# ATSS – Glicer

additive technology software solution

www.atssgroup.com

# ATSS – additive solution

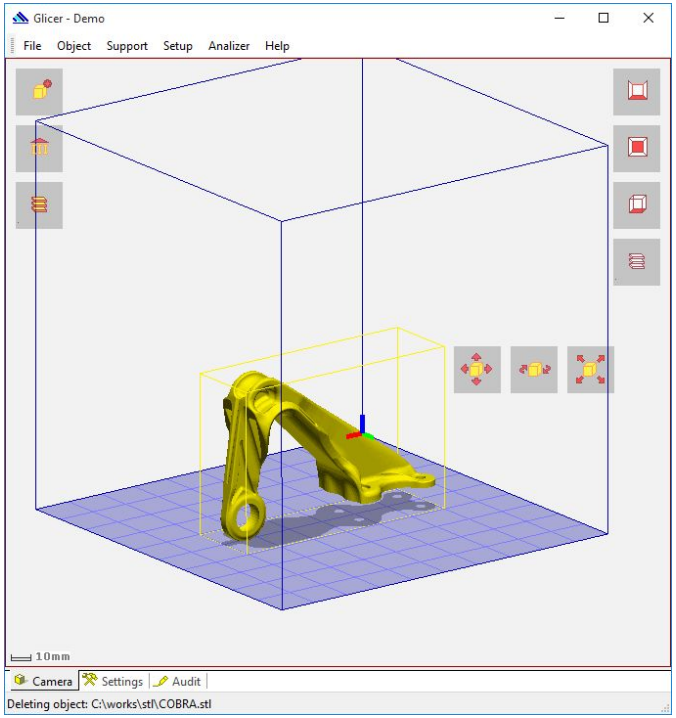
ATSS::Glicer – new application for SLS 3D printers

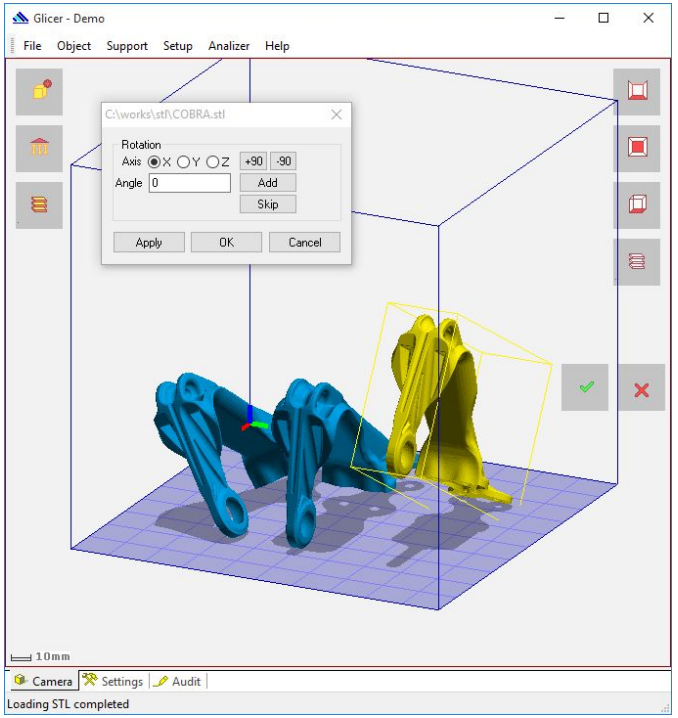
- Camera composing
- Support structures design
- GCode building
- Analyzing

