

## Relief features

Turns photographs such as JPEG into relief shapes to create polygon data for 3D print.



pic.jpg



Graduation memento

### •Embed relief



pic.jpg



Smartphone case. stl  
(designed by CAD in advance)



stl.ply data

### Application examples



memorial stereoscopic board



handprint



3D menu



3D letters billboard

## Features

Products	Name	Editor	CleanerPlus	Personal Relief	Advanced Option	Relief Option
Price	General	400,000	100,000	10,000	200,000	TBD
Edit	Cleaning	○	○	-	-	-
	Smoothing	○	-	-	-	-
	Smoothing/Polishing	-	-	-	○	-
	Simplify	○	○	-	-	-
	Subdivision	○	-	-	-	-
	Remesh	○	-	-	-	-
	Cut	○	-	-	-	-
	Flip shells	○	-	-	-	-
Detailed editing	Scaling	○	-	-	-	-
	Defeature	○	-	-	-	-
	Edge flip	○	-	-	-	-
	Merge vertices	○	-	-	-	-
	Sharp triangle	○	-	-	-	-
	fill holes	○	-	-	-	-
	Divide faces	○	-	-	-	-
Evaluation	Fill cave	-	-	-	○	-
	Coordinates/Distance/Distance contour	○	○	-	-	-
	Display section line	○	-	-	-	-
	Find path	-	-	-	○	-
Relief	Crease detection	○	-	-	-	-
	Relief	-	-	○(STL only)	-	○
	Embed relief	-	-	-	-	○

Download Trial version/Operating Environment

The trial version allows you to try out all features for 30 days.

<http://www.excel.co.jp/polygon>

(After 30 days, you won't be able to export.)

[Operating environment] Windows7SP1/8.1/10(64 bit), InternetExplorer11 and later, OpenGL3.3 and later, more than 1280×800, TrueColor (32 bit)

Contact us Manufactured by **UEL Corporation**



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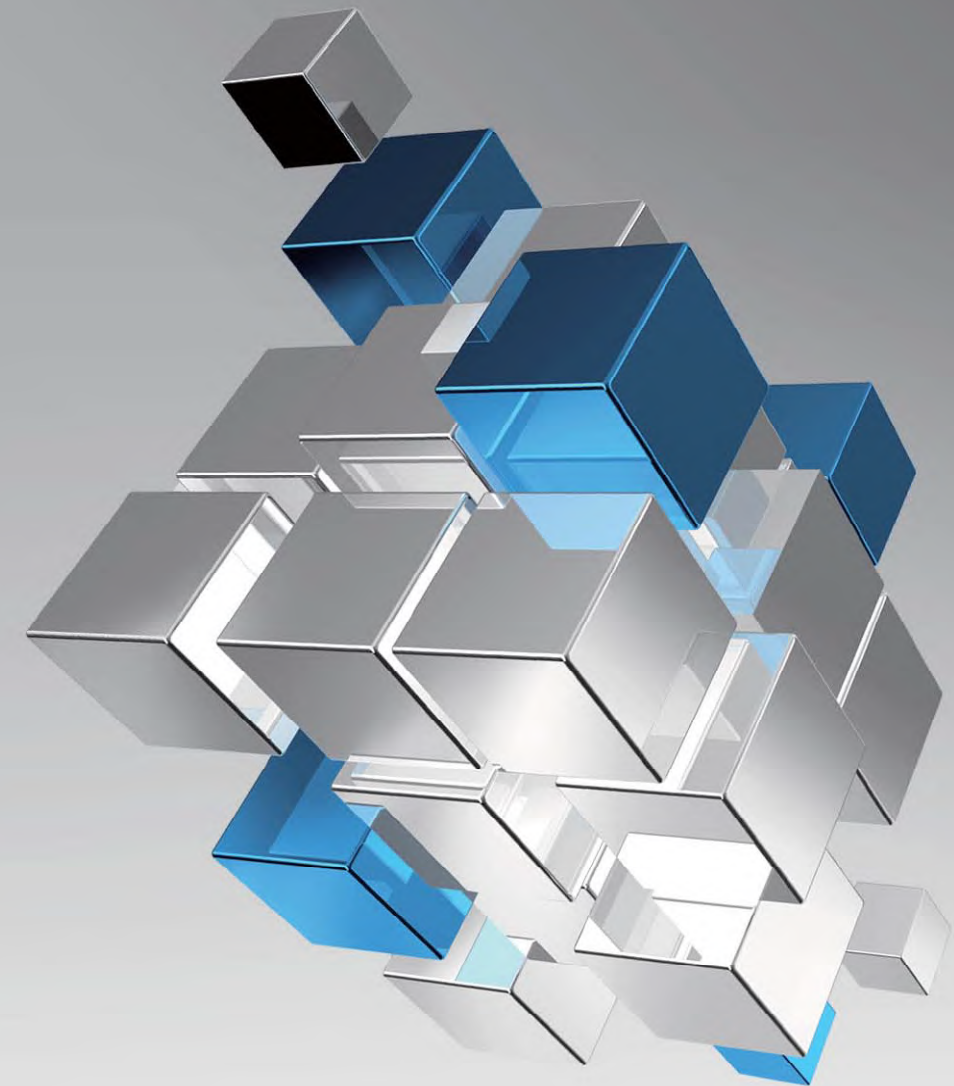


