

ATSS – Glicer

additive technology software
solution

www.atssgroup.com

ATSS – additive solution

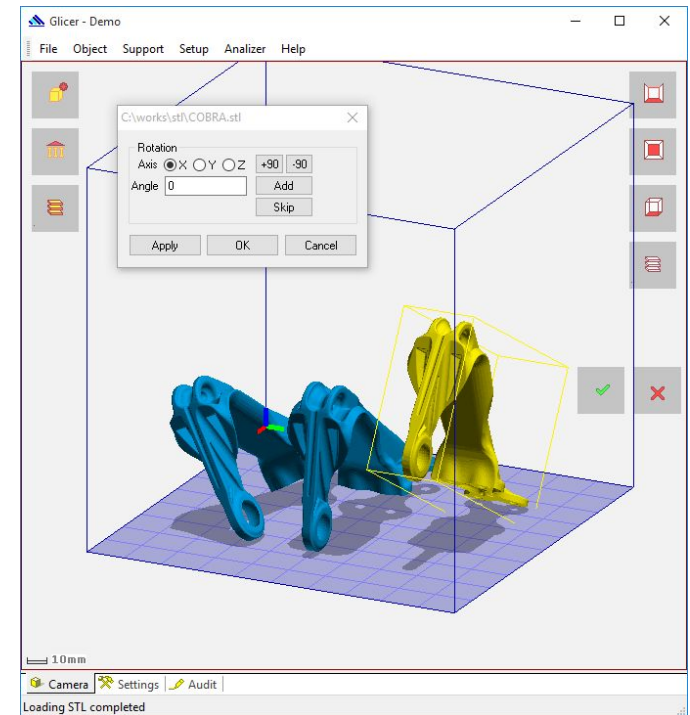
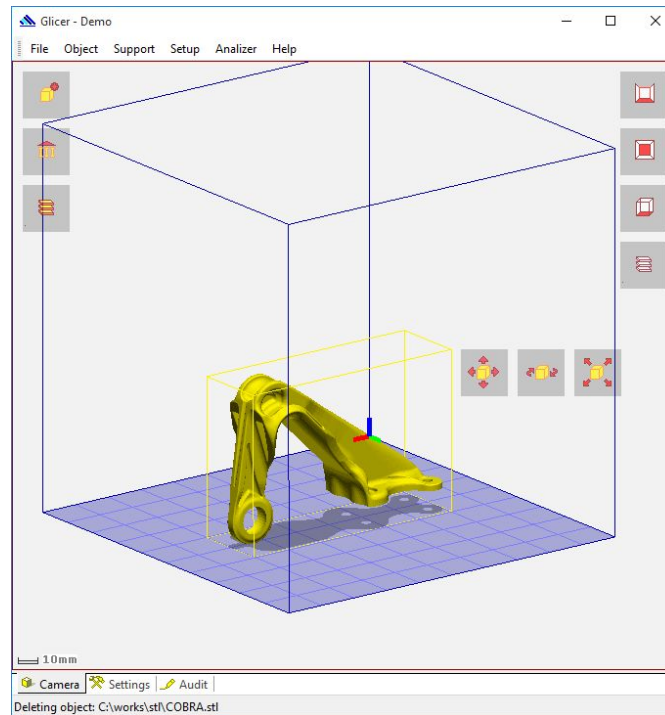
ATSS::Glicer – new application for SLS 3D printers

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

ATSS::Glicer – Composing

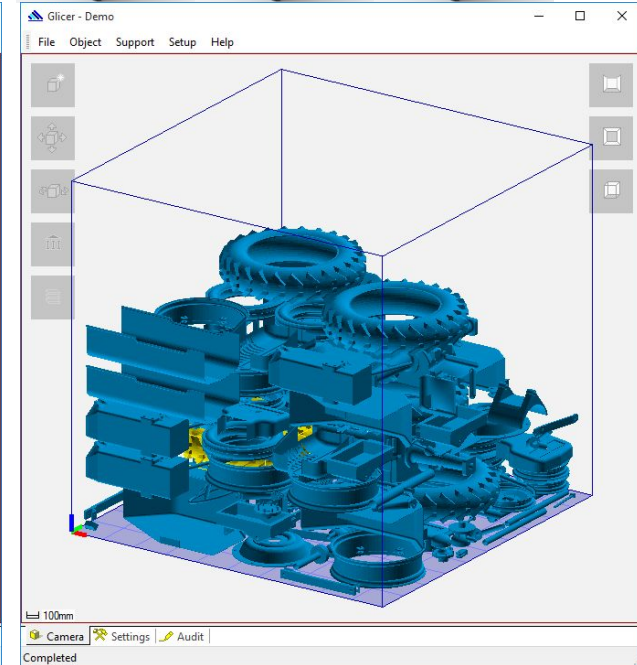
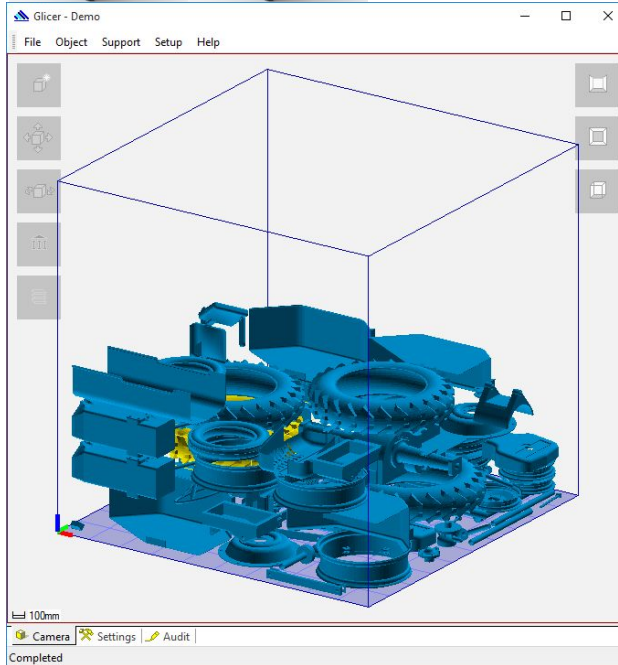
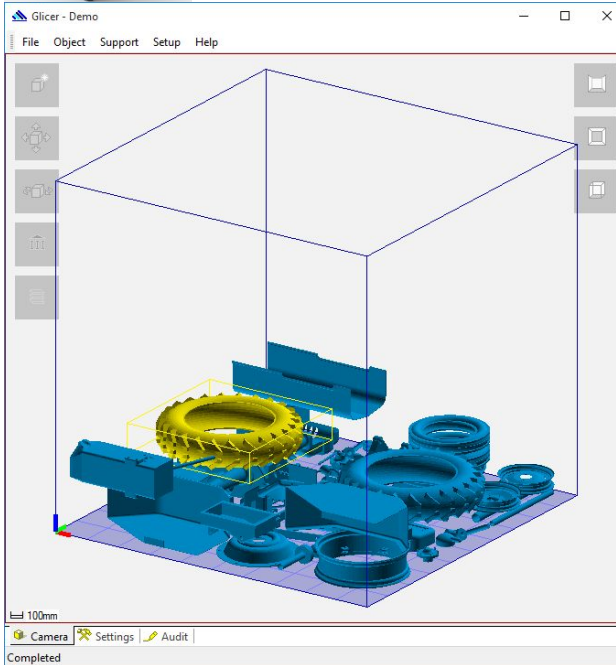
Manual mode

