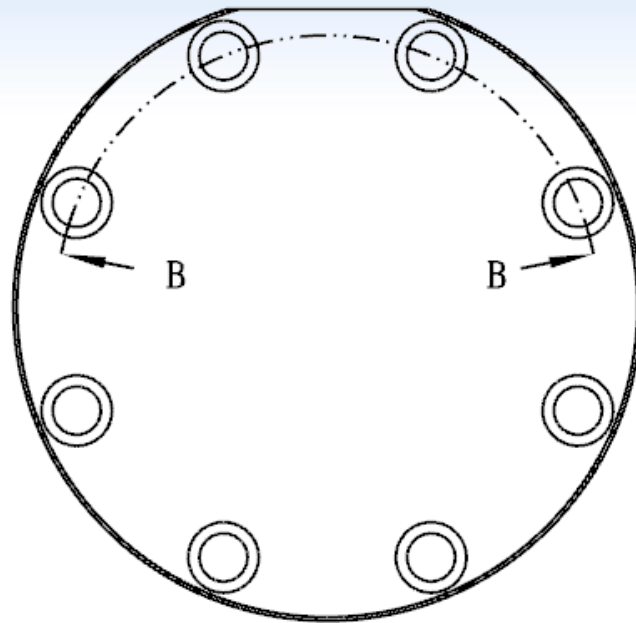
2026 takes 2s

## Functional Advantages

## Efficiency↑

- the projection efficiency is increased by **60%+** ↑, and the regeneration efficiency of drawing sheets with annotations is increased by **80%+** ↑, and the file size of drawing sheets is reduced by **85%**↓.
- The single-selection efficiency is increased by **90%+** ↑, and the box-selecting efficiency is increased by **70%+** ↑

## New Arc-unfold Section in Bent Section View



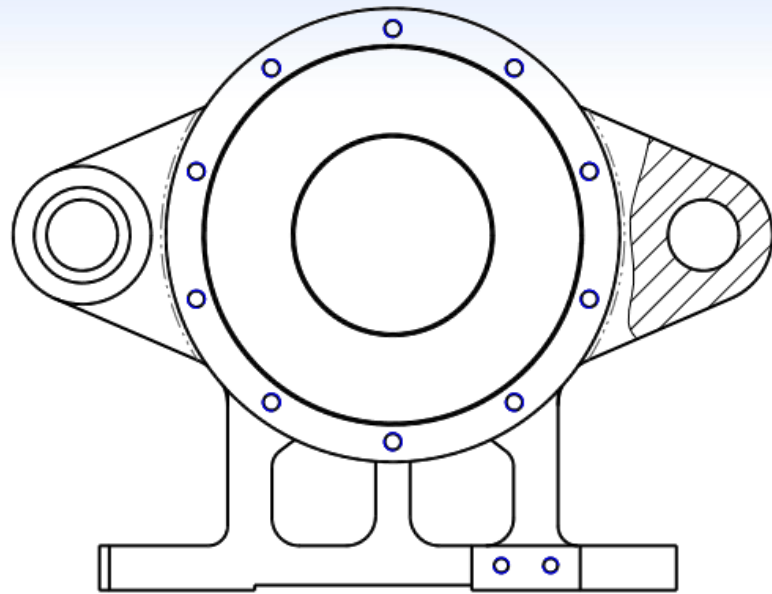
Unfolded arc bent section view

### Functional Advantages

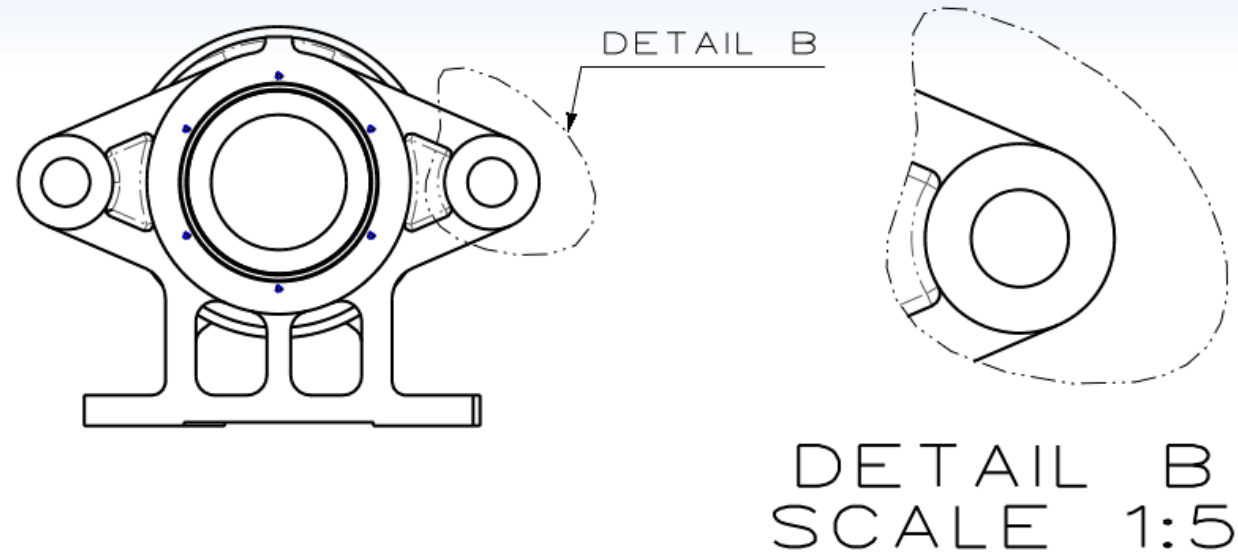
### Capability↑

- The cutting line supports combination of arcs and straight lines, enabling better cutting and display of complex internal structures.
- Only ZW3D and NX supports this feature, while neither SW nor CREO does.