E-mail: [polygon@ml.excel.co.jp](mailto:polygon@ml.excel.co.jp)

<http://excel.co.jp/polygon>

Ver.1.0 as of Jan.16th,2016

**UEL**  
Corporation



**POLYGONALmeister®**

This Polygon editing tool has been developed in Japan.

POLYGONALmeister will save you a lot of time spent on editing polygon data.

**POLYGON EDITING TOOL**

※POLYGONALmeister® is a registered trademark of UEL corporation.



◆Provides comfortable operation even tens of millions of polygons.※

◆Outputs high- quality data retaining form feature.

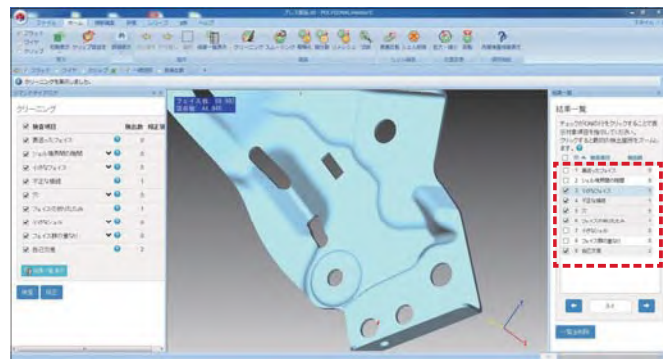
◆Offers intuitive operation.

※Please refer to the HP for more information about PC spec and the amount of data.

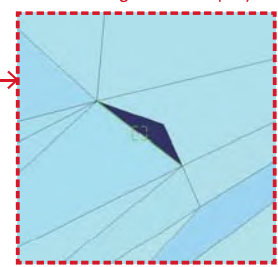


### Cleaning Command

Automatically detects a problem such as the reversed face, the gap, the irregular connection, the hole, and the self-intersection, then repairs them. Also, you can focus on the part that couldn't be repaired automatically.