# ATSS::Glicer – Composing

## Manual mode

- rotation
- scaling
- moving

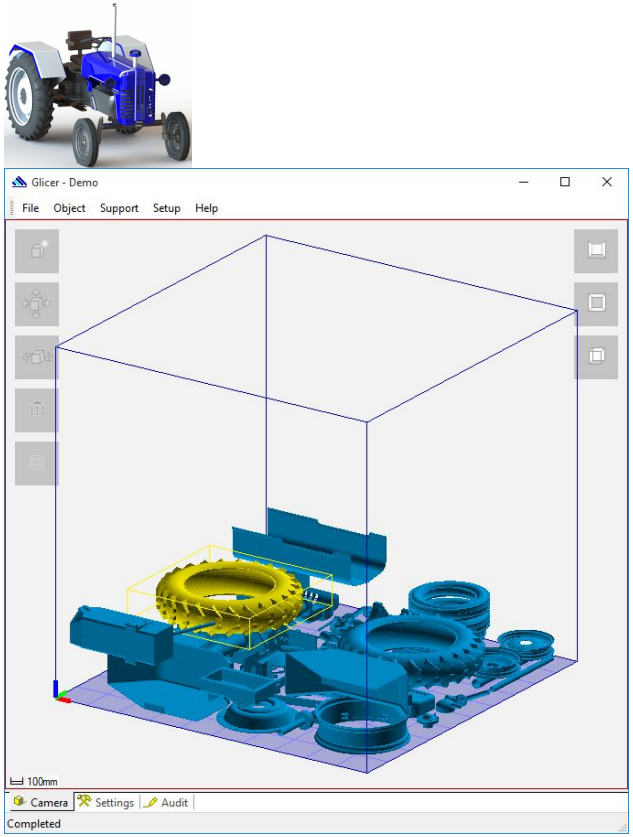


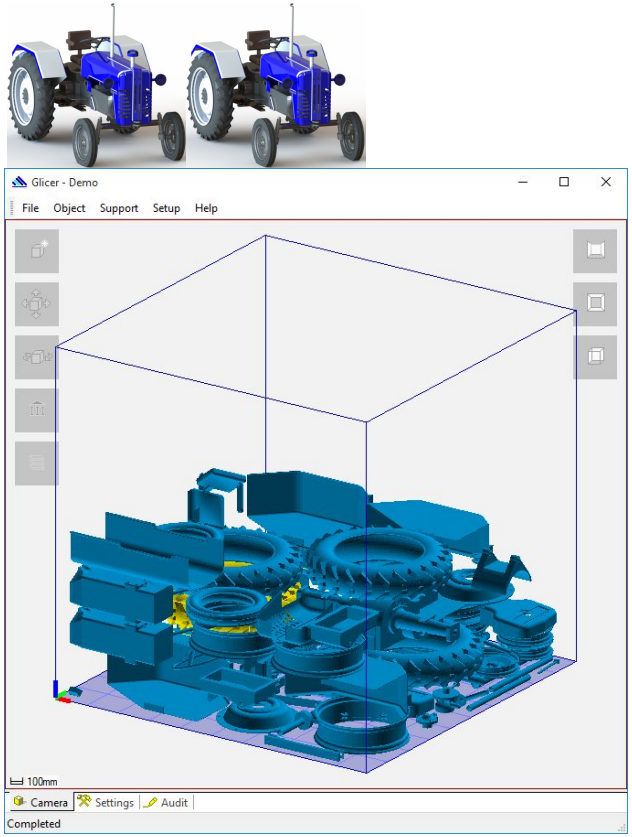



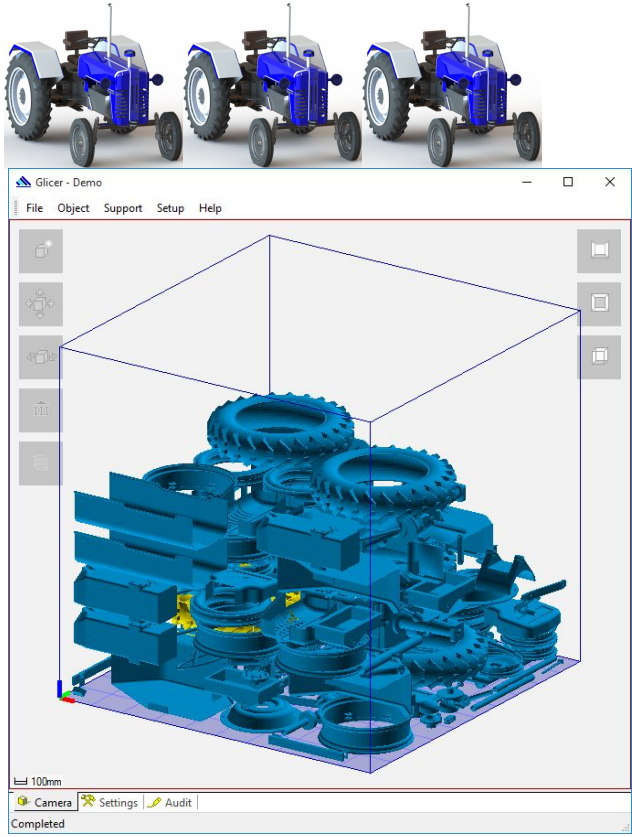

*Model from grabcad.com*

# ATSS::Glicer – Composing

## Automatic mode – 3D composing



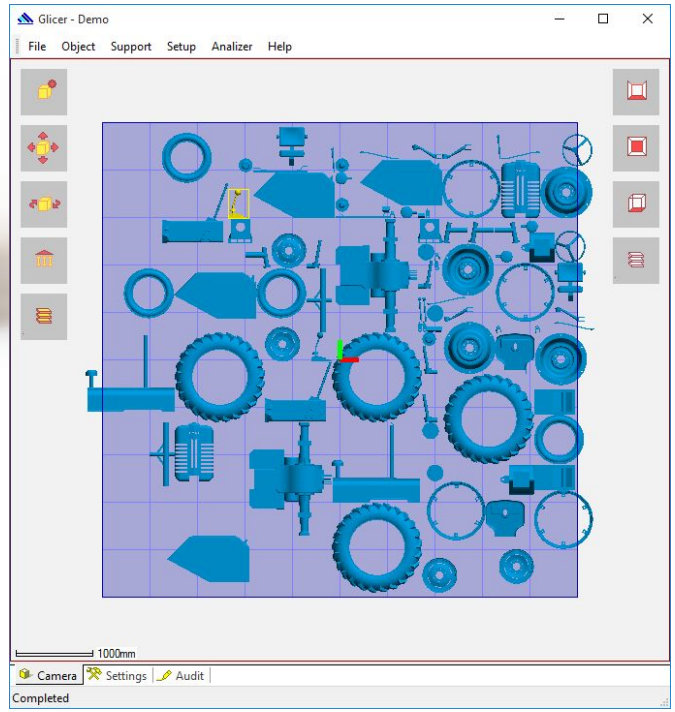



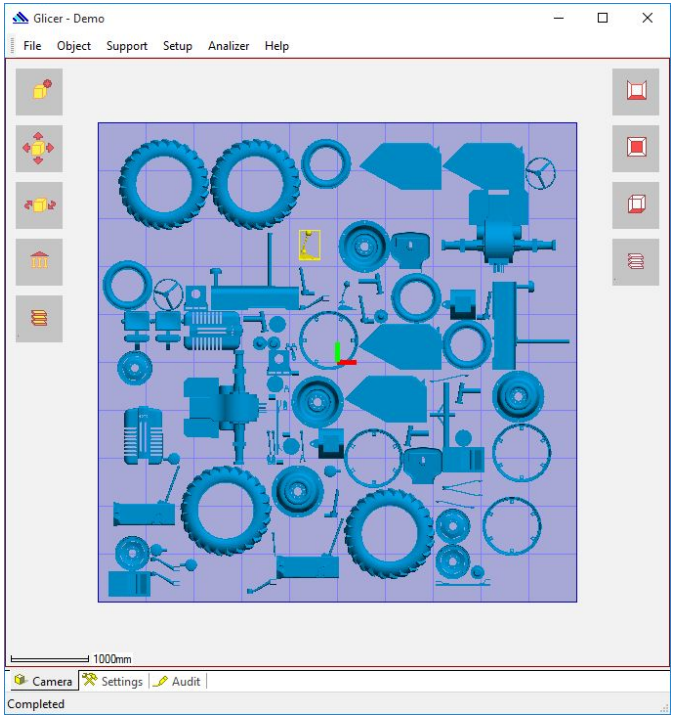
# ATSS::Glicer – Composing

## Automatic mode – plane optimization

*Model from grabcad.com*