# New Spline Boundary in Detail and Broken Section View



Spline boundary in Broken Section View



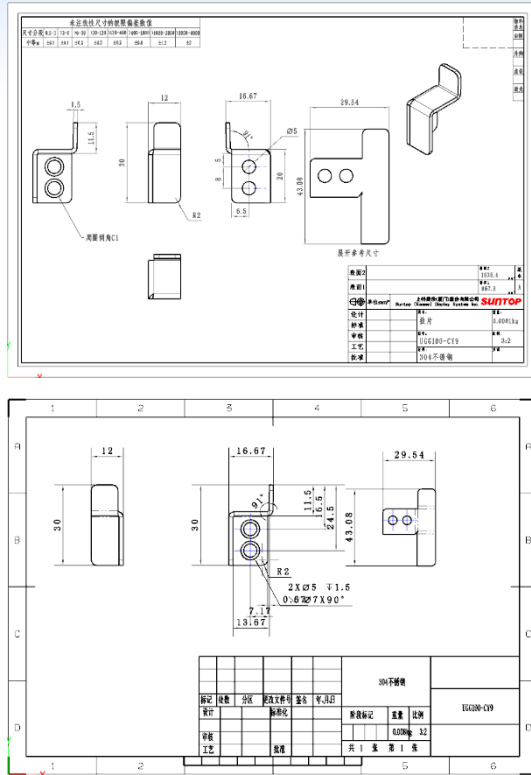
Spline boundary in Detail View

## Functional Advantages

## Capability↑

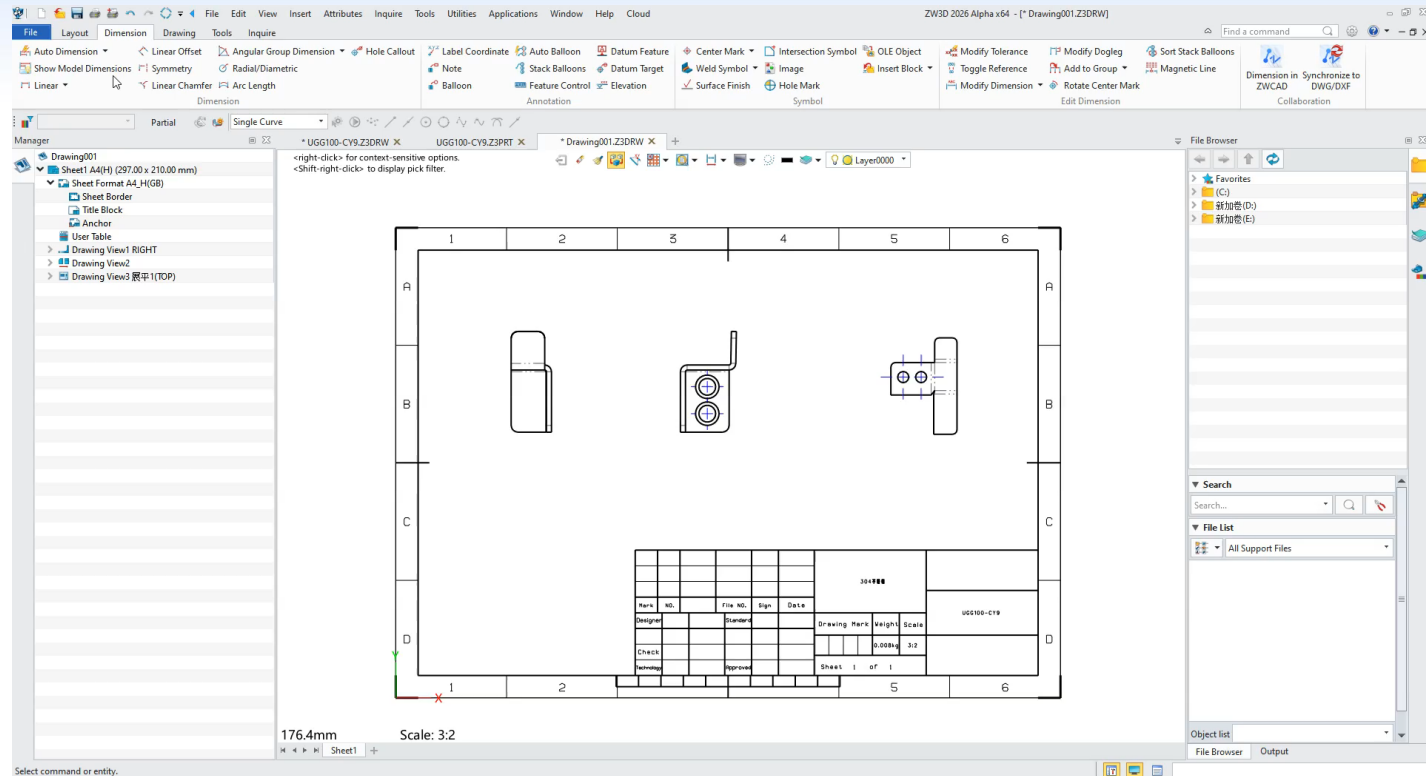
- The spline boundaries can define complex regional boundaries more flexibly, adapting to the detail or sectional display of various models, and further meeting the requirements of the drawing standards.

