seido solutions

3D PRINTING SOLUTIONS

SOLUTIONS D'IMPRESSION 3D

3D technologies
index / sommaire

04 - 15
FDM

EN Fused Deposition Modeling (FDM) utilizes a wide range of **thermoplastic materials.** The part is built layer by layer from filament, achieving a **dimensional accuracy** of 0.15 mm and excellent repeatability, ensuring consistent high-quality results.

FR Fused Deposition Modeling (dépôt de fil fondu), une large gamme de **thermoplastiques**, sous forme de filaments, la pièce est construite couche par couche. Ceci est réalisé avec une **précision dimensionnelle** de 0,15 mm et une répétabilité importante.

16 - 23
DLP

EN Digital Light Processing (DLP) uses a digital light source and light-sensitive resin to produce parts with highly detailed, **isotropic** properties and **injection-molded quality**. Loctite (Henkel) materials provide a dimensional accuracy of ±0.5%.

FR Le traitement numérique de la lumière fonctionne avec une source de lumière numérique et une résine photosensible. Les pièces sont caractérisées comme des pièces **isotropes** détaillées en **qualité de moulage par injection.** Les matériaux Loctite (Henkel) garantissent une précision dimensionnelle de ± 0,5 %.

24 - 25
SLA

EN Stereolithography (SLA) utilizes a 355 nm wavelength laser to produce parts with high resolution, making it ideal for **large**, detailed parts with **high resolution**.

FR La stéréolithographie utilise un laser d'une longueur d'onde de 355 nm. Convient pour les **grandes pièces** à **haute résolution.**

26 - 29
MJF/SAF

EN MJF/SAF Powder Technology enables the production of **highly detailed parts** with excellent surface finish in PA11. It is ideal for **series production**, offering consistent dimensional accuracy and reliable mechanical properties.

FR La technologie des poudres MJF/SAF permet de produire des **pièces précises** avec un bon état de surface en PA11. Convient à la **production en série** avec une grande cohérence en termes de stabilité dimensionnelle et de propriétés mécaniques.

30 - 31
POLYJET

EN With a layer thickness of just 0.014 mm, PolyJet technology is able to produce exceptionally fine details and smooth, high-quality surfaces, whether in **flexible, rubber-like** materials or harder, **Pantone© full-color** materials. Crystal-clear transparent parts can also be produced, offering maximum versatility.

FR Impression par jet de résine multi-matières avec des couches allant jusqu'à 0,014mm d'épaisseur. On obtient des détails très fins et des surfaces lisses avec un haut degré de finition. Des matériaux **souples et caoutchouteux** aux matériaux durs et texturés, en passant par les **couleurs Pantone©.** Même les pièces transparentes et cristallines sont possibles.

32
SLM

EN Selective Laser Melting (SLM) uses the energy of a laser beam to fuse metal powder into fully dense parts. It easily handles **complex geometries**, including integrated cooling channels. Parts can also be **machined afterwards** to achieve the required tolerances.

FR La fusion sélective par laser utilise l'énergie du faisceau laser pour fusionner la poudre métallique. Les **formes complexes,** telles que les canaux de refroidissement intégrés, ne posent aucun problème. Il est également possible de **fraiser des** pièces **selon les** tolérances requises.

PROTOTYPING

PRODUCTION

MEDICAL / DENTAL

TOOLING

ASA

UV STABLE

UNIVERSAL

Build size: **914 x 610 x 914 mm**
Tolerance: **± 0,15 mm**

Applications

- Functional prototyping
- Outdoor
- Production parts
- Jigs & fixtures

Performance: ★★★★☆
Production: ★★★☆☆
Aesthetic: ★★½☆☆
Prototype: ★★★★☆

Key properties

Colors: ○ ● ● ● ● ● ● ●

Tensile Strength at break	ASTM D638	32 MPa (XZ)	28 MPa (ZX)
Elongation at Break	ASTM D638	5,9% (XZ)	1,8% (ZX)
Flexular Strength	ASTM D790	61 MPa (XZ)	51 MPa (ZX)
IZOD Impact (Notched)	ASTM D256	43 J/m (XZ)	23 J/m (ZX)
HDT at 0.455 MPa	ASTM D648	98 °C	