- rotation
- scaling
- moving



ATSS::Glicer – Composing

Automatic mode – 3D composing

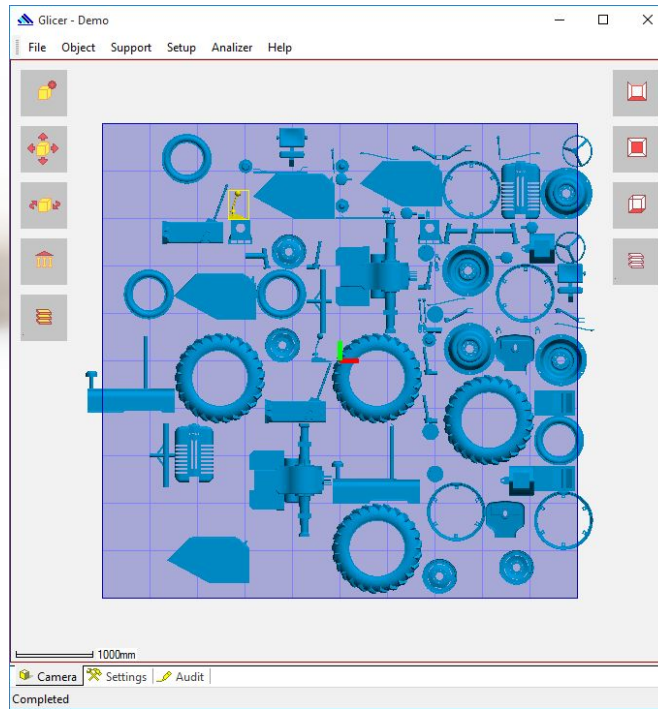


ATSS::Glicer – Composing

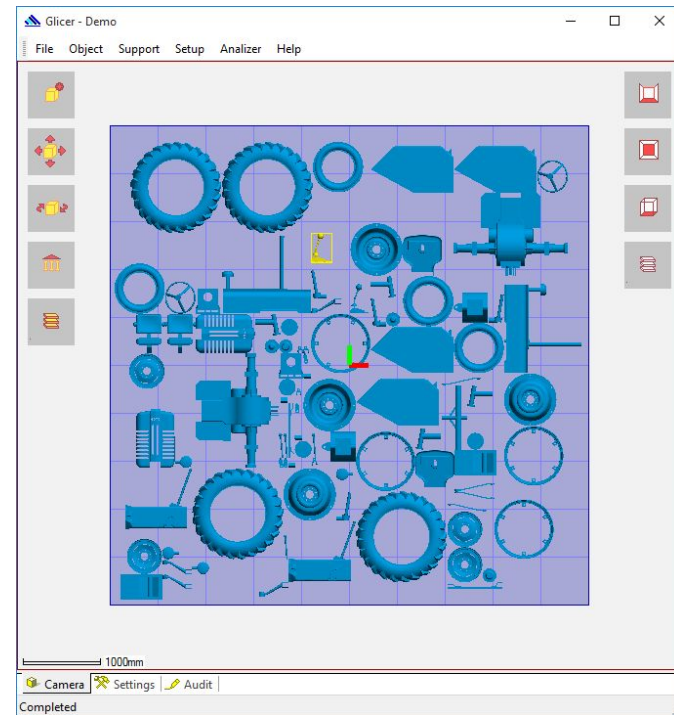
Automatic mode – plane optimization



Model from grabcad.com



Auto rotation off

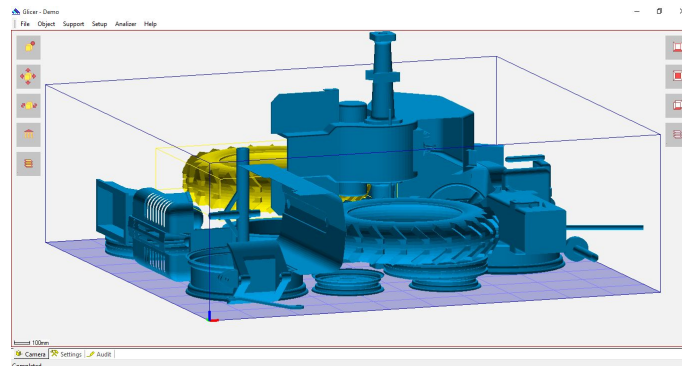
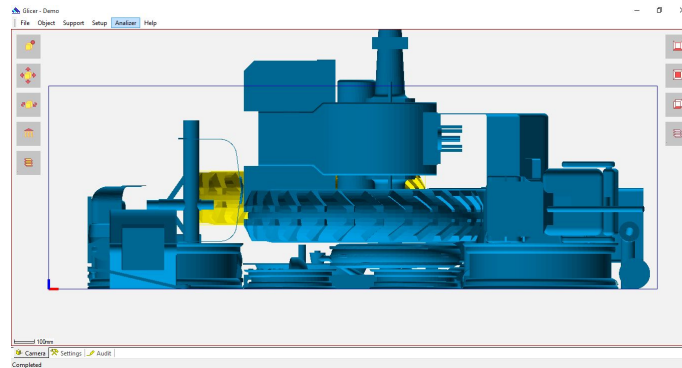


Auto rotation on

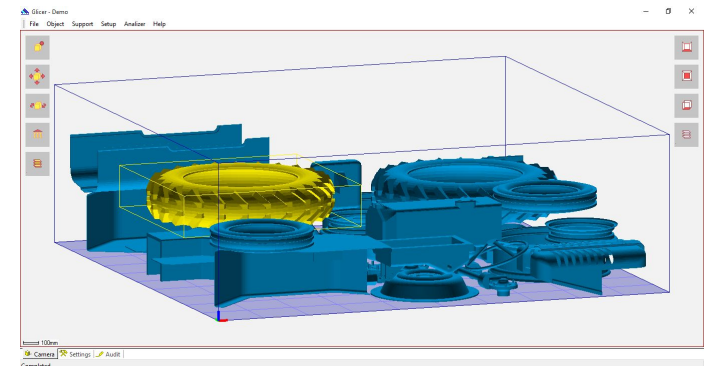
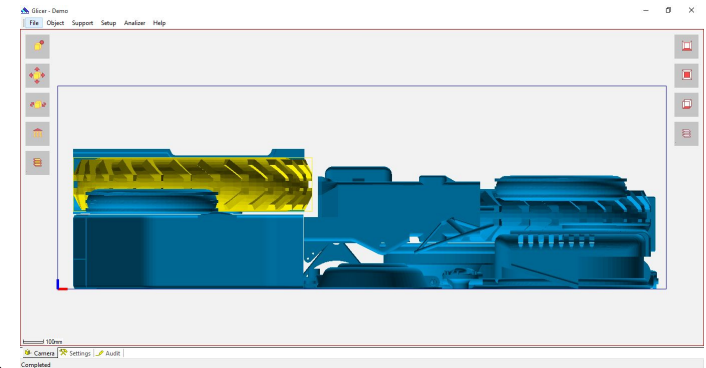
ATSS::Glicer – Composing

Automatic mode – height optimization

Height optimization off

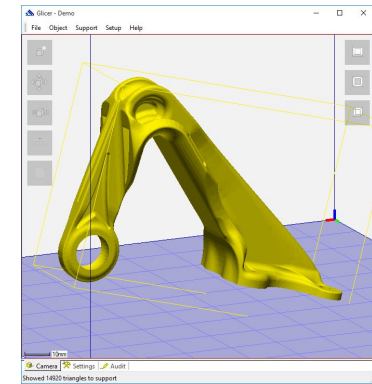
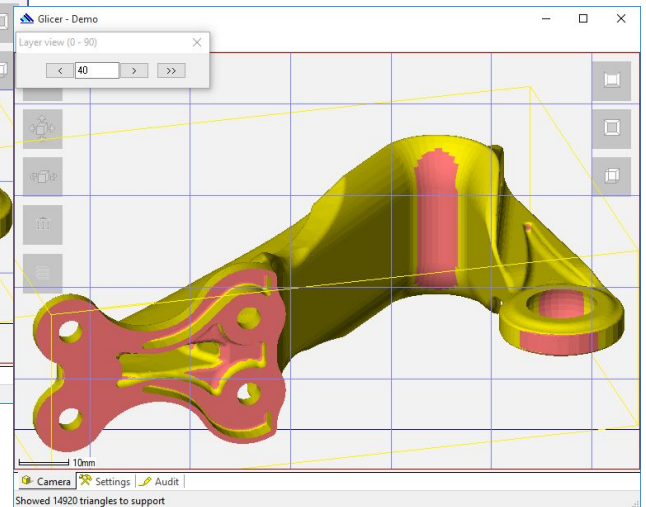
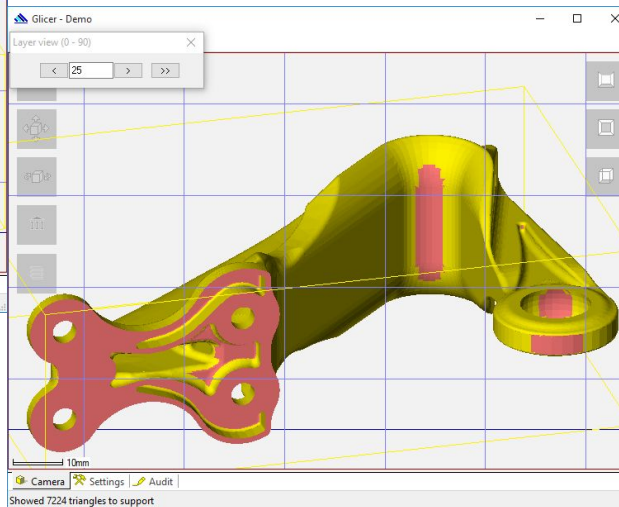
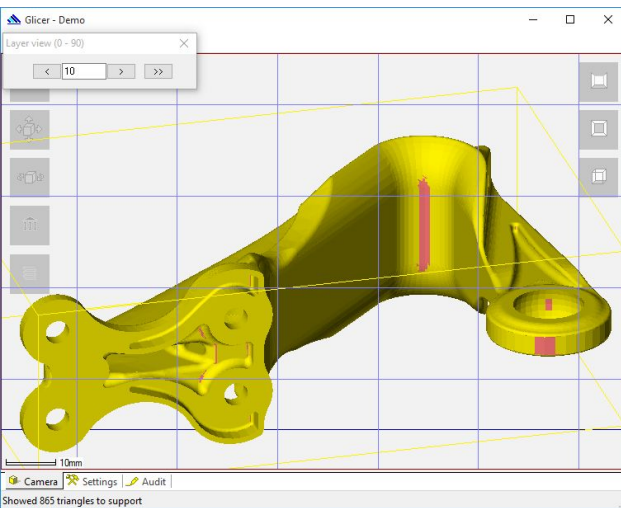