# Auto Dim to Quickly Complete Annotations



Customers' drawing

Auto Dimension



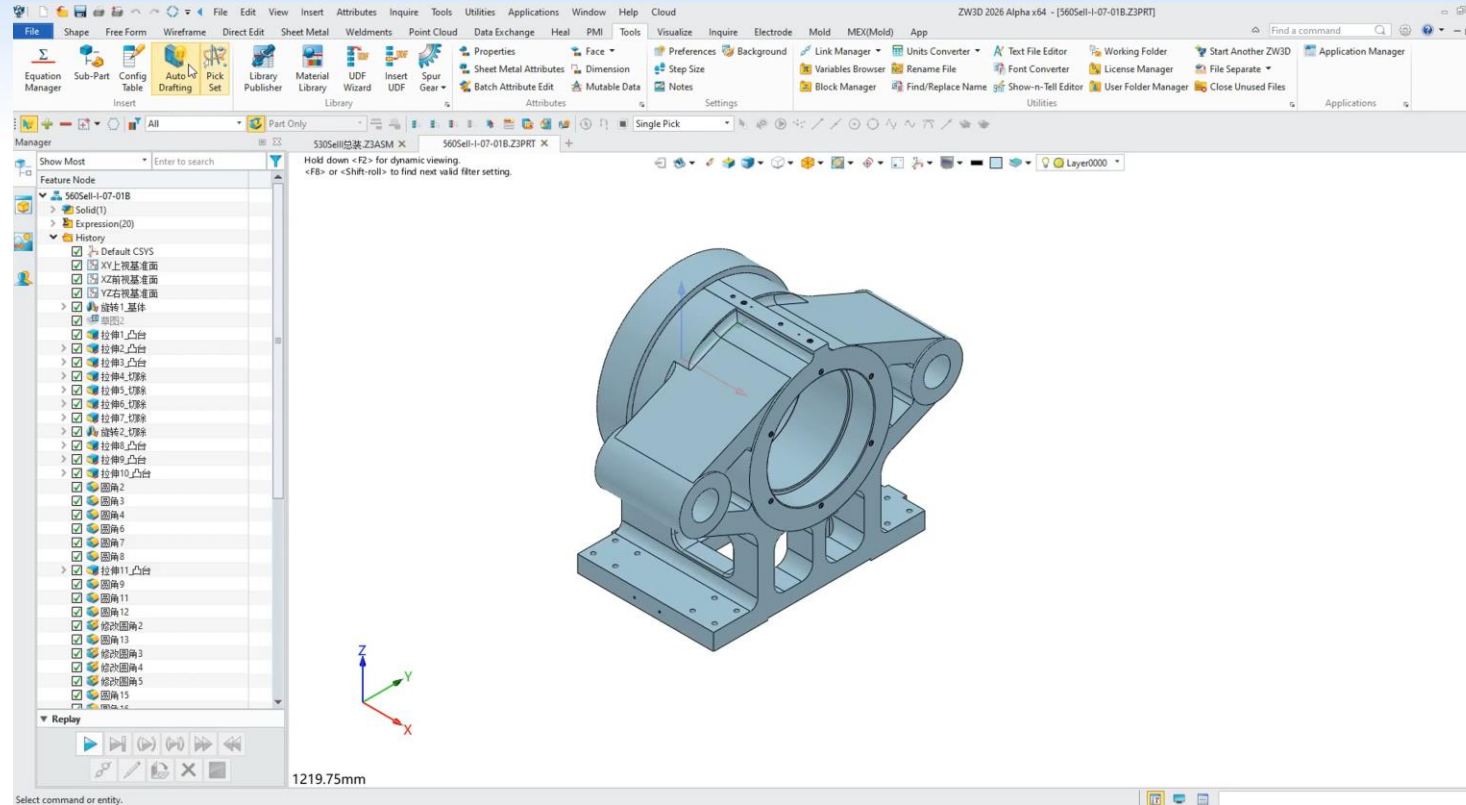
## Functional Advantages

## Efficiency↑

- New support for automatic annotation of multiple types of objects has been added to improve the ability of automatic annotation to complete one - time annotation for regular parts, especially sheet - metal parts.