ABS
M30

UNIVERSAL

Build size: **914 x 610 x 914 mm**
Tolerance: **± 0,15 mm**

Applications

- Functional prototyping
- Jigs & fixtures
- Production parts
- Thermoform tools

Performance: ★★★★☆
Production: ★★★☆☆
Aesthetic: ★★½☆☆
Prototype: ★★★★☆

Key properties

Colors: ○ ● ● ● ●

Tensile Strength at break	ASTM D638	32 MPa (XZ)	27 MPa (ZX)
Elongation at Break	ASTM D638	8,1% (XZ)	1,8% (ZX)
Flexular Strength	ASTM D790	58 MPa (XZ)	47 MPa (ZX)
IZOD Impact (Notched)	ASTM D256	101 J/m (XZ)	32 J/m (ZX)
HDT at 0.455 MPa	ASTM D648	96 °C	

ABS
ESD7

ANTISTATIC

Build size: **914 x 610 x 914 mm**
Tolerance: **± 0,15 mm**

Applications

- Electronical parts
- Conveyer parts
- Jigs & fixtures
- Electrical applications (housing)

Performance: ★★★☆☆
Production: ★★★☆☆
Aesthetic: ★★½☆☆
Prototype: ★★★☆☆

Key properties

Color: ●

Tensile Strength at break	ASTM D638	35 MPa (XZ)	27 MPa (ZX)
Elongation at Break	ASTM D638	3,4% (XZ)	1,59% (ZX)
Flexular Strength	ASTM D790	67 MPa (XZ)	44 MPa (ZX)
IZOD Impact (Notched)	ASTM D256	36 J/m (XZ)	20 J/m (ZX)
HDT at 0.455 MPa	ASTM D648	96 °C	

PC

STIFF TEMPERATURE IMPACT RESISTANT

Build size: **914 x 610 x 914 mm**
Tolerance: **± 0,15 mm**

Applications

- Functional prototyping
- Automotive
- Jigs & fixtures
- Thermoform tools

Performance: ★★★★☆
Production: ★★★☆☆
Aesthetic: ★★½☆☆
Prototype: ★★★☆☆

Key properties

Color: ○

Tensile Strength at break	ASTM D638	57 MPa (XZ)	35 MPa (ZX)
Elongation at Break	ASTM D638	5,2% (XZ)	2% (ZX)
Flexular Strength	ASTM D790	90 MPa (XZ)	75 MPa (ZX)
IZOD Impact (Notched)	ASTM D256	76 J/m (XZ)	26 J/m (ZX)
HDT at 0.455 MPa	ASTM D648	138 °C	

PC-ISO

BIOCOMPATIBLE

Build size: **914 x 610 x 914 mm**
Tolerance: **± 0,15 mm**

Applications

- Functional prototyping
- Medical
- Food

Performance: ★★★★☆
Production: ★★★☆☆
Aesthetic: ★★½☆☆
Prototype: ★★★☆☆

Key properties

Color: ○

Tensile Strength at break	ASTM D638	57 MPa (XZ)	42 MPa (ZX)
Elongation at Break	ASTM D638	4% (XZ)	2,5% (ZX)
Flexular Strength	ASTM D790	90 MPa (XZ)	86 MPa (ZX)
IZOD Impact (Notched)	ASTM D256	36 J/m (XZ)	20 J/m (ZX)
HDT at 0.455 MPa	ASTM D648	133 °C	

PC-ABS

TEMPERATURE

IMPACT RESISTANT

Build size: **914 x 610 x 914 mm**
Tolerance: **± 0,15 mm**

Applications

- Functional prototyping
- Automotive
- Industrial equipment

Performance: ★★★★☆
Production: ★★★☆☆
Aesthetic: ★★½☆☆
Prototype: ★★★☆☆

Key properties

Color: ●

Tensile Strength at break	ASTM D638	36 MPa (XZ)	25 MPa (ZX)
Elongation at Break	ASTM D638	4,7% (XZ)	1,8% (ZX)
Flexular Strength	ASTM D790	61 MPa (XZ)	46 MPa (ZX)
IZOD Impact (Notched)	ASTM D256	241 J/m (XZ)	34 J/m (ZX)
HDT at 0.455 MPa	ASTM D648	110 °C	