Height optimization on



ATSS::Glicer – Supporting

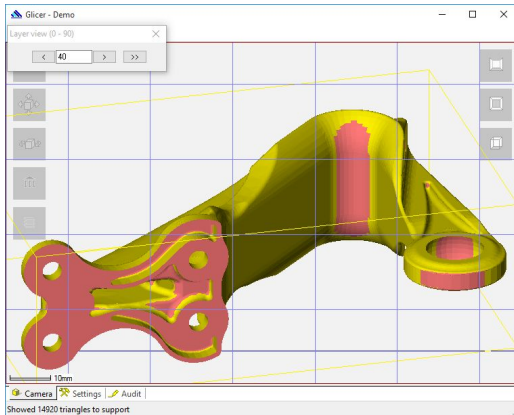
Supported areas controlling



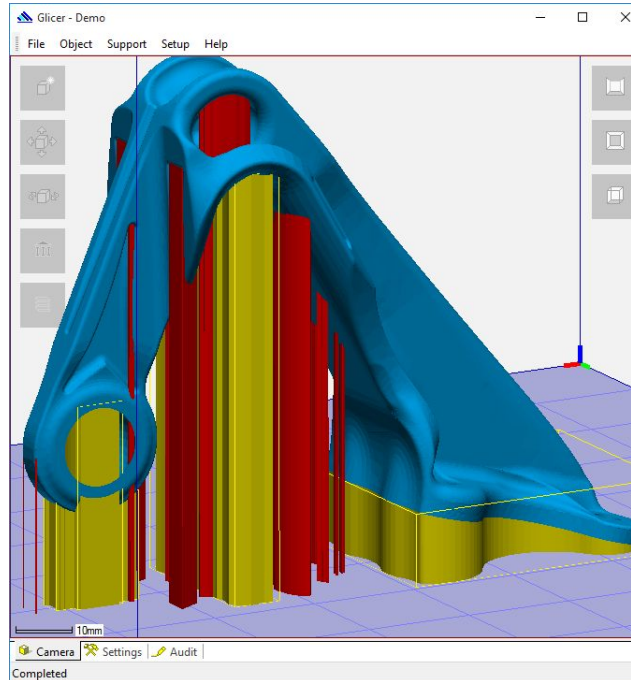
Model from grabcad.com

ATSS::Glicer – Supporting

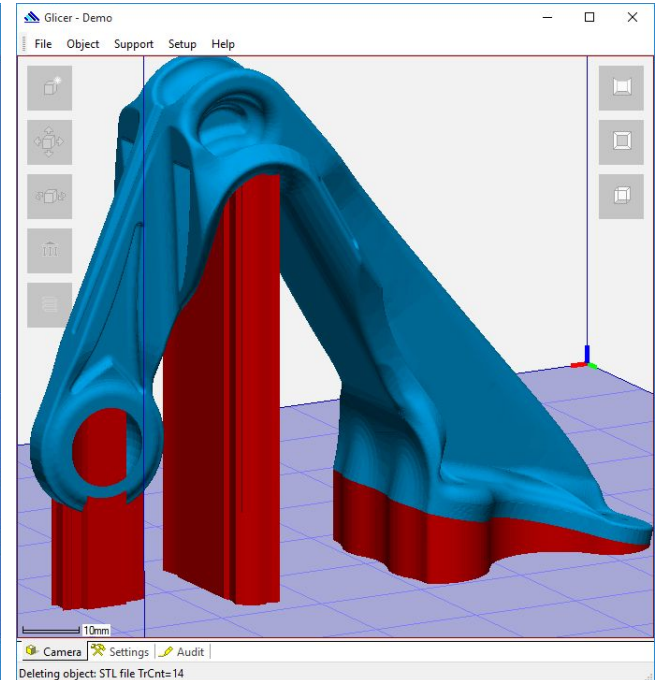
Support bodies building



Model from grabcad.com



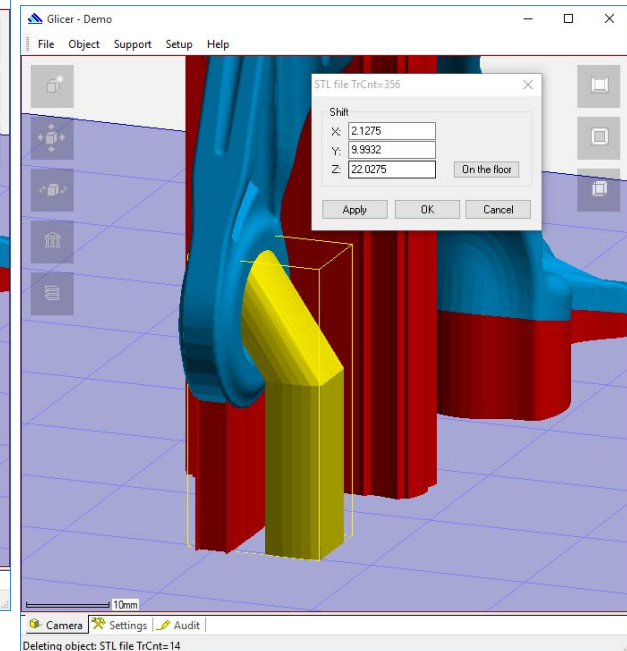
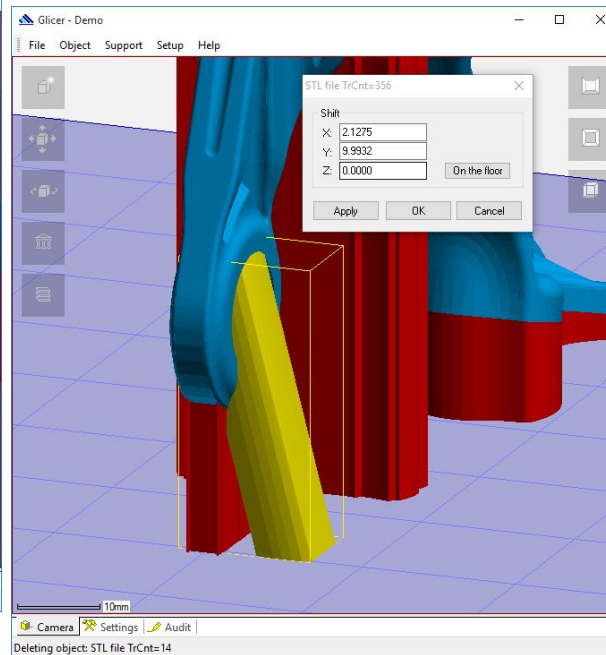
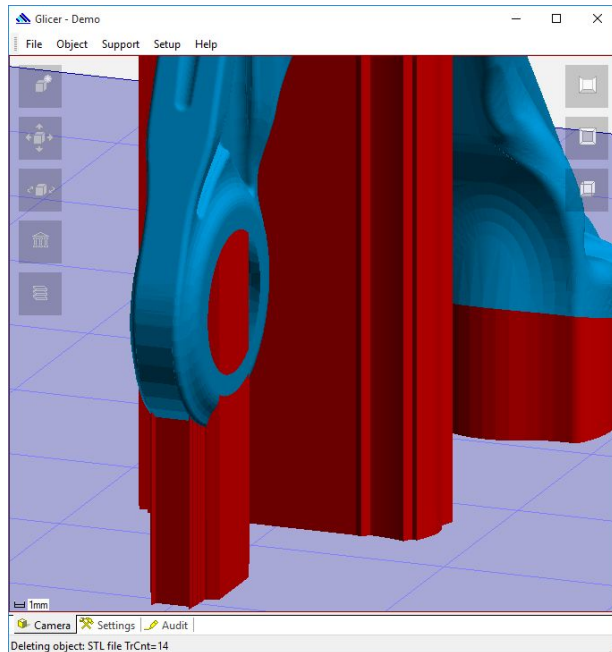
Not filtered