# New Setting in Auto Drafting

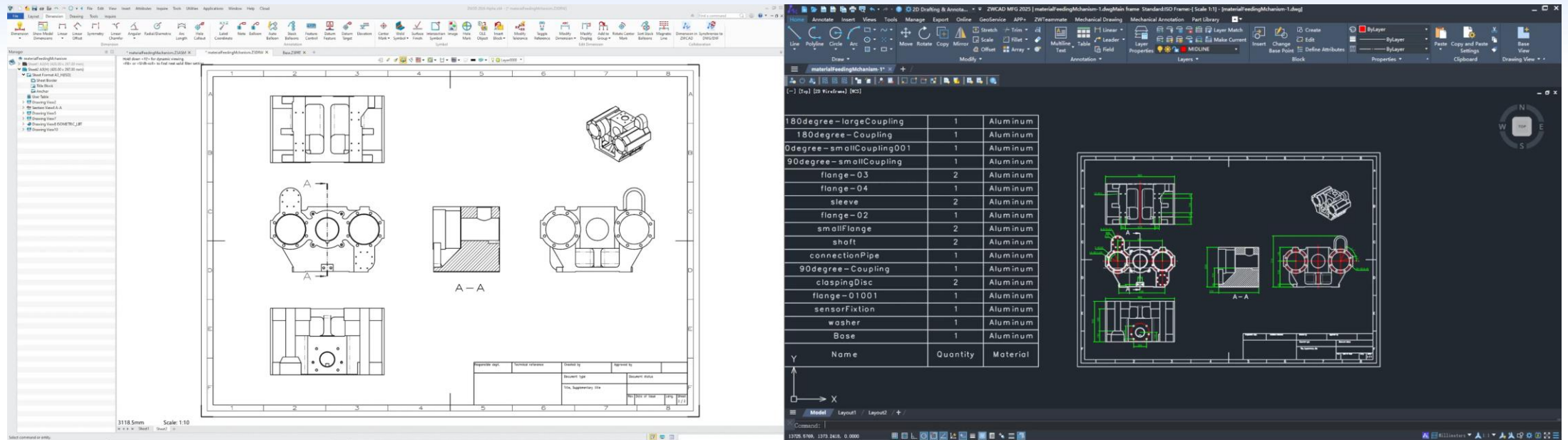


## Functional Advantages

## Efficiency↑

- New Settings in Auto Drafting enables establishing a common drawing sheet for various types of products to quickly and repeatedly generate drawings in batches, reducing repeated settings and speeding up the drawing generation process.

# Symbiotic Collaboration of 2D/3D Data

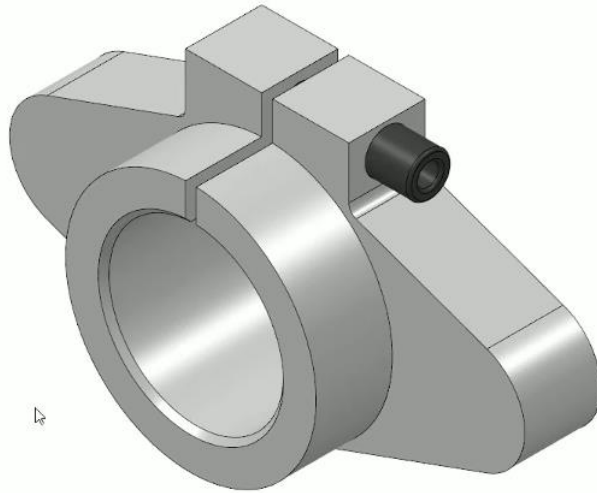
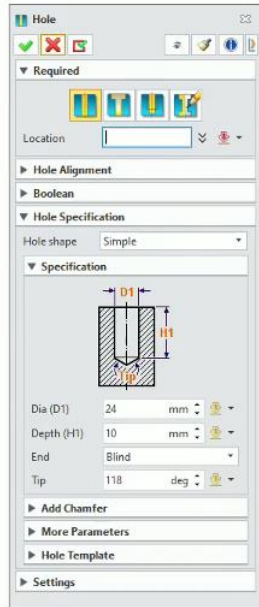


## Functional Advantages

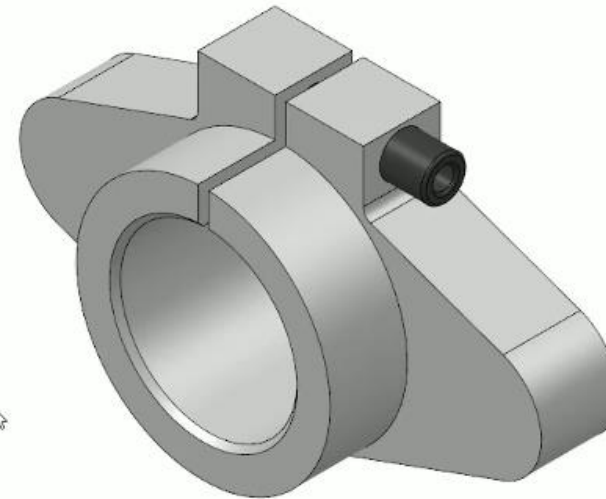
- Synchronize the changes in the 3D model to the associated DWG/DXF with one click, reducing the originally consumed time from several hours to just a few minutes.
- Synchronous update can also be achieved when the associated DWG/DXF is opened in ZWCAD.

**Efficiency↑**      **Collaboration↑**

# New Operating Experience



2025 Hole and Fillet Interaction



2026 Hole and Fillet Interaction

## Functional Advantages

## Efficiency↑

- New micro-panel allow users complete parameter edit in graphics area without frequently returning to the command panel
- The efficiency of command parameter editing is increased by approximately 40%