PA 12

HIGH VIBRATIONS RESISTANT

Build size: **914 x 610 x 914 mm**
Tolerance: **± 0,15 mm**

Applications

- Functional prototyping
- Panels, covers
- Snap fit clips

Performance: ★★★★☆
Production: ★★★☆☆
Aesthetic: ★★½☆☆
Prototype: ★★★☆☆

Key properties

Color: ●

Tensile Strength at break	ASTM D638	49 MPa (XZ)	41 MPa (ZX)
Elongation at Break	ASTM D638	30% (XZ)	6,5% (ZX)
Flexular Strength	ASTM D790	56 MPa (XZ)	54 MPa (ZX)
IZOD Impact (Notched)	ASTM D256	138 J/m (XZ)	71 J/m (ZX)
HDT at 0.455 MPa	ASTM D648	91 °C	

PA 12
Carbon Fiber

CARBON FILLED

STIFFNESS TO WEIGHT RATIO

Build size: **914 x 610 x 914 mm**
Tolerance: **± 0,25 mm**

Applications

- Functional prototyping
- End use parts
- Tooling
- Jigs & fixtures

Performance: ★★★★★
Production: ★★★★☆
Aesthetic: ★★½☆☆
Prototype: ★★★☆☆

Key properties

Color: ●

Tensile Strength at break	ASTM D638	83 MPa (XZ)	32 MPa (ZX)
Elongation at Break	ASTM D638	2,4% (XZ)	1,2% (ZX)
Flexular Strength	ASTM D790	153 MPa (XZ)	62 MPa (ZX)
IZOD Impact (Notched)	ASTM D256	106 J/m (XZ)	24 J/m (ZX)
HDT at 0.455 MPa	ASTM D648	91 °C	

Ultem
1010

BIOCOMPATIBLE

TEMPERATURE

FDA APPROVED

Build size: **914 x 610 x 914 mm**
Tolerance: **± 0,25 mm**

Applications

- Functional prototyping
- Medical
- Food
- Industrial equipment

Performance: ★★★★★
Production: ★★★★☆
Aesthetic: ★★½☆☆
Prototype: ★★★☆☆

Key properties

Color:

Tensile Strength at break	ASTM D638	69 MPa (XZ)	39 MPa (ZX)
Elongation at Break	ASTM D638	5,4% (XZ)	1,9% (ZX)
Flexular Strength	ASTM D790	104 MPa (XZ)	73 MPa (ZX)
IZOD Impact (Notched)	ASTM D256	88 J/m (XZ)	39 J/m (ZX)
HDT at 0.455 MPa	ASTM D648	216 °C	

Ultem
9085

FST MATERIAL

TEMPERATURE

Build size: **914 x 610 x 914 mm**
Tolerance: **± 0,25 mm**

Applications

- Functional prototyping
- Aerospace
- Railway
- Automotive

Performance: ★★★★★
Production: ★★★★☆
Aesthetic: ★★½☆☆
Prototype: ★★★☆☆

Key properties

Colors: ● ●

Tensile Strength at break	ASTM D638	79 MPa (XZ)	28 MPa (ZX)
Elongation at Break	ASTM D638	4% (XZ)	1,1% (ZX)
Flexular Strength	ASTM D790	128 MPa (XZ)	61 MPa (ZX)
IZOD Impact (Notched)	ASTM D256	26 J/m (XZ)	21 J/m (ZX)
HDT at 0.455 MPa	ASTM D648	153 °C	

Loctite
3843

UNIVERSAL

ISOTROPIC

IMPACT RESISTANT

BIOCOMPATIBLE

Build size: **380 x 210 x 320 mm**
Tolerance: **± 0,1 mm**

Applications

- Functional prototyping
- Medical
- Industrial - consumer products
- Automotive

Performance: ★★★★½
Production: ★★★★☆
Aesthetic: ★★★★☆
Prototype: ★★★★☆

Key properties

Colors: ○ ●

Tensile Strength at break	ASTM D638	51 MPa
Elongation at Break	ASTM D638	43 %
Flexular Strength	ASTM D638	1800 MPa
IZOD Impact (Notched)	ASTM D256	53 J/m
HDT at 0.455 MPa	ASTM D648	63 °C