Filtered

ATSS::Glicer – Supporting

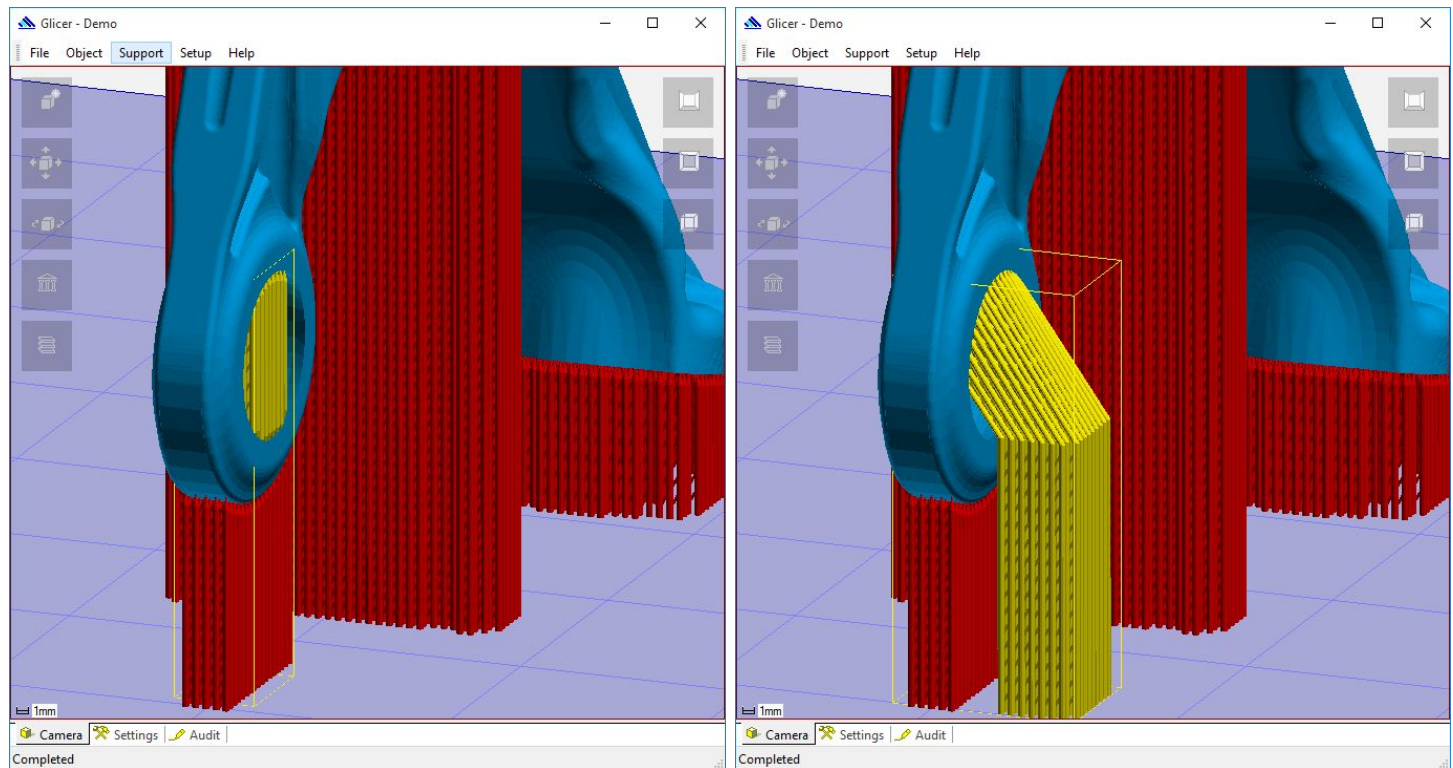
Support bodies placement



Model from grabcad.com

ATSS::Glicer – Supporting

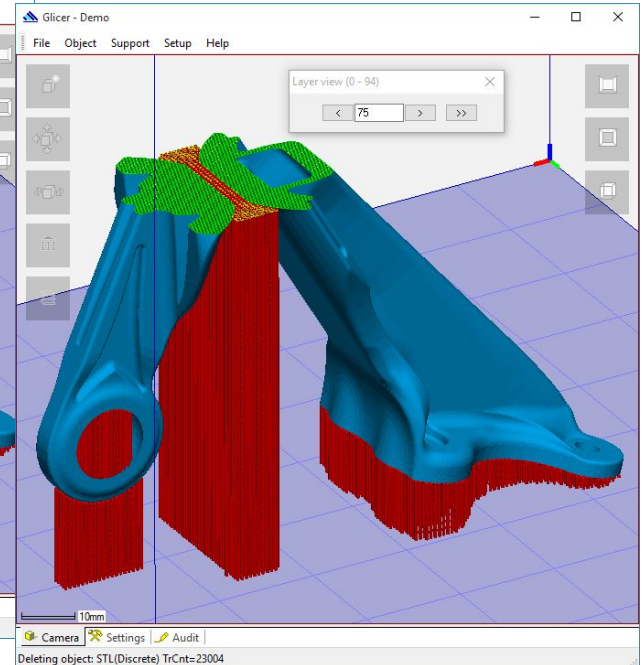
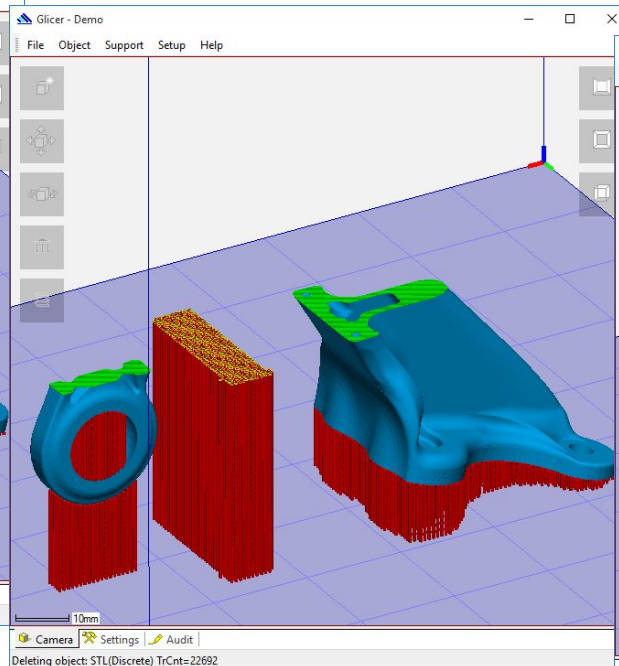
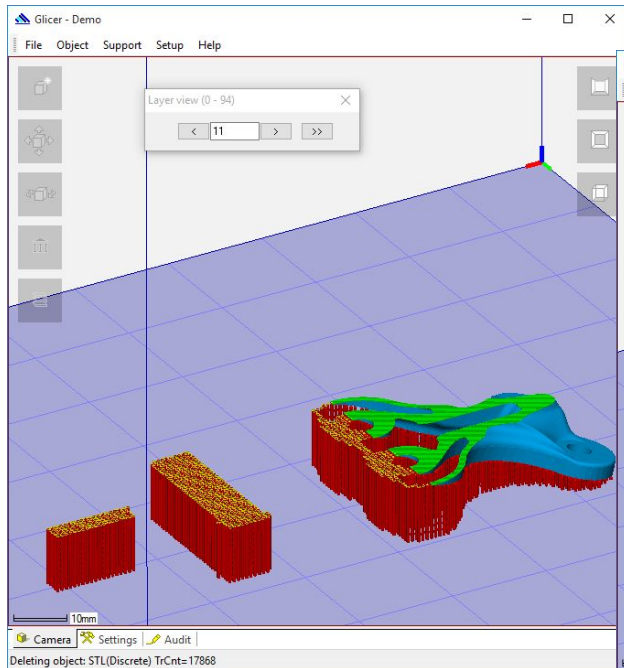
Building support structures