# Regular Translator Updates

Prudcut	File extension	Default converter	Alternative converter
Catia V4	.model, .exp, .session	4.1.9 - 4.2.4	4.1.9 - 4.2.4
Catia V5	.CATPart, .CATProduct, .CGR	V5R10 --- V5-6R2024	V5R8---V5-6R2024
Catia V5_2D	.CATDrawing	V5R10 --- V5-6R2024	V5R8---V5-6R2024
3DExperience (CATIA V6)	.CATPart, .CATProduct	R2010x - R2025x	V6 R2024x and previous version
CGR	.cgr	V6 R2024x and previous version	V6 R2024x and previous version
NX(UG)	.prt	11 - NX 2406	11 - NX 2406
Creo(Pro/E)	.prt, .prt.*, .asm, .asm.*	16 - Creo 11.0	16 - Creo 11.0
Creo(Pro/E)_2D	.drw .drw.*	2000i - Creo 11.0	/
SolidWorks	.sldprt, .sldasm	98 - 2025(Only for 64bit)	98 - 2025(Only for 64bit)
SolidWorks_2D	.slddrw	2004 - 2025	2013-2025(Only for 64bit)
SolidEdge	.par, .asm, .psm	10 - 2025	18 - 2024
Inventor	.ipt, .iam	9 to 2025	.ipt (6 - 2025) .iam (11 - 2025)
ACIS	.sat, .sab, .asat, .asab	R1 - 2024 1.0	R1 - 2024 1.0
Rhino	.3dm	version 2 - 8	version 2 - 8

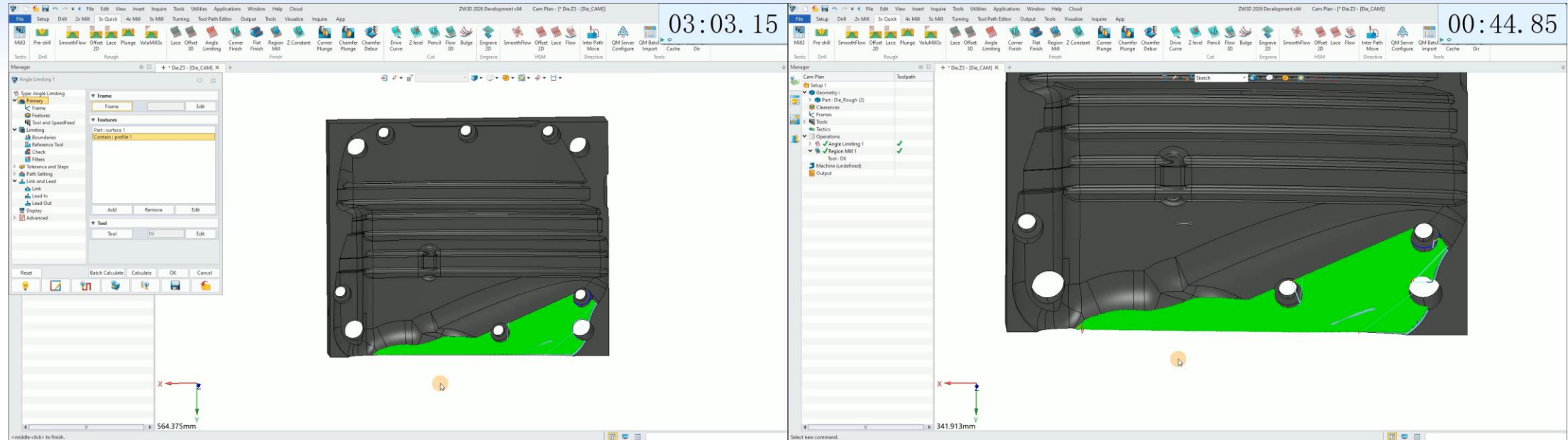
## Functional Advantages

- Updated to the latest formats (highlighted in red) of mainstream 3D systems, such as the 2025 version.



