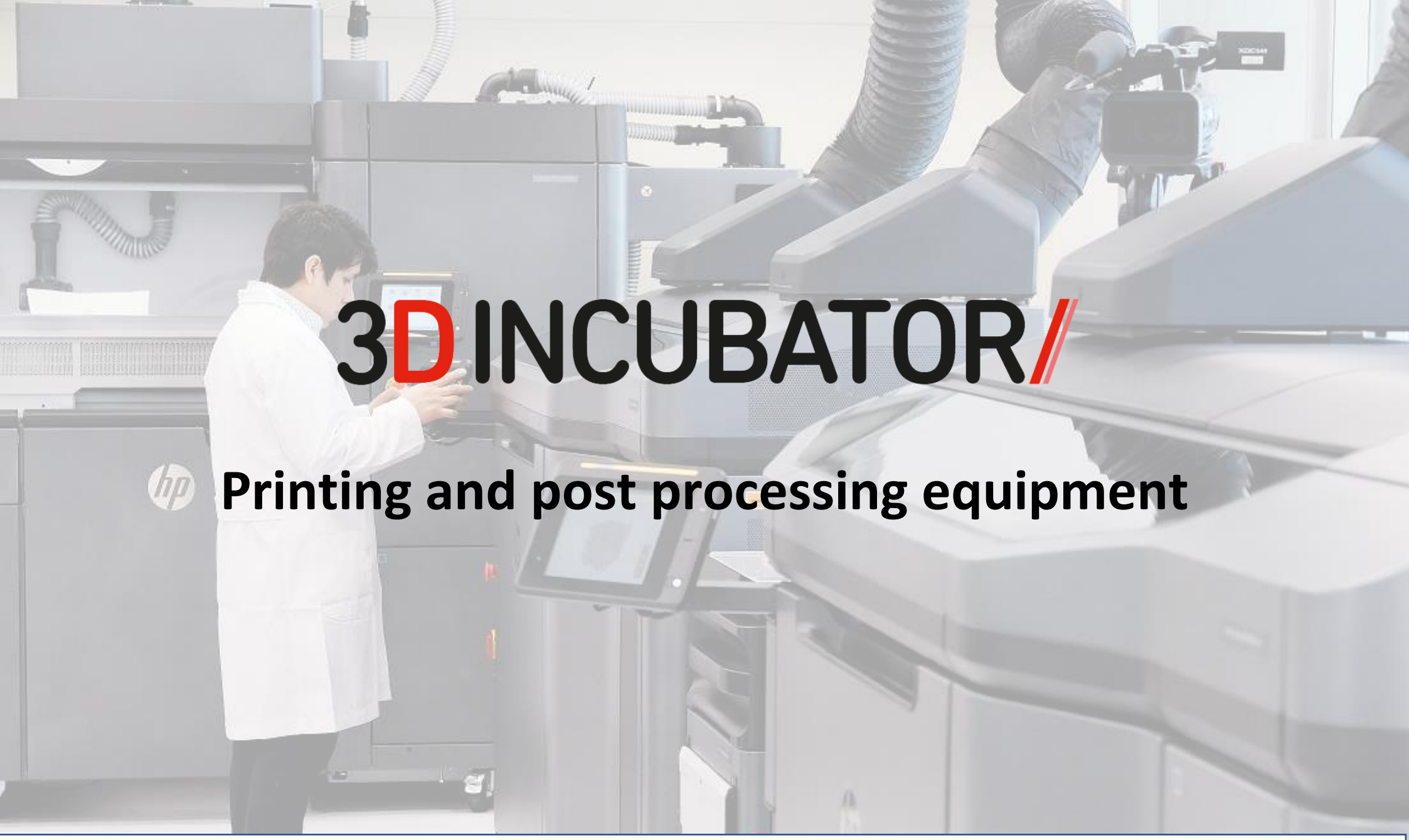

3D INCUBATOR

Printing and post processing equipment

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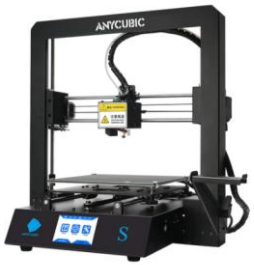
- **Printing equipment**