*Auto rotation off*

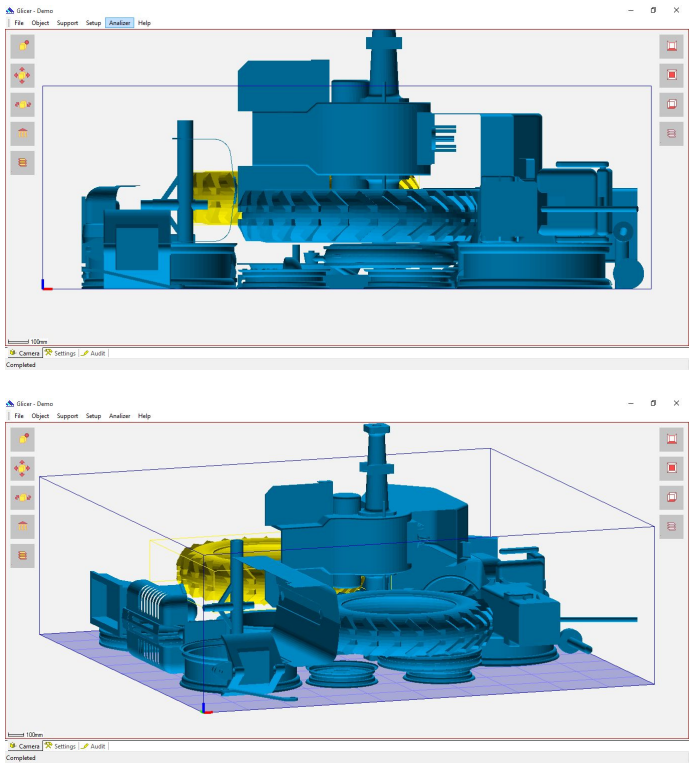



*Auto rotation on*

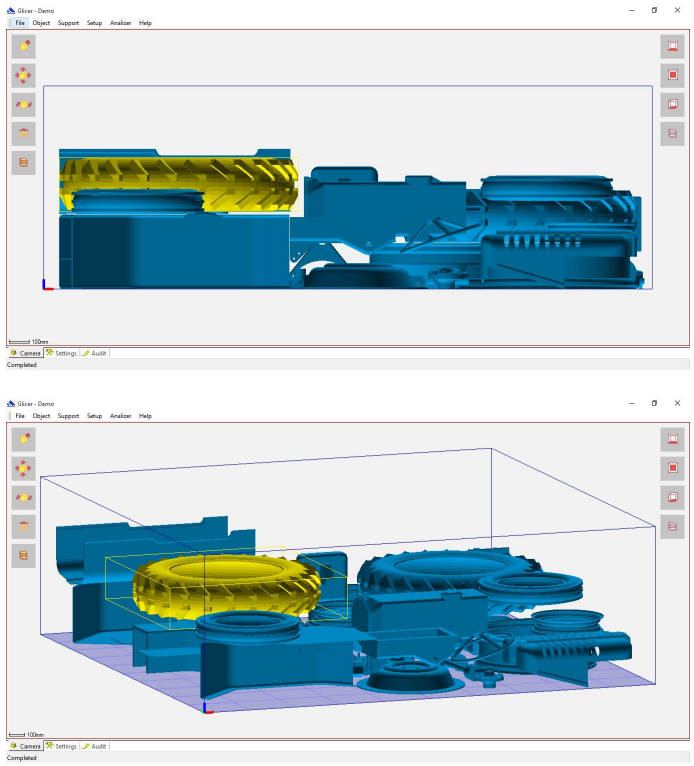
# ATSS::Glicer – Composing

## Automatic mode – height optimization

Height optimization off

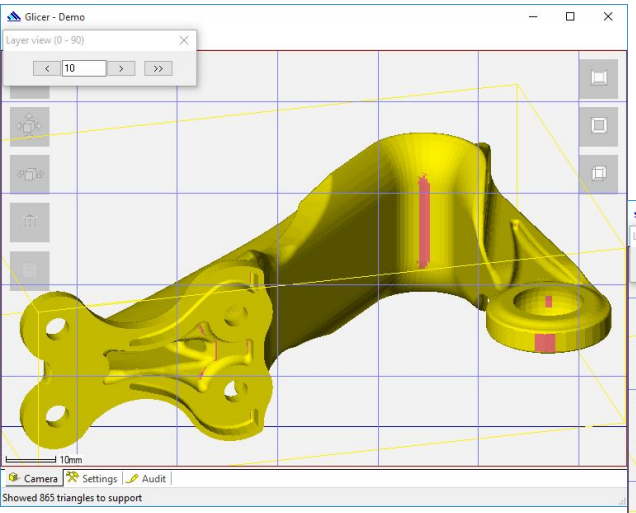


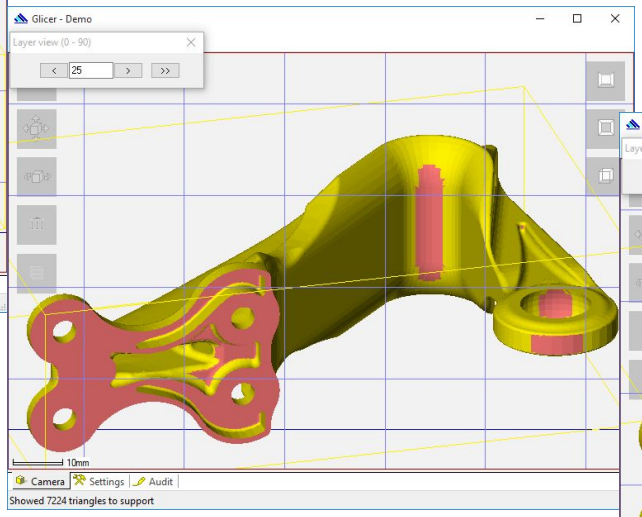
Height optimization on

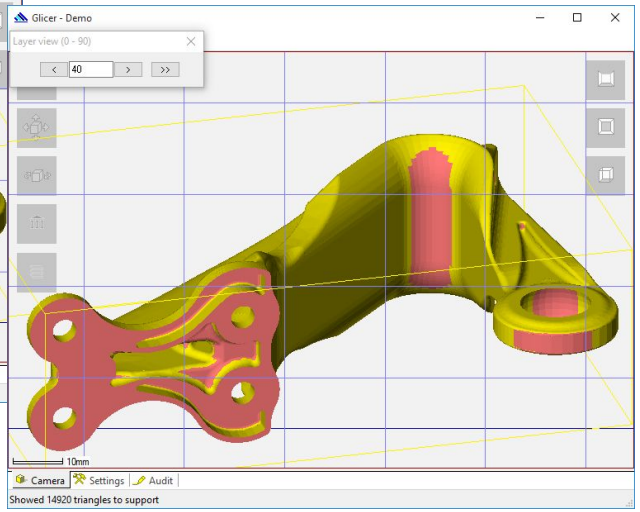


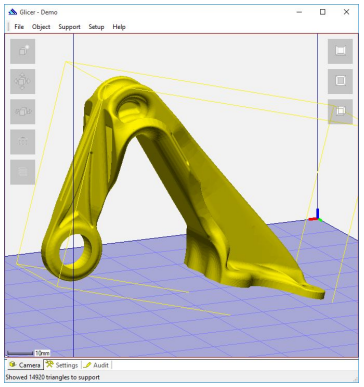