Loctite
IND403

ISOTROPIC

UNIVERSAL

Build size: **380 x 210 x 320 mm**
Tolerance: **± 0,1 mm**

Applications

- Functional prototyping
- Industrial - consumer products
- Automotive
- Molds

Performance: ★★★★½
Production: ★★★★☆
Aesthetic: ★★★★☆
Prototype: ★★★★☆

Key properties

Color: ●

Tensile Strength at break	ASTM D638	70 MPa
Elongation at Break	ASTM D638	10 %
Flexular Strength	ASTM D638	2600 MPa
IZOD Impact (Notched)	ASTM D256	27 J/m
HDT at 0.455 MPa	ASTM D648	80 °C

Loctite
IND406

TEMPERATURE · ISOTROPIC · IMPACT RESISTANT

Build size: **380 x 210 x 320 mm**
Tolerance: **± 0,1 mm**

Applications

- Functional prototyping
- Automotive
- Industrial
- Consumer products

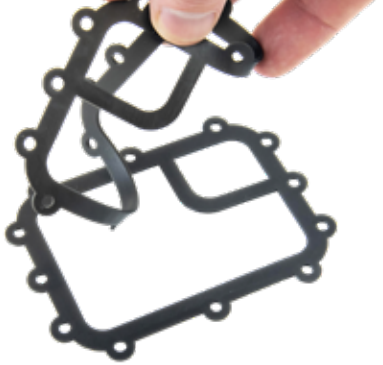
Performance: ★★★★★
Production: ★★★★☆
Aesthetic: ★★★★☆
Prototype: ★★★★☆

Key properties

Color: ●

Tensile Strength at break	ASTM D638	55 MPa
Elongation at Break	ASTM D638	25 %
Flexular Strength	ASTM D638	1610 MPa
IZOD Impact (Notched)	ASTM D256	35 J/m
HDT at 0.455 MPa	ASTM D648	107 °C

Loctite
IND402 A70



ISOTROPIC · ELASTOMER

Build size: **380 x 210 x 320 mm**
Tolerance: **± 0,1 mm**

Applications

- Functional prototyping
- Sportswear
- Braces
- Consumer products

Performance: ★★★★☆
Production: ★★★★☆
Aesthetic: ★★★★☆
Prototype: ★★★★☆

Key properties

Color: ●

Tensile Strength at break	ASTM D638	5,5 MPa
Elongation at Break	ASTM D638	230 %
Flexular Strength	ASTM D638	42 MPa
IZOD Impact (Notched)	ASTM D256	-
HDT at 0.455 MPa	ASTM D648	-

Loctite
MED413 ISO

BIOCOMPATIBLE · ISOTROPIC · BODY TEMPERATURE ENVIRONMENT

Build size: **380 x 210 x 320 mm**
Tolerance: **± 0,1 mm**

Applications

- Functional prototyping
- Medical
- Hearing aids
- High definition parts

Performance: ★★★★½
Production: ★★★★☆
Aesthetic: ★★★★☆
Prototype: ★★★★☆

Key properties

Color: ◯

Tensile Strength at break	ASTM D638	40 MPa
Elongation at Break	ASTM D638	50 %
Flexular Strength	ASTM D638	1600 MPa
IZOD Impact (Notched)	ASTM D256	59 J/m
HDT at 0.455 MPa	ASTM D648	70 °C

Loctite
3172

PP LIKE MATERIAL · ISOTROPIC · BIOCOMPATIBLE

Build size: **380 x 210 x 320 mm**
Tolerance: **± 0,1 mm**

Applications

- Functional prototyping
- Jigs & fixtures
- Tooling
- High definition parts

Performance: ★★★★½
Production: ★★★★☆
Aesthetic: ★★★★☆
Prototype: ★★★★☆

Key properties

Color: ●

Tensile Strength at break	ASTM D638	50 MPa
Elongation at Break	ASTM D638	100 %
Flexular Strength	ASTM D638	1400 MPa
IZOD Impact (Notched)	ASTM D256	73 J/m
HDT at 0.455 MPa	ASTM D648	52 °C