			TECHNOLOGY	MATERIALS
PHOTOPOLYMERIZATION	formlabs Form 2 Model (x1) 145 x 145 x 175mm)		- Stereolithography (SLA). - Prototypes and final models. - Mainly used in jewellery and the dental sector.	White Castable Wax High Temp Black Resin Castable Wax Resin Durable Resin Elastic Resin Grey Resin Dental Mode Resin High Temp Resin White Resin Dental S Resin Tough Resin Clear Resin Dental LT Clear Resin Flexible Resin
	3DSYSTEMS NextDent 5100 Model (x1) (124 x 70 x 196mm)		- Digital Light Processing (DLP). - It combines the widest range of dental materials for multiple applications with unique precision and speed. - Biocompatible materials.	CIB-MFH (PL) CIB-MFH (N1) ND Cast ND C&B BL (CADUCADO) ND Gingiva Mask ND Model 2.0 ND Ortho IBT ND Ortho Rigid ND SG / Orange ND Tray ND Try-in ND Denture 3D

MATERIAL EXTRUSION	BCN3D TECHNOLOGIES BCN3D Sigma Model (x1) (210 x 297 x 210mm)		- Fused Deposition Modelling (FDM). - Independent dual extruder printer. - Enables high resolution multi-material parts to be printed simply and efficiently.	PLA TPU Nylon ABS PET-G
	stratasys Fortus 450MC Model (x1) (406 x 355 x 406mm)		- Fused Deposition Modelling (FDM). - It uses thermoplastics at the production level, so that the parts have an incomparable mechanical, thermal, and chemical strength.	ULTEM 1010 ULTEM 9085 ABS M30 Nylon 12 ASA PC-10
	Ultimaker (x1) S5 Model (330 x 240 x 300mm)		- Fused Deposition Modelling (FDM).	PLA Tough PLA Nylon ABS CPE CPE+ PC TPU 95ª PP PVA
	ANYCUBIC (x1) i3 Mega S Model (210 x 210 x 205mm)			PLA ABS TPU PETG

MATERIAL EXTRUSION	EPSILON (x1) Model BCN3D – Epsilon		- - Fused Filament Fabrication FFF - Manufactures large-scale parts from industrial materials, thanks to features such as its enclosed design and humidity-controlled chamber.	PLA PVA PET-G TPU, ABS PP PA PP GF30 PAHT CF15
MATERIAL JETTING	stratasys Polyjet J750 Model (x1) (490 x 390 x 200mm)		- Polijet (MJ) - It produces highly accurate, smooth-finish prototypes and tools. - Microscopic layer resolution up to 0.014 mm. - Wide range of materials and colours.	Flexible Material Shore (30-95) The whole range of colours, even transparent. Resins of all colours, it works by mixing five colours at the same time, producing more than 500,000 colours, including Pantone, textures, gradients, transparencies, and flexibilities.
DUST FLOUR	MJF 4200 Model (x2) (380 X 280 X 380mm)		- Multi Jet Fusion (MJF) - It produces pieces with great physical and functional properties. - HP Multi Jet Fusion accelerates the adoption of 3D manufacturing in a wide range of industries and applications.	PA11 PA12 TPU
	SINTERIT Lisa Model (x1) (110 X 150 X 130mm)		- Selective Laser Sintering (SLS) - High precision prototypes, without supports or shape limitations. - A maximum precision of 50 microns.	PA12 Fresh Powder PA12 Print Ready TPU or Flexa Black

POSTPROCESSING	(1x) Sandblasting machine - sandblaster		- Automatic and efficient removal of residual dust after printing, by automatic or optional manual sandblasting. - For polymers and metals.
	(x1) Graffiti machine		- Equipped with a vacuum firing system, which offers great versatility. Sand separation and recovery device and a self-cleaning cartridge filter.
	(x1) Air blasting machine		- Manual booths - They are equipped with firing units (sandblaster+cyclone) and filters that are connected to the sandblasting cabin by means of flexible pipes.
	(x1) Part dyeing system		- Global supply of color-accurate recipes down to the microgram.

