

CENTRO DI RICERCA E SERVIZI
SAPIENZA INNOVATION
& ENTREPRENEURSHIP HUB - SIEH



SAPIENZA
UNIVERSITÀ DI ROMA

ORGANIZATION

FABLAB - *Additive Technologies*

DELTA WASP 4070

It is a large scale 3D printer that guarantees rapidity and accuracy on a microscopic and macroscopic scale.



Technology

FDM (Fused Deposition Modeling)

Working Area

40x40x70 cm

Materials

ABS, PLA, Nylon, Soluble, Medical, IRA-Bronze, IRA-Wood, IRA-Carbon, IRA-Copper, ABS-Super

Resolution X/Y

12 micron

Resolution Z

5 micron

Applications

Houses, ceramics, service, medicine, hubs

ORGANIZATION

FABLAB - Additive Technologies

DELTA WASP 2040 TURBO

Unique in size and printing precision, it is the fastest of its kind, especially thanks to its polar mechanics system.



Technology

FDM (Fused Deposition Modeling)

Working Area

20x20x40 cm

Materials

PLA, ABS, Nylon, Flexible Polymers, Polystyrene, Laywood

Resolution X/Y

12 micron

Resolution Z

5 micron

Applications

Houses, ceramics, service, medicine, hubs

ORGANIZATION

FABLAB - *Additive Technologies*

IRA3D POETRY 360

It is a large scale 3D printer that guarantees rapidity and accuracy on a microscopic and macroscopic scale.



Technology

FLD (Fast Layer Deposition)

Working Area

25x25x30 cm

Materials

ABS, PLA, Nylon, Soluble, Medical, IRA-Bronze, IRA-Wood, IRA-Carbon, IRA-Copper, ABS-Super

Resolution X/Y

12 micron

Resolution Z

5 micron

Applications

Houses, ceramics, service, medicine, hubs

ORGANIZATION

FABLAB - *Additive Technologies*

ZORTRAX M200

is an advanced 3D printer that easily manage multiple devices over Wi-Fi using Z-SUITE slicing software. It also monitor the progress with the built-in camera.



Technology

LPD (Layer Plastic Deposition)

Working Area

20x20x18 cm

Materials

Z-ABS, Z-ULTRAT, Z-HIPS, Z-GLASS, Z-PCABS, Z-PETG

Resolution X/Y

1,5 micron

Resolution Z

1,25 micron

Applications

industrial manufacturing or prototyping

ORGANIZATION

FABLAB - *Additive Technologies*

FORMLABS FORM 2

It creates high-resolution objects at a fraction of the cost and size compared to industrial 3D printers.



Technology

SLA (Stereolithography Apparatus)

Working Area

14,5x14,5x17,5 cm

Materials

Acrylic Resins

Resolution

25; 50; 100 micron

Applications

Engineering, production, odontology, education, medicine, entertainment, jewelry, audiology

ORGANIZATION

FABLAB - Additive Technologies

DIGITALWAX XFAB

It is an innovative desktop 3D printer with a compact design and high resolution.



Technology

SLA (Stereolithography Apparatus)

Working Area

25x25x30 cm

Materials

Gamma Invicta 3 (gray and white ABS-like material, polypropylene-like material), Flexa 2 (black and transparent rubber-like material), Vitra 2 (amber and transparent acrylic material), Precisa 779 (rigid opaque gray material), Therma 289 verde (Vulcanized rubber moulds for jewellery artworks and general applications), Vesta 443 (wax-like material)

Resolution X/Y

10 to 100 micron

Applications

industrial design prototyping, digital dental modelling, artisanal jewellery making, educational settings and makerspaces

ORGANIZATION

FABLAB - *Subtractive Technologies*

VALMEC FALCON 1500

Unlike other types of machines built with aluminum profiles, molded etc .. that, due to vibrations and stresses for the processing, lose the precision declared by the manufacturer, the Falcon 1500 as its entire range maintains these characteristics even under stress and in continuous way.



Technology

CNC milling

Process

cutting, profiling, engraving 2d and 3d

Working area

150x120 cm

Materials

wood, plastic, expanded polyurethanes, soft metals

Applications

mechanical parts, advertising, mortuary

ORGANIZATION

FABLAB - *Subtractive Technologies*

BIRIO 1000

Birio laser machines offer maximum productivity with very low costs. Variety of work surfaces sizes and with different power classes.



Technology

Laser cut and engrave CO₂

Process

cutting, engraving 2d and 3d

Working area

100x60 cm

Materials

wood (not resinous or oily), plywood, cork, acrylic, polycarbonate (thin), natural fabrics (cotton, hemp, felt, cloth), paper and cardboard, leather, hide, MDF, PETG, Delrin® (Polyoxymethylene), Kapton ribbon (Polyimide), Mylar (BoPET) (not golden), depron, gator, magnetic sheets, rubber (without chlorine), PTFE (teflon), uncoated carbon fiber, polionda (difficult), glass sheet, ceramic tiles, anodized aluminum, marble and hard stones

Applications

ORGANIZATION

FABLAB - *Subtractive Technologies*

ROLAND VERSACAMM SP540I

Thanks to their ease to use, low cost and extreme versatility, they allow you to reproduce the most diverse graphic products.



Technology

printing and cutting plotter

Process

2d printing, engraving, cutting

Working area

width 13.71 cm

Materials

thermofoils, cartocino, sandblast, paper, micro-perforated, PVC banner, canvas, adhesive PVC

Applications

posters, stickers, banners, fine art, graphics on vehicles, stores personalization

ORGANIZATION

FABLAB - 3D Scan & Modeling

SHINING 3D EINSCAN-PRO

User-friendly multi-functional 3D scanner with modular design.



Technology

structured light

Process

3D scan

ORGANIZATION

FABLAB - 3D Scan & Modeling

TOUCH 3D STYLUS

Using haptic technology, Touch turns digital experiences into tactile sensations. Pressure, balance, textures and gravity can actually be felt, designed and coded.



Technology

haptic device

Process

3D modelling

ORGANIZATION

FABLAB - 3D Scan & Modeling

SONY ALPHA 7R II

It guides the revolution in the field of resolution thanks to sensitivity, response and shooting perfection in all light conditions.



Technology

mirrorless camera with interchangeable lenses

Process

photography

ORGANIZATION

FABLAB - 3D Scan & Modeling

GODOX SL60

It offers high light brightness and color rendering index with powerful LED beads. It creates stable light resource and even illumination for video recording, photojournalistic and wedding shooting.



Technology

LED light illuminator

Process

photo and video lighting

ORGANIZATION

FABLAB - *Metal additive manufacturing*

EOS M 290

It allows a fast, flexible and cost-effective production of metal parts directly from CAD data. An intuitive user interface, the intelligent software concept with a combination of open and standardized parameter sets and the improved filter system are specially designed for the industrial production.



Technology

Direct Metal Laser Sintering

Working Area

250x250x325 mm

Materials

aluminium Alloy AlSi12, Stainless Steel 316L, Titanium Ti64

Applications

EOS ParameterSets manufacture parts with standardized Part Property Profiles (PPPs)