# ATSS::Glicer – Supporting

## Supported areas controlling



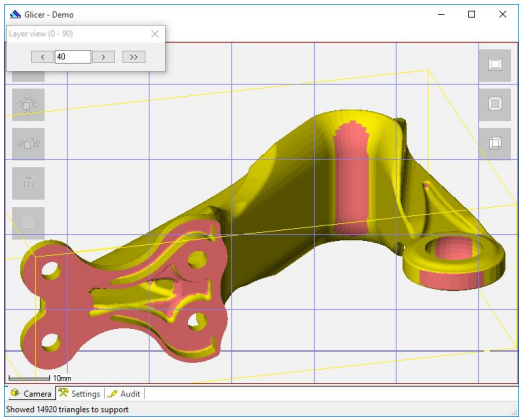



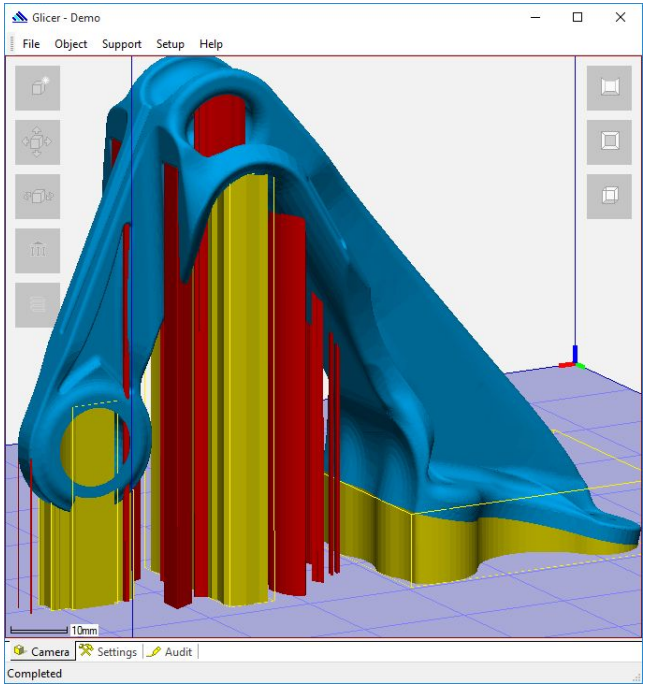

*Model from grabcad.com*

# ATSS::Glicer – Supporting

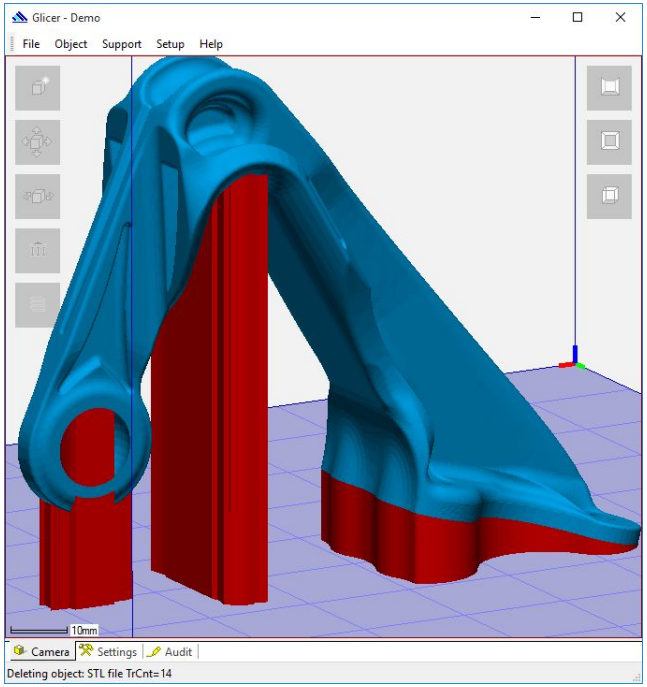
## Support bodies building




*Model from grabcad.com*



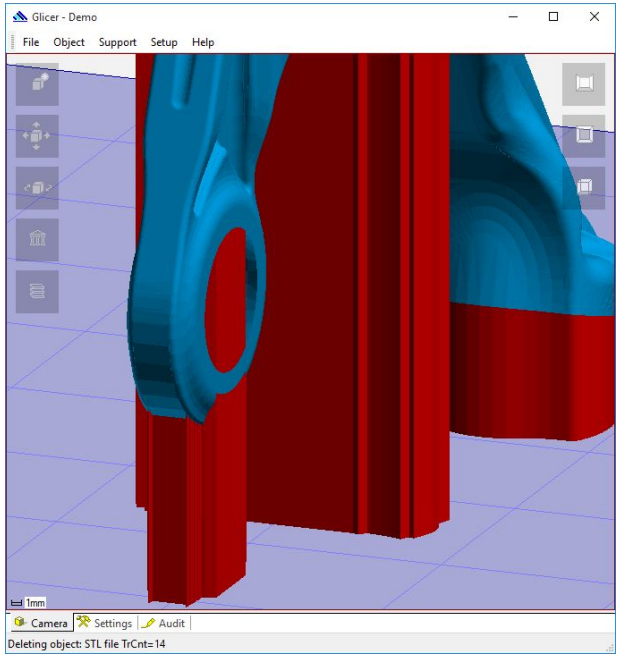

*Not filtered*

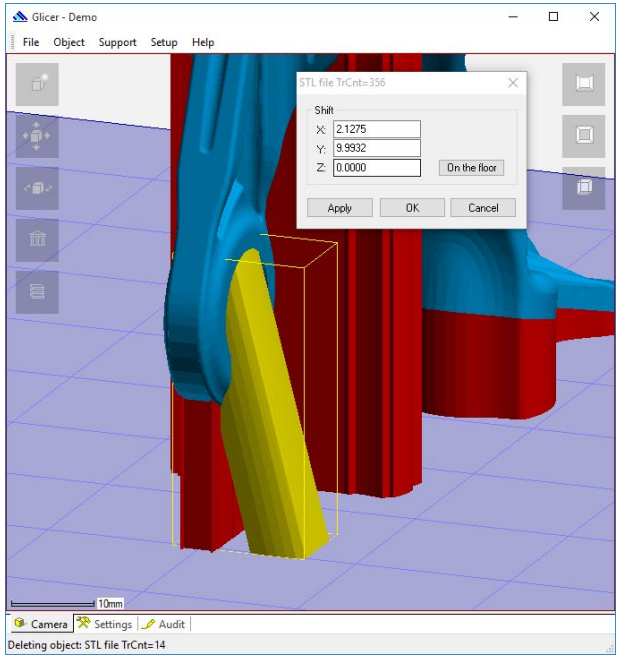


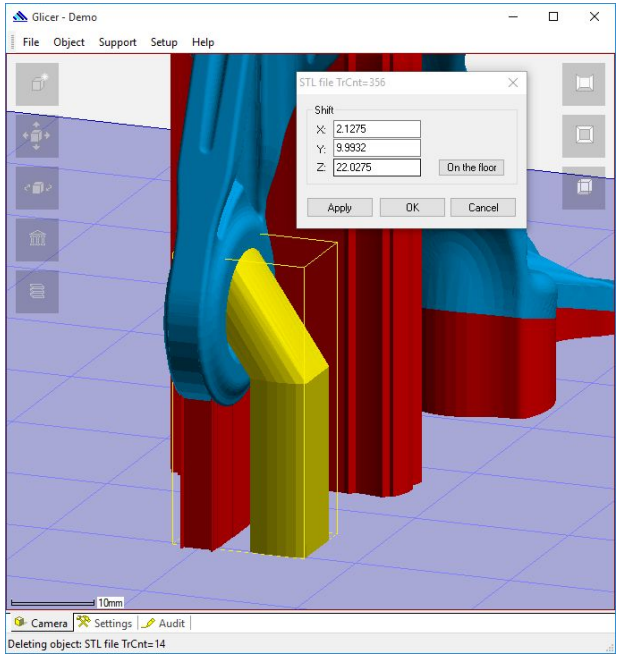

*Filtered*

# ATSS::Glicer – Supporting

## Support bodies placement



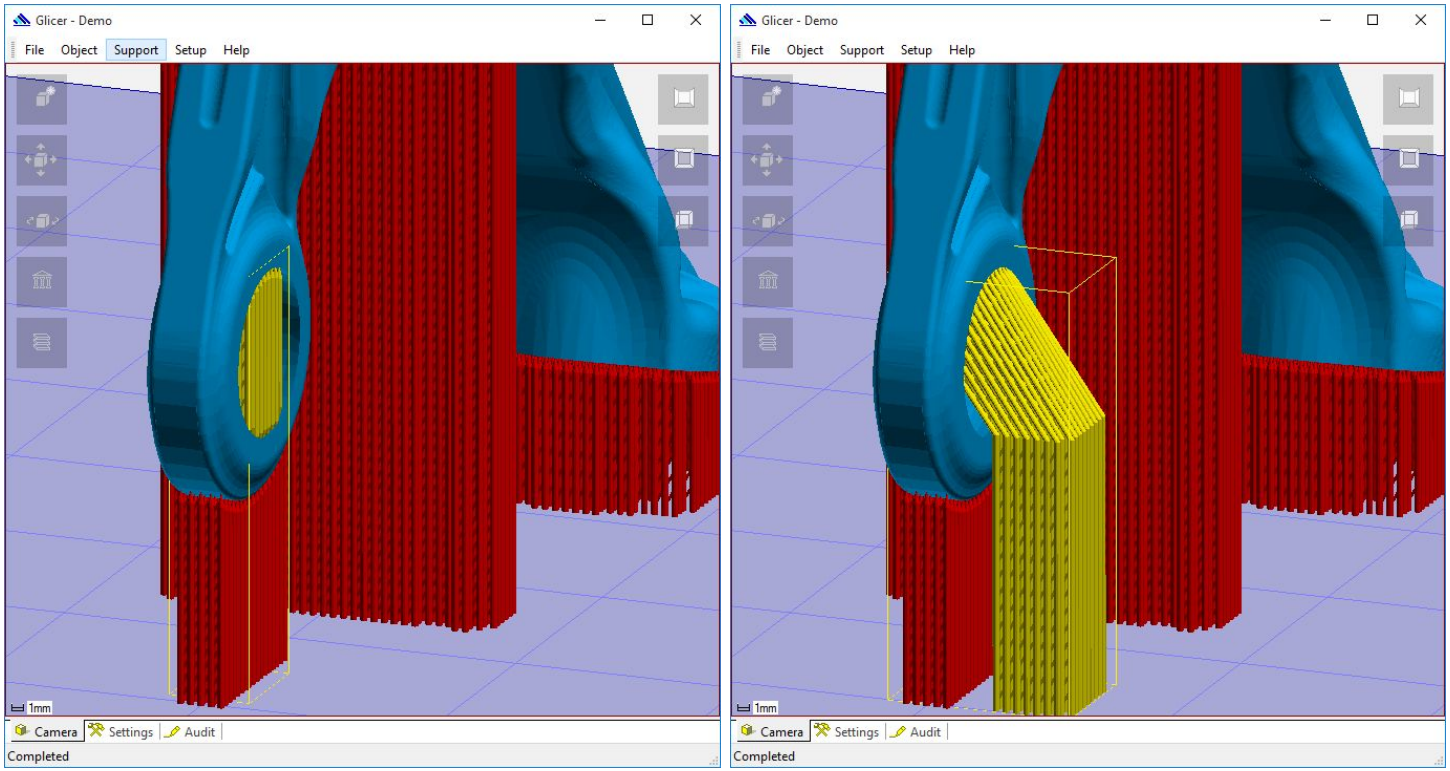