ATSS::Glicer – GCode

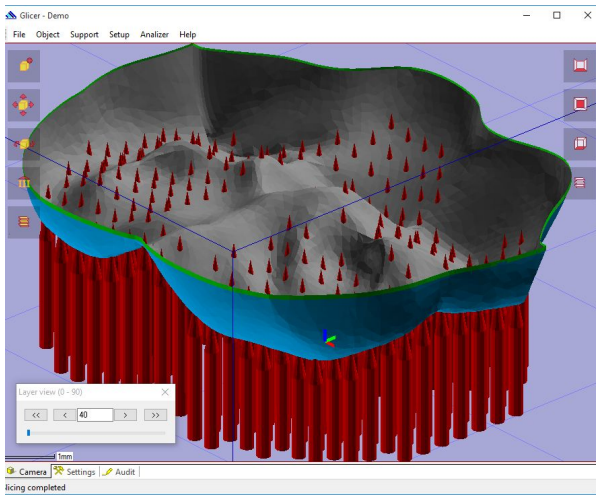
Growing layer visualization

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

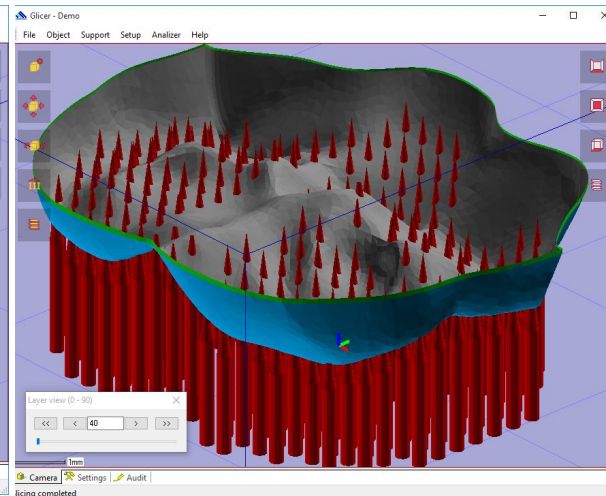


ATSS::Glicer – Supporting

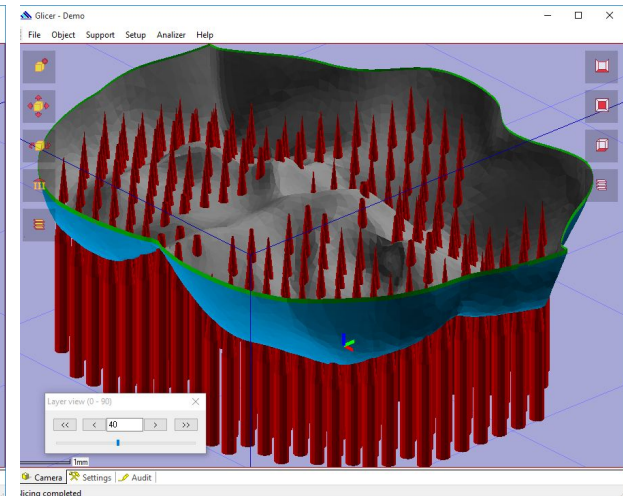
Support and model crossing control



0.3 mm



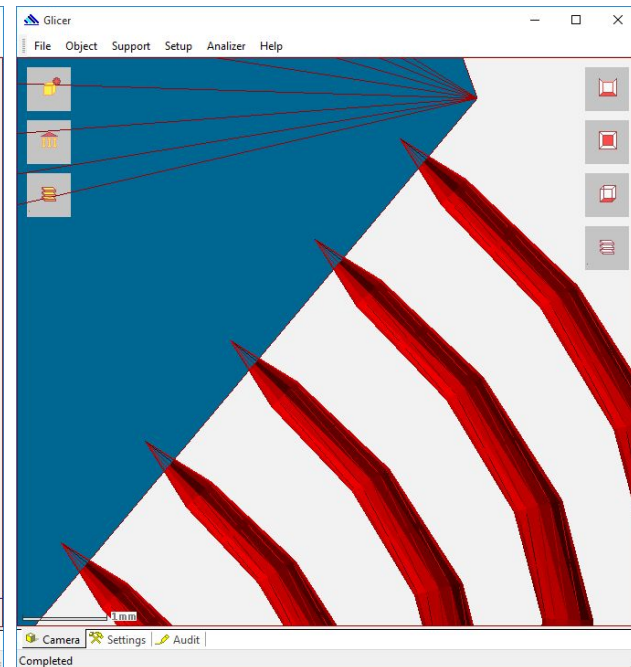
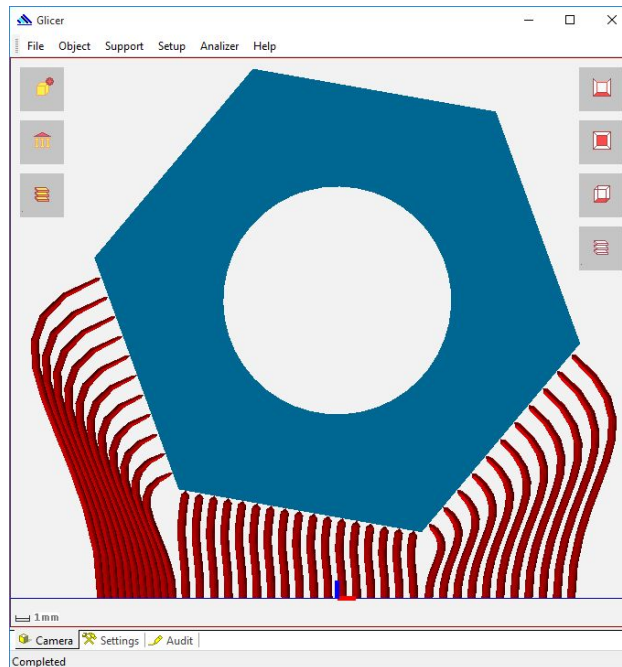
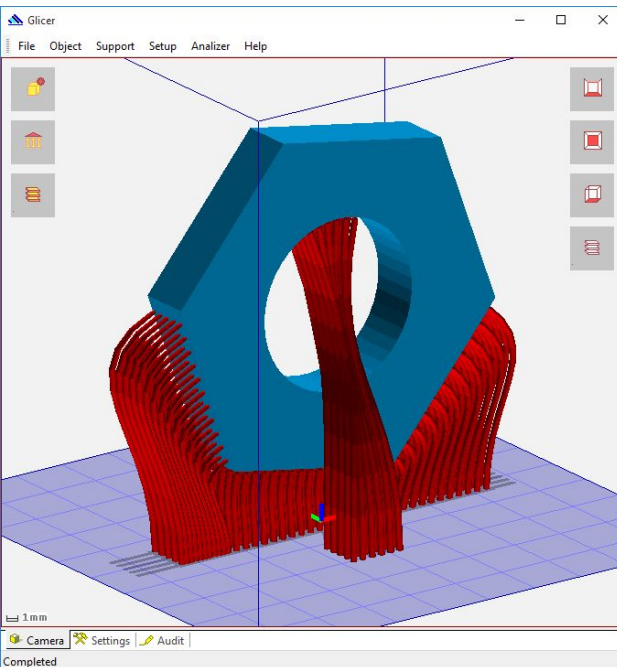
0.6 mm



0.9 mm

ATSS::Glicer – Supporting

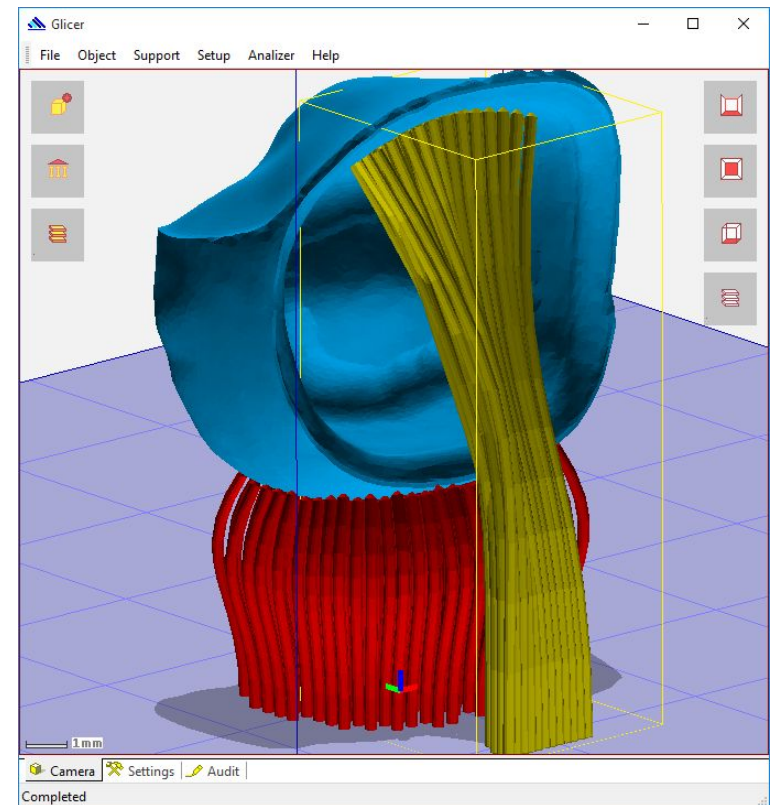
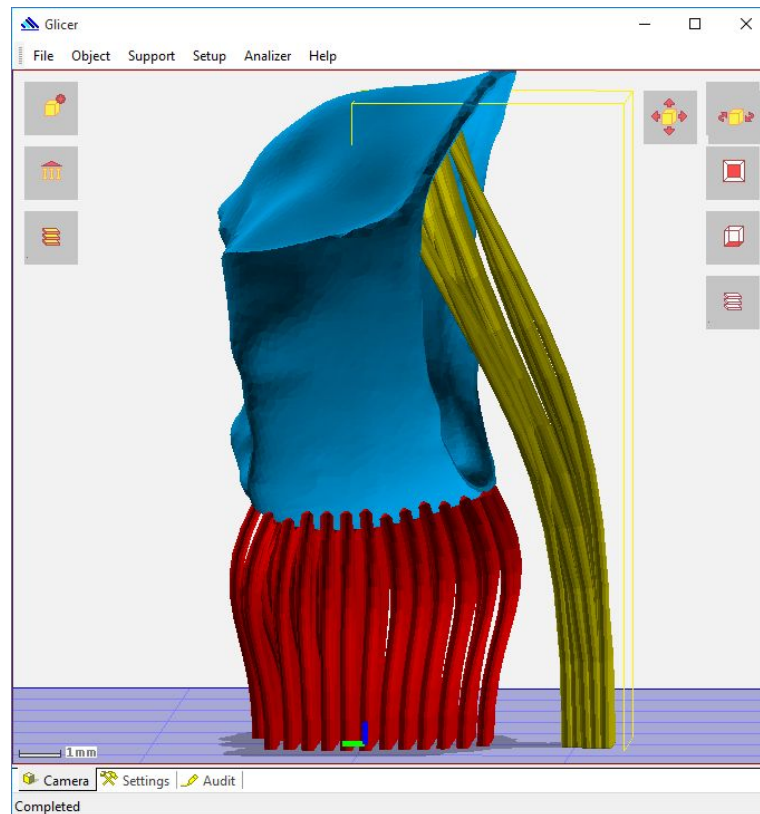
Support and model crossing control