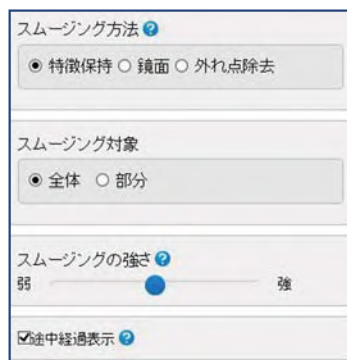
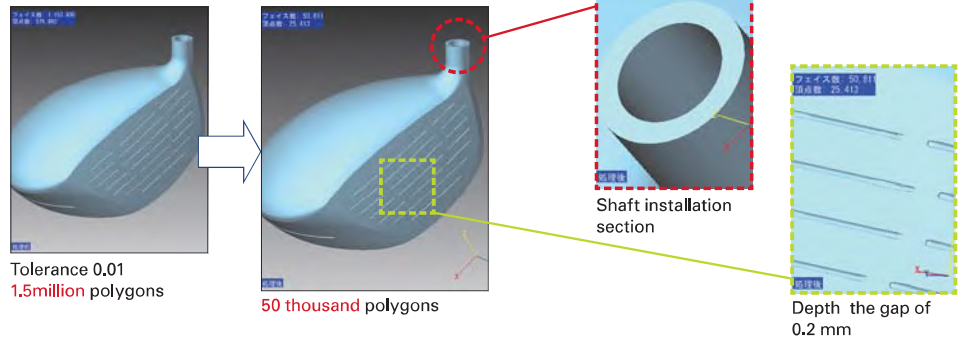
The part that error is detected can be enlarged and displayed.



### Simplify Command

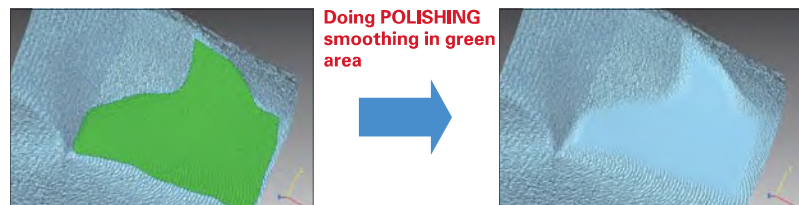
Enables you to simplify so that the shape doesn't change larger than specified precision and allows you to simplify so that the form feature maintains up to the number of specified faces.

e.g.) Maintains the figure of an arc or a finely groove even though the amount of data is reduced to 1/30.



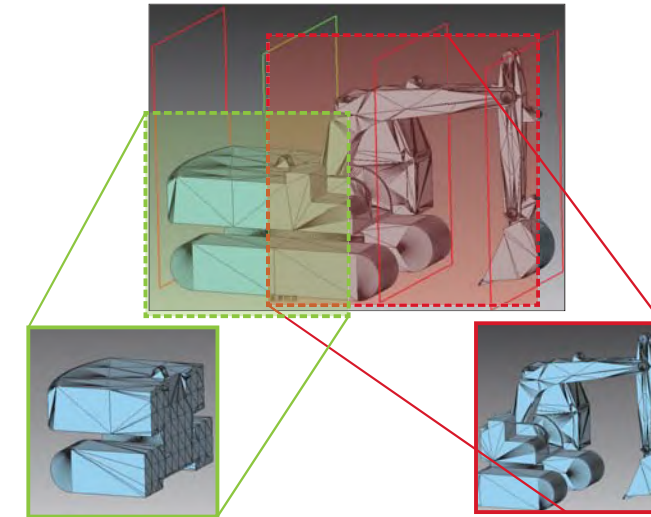
### Smoothing Command

When selected FEATURE PRESERVING, enables you to smooth while keeping radius as much as possible. When selected POLISHING (Advanced Option), allows you to smooth even on a rough surface.