*Model from grabcad.com*

# ATSS::Glicer – Supporting

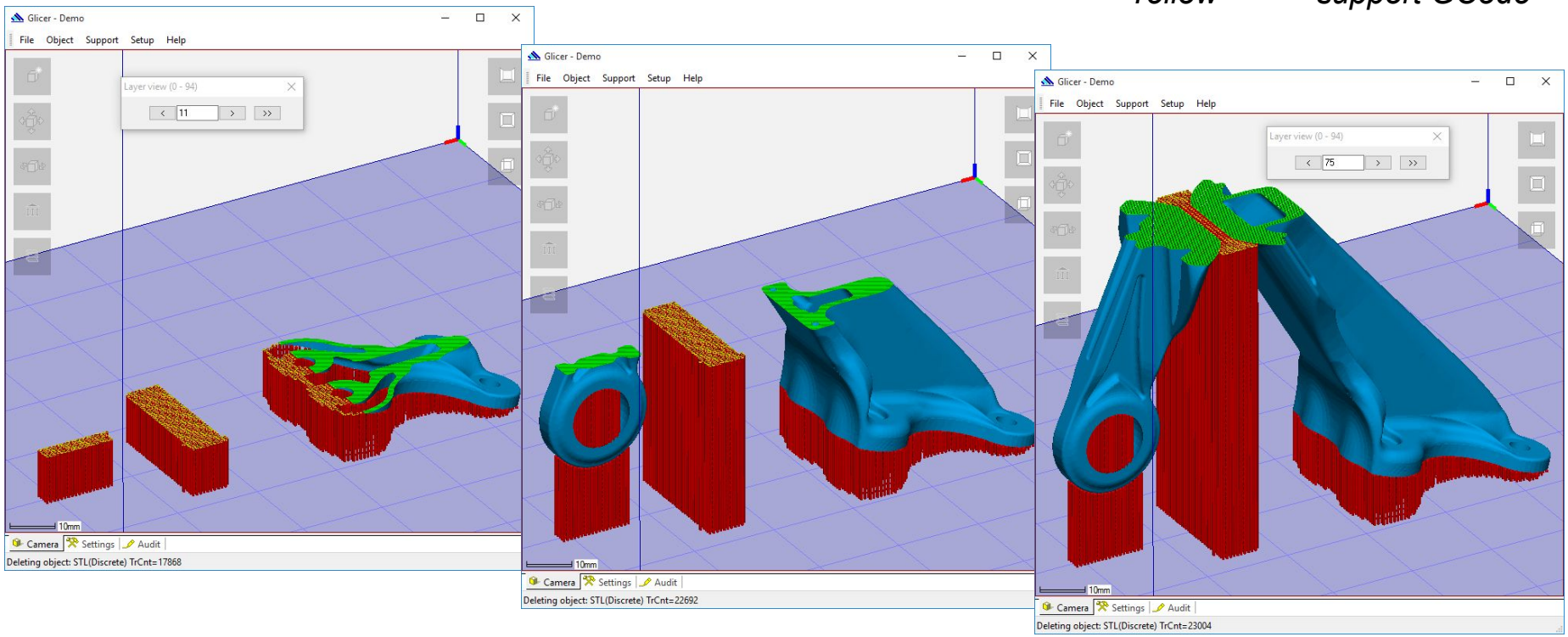
## Building support structures



# ATSS::Glicer – GCode

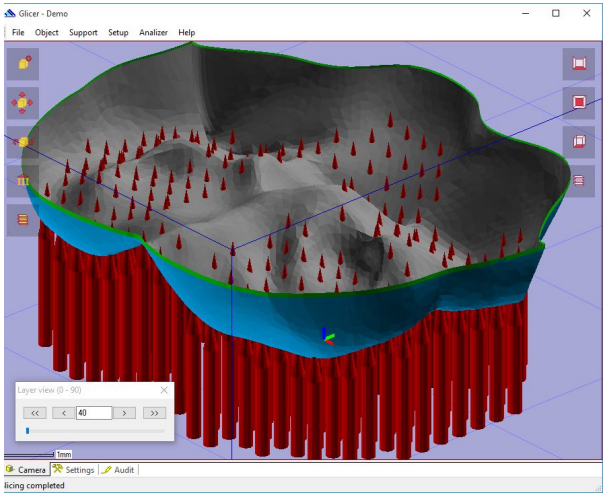
## Growing layer visualization

*Blue – model*
*Red – support*
*Green – model GCode*
*Yellow – support GCode*

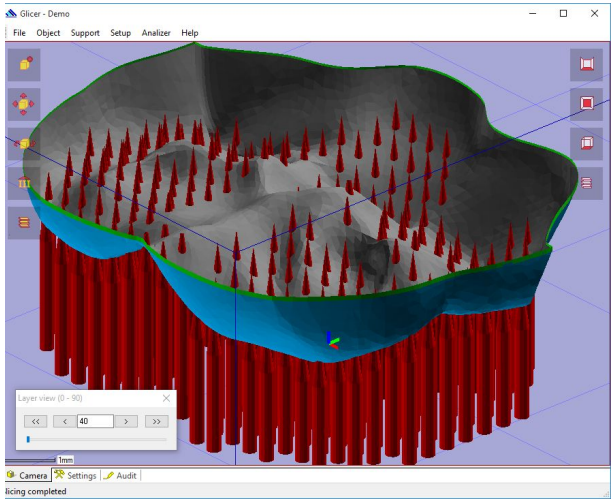


# ATSS::Glicer – Supporting

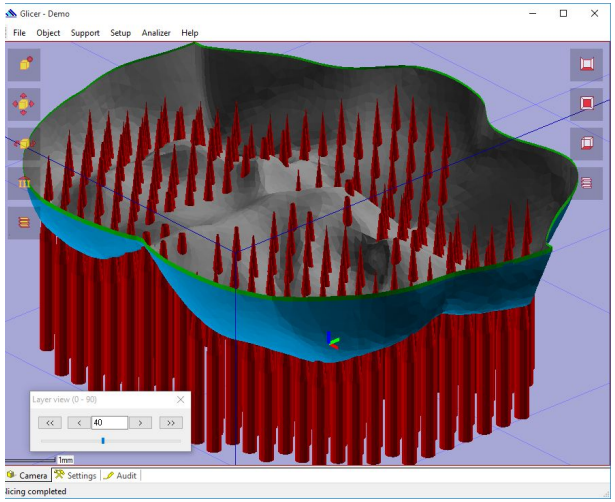