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

ATSS::Glicer – Supporting

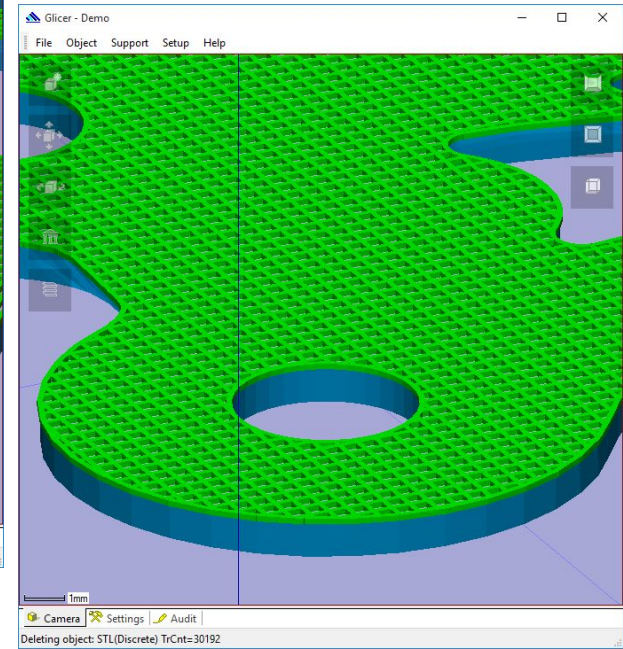
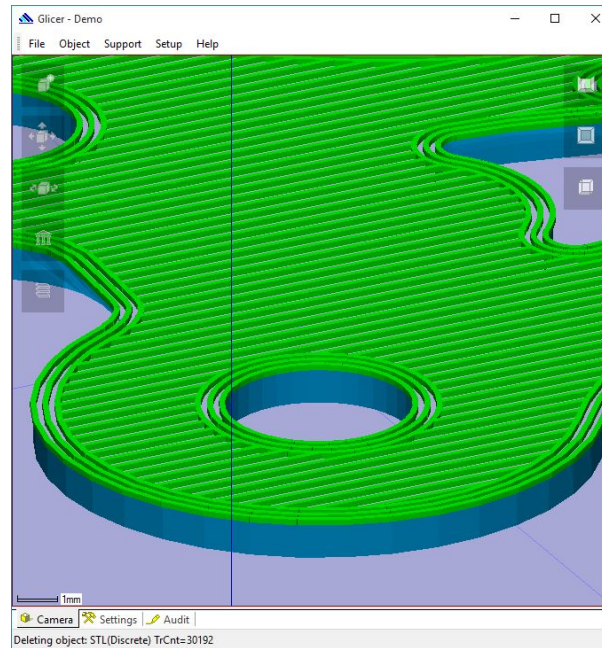
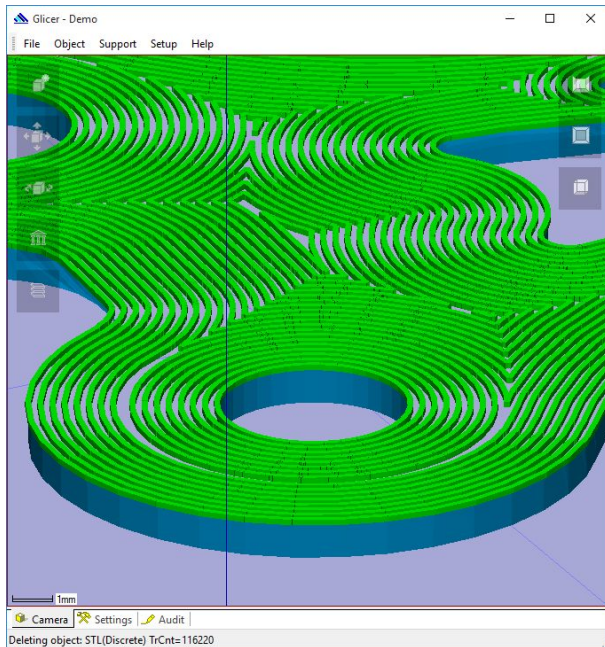
Support and model crossing control



ATSS::Glicer – GCode

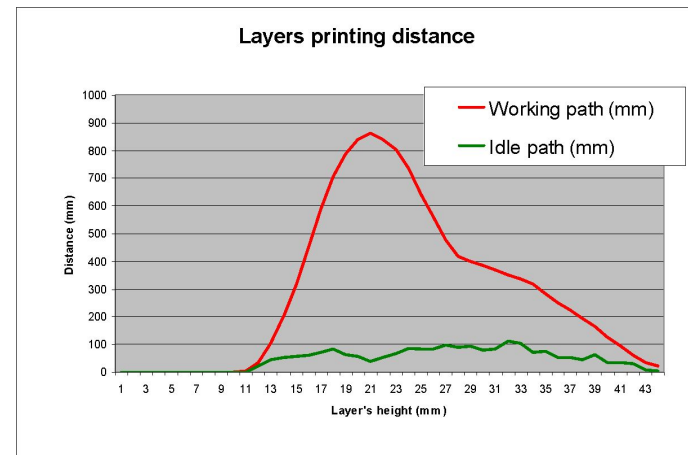
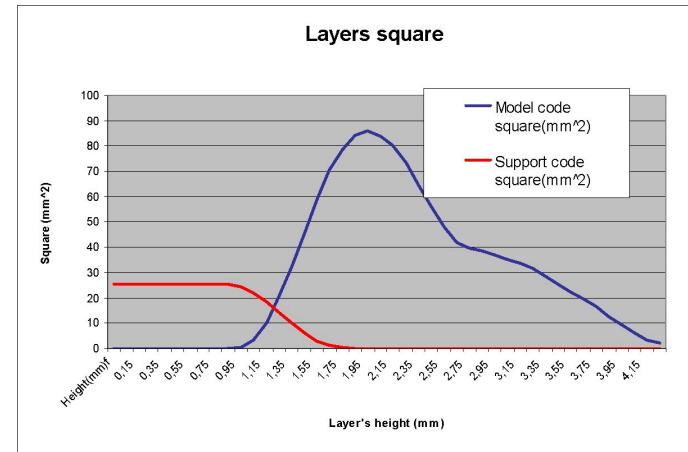
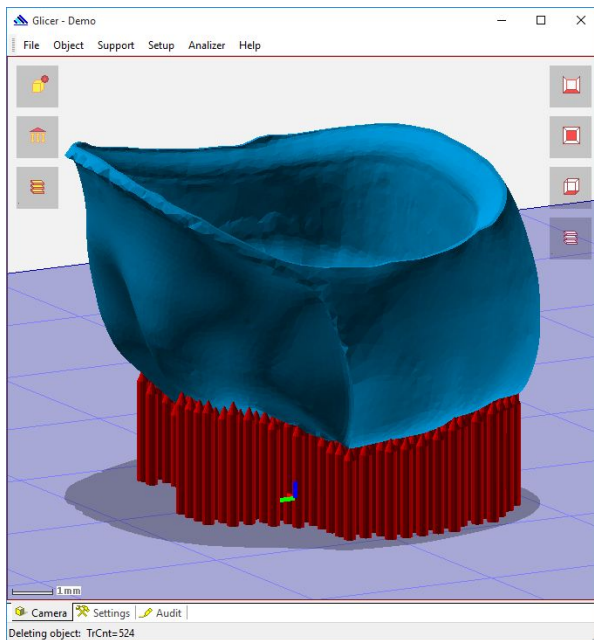
GCode building tools

