

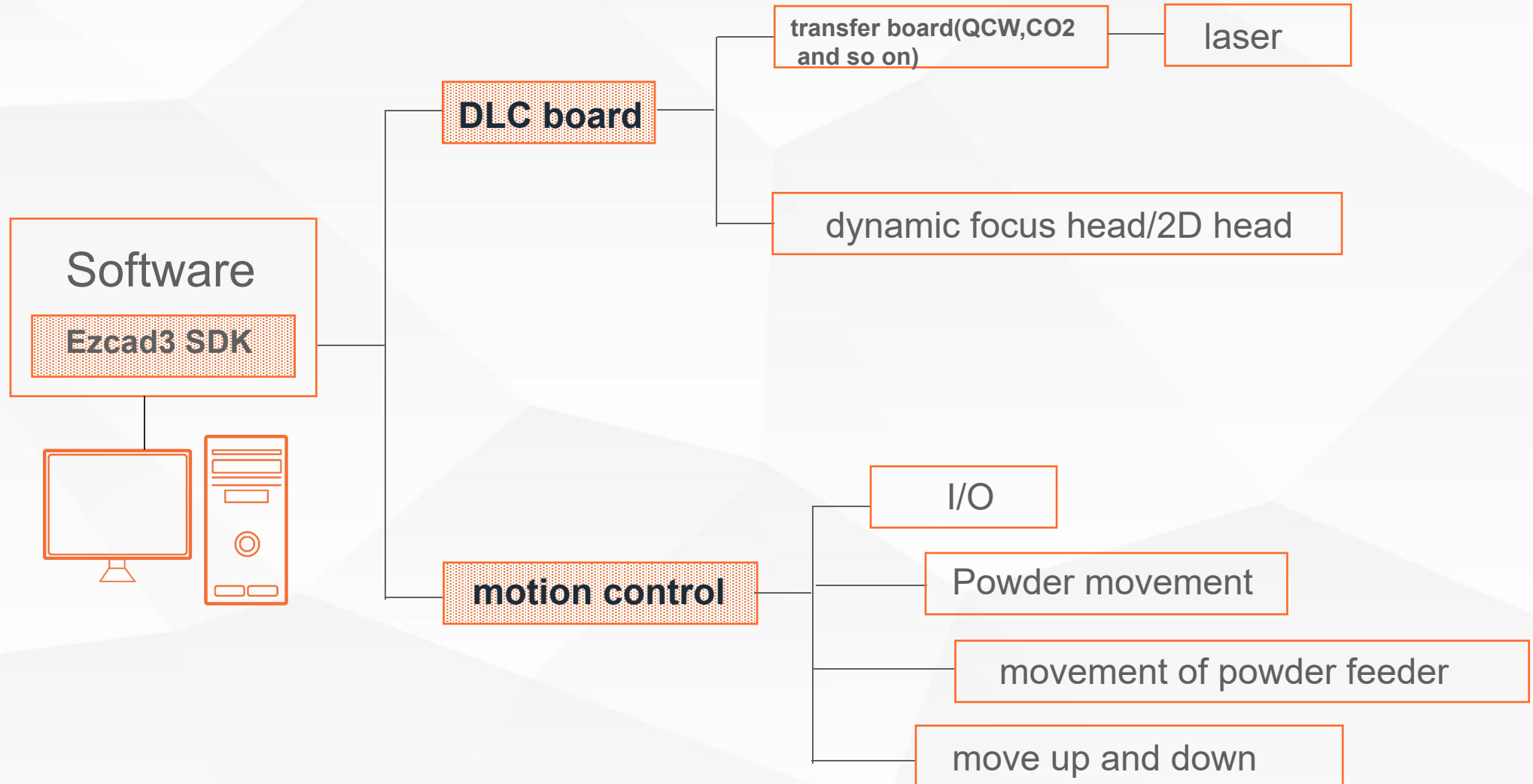


# Solution for 3D printing

