



3D PRINTING SOLUTIONS

Technologie index

04 – 13 FDM

Fused Deposition Modeling, een breed scala aan **thermoplastische kunststoffen**. In de vorm van filament wordt het werkstuk laag voor laag opgebouwd. Dit gebeurt met een **maatnauwkeurigheid** van 0,15 mm en een hoge herhaalnauwkeurigheid.

14 – 21 DLP

Digital Light Processing werkt met een digitale lichtbron en lichtgevoelig hars. De onderdelen kenmerken zich als gedetailleerde **isotrope** onderdelen in **spuitgietkwaliteit**. De Loctite (Henkel) materialen zorgen voor een maatnauwkeurigheid van $\pm 0,5\%$.

22 – 23 SLA

Bij Stereolithografie wordt een laser gebruikt met een golflengte van 355 nm. Geschikt voor **grote onderdelen** met een **hoge resolutie**.

24 – 25 MJF/SAF

MJF/SAF poedertechnologie produceert **gedetailleerde onderdelen** met een goede oppervlakteafwerking in PA11. Geschikt voor **serieproductie** met een hoge consistentie qua maatvastheid en mechanische eigenschappen.

26 – 27 POLYJET

Met een laagdikte van 0,014 mm worden er zeer fijne details en gladde oppervlakken met een hoge afwerkingsgraad bekomen, zowel in **flexibele, rubberachtige** als in hardere, **Pantone® full color** materialen. Ook glasheldere transparante onderdelen zijn mogelijk.

28 SLM

Selective Laser Melting, de energie van de laserstraal 'last' het poeder aan elkaar. **Complexe vormen**, zoals geïntegreerde koelkanalen, zijn geen probleem. Het is ook mogelijk om onderdelen **na te frezen** om gevraagde toleranties te bekomen.

In-house production

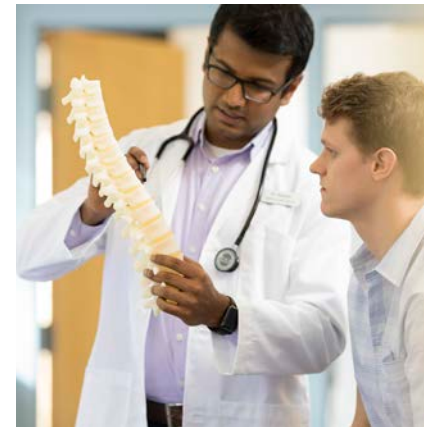
PROTOTYPING



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: ★★★★★
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)
 Flexural 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: ★★★★★
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)
 Flexural 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



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



ANTISTATIC

Applications

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

Performance: ★★★★★






Production: ★★★★★

Aesthetic: ★★★★★

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



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



STIFF



TEMPERATURE



IMPACT RESISTANT

Applications

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

Performance: ★★★★★




Production: ★★★★★

Aesthetic: ★★★★★

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: ★★★★★
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: ★★★★★
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



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



Applications

- Functional prototyping
- Panels, covers
- Snap fit clips

Performance: ★★★★★
Production: ★★★★★
Aesthetic: ★★★★★
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



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



Applications

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

Performance: ★★★★★
Production: ★★★★★
Aesthetic: ★★★★★
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

9085



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

Applications

- Functional prototyping
- Aerospace
- Railway
- Automotive

Performance: ★★★★★
Production: ★★★★★
Aesthetic: ★★★★★
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	

Ultem

1010



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

Applications

- Functional prototyping
- Medical
- Food
- Industrial equipment

Performance: ★★★★★
Production: ★★★★★
Aesthetic: ★★★★★
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	

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: ★★★★★

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: ★★★★★

Production: ★★★★★

Aesthetic: ★★★★★

Prototype: ★★★★★

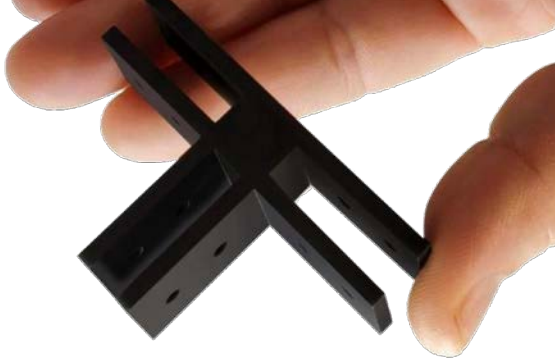
Key properties

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



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

Applications

- Functional prototyping
- Automotive
- Industrial
- Consumer products

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

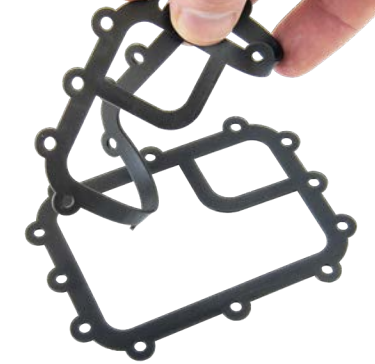
Key properties

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



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



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

Applications

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

Performance: ★★★★★
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



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

Applications

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

Performance: ★★★★★
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



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

Loctite

DURA 56



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





Applications

- Functional prototyping
- End use parts
- High definition parts

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

Key properties

Color: ●

 Tensile Strength at break	ASTM D638	42 MPa
 Elongation at Break	ASTM D638	-
 Flexular Strength	ASTM D638	1600 MPa
 IZOD Impact (Notched)	ASTM D256	56 J/m
 HDT at 0.455 MPa	ASTM D648	52 °C

Watershed

CLEAR



ISOTROPIC

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






Applications

