

Traid Villarroya 3D

In **Traid Villarroya 3D** We work with a wide range of technical materials, to meet the demands of each piece

Fast, functional prototypes, custom parts, short and medium series manufacturing. **Any project that requires 3D printing we can do it.**

Filament Printing

Standard Materials	Engineering Materials	Technical Materials
PLA PLA HQ ABS ASA HIPS TPU PETG PETG-CARBON PA12-CARBON	PP PC PC-ABS PA12	PEEK PEKK PEKK CARBON PEI9085 PEI1010 PPSU

PRINT VOLUME: 600 x 450 x 450 mm
 AXIS Z PRECISION: 1,25 - 1,60 microns
 PRECISION AXES XY: 7,5 - 12 microns



PRODUCTION TECHNOLOGY: DYNAMICAL 3D CARBON PRODUCTION PARTNER



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IMPRESIÓN 3D

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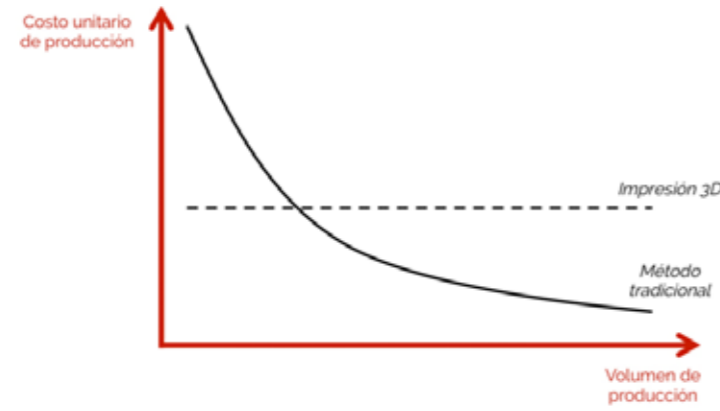
3D Printing

3D printing is an additive method, capable of creating a three-dimensional object by adding material from CAD or modeling software. The object is constructed layer by layer, while in subtraction methods the object is processed from a block of material, resulting in a high percentage of wasted material.

- Savings in materials.
- Quick preparation.
- Cost savings.
- Pieces of great geometric complexity.
- Manufacture of more complex parts.

The utility of 3D printing for the manufacture of objects is as wide as industrial and business fields in which to apply it; for example:

- Medicine (prosthesis)
- Architecture and design (layout)
- Food (containers)
- Automotive and Aeronautical



Engineering

From Traid Villarroya 3D; We offer comprehensive 3D technology service for our customers:

- so you can achieve significant savings in material, delivery time and mechanical characteristics
- **Redesign and Scan:** Obtaining 3D files of a product that we do not have plans, as well as discontinued spare parts.

- **Comprehensive design:** Our technical office will shape your product. We optimize the aesthetics, facilitate its manufacture and improve the performance of the final product.
- We can make an Optimized Design from its current design, we adapt the pieces to the different printing technologies,



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DLS™ technology printing

MATERIAL	PLASTICO SIMILAR	RESISTENCIA A LA TRACCIÓN	ELONGACIÓN HASTA ROTURA	MÓDULO DE TRACCIÓN	DUREZA SHORE	FUERZA DE IMPACTO	TEMP.	BIOCOMPATIBILIDAD: CITOTOXICIDAD
CE 221	PA6 + F.V.	92 MPa	3%	3870 MPa	92D	15 J/m	231C	✓
EPU 41	TPU	6.2 MPa	>130%	N/A	73A	N/A	N/A	✓
EPX 82	PBT + 20% F.V.	82 MPa	5,9%	2800 MPa	89D	44 J/m	115C	✓
FPU 50	PP	29 MPa	280%	831 MPa	71D	40 J/m	78C	✓
MPU 100	-	38 MPa	25%	1200 MPa	-	29 J/m	48C	✓
RPU 70	ABS / PC ABS	45 MPa	100%	1900 MPa	80D	22 J/m	70C	✓
SIL 30	TPE	3.4 MPa	330%	N/A	35A	N/A	N/A	✓
DPR 10	-	46 MPa	4%	1450 MPa	N/A	20 J/m	61C	✓
PR 25	-	46 MPa	4%	1450 MPa	N/A	20 J/m	61C	✓
UMA 90	-	46 MPa	17%	2000 MPa	86D	33 J/m	51C	✓



PRINT VOLUME: 189 x 118 x 326 mm

PRODUCTION TECHNOLOGY: DYNAMICAL 3D CARBON PRODUCTION PARTNER

Printing by SLS Technology "Powder"

Soon SLS (Selective Laser Sintering)



traid villarroya

High quality materials since 1.968

- **CE 221:** high performance material with high strength, stiffness and temperature (231°C).
- **DPR 10:** material for production of dental model.
- **EPU 40:** high performance polyurethane, elastomer, good for high elastic applications.
- **EPX 82:** combines hardness, stiffness and resistance to temperature. Use in automotive, industry and consumer applications.
- **FPU 50:** semi-rigid material resistant to impact, abrasion and fatigue. Recommended for parts that must withstand stress or friction.
- **MPU 100:** offers a unique combination of mechanical strength, biocompatibility, and sterilization.
- **PR 25:** It is a material that has excellent resolution, prints quickly and is able to withstand moderate functional tests.
- **RPU 70:** It is a heat resistant material, recommended for parts that require strength, toughness and moderate heat.
- **SIL 30:** elastomer product, soft, biocompatible and resistant, ideal for skin contact.
- **UMA 90:** it is a simple resin easy to use with improved toughness, suitable for use in prototypes and manufacturing of templates and accessories.