Loctite
3955

FST MATERIAL

ISOTROPIC

Build size: **192 x 108 x 370 mm**
Tolerance: **± 0,1 mm**

Applications

- Functional prototyping
- Electronics
- Aerospace
- High definition parts

Performance: ★★★★★
Production: ★★★★☆
Aesthetic: ★★★★☆
Prototype: ★★★★☆

Key properties

Color: ●

Tensile Strength at break	ASTM D638	67 MPa
Elongation at Break	ASTM D638	2 %
Flexular Strength	ASTM D638	3600 MPa
IZOD Impact (Notched)	ASTM D256	23 J/m
HDT at 0.455 MPa	ASTM D648	300 °C

Watershed
CLEAR

ISOTROPIC

Build size: **450 x 450 x 400 mm**
Tolerance: **± 0,1 mm**

Applications

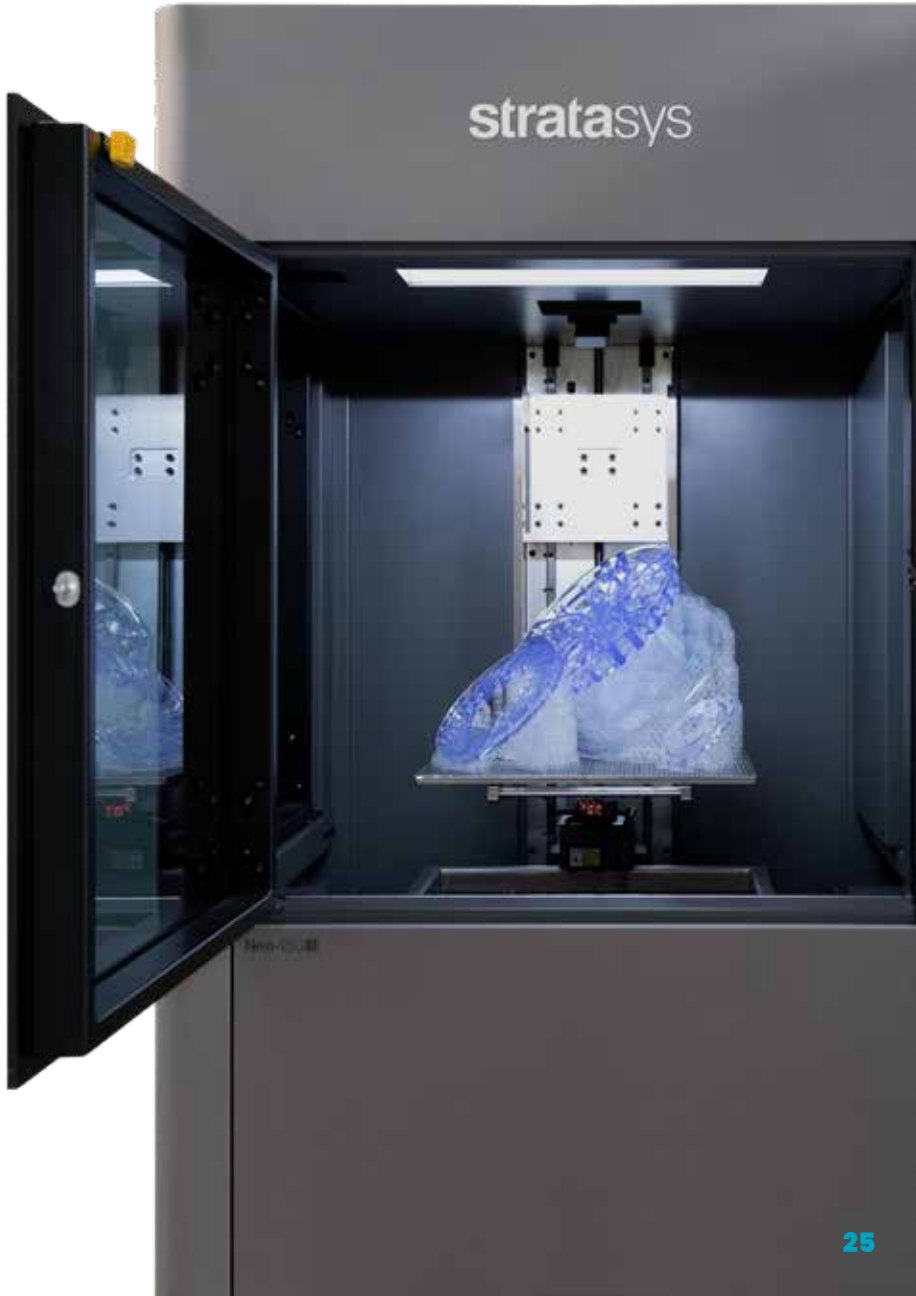
- Concept models
- Flow analysis
- Consumer products
- High definition parts