## Support and model crossing control




*0.3 mm*



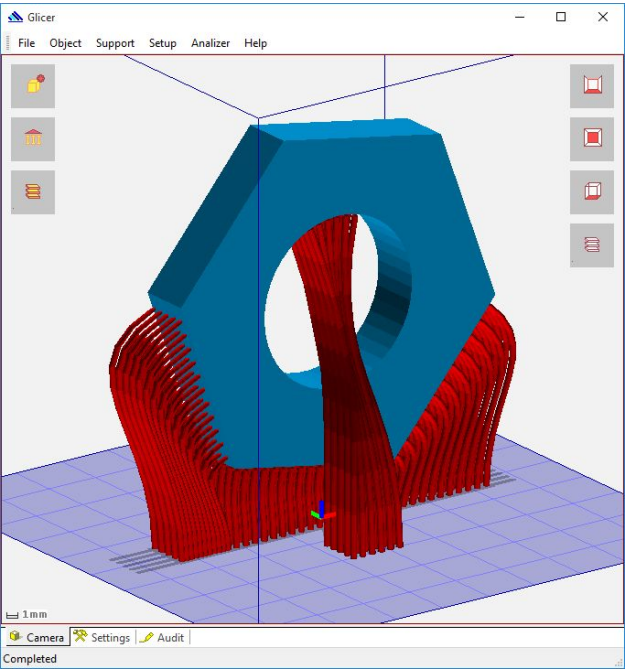

*0.6 mm*

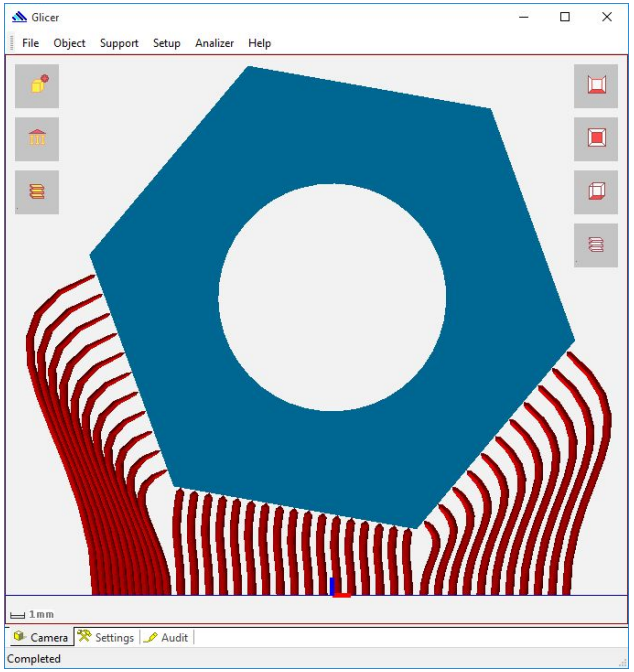


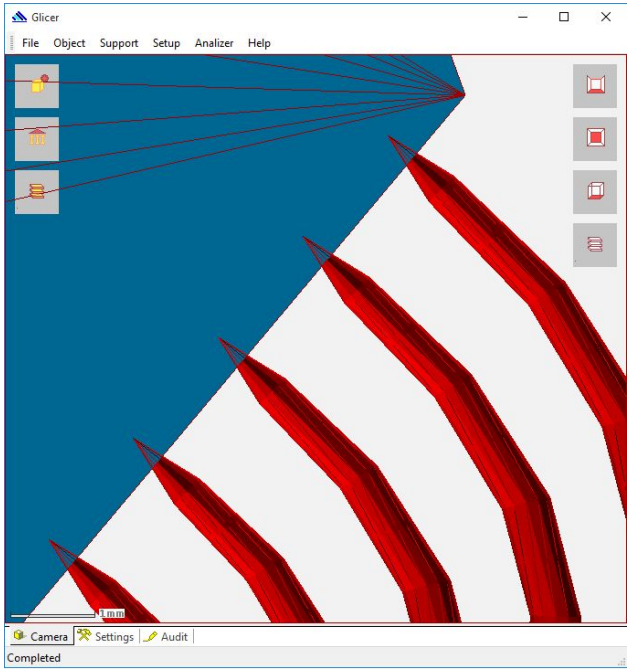

*0.9 mm*

# ATSS::Glicer – Supporting

## Support and model crossing control



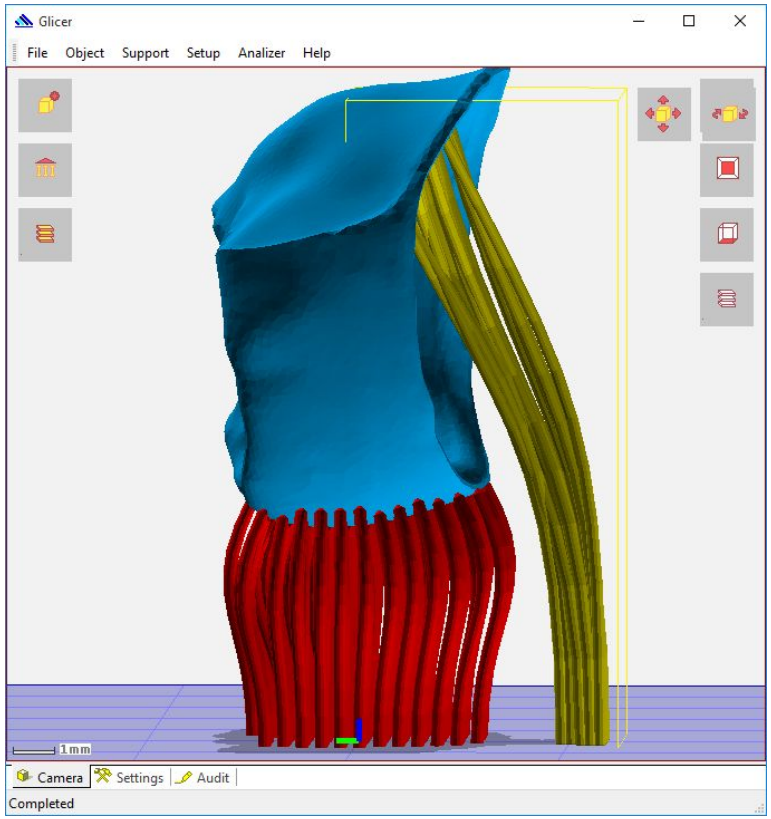



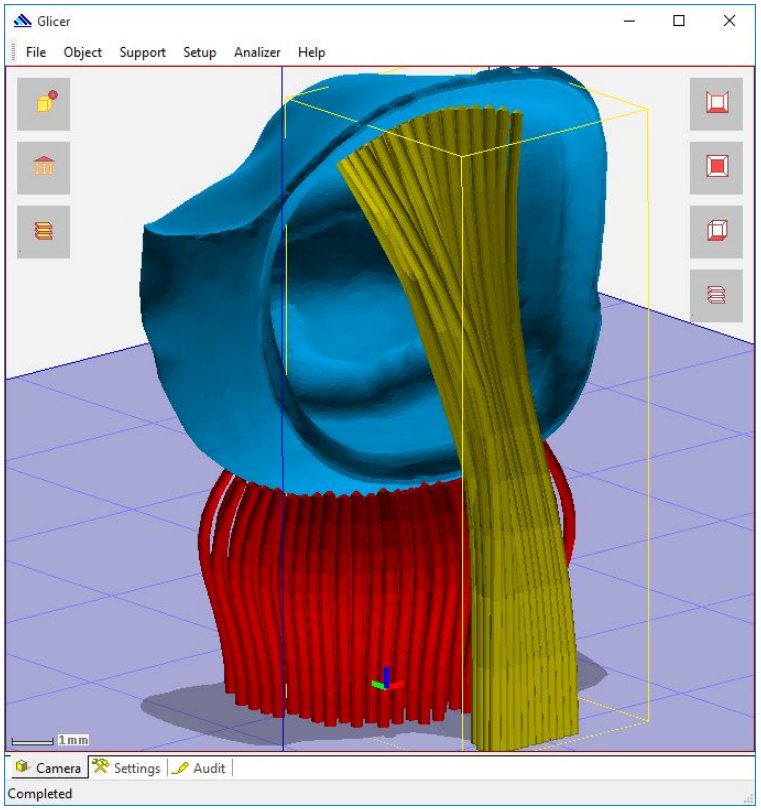




*Support structure as spline columns:*
*square of the intersection does not depend on normals of the surface*

