

# Equipment and Facilities

Equipment and Facilities available at Omega Verksted

- Instruments
  - Elektronisk last
  - Frekvensreferanse
  - LCR meter
  - Multimeter
  - Network Analyzer
  - Oscilloskop
  - Signalgenerator
  - Spektrumanalysator
  - Strømforsyninger
  - Uvral TMF Spark Tester Mk3
- Soldering Equipment
  - Loddeavsg
  - Metcal MX 5200
  - Reflow Oven
  - Stereo microscope
  - Weller WX 2
- PCB Manufacturing Equipment
  - PCB drillpresse
  - PCB Etching
  - PCB Mill - LPKF S100
    - Brukerinstruks.
    - Drift- og brukerinstruks
    - HMS-instruks.
  - Stencil printer
  - Ultra Violet Lamp - AZ210
    - Transparent
  - Viapresse - Favorit
- Mechanical Tools
  - Air tools
    - Nibbler
  - Hand Tools
  - Heat Gun
  - HMS approved personnel mechanical tools
  - Power tools
    - Angle Grinder
    - Bench Grinder
    - Lathe - Dreiebank
      - Brukerinstruks
    - Søylebør
      - Grease søylebør
  - Table Saw
  - Slagghakke
  - Welder
- 3D-Printing
  - Form 2
  - Jamre (FDM-Printer)
  - Prusa i3 MK3S
    - MMU2s Multi-material print
  - Regler for 3D-Printing
- Board Games
  - Gløsmopol
- Computer Workstations
- Heat Camera
- Kitchen Facilities

## Equipment status

Type	Name	Status	Comment	Estimated fix date	Last updated
SLA 3D Printer	Form 2	Up			10 Dec 2020
FDM 3D Printer	Jamre	Up			2020-08-31
FDM 3D Printer	Prusa i3 MK3S (PRUS-A)	Up (no octoprint)	Posts status updates on <a href="#">slack</a> channel #prus-a.		22 Feb 2021
FDM 3D Printer	Prusa i3 MK3S (PRUS-B)	Up (no octoprint)	Posts status updates on <a href="#">slack</a> channel #prus-b.		
FDM 3D Printer	Prusa i3 MK3S (PRUS-C)	Up (no octoprint)	Posts status updates on <a href="#">slack</a> channel #prus-c.		
FDM 3D Printer	Prusa i3 MK3S Multifilament (TORE-JOHNNY)	Up (no octoprint)	Works, but needs new filament-holders.		
Laser Cutter	Bodor BCL-1309XU	Up	Works, but routines for using it need updating.		04 Mar 2021
Water Jet	Wazer	Up	Unknown error		07 Sep 2021
Lathe	Lathe - Dreiebank	Up			24 Apr 2021
CNC Router	X-Carve	Up	No dust/chip collection		14 Mar 2021
PCB Etch	PCB Etch	Up-ish	Rinse function in the middle section is not working, use the sink.		28 Feb 2021

## Status for equipment being set up

Type	Name	Status	Comment	Estimated completion date	Last updated
CNC Router	Jamme	Building	Needs new motors	N/A	2020-08-19
PCB Router	LPKF S100	Installing	Setting up software	N/A	2020-09-25

- Eggkoker
- Kaffedispenser
- Pizzaovn
- Riskoker
- Tappetårn
- Laserkutter Bodor BCL-1309XU
  - Kutteparametere
  - Priser
  - Design av "tabbed joint"-bokser
  - Dithering
  - Eksempelprosjekter
  - Identification of Polymers
  - Laserkutte Altium filer
  - Programvare
  - Vedlikehold
    - Justering av endestopp
    - Justering av lasersti
    - Vasking av linse
    - Vasking av speil
  - Plakat.
- Library
  - Tales
- Mediaservere
  - Blink
  - Mopidy
  - MPD
- Poison Fridge
- Punktveis
- Radio (LA1OHM)
- Vacuum Laboratory
  - Fjasekammer
  - Hitachi TM-1000 electron microscope
  - Misc. Electronics documentation; Pinouts, Datasheets
  - NTNU Nanolab Facilities
  - Pfeiffer/Balzars Omnistar GSD 300 O2 RGA (Residual Gas Analyzer)
  - Possible suppliers
  - Random Bullshit
  - Deposition ideas
  - Superconducting Nb-AIOx Process Development
  - Varian 3119 Vacuum Chamber
    - Cooling System
    - Electrical System
    - Upgrades [WIP]
- Wazer Water Jet
  - Bruksinstruks, Wazer
  - HMS-instruks, Wazer
  - Q&A med WAZER Support
  - wazer-kriteliste
- CNC Router (X-Carve)
  - Reference information for CNC router
- Trykkfat