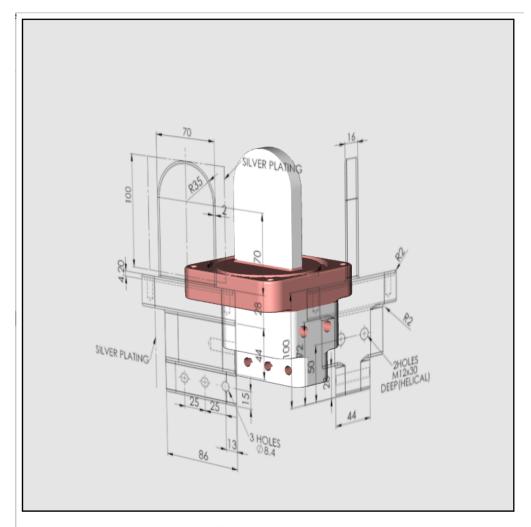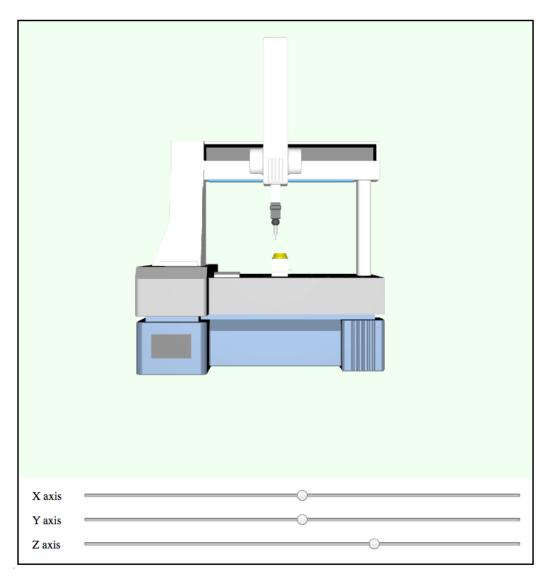# Integrate 3D and 2D drawings

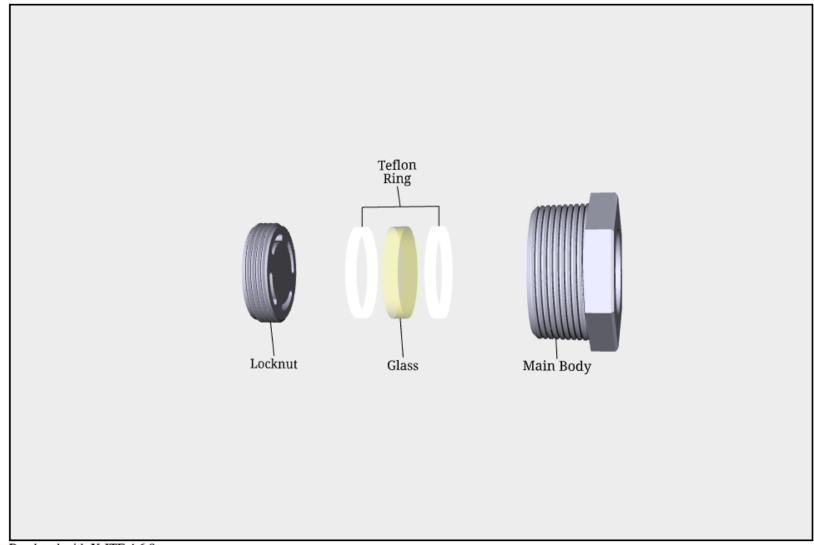

3D CAD model and 2D drawings courtesy of Supreme Enterprises.

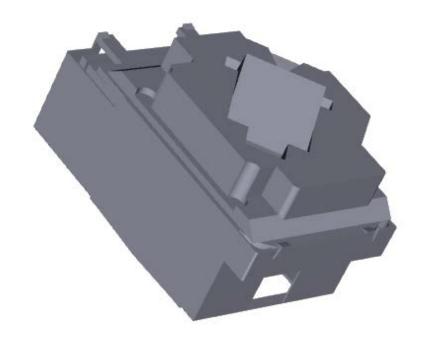http://www.kshell.com/pages/web3d201811/visibility/index.html

Kinematic Animation

http://www.kshell.com/pages/cmmpoc/

Assembly Animation

Teflon
Ring

Locknut

Glass

Main Body

Rendered with X-ITE 4.6.8

http://kshell.com/pages/exploded_view/

Assembly Tree

LASER_ASM
- LASER_CASE
- CRYSTAL_HOUSING
- M_PLATE
- L_BLOCK
- LASER
- CRYSTAL1

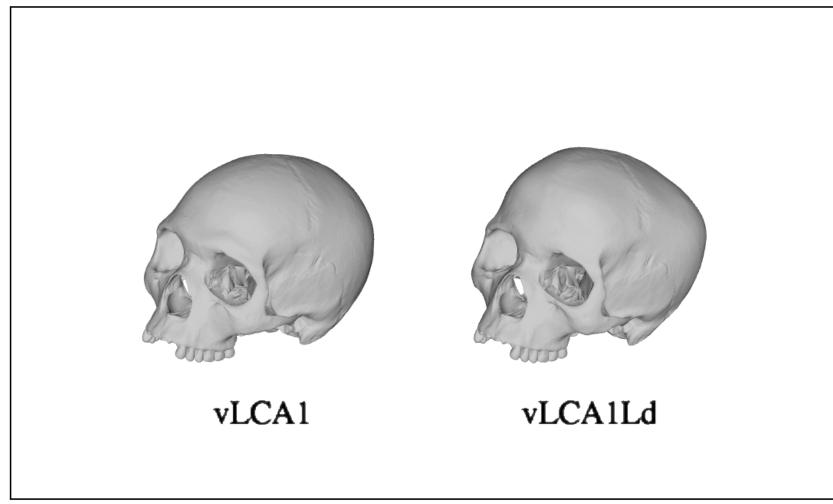# Controlled Motion

Washer Disassembly

Top Nut Disassembly

3D CAD models courtesy of Supreme Enterprises.