# ATSS::Glicer – Supporting

## Support and model crossing control

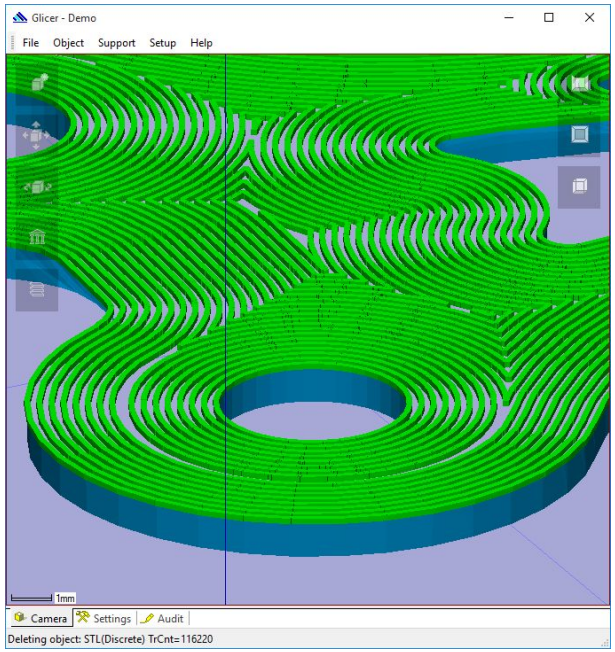


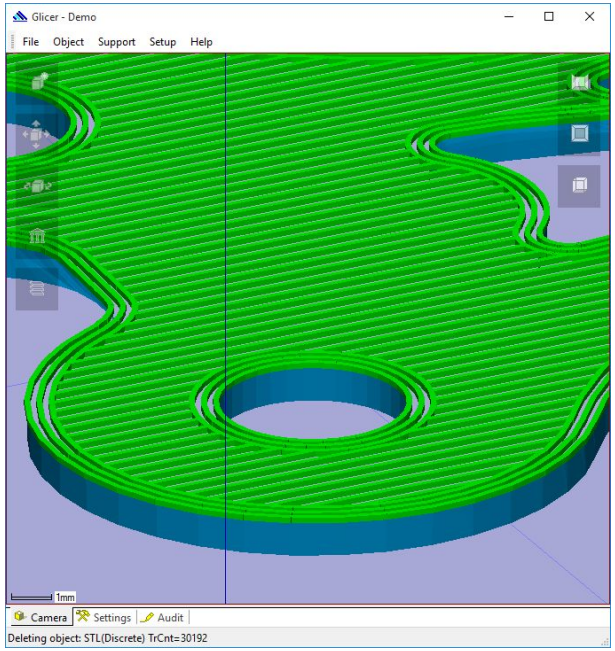



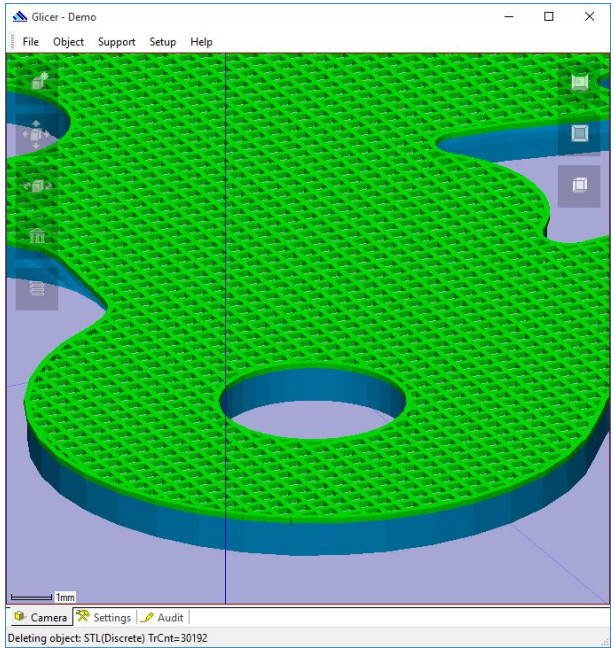
# ATSS::Glicer – GCode

## GCode building tools

- Equidistance offset perimeters
- Various hatching patterns

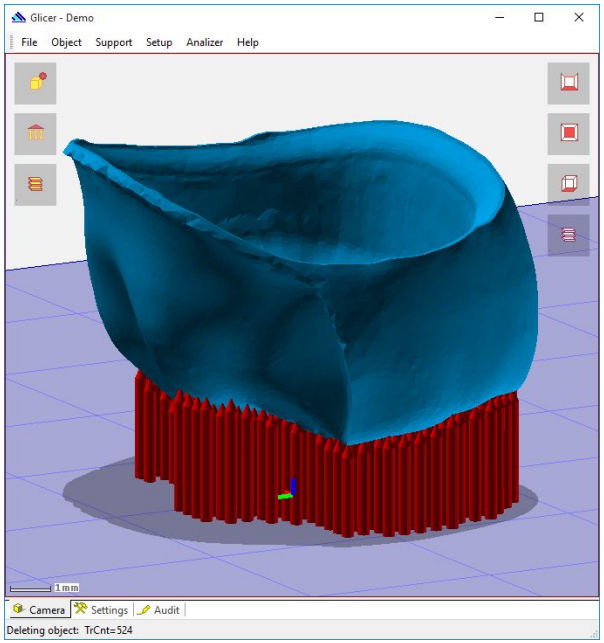


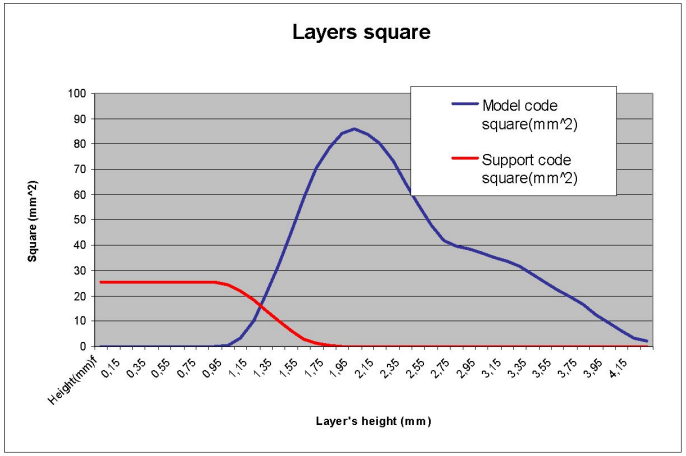



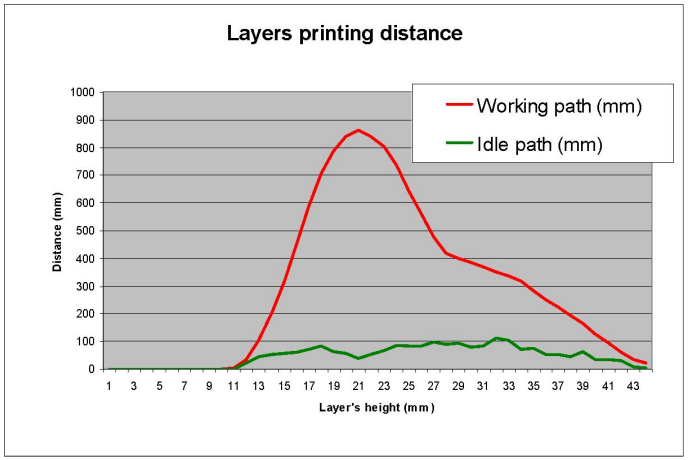



# ATSS::Glicer – GCode

## GCode statistic



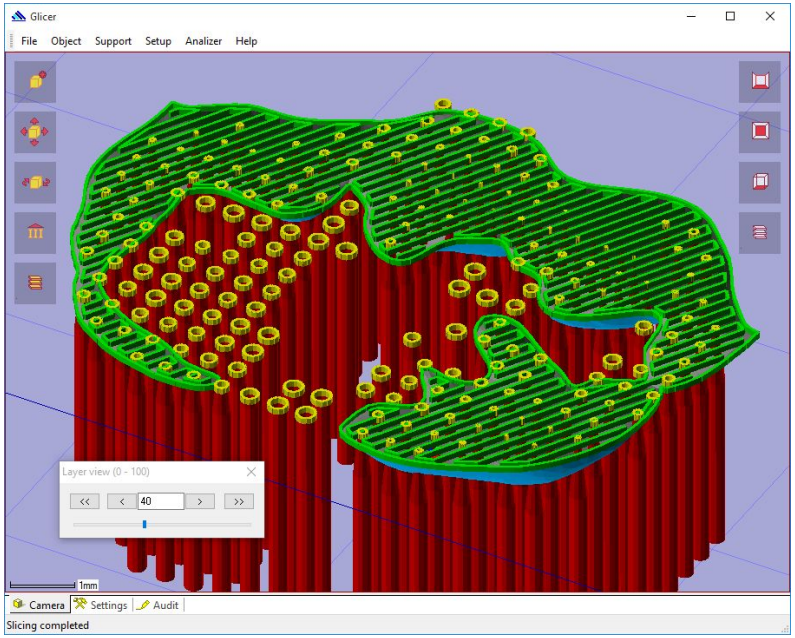



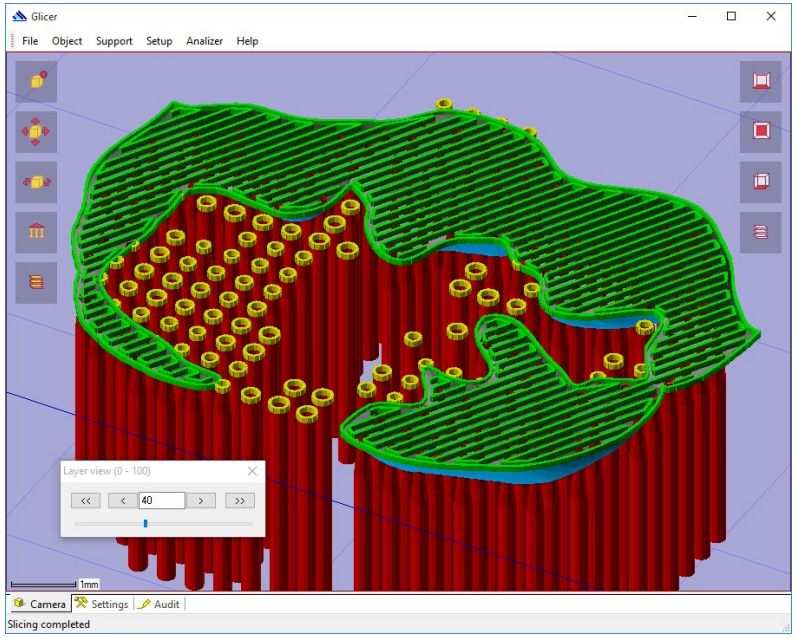
# ATSS::Glicer – GCode

## Supporting GCode filtering

*Blue – model*
*Red – support*
*Green – model GCode*
*Yellow – support GCode*



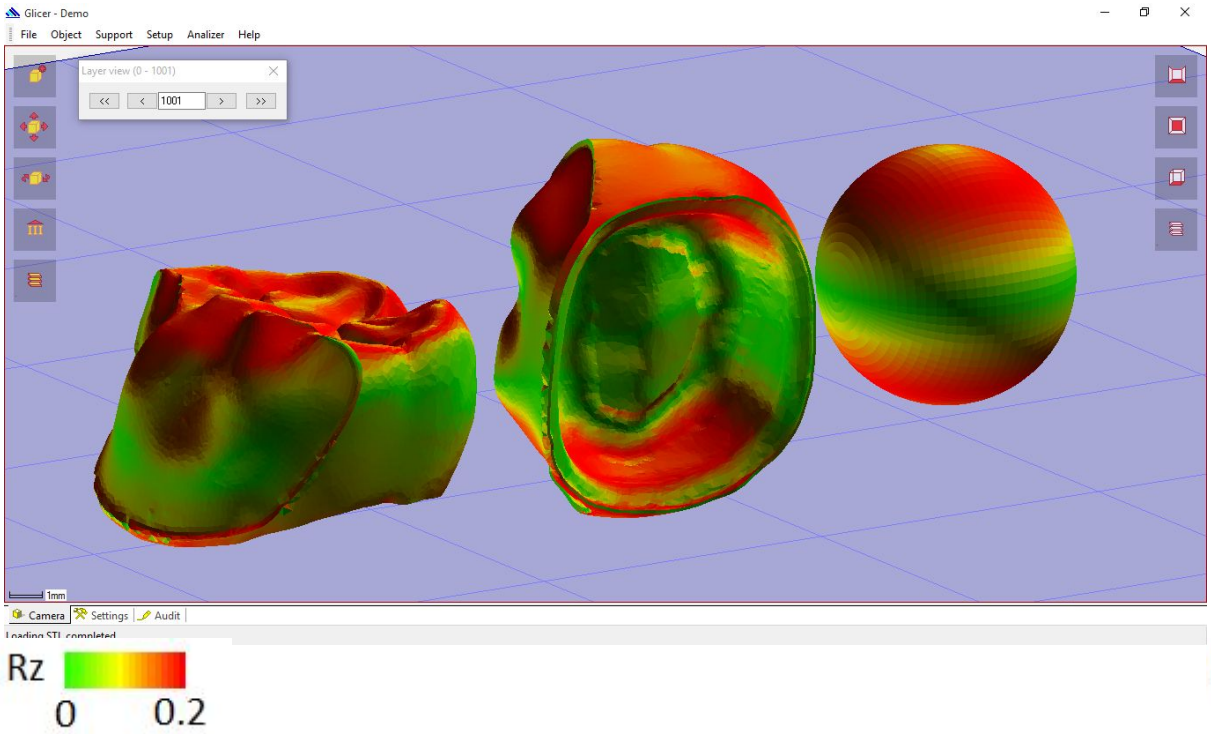

*Not filtered*

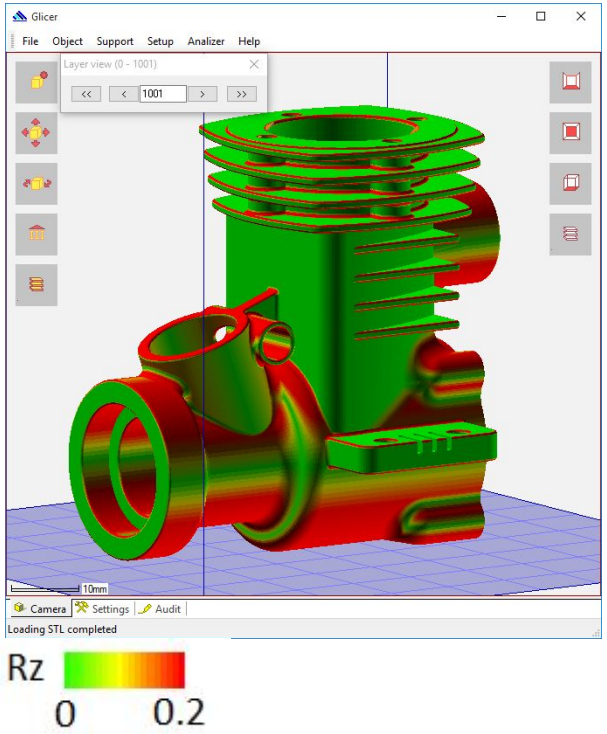



*Filtered*

# ATSS::Glicer – Surface quality

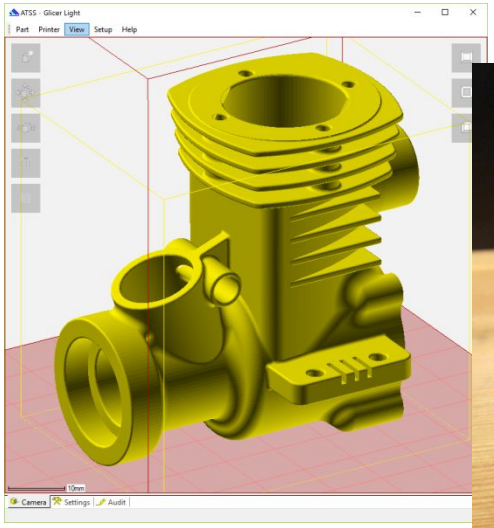