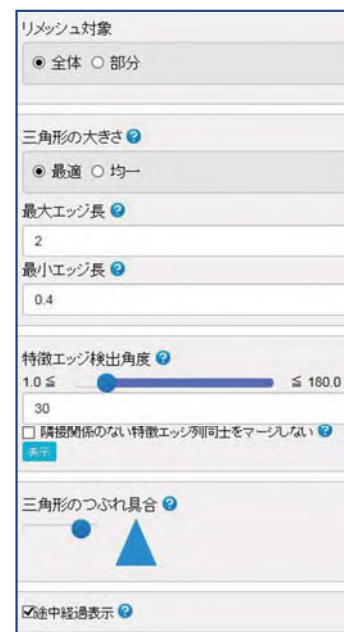
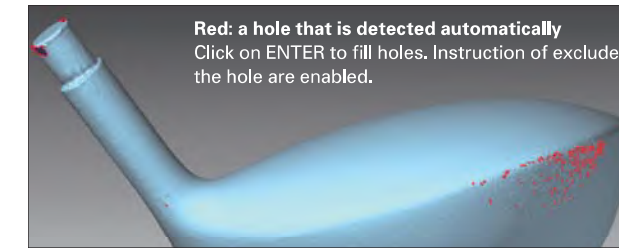
### Cut command

Enables you to use the cutting auxiliary line (Planes of constant interval perpendicular to the axis) and select the intersecting curve for use in cutting. You can also divide the polygon mesh by specifying the clearance.



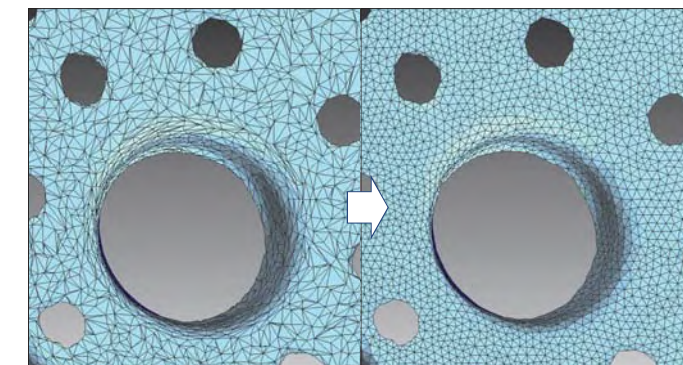
### Fill holes/Fill cave Command

Automatically detects hole, then allows you to select the pattern of fill holes. Fill cave is an optional command at extra cost.



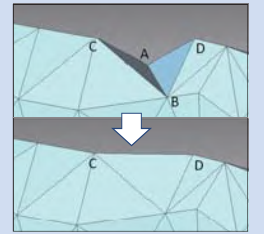
### Remesh Command

Composes mesh to make each face of polygon mesh to be close to an equilateral triangle. Enables you to remesh to faces with uniform size. You can also remesh to be large triangles in flat part and to be small triangles in bending part.

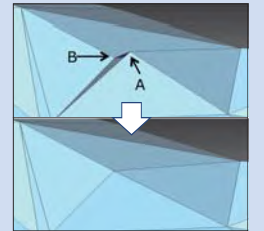


### Other Command

#### •Edge flip

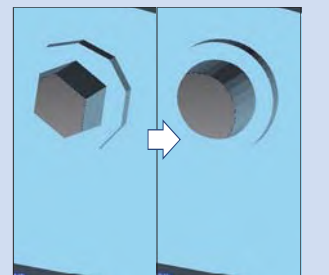


#### •Merge vertices



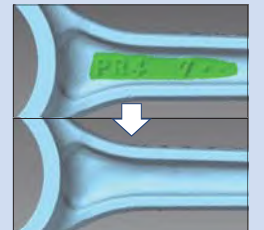
#### •Subdivision

Estimates the bulge of face, decomposes faces finely in order to reflect the bulge. When the mesh is rough, the entire mesh can be smoothed.

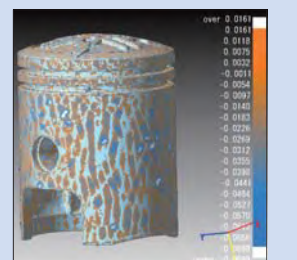


#### •Defeature

Users will specify the range and get rid of the characteristic parts such as the curves and the boss in the mesh.



#### •Distane Contour



#### •Thicken(βfunction)