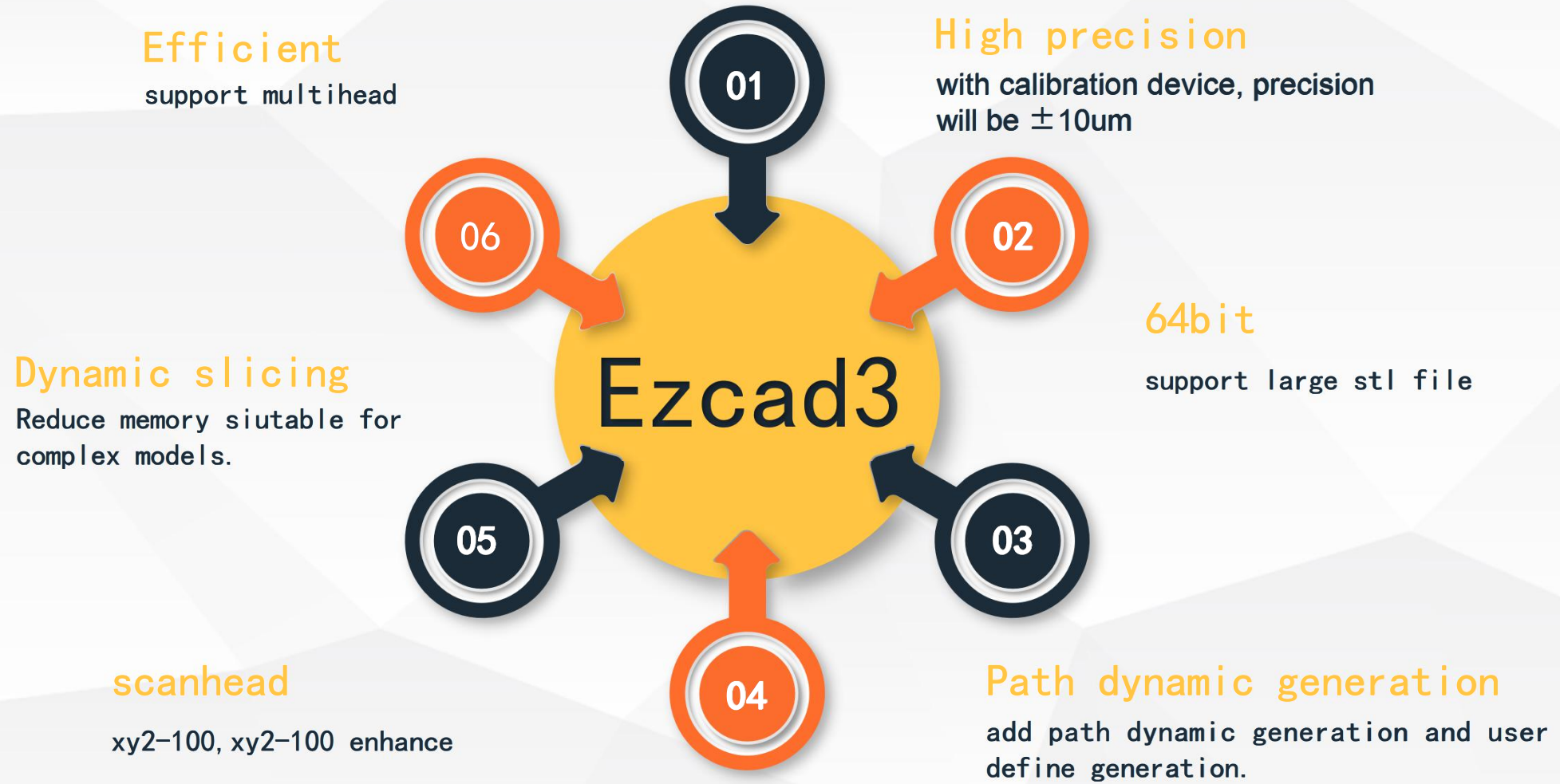
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BJJCZ