http://www.kshell.com/pages/web3d201811/motion/index.html

Smart Navigation

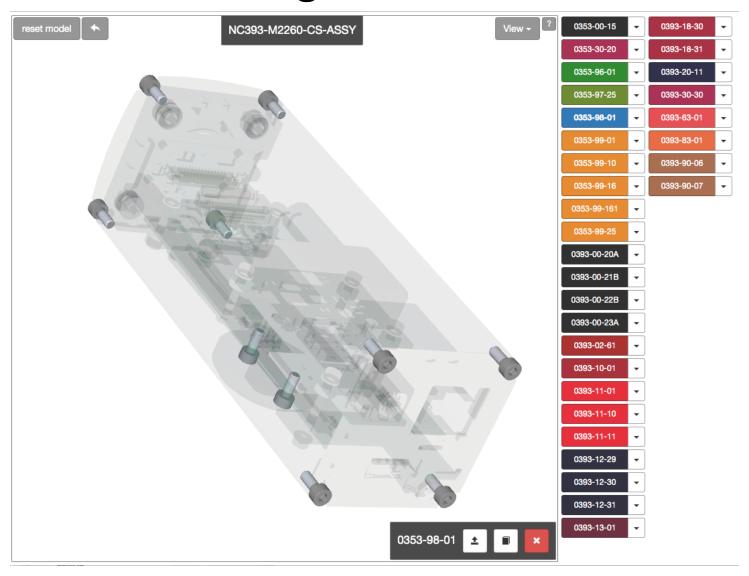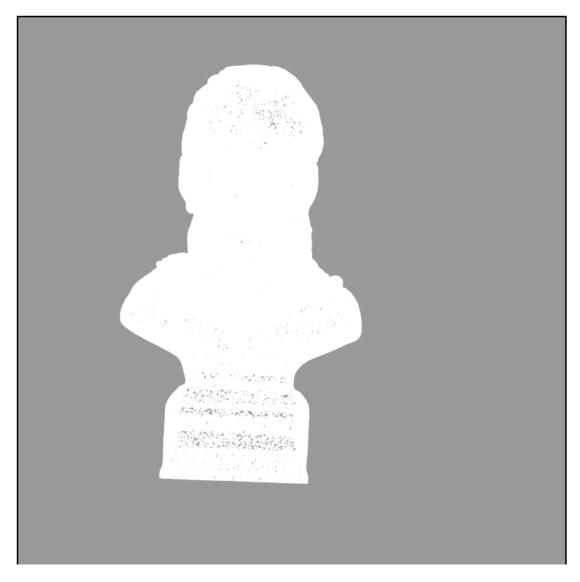Side-by-Side comparison of *virtual Latest Common Ancestor* reconstructions

vLCA1   vLCA1Ld

http://www.kshell.com/pages/gemini/

Product Catalog

Point Cloud

Point cloud with 349K data points measured by optical scanner

http://kshell.com/pages/archimedes/pointcloud/index_x3dom_349_nc.html

Surface Reconstruction

Surface reconstructed from optical scan point cloud data. Color and reflectivity specified during X3D model creation and not determined by scan data.
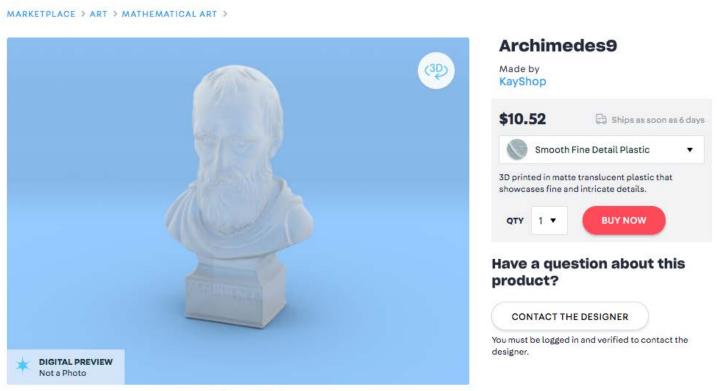
3D Scanning by Applications 3D

http://www.kshell.com/pages/archimedes/index8.html

3D Printing

Uploaded to Shapeways 3D printing service as an X3D file.

STEP to X3D

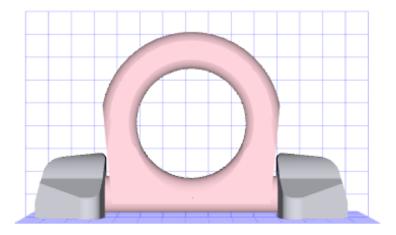Generated from STEP file from the NIST Conformance Suite.

Product Demonstration

Part: VRBS-4-t Welded Lifting Point
Manufacturer: RUD

STEP (AP203) CAD file obtained from
PART Community online catalog.

X3D Download

☑ Show 1 cm. grid   Show Swivel Freedom   Reset View

Model may be rotated by dragging with mouse

http://www.kshell.com/pages/rwclp/clp.xhtml