Ra vizualization (L = 0.25)



# ATSS::Glicer - Production

SLS 3D printer
«Red Rock»
and
ATSS Glicer



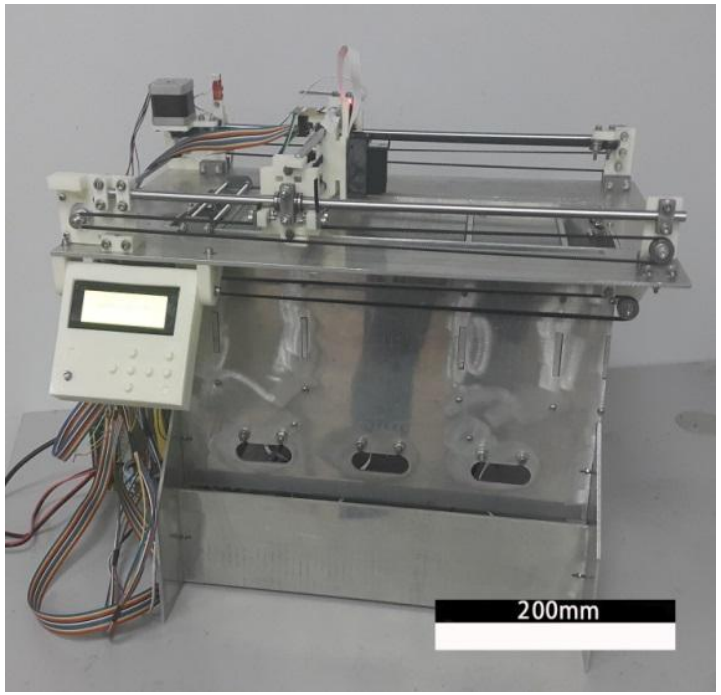
# ATSS::Glicer - Production

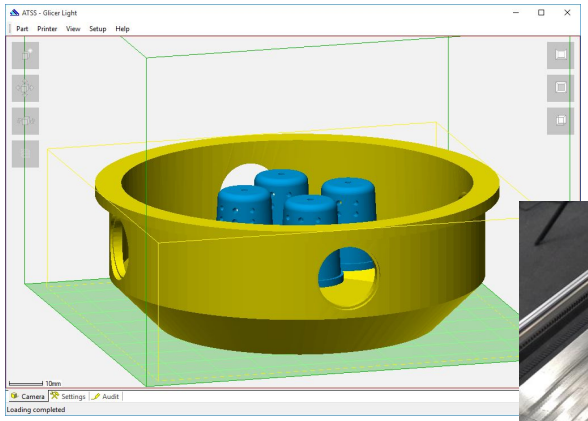
Binder Jet 3D printer

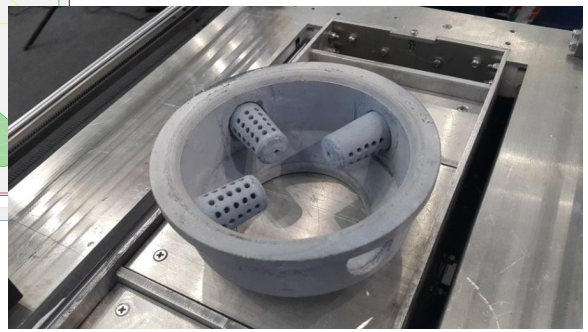
«Plan B»

and

ATSS Glicer



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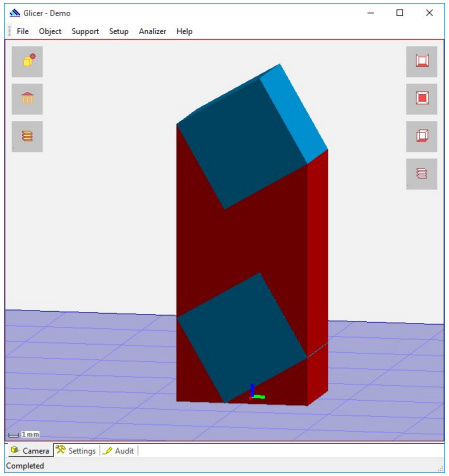
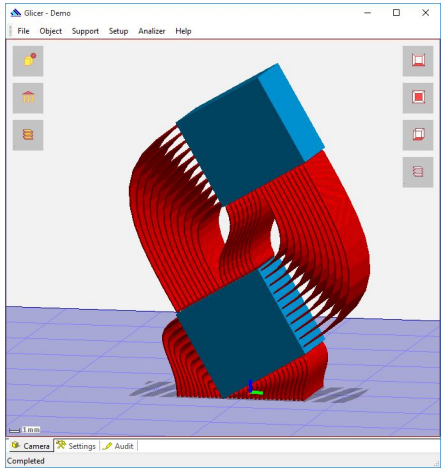

Glicer - Demo
File Object Support Setup Analizer Help
Camera Settings Audit
Completed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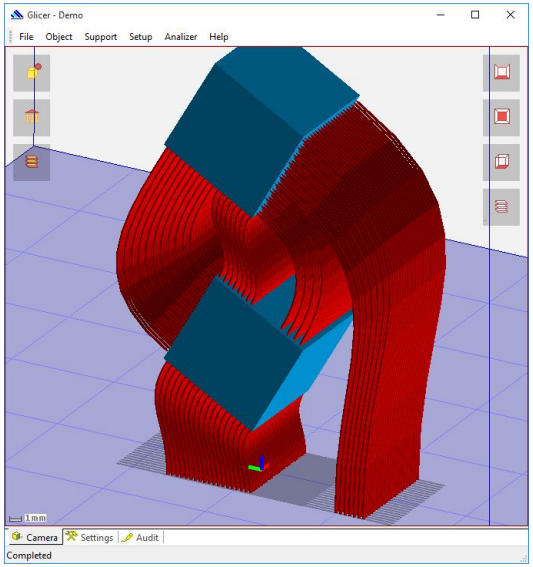
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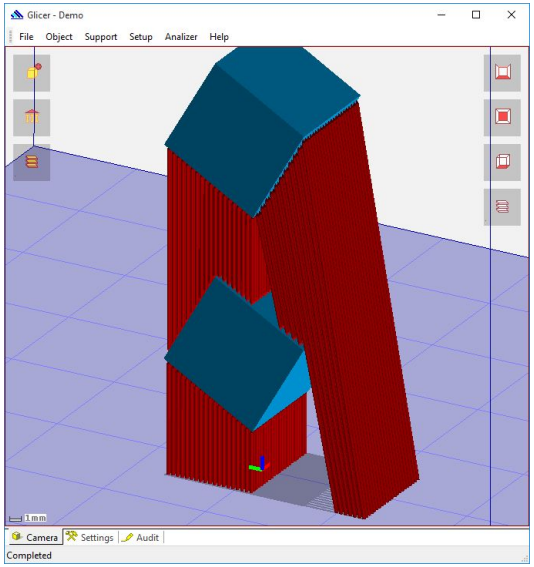
Glicer - Demo
File Object Support Setup Analizer Help
Camera Settings Audit
Completed

# ATSS::Glicer – GCode

## GCode optimization

"Laser on" length

265,96 mm

"Laser off" length

25,81 mm