# Overview



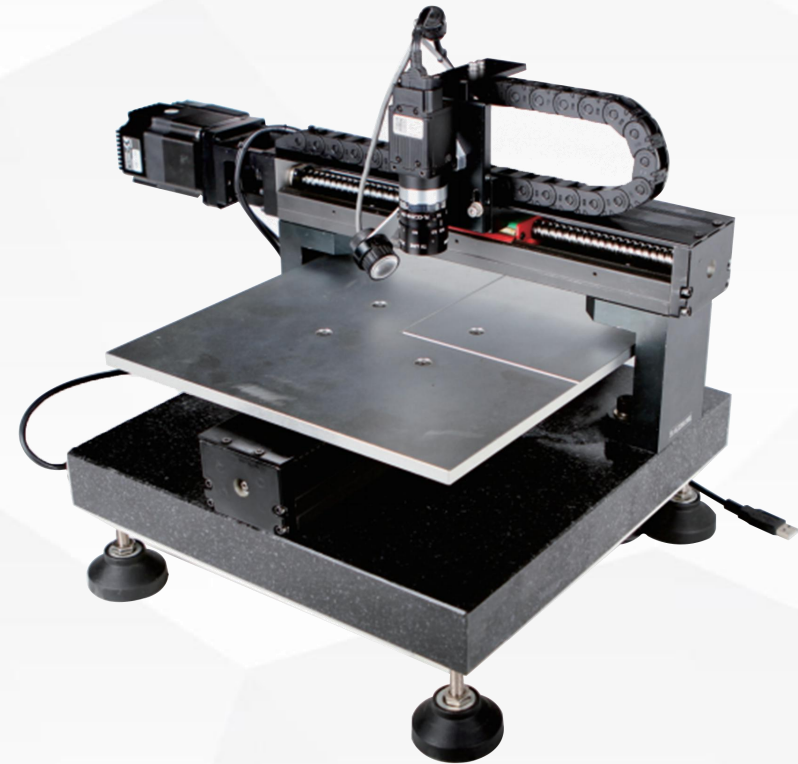
# Advantage



## 3D calibrate



Camera instead of eyes to  
make high precision  
calibration, for 100X100mm  
area, precision will be  $\pm 10\mu\text{m}$ .



## 64-bit kernel



EZCAD3 developed for 64bit Windows operation,support large STL files,support multi-threaded mode of operation,improve software computing and rendering efficiency.

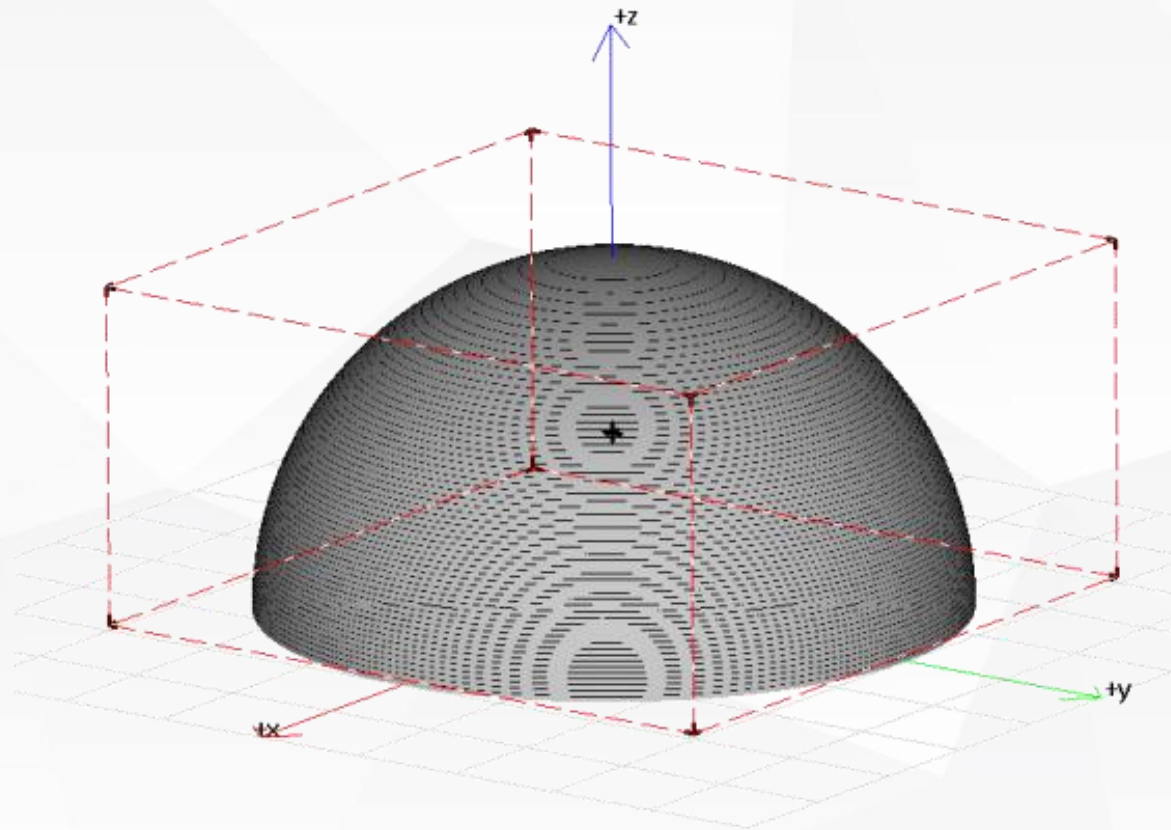


模型来源: <http://www.thingiverse.com/thing:46646> by user ajolivette

# Dynamic slicing



After import STL file, user can use slice function to slice the model. support slice before marking, also support slice during marking. Software support import slice data generated by other software.