POSTPROCESSING	abrast Polishing machine (x1)		- They are used for deburring, smoothing, polishing, deglossing, etc. parts with plastic, ceramic, ureic, sawdust and wood abrasives.
OTHER TECHNOLOGIES	SHINING 3D (x1) Scanner 3D (Shining 3D)		- Scan textures and capture the 3D data in full color.
	HEXAGON (x)1 Metrology Arm		- Solution for very high accuracy tactile probing measurement of small to medium sized parts.
	Zelus (x1) CO2 Laser Engraving Machine (Z Zelus)		- 60W laser tube. The cutting surface measures 500 x 700 mm / 20 x 28 inches, Engraving speed: 0-500 mm / s. Cutting speed: 0-80 mm / s. Adjustable resolution up to 4500 dpi

- **Other technological resources available to incubates:**

  As a partner of the IAM 3D HUB, the digital innovation center specialized in additive manufacturing and 3D printing, projects incubated in the 3D Incubator have preferential access to the facilities, equipment, services and technologies available at the HUB (located at DFactory Barcelona).

			TECHNOLOGY	MATERIALS
METAL	RENISHAW apply innovation™ (x1) RenAM 500Q model		- Selective Laser Melting -SLM-	Stainless steels and maraging Aluminum Titanium Inconel
TOOLS	(x1) Metacut S3 model		- Abrasive cutting machine for metallographic samples, offers solutions for efficient, versatile and high quality cutting. for efficient, versatile and high quality cutting.	

POSTPROCESSING	(1x) Modelo S3 Bluehler automet – 250 PNG		- Designed for demanding production laboratory environments. The AutoMet 250 is designed for manual or automated sample preparation.
	(x1) Microscopy ZEISS – Axiovert 40 mat		- Inverted microscope for routine metallographic analysis. - Contrast methods: Brightfield, Darkfield, Polarization and DIC.
	(x1) Vacuum ATEX Model		- They are used to separate the dust contained in raw gases. They work by sucking the dust-laden air and transporting it to a container containing liquid.

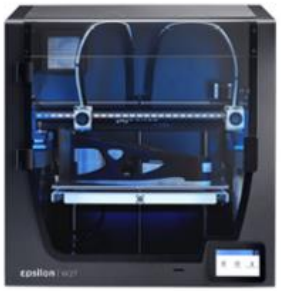
	RENISHAW apply innovation™ (x1) Sieve Station Model – Russel Finex		- It removes all oversize contamination and is ideal for high performance safety screening of powders and liquid sludge.
POSTPROCESSING	abrast (x1) Model L10 shot blasting machine		- The parts receive the abrasive jet generated by the turbine and, by constantly changing position, also receive an extremely uniform blasting treatment on all surfaces.
	abrast (x2) Modelo Abshot S3		- Abshot
	DLyte® (x1) Dlyte 500 Modelo - Electropolisher		- Performs high quality metal surface finishing faster and more efficiently, with processing times ten times better than current technologies.