Performance: ★★★★☆
Production: ★★★★☆
Aesthetic: ★★★★☆
Prototype: ★★★★☆

Key properties

Color: ◯

Tensile Strength at break	ASTM D638	50 MPa
Elongation at Break	ASTM D638	15,5 %
Flexular Strength	ASTM D638	2770 MPa
IZOD Impact (Notched)	ASTM D256	25 J/m
HDT at 0.455 MPa	ASTM D648	50 °C



PA11

ISOTROPIC UV STABLE BIOPLASTIC

Build size: **300 x 200 x 290 mm**
Tolerance: **± 0,1 mm**

Applications

- Functional prototyping
- End use parts
- Consumer products

Performance: ★★★★★
Production: ★★★★★
Aesthetic: ★★★★☆
Prototype: ★★★★☆

Key properties

Colors:

Tensile Strength at break	ASTM D638	47 MPa
Elongation at Break	ASTM D638	4,8 %
Flexular Strength	ASTM D638	1529 MPa
IZOD Impact (Notched)	ASTM D256	-
HDT at 0.455 MPa	ASTM D648	185 °C

PA12

ISOTROPIC UV STABLE

Build size: **300 x 200 x 290 mm**
Tolerance: **± 0,1 mm**

Applications

- Functional prototyping
- End use parts
- High definition parts

Performance: ★★★★★
Production: ★★★★★
Aesthetic: ★★★★☆
Prototype: ★★★★☆

Key properties

Colors:

Tensile Strength at break	ASTM D638	45 MPa
Elongation at Break	ASTM D638	5%
Flexular Strength	ASTM D638	1700 MPa
IZOD Impact (Notched)	ASTM D256	-
HDT at 0.455 MPa	ASTM D648	173 °C

PP

ISOTROPIC

UV STABLE

Build size: **300 x 200 x 290 mm**
Tolerance: **± 0,1 mm**

Applications

- Functional prototyping
- End-use parts
- Chemically resistant & airtight

Performance: ★★★★★
Production: ★★★★★
Aesthetic: ★★★★☆
Prototype: ★★★★☆

Key properties

Colors:

Tensile Strength at break	ASTM D638	26 MPa
Elongation at Break	ASTM D638	22 %
Flexular Strength	ASTM D790	119 MPa
IZOD Impact (Notched)	ASTM D256	3,5
HDT at 0.455 MPa	ASTM D648	107 °C

Full Color

Clear & rubber shore-A range

ISOTROPIC

MULTI MATERIALS

Build size: **490 x 390 x 200 mm**
Tolerance: **± 0,1 mm**

Applications

- High-end prototyping
- Seals, gaskets, covers, ...
- Medical
- Marketing objects

Performance: ★☆☆☆☆
Production: ★☆☆☆☆
Aesthetic: ★★★★★
Prototype: ★★★★★

Key properties

Colors:

Tensile Strength at break	ASTM D638	50 MPa
Elongation at Break	ASTM D638	10 %
Flexular Strength	ASTM D638	2200 MPa
IZOD Impact (Notched)	ASTM D256	20 J/m
HDT at 0.455 MPa	ASTM D648	45 °C

Stainless steel
316L

TENSILE STRENGTH

Build size: **150 x 150 x 150 mm**
Tolerance: **± 0,1 mm**

Applications

- Industrial
- Medical
- (Petro) chemical
- Food processing

Performance: ★★★★★
Production: ★★★☆☆
Aesthetic: ★★★☆☆
Prototype: ★★★★★

EN Metal 3D-printed parts sometimes require **post-processing** to achieve the desired quality and precision.
SEIDO Solutions offers a comprehensive range of post-processing services to provide a **complete solution** for our customers, including: sandblasting, milling, turning, and (thread) tapping. Contact us for more information.