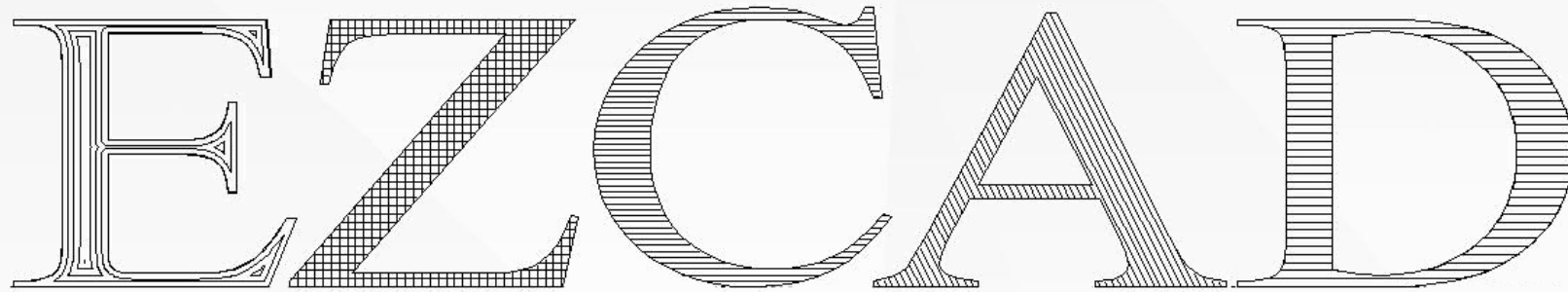


# Scan path generation (hatching)



## Basic path generation:

Basic path generation type: level, grid, shape, bow and so on.

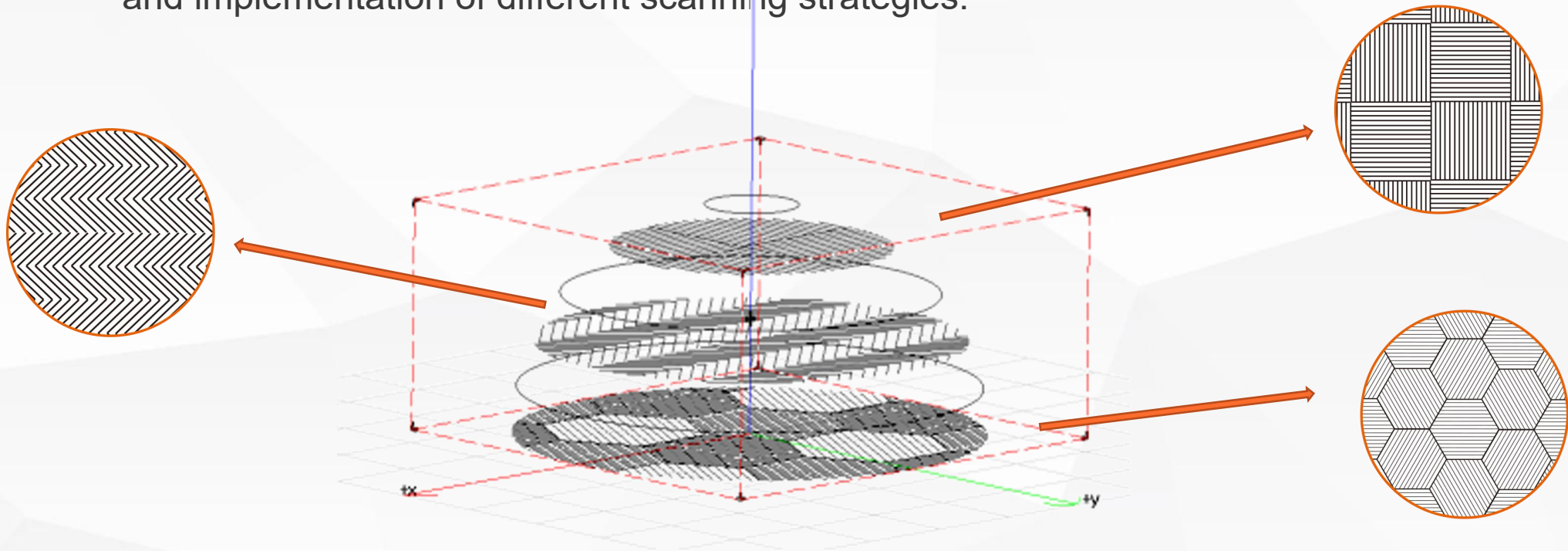


## Scan path dynamically generated:

Slice operation will produce a large amount of slice data, and the generation of paths for each slice will result in a larger amount of data. In order to save the computer memory footprint, reduce hardware configuration requirements, EZCAD3 development kit to provide real-time path generation, that is, in the processing of the current slice to generate the next slice of the path, while cleaning the upper slice of the path data, thus ensuring a considerable Small memory footprint.