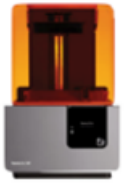
POSTPROCESSING	(x1) Electropolisher Model (Sandblaster)		- For blasting medium-sized parts for general industry.
	(x1) Photocentrics Cure L Modelo		- Post-curing solutions strengthen printed parts; allowing them to deliver the material properties to their fullest potential and optimum color.
	(x1) Photocentrics Wash 99L Modelo		- Photocentrics Wash 99L

POSTPROCESSING	(x1) Polisher Model		- They are used for deburring, smoothing, polishing, deglossing, etc. parts with plastic, ceramic, ureic, sawdust and wood abrasives.
	(x1) Sandblaster S1 Modelo		- Constant rotation of the workpieces during the cleaning process ensures repeatable and consistent blasting results.
	- (x1) Sandblaster Modelo		

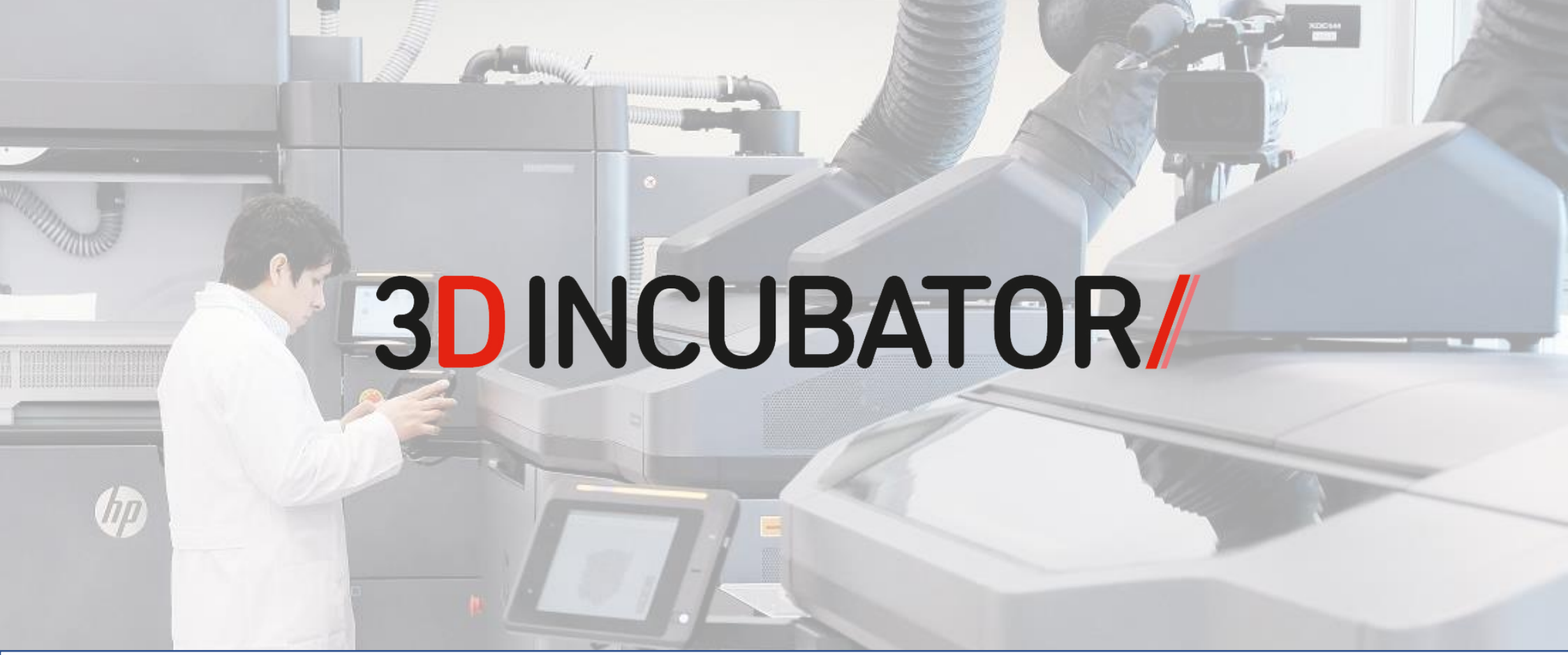
POSTPROCESSING	formlabs (x1) FormWash Modelo - FormCure		- automated large-format post-processing solution for high-volume 3D printing.
	AM solutions (x1) Vibrational polisher M1		- Surface polishing of 3D printed metal or plastic components, both individually printed components and small batches.