# **New Updates in CAM**

# New Region Mill



Angle Limiting takes 183 seconds

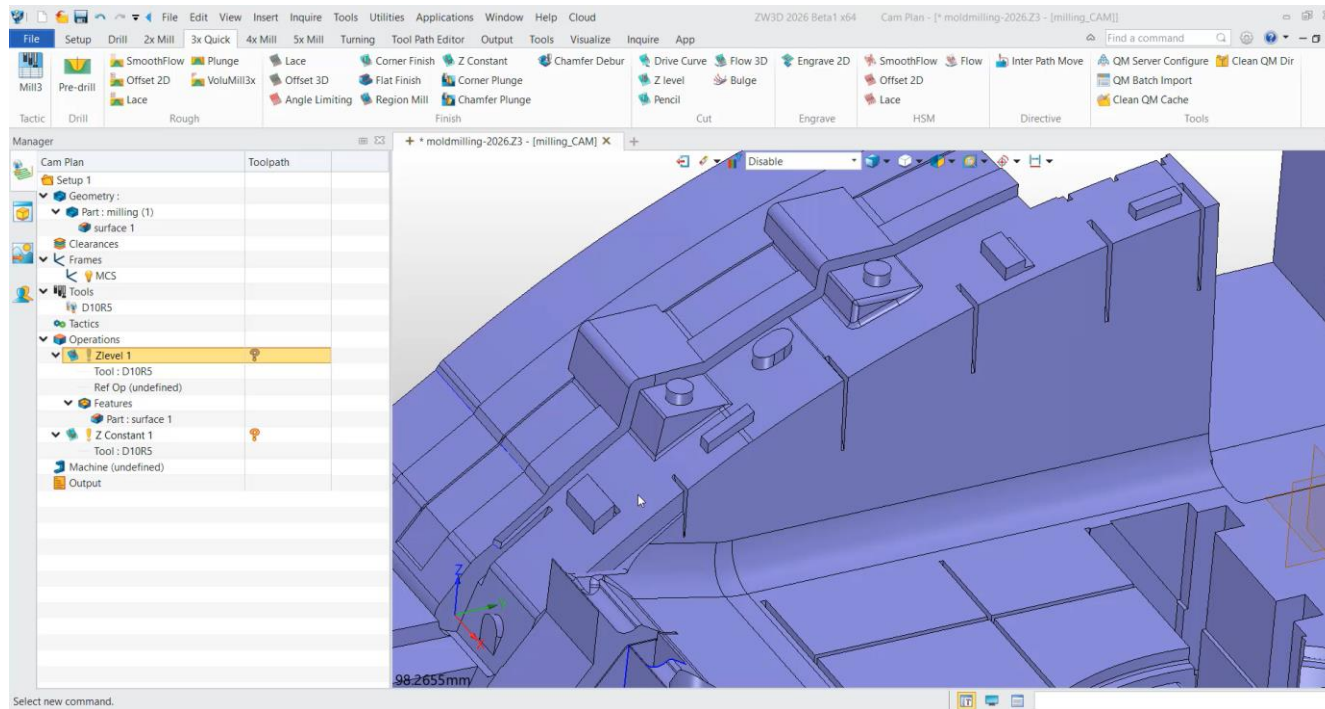
Region Mill takes 45 seconds

## Functional Advantages

- Efficiency has increased by 300%
- The toolpath is **more Complete and Smooth**
- One-click **Tool Path Extension**
- One-click Selection for **Tool Path Rolling**

**Efficiency**↑

# New Z Constant

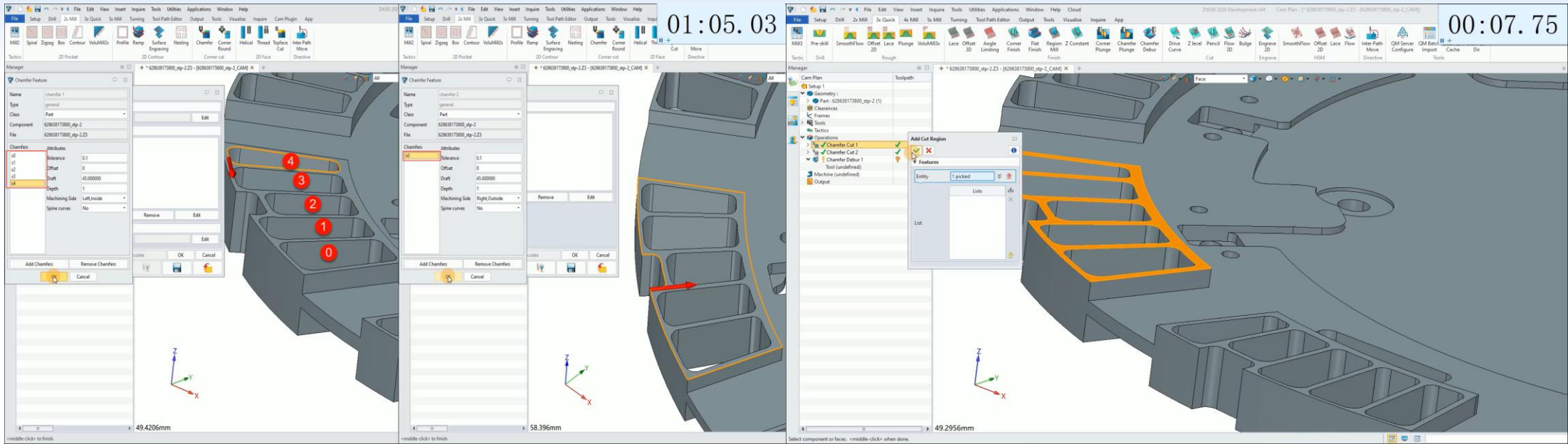


## Functional Advantages

- New **Merge Distance** Functionality
- New **Cut Layers** Functionality
- One-click **Tool Path Extension**, One-click Selection for **Rolling Cutter**
- The Toolpath is **Smoother** and **More Complete**

Efficiency↑

# One-Click Deburring



The old version takes 65 seconds(**Feature selection time**)

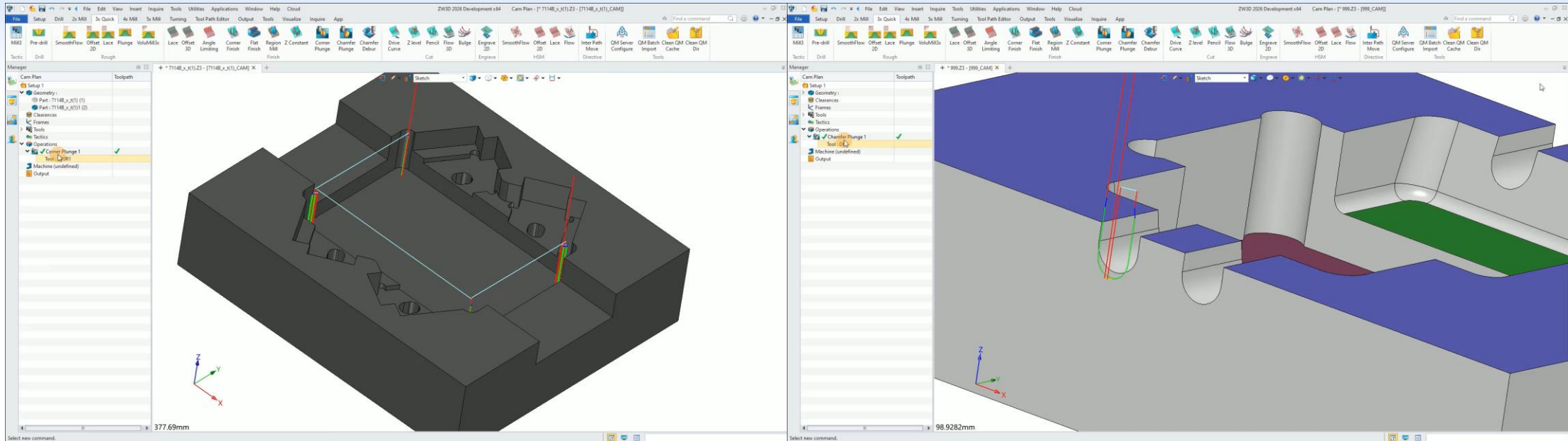
The new version takes 8 seconds(**Feature selection time**)