## Custom scan path generation:

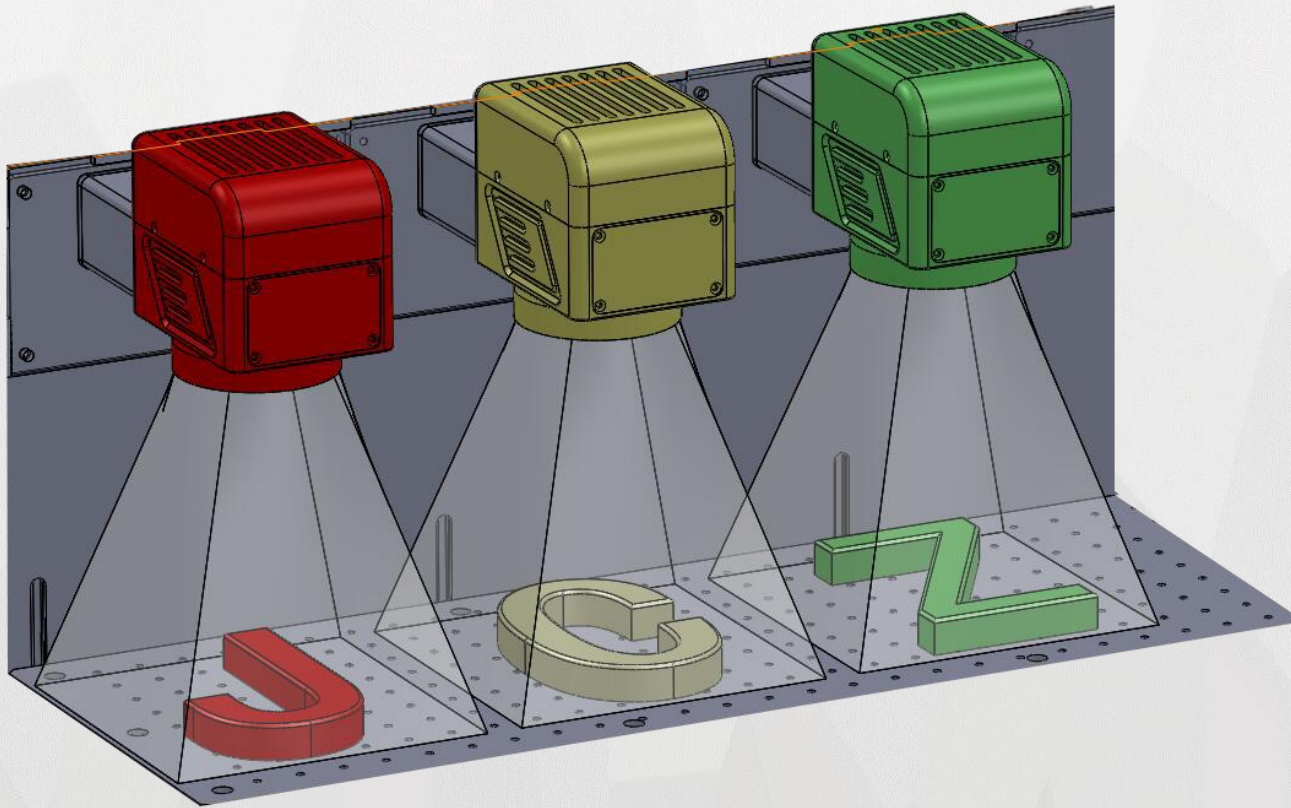
The scanning path not only determines the machining accuracy, but also affects the residual stress after the workpiece is machined. The user can draw any scan path pattern by software, and the software can apply the sketched pattern to each slice by projecting the outline of the slice. This provides the basis for user testing and implementation of different scanning strategies.



Support XY2-100(16bit),XY2-100 enhanced(18bit),newson(20bit).  
The higher accuracy the better marking result.Compare 18bit to 16bit,100X100mm area,accuracy improve 4 times, from 1.53um to 0.38um



# Multihead



One computer support multi boards, laser source and scanheads, and marking at same time to make high productivity(max 8pcs)



# THANKS

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