MATERIAL EXTRUSION	- (1x) Intamsys HT Modelo		- Fused Filament Fabrication -FFF-. - Capable of printing on high-performance functional materials such as PEEK, ULTEM and PPSU, as well as a wide range of engineering thermoplastics.	FDM PEEK PEKK ULTEM™ PPSU PSU PA/CF PC ASA PETG
	(x1) BCN3D+		- Fused Filament Fabrication -FFF-	FDM ABS PA PLA
	(x1) Modelos Up!			FDM
	(x2) Kodak Portrait 3D Model		- The dual extrusion system features automatic nozzle elevation and interchangeable PTFE and metal ends for optimum material compatibility.	FDM
	(x1) 3Devo- precisión 450 model		- It has presets for professional quality PEEK material. Allows the production of homogeneous materials on a small scale.	Filament maker

OVEN	(x2) Stove digitronic model - 145		- Stove digitronic - 145	
MATERIAL EXTRUSION	(x1) BigRep1		- Fused Filament Fabrication -FFF-. - Large format 3D printer, with a massive build volume of one cubic meter.	TPU PVA PLA PETG
MATERIAL EXTRUSION	(x1) BCN3D – Epsilon model		- Fused Filament Fabrication -FFF-. - Manufactures large-scale parts with industrial materials, thanks to features such as its closed design and humidity-controlled chamber.	PLA PVA PET-G TPU, ABS PP PA PP GF30 PAHT CF15
	(x2) Stratasys Model – Dimension 768		- Stratasys – Dimension 768	FDM

MATERIAL EXTRUSION	(x2) HP MJF 5200 model		- Multi Jet Fusion (MJF) - Produces parts with high physical and functional properties. - HP Multi Jet Fusion accelerates the adoption of 3D manufacturing across a wide range of industries and applications.	PA11 PA12 PA12GB PP TPU
	(x1) Vx200 – Voxljet model		- Binder Jetting -BJ- - Prints small prototypes and design parts efficiently and is very easy to operate.	Sands and ceramics
	(x1) Form3 model - Formalabs		- SLA - Produce high-quality, functional prototypes and end-use parts in record time with an affordable industrial-grade resin 3D printer that delivers reliable results.	Light-cured resins
	(x1) Form2 model - Formlabs		- SLA - Manufactures high quality, functional prototypes and end-use parts	Light-cured resins

MATERIAL EXTRUSION	CREALITY (x2) LD-002R Model - LCD Creality		- Liquid Crystal Display -LCD-	Standard photosensitive resins, elastomeric, high strength, dental
	PRUSA RESEARCH (x1) Prusa 1 model – LCD Prusa		- Liquid Crystal Display -LCD-	UV-sensitive liquid resin
	Photocentric (x1) Model Maximus		- LCD Photocentrics - Mass production of dental models and shoe soles, for the production of large-scale automotive prototypes or manufacturing aids.	Photocentric LCD Daylight
	Photocentric (x2) Model Magna - LCD Photocentrics		- Stereolithography (SLA) - Custom mass production with LC Magna's impressive large platform design, maximize your 3D potential.	Daylight and UV resins (rigid, durable, flexible)



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The High-Tech Business incubator is a project led by “El Consorcio de Zona Franca de Barcelona” and “Fundación LEITAT”. Its goal is to incubate the 100 best initiatives related to additive manufacturing in 5 years by creating a space for the incubation of start-ups, SMEs and micro-companies that use this technology.

The 3D Incubator is co-financed at a 50% by the European Regional Development Fund (ERDF), through the Spanish Pluri-regional Operational Program 2014-2020, and operates under Axis 3: Improving the competitiveness of SME’s.

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