## Functional Advantages

- **Surface selection workflow makes feature selection more convenient**
- The parameter functions are concise and clear, with **800% increase in operational efficiency**
- Collision detection is more accurate, with no overcutting or interference in the tool paths
- The new feed-in and feed-out mechanism is versatile and comprehensive

**Efficiency↑**

# Mold Base Chamfering



Corner Plunge and Chamfer Plunge in 2026 Version

## Functional Advantages

- **Vertical plunge milling is highly effective for rapid material removal**
- Support for Z-axis tool path elevation and tangential extension
- The operation is convenient, and the programming efficiency is high

**Efficiency**↑



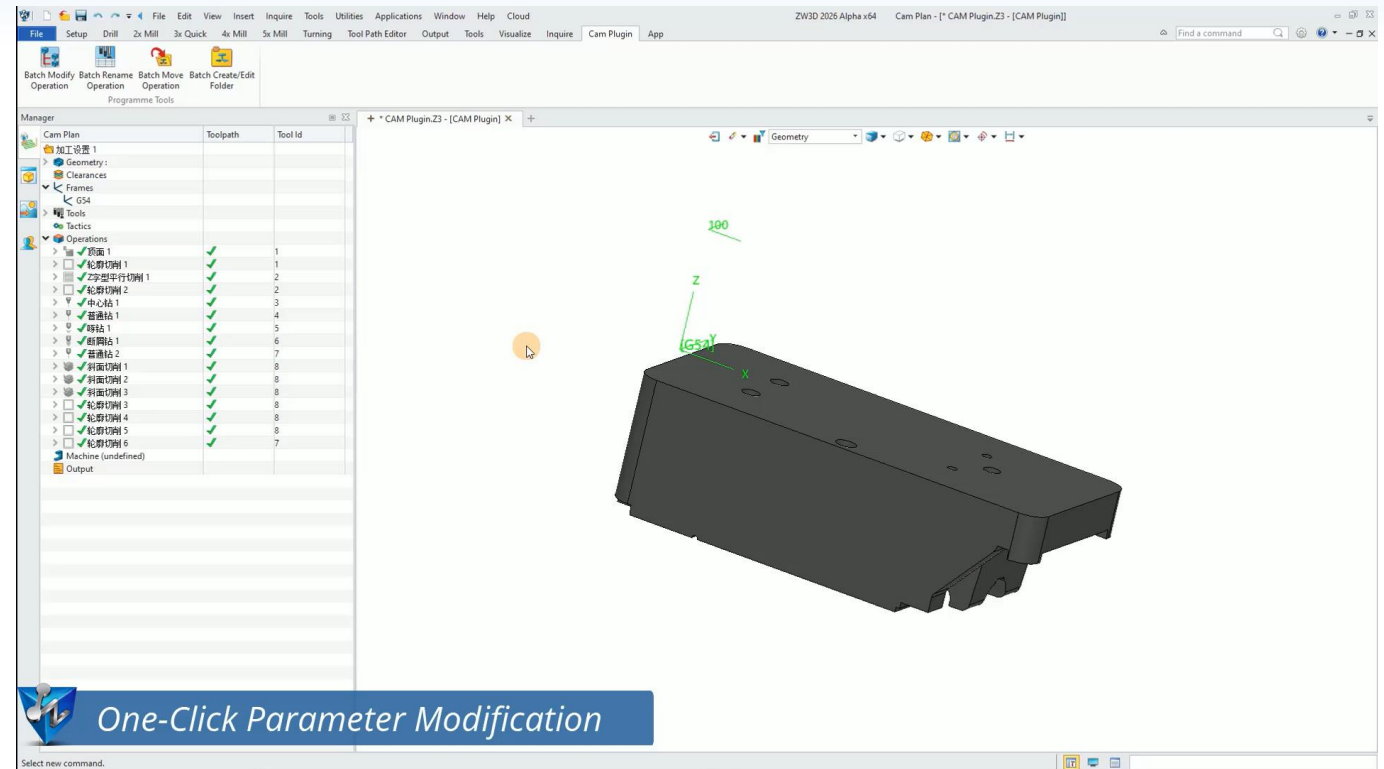
# One-Click Display, Renaming, and Parameter Modification

## Functional Advantages

- One-click parameter modification
- One-click renaming of operations
- One-click batch creation of operation folders
- One-click to batch move operations to specified folders