FR Les pièces métalliques imprimées en 3D nécessitent parfois un post-traitement, mais le processus de production ne permet pas toujours d'obtenir le résultat souhaité.
C'est pourquoi SEIDO Solutions propose également plusieurs procédés de finition possibles (sablage, fraisage, tournage, taraudage), afin d'apporter une solution complète à chacun de ses clients. Contactez-nous pour plus d'informations.

Cobalt-Chrome
F75

BIOCOMPATIBLE TENSILE STRENGTH

Build size: **150 x 150 x 150 mm**
Tolerance: **± 0,1 mm**

Applications

- Industrial
- Dental implants
- Gas turbines
- Orthopedics

Performance: ★★★★★
Production: ★★☆☆☆
Aesthetic: ★★★☆☆
Prototype: ★★★☆☆

In-house production

EN SEIDO Solutions was founded in 2011 as part of SEIDO Systems. The company was created to support benchmarks, VIP services, and to expand production capacity for existing clients.

All the technologies we offer are available in-house, ensuring that every part is handled with the utmost confidentiality. We also provide short lead times, rigorous quality control, and competitive pricing.

At SEIDO Solutions, our focus goes beyond production — we prioritize close collaboration with our clients. We provide guidance on material and technology selection, product optimization, and other key aspects to help bring projects to life.

Whether you are looking to realize a specific project or simply want to learn more about our capabilities, please contact our team using one of the options below.

FR SEIDO Solutions a été fondée en 2011 sous l'égide de SEIDO Systems, dans le but de développer le service VIP et d'augmenter la capacité de production de nos clients.

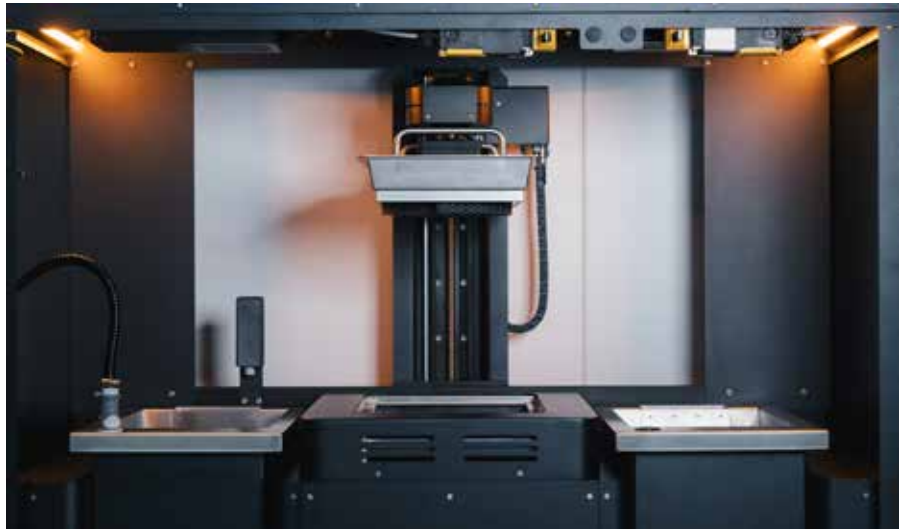
SEIDO Solutions dispose de toutes les technologies proposées par SEIDO Systems.
Nous garantissons ainsi une entière confidentialité de vos demandes et offrons des délais de livraison courts, un contrôle de qualité élevé, et le tout à un prix équitable.

Au-delà de notre savoir-faire et notre réactivité, la relation client est primordiale. Nous conseillons nos clients dans différents domaines tels que le choix du matériau et de la technologie, l'optimisation du produit, etc.

Vous souhaitez réaliser un projet ou obtenir de plus amples informations ?
Contactez-nous aux coordonnées ci-dessous :

info@seido-solutions.com

Belgium / Belgique	**+32 56 35 00 35**
Netherlands / Pays-bas	**+31 30 32 00 274**
France / France	**+33 3 53 32 00 59**
Nordics	**+46 40 13 50 00**



SEIDO Solutions

Belgium	**+32 56 35 00 35**
Netherlands	**+31 30 32 00 274**
France	**+33 3 53 32 00 59**
Nordics	**+46 40 13 50 00**

www.seido-solutions.com

info@seido-solutions.com

seido solutions

Foto's © Stratasys, Covestro, Loctite