- Equidistance offset perimeters
- Various hatching patterns



ATSS::Glicer – GCode

GCode statistic



ATSS::Glicer – GCode

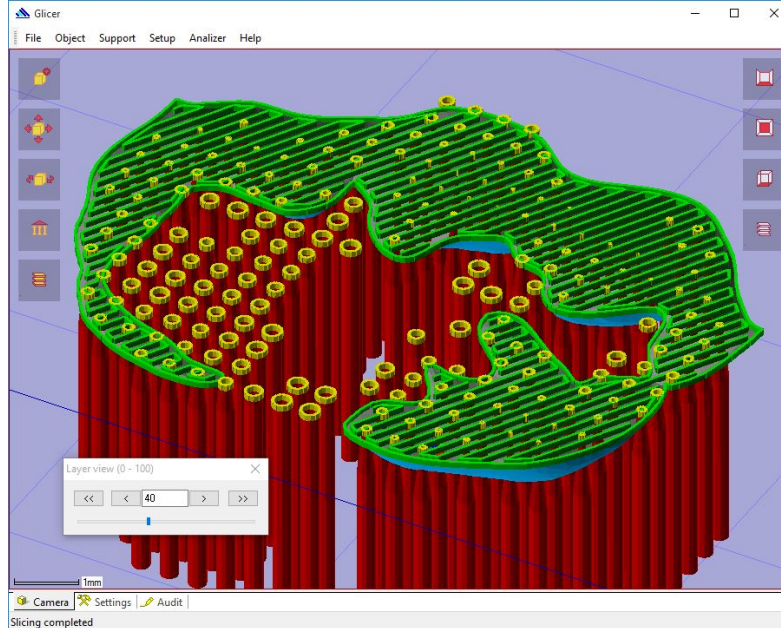
Supporting GCode filtering

Blue – model

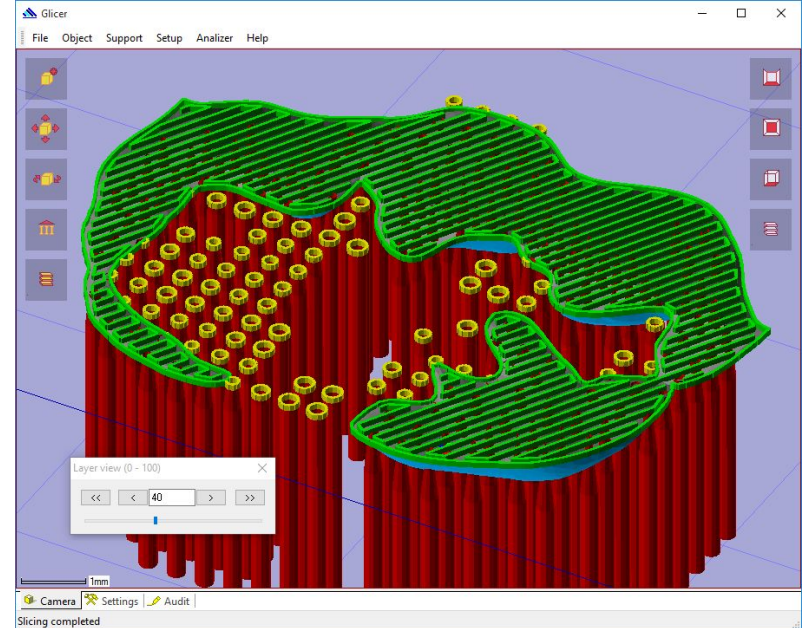
Red – support

Green – model GCode

Yellow – support GCode



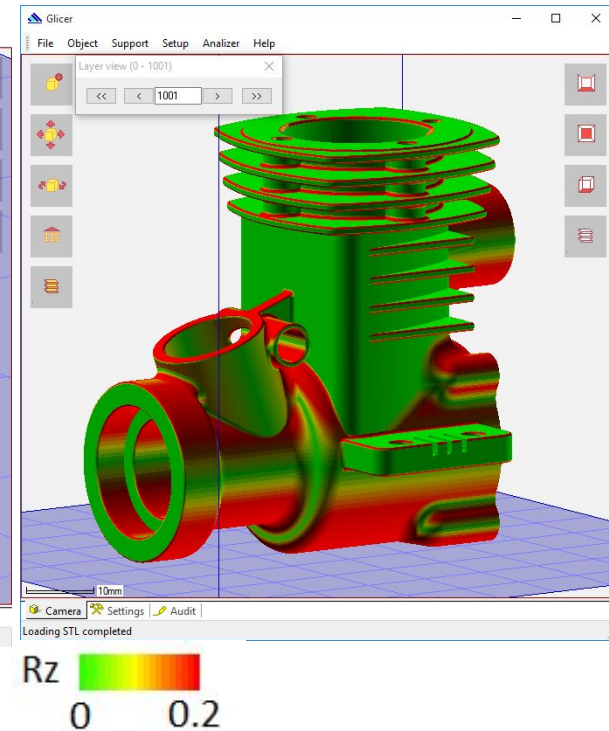
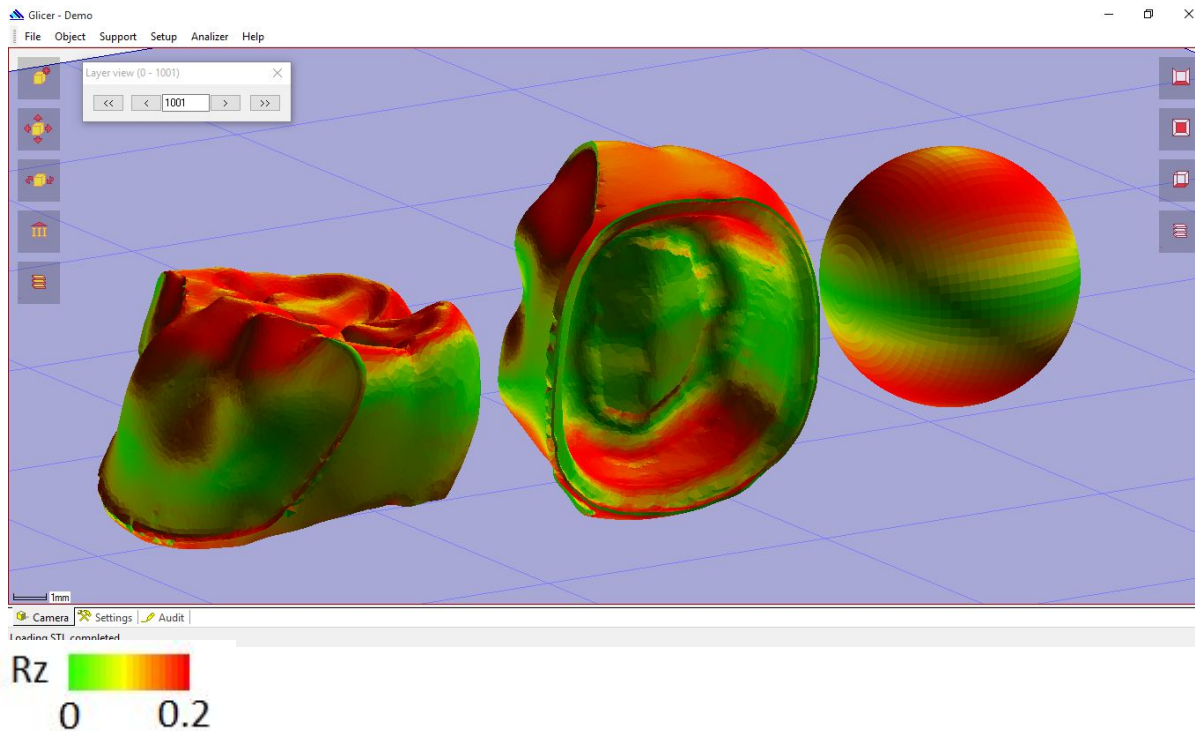
Not filtered