### How to turn on Cam Plugin:

1. Right-click in the blank area of the ribbon, Ribbon Tabs→ Cam Plugin
2. Right-click in the blank area of the ribbon, Ribbon Panels→Program Tools



**Efficiency↑**

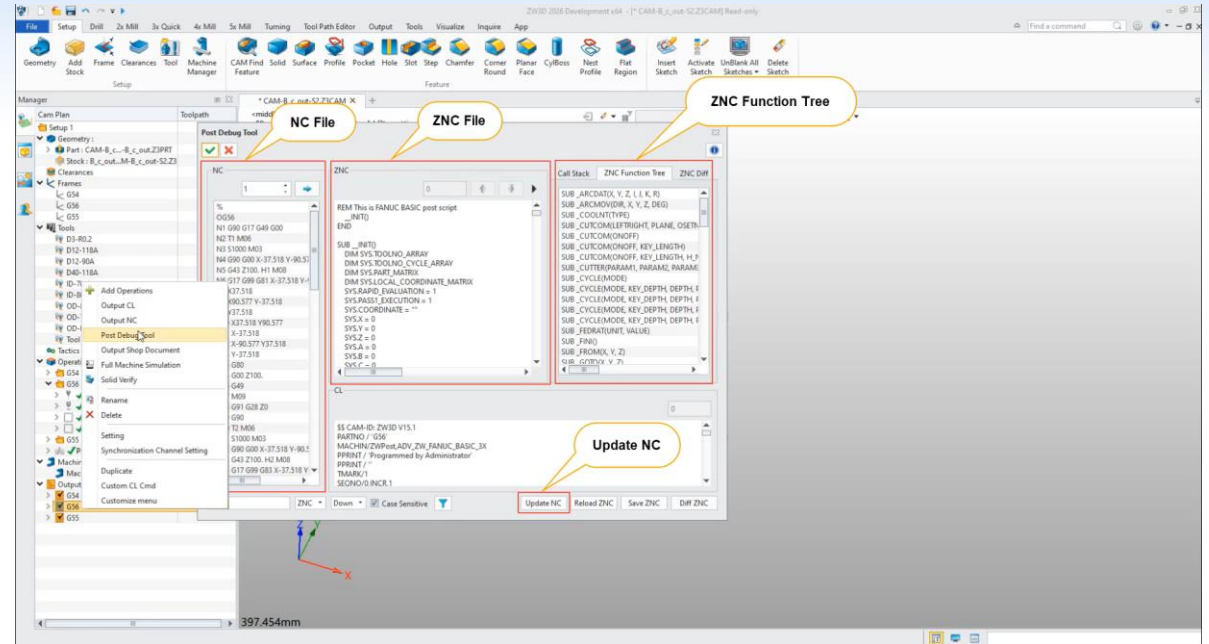


# More Convenient Post-Processing Debugging Tools

N1 G90 G17 G49 G00  
 N2 T1 M06  
 N3 S1000 M03  
 N4 G90 G00 X-37.518 Y-90.577  
**N5 G43 Z100. H1 M08** *before modification*  
 N6 G17 G99 G81 X-37.518 Y-90.577 Z9. R15. F250.  
 N7 X37.518  
 N8 X90.577 Y-37.518  
 N1 G90 G17 G49 G00  
 N2 T1 M06  
 N3 S1000 M03  
 N4 G90 G00 X-37.518 Y-90.577  
**N5 M08** *after modification*  
**N6 G43 Z100. H1**  
 N7 G17 G99 G81 X-37.518 Y-90.577 Z9. R15. F250.  
 N8 X37.518  
 N9 X90.577 Y-37.518

```

ENDIF
IF SYS.MOTION = "RAPID" THEN
  IF SYS.CUTCOM_LENGTH < 0 THEN
    IF REG.Z.LAST < 0; REG.Z.VALUE THEN
      IF SYS.CUTCOM_LENGTH = 43 THEN
        PRINT SYS.FUNCTION.COOLANT_FLOOD.CODE insert sentence
        PRINT SYS.FUNCTION.CUTCOM_LENGTH_PLUS.CODE ;
      ENDIF
      IF SYS.CUTCOM_LENGTH = 44 THEN
        PRINT SYS.FUNCTION.CUTCOM_LENGTH_MINUS.CODE ;
      ENDIF
    ENDIF
  ENDIF
ENDIF
PRINT SYS.FUNCTION.ABSINC_ABS.CODE, SYS.FUNCTION.RAPID;
IF SYS.CUTCOM_LENGTH < 0 THEN
  IF REG.Z.LAST < 0; REG.Z.VALUE THEN
    REG.H.VALUE = SYS.TOOL_HREG
    PRINT REG.H, GLOBAL.COOLANT;
  
```



The old version takes 400 seconds (**Locate the post location**)

The 2026 version takes 5 seconds (**Locate the post location**)

## Functional Advantages

- The interface provides guidance and allows quick modification of the post-processor
- No need for repeated positioning, **the operation is smoother**
- Supports the ZNC function tree, **allowing quick navigation through clicks**
- Supports **one-click NC update** to quickly obtain the modified NC code

**Efficiency↑**



**More Informations**  
**Encee GmbH**  
**Tel.: 09621 / 7829-0**  
**E-Mail: [Vertrieb@encee.de](mailto:Vertrieb@encee.de)**