

Caltech

- Welcome to the Jim Hall Design and Prototyping Laboratory

The Lab is a state of the art,
5000 square foot design and
fabrication facility

Jim Hall Design & Prototyping Laboratory



It is available to students,
faculty, and staff of the Caltech
Community

Jim Hall Design & Prototyping Laboratory



In the Lab, individuals have the use of tools and machines that range from conventional manual machines.

Including band saws



Sheet metal tools



Surface grinder



Conventional lathes with CNC capabilities



And vertical mills with digital
readouts









The lab has the most modern technologies including CNC mills



Fadal and Haas CNC with multiple tool changers



And a Bridgeport EZ Path CNC lathe



We have two Universal laser cutters.

The Red laser with 120 watts.
Able to cut up to $\frac{1}{2}$ " acrylic and
 $\frac{1}{4}$ " MDF



And the Green laser with 30
watts

Able to cut $\frac{1}{4}$ " acrylic and
excellent for cutting thin films



For rapid cutting of metal parts,
we have two water jet cutters

The Flow water jet at 65KSI



And the ProtoMax at 30KSI

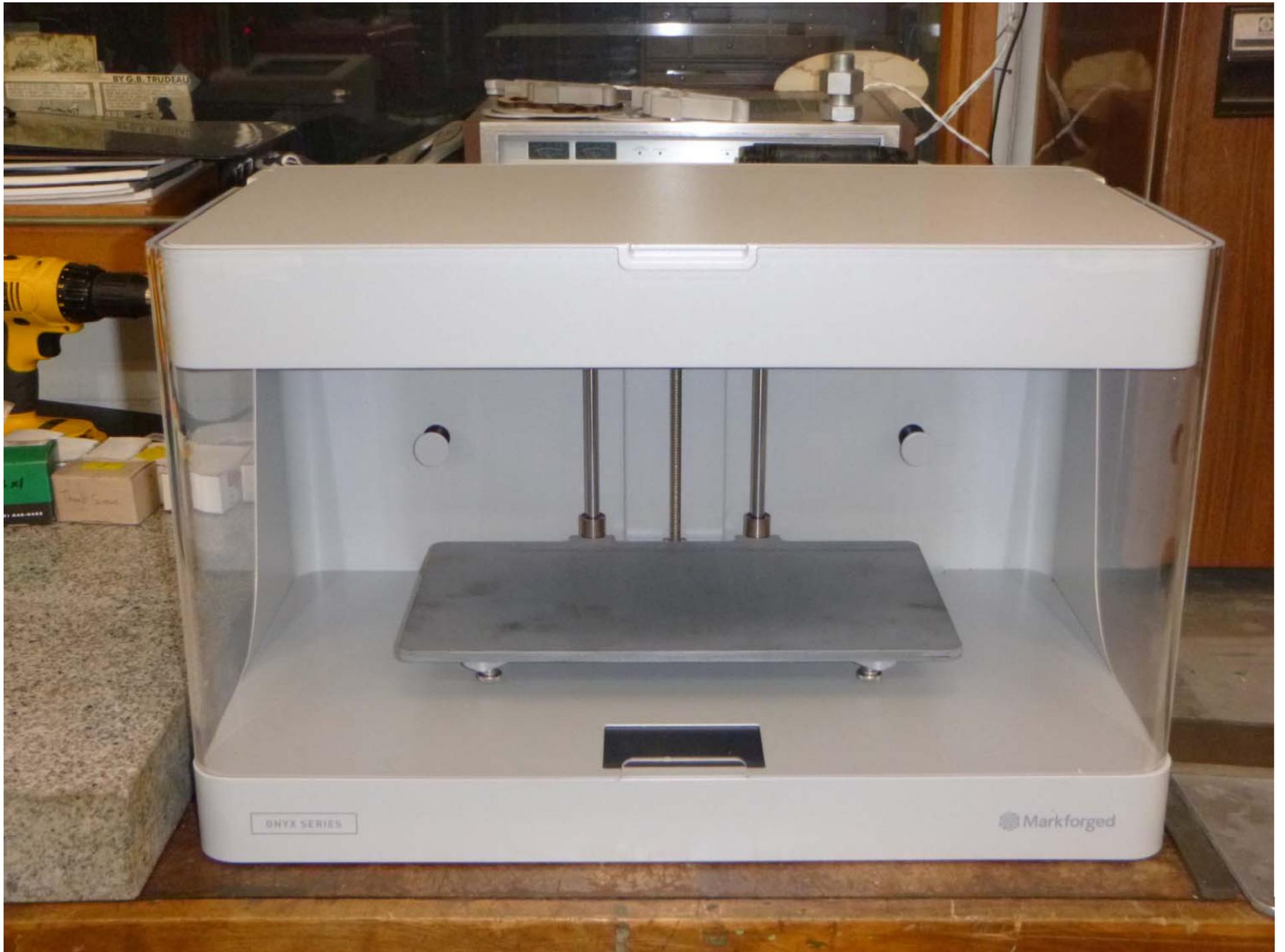


And of course, we have 3D
printers

A rack of Makelts



MarkForge



ONYX SERIES

Markforged

And a Stratasys Dimension



Go to our wiki page to find additional information on machining, material and various prototyping applications

<http://Caltech-mce-lab.wikidot.com>

caltech.edu