Filtered

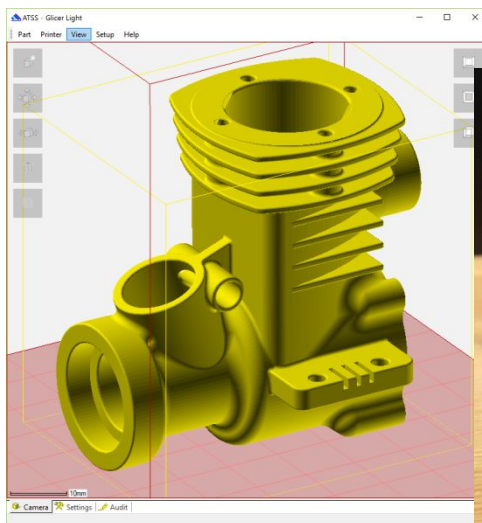
ATSS::Glicer – Surface quality

Ra vizualization (L = 0.25)



ATSS::Glicer - Production

SLS 3D printer
«Red Rock»
and
ATSS Glicer





первый российский 3D принтер, работающий по технологии
селективного лазерного спекания пластикового порошка

RED ROCK 3D SLS

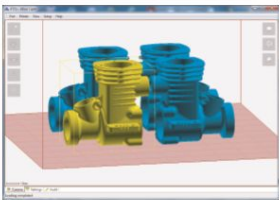
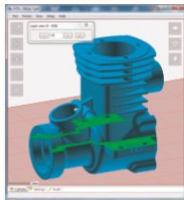
Характеристики RED ROCK 3D

Технология печати	Селективное лазерное спекание
Материал	Порошок PP или HDPE
Рабочая область печати (ДxШxВ)	200x200x180 мм
Толщина слоя печати	0,1 мм
Производительность	20 см2/час
Управление	Сенсорный 5" дисплей
Габариты (ДxШxВ)	800x430x770 мм
Масса	35 кг

первый российский программный продукт технологической
подготовки аддитивного производства

ATSS - Glicer

Компоновка
Слайсинг
Генератор команд
Контроль печати





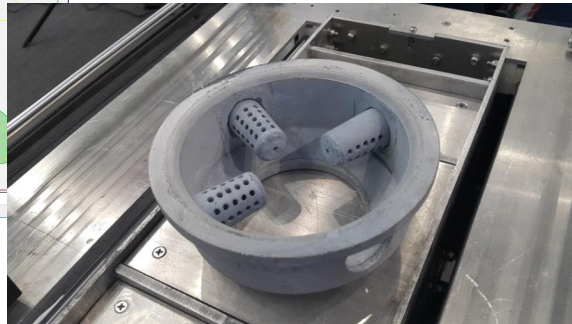
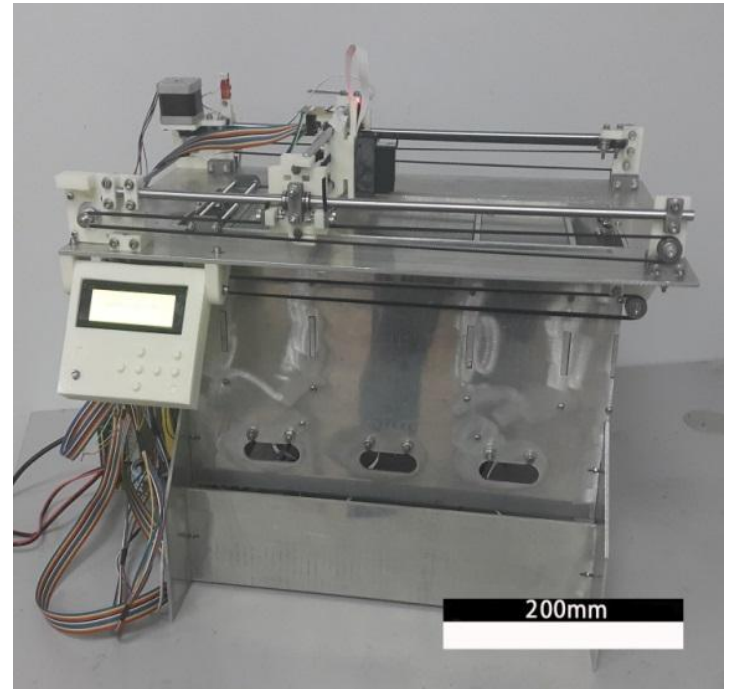
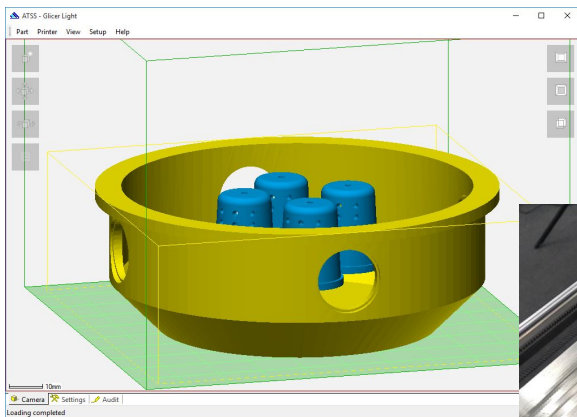
www.redrocksls.com
г. Москва, м. Полежаевская, ул. Зорге, д.18, корп. 2
Тел.: +7 (499) 115-95-83; +7 (916) 770-78-13
E-mail: info@engineer.ru



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Тел.: +7 (926) 551-73-33; +7 (963) 666-86-97
E-mail: info@atssgroup.com

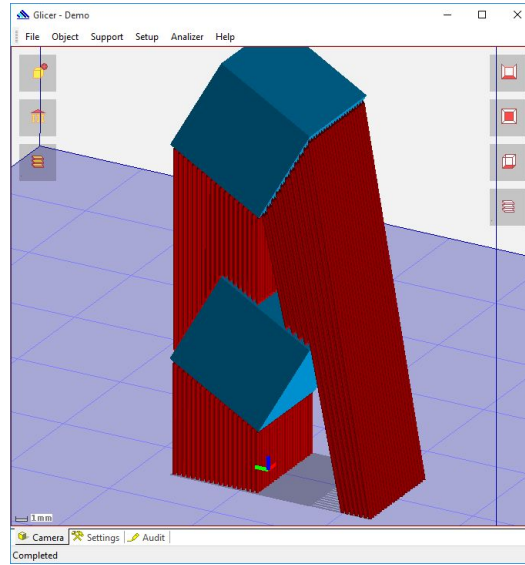
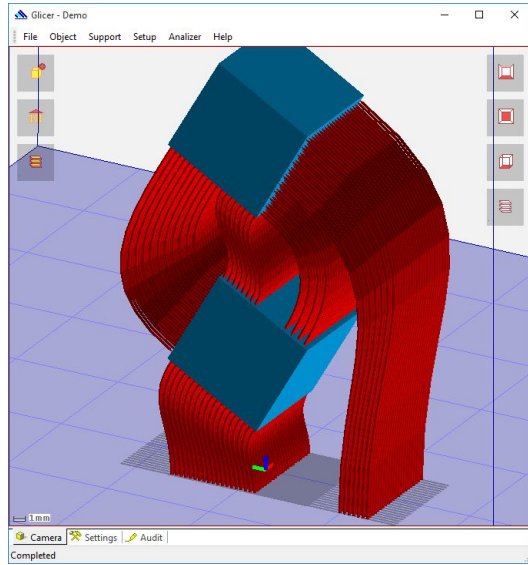
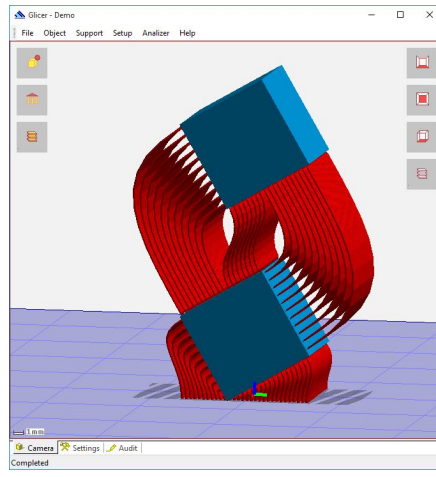
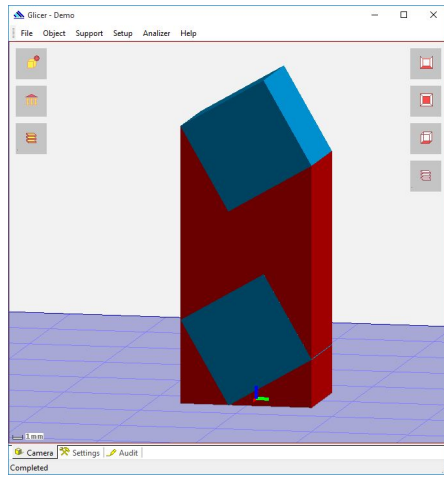
ATSS::Glicer - Production

Binder Jet 3D printer
«Plan B»
and
ATSS Glicer



ATSS – Glicer

www.atssgroup.com



ATSS::Glicer – GCode

GCode optimization

"Laser on" length
265,96 mm

"Laser off" length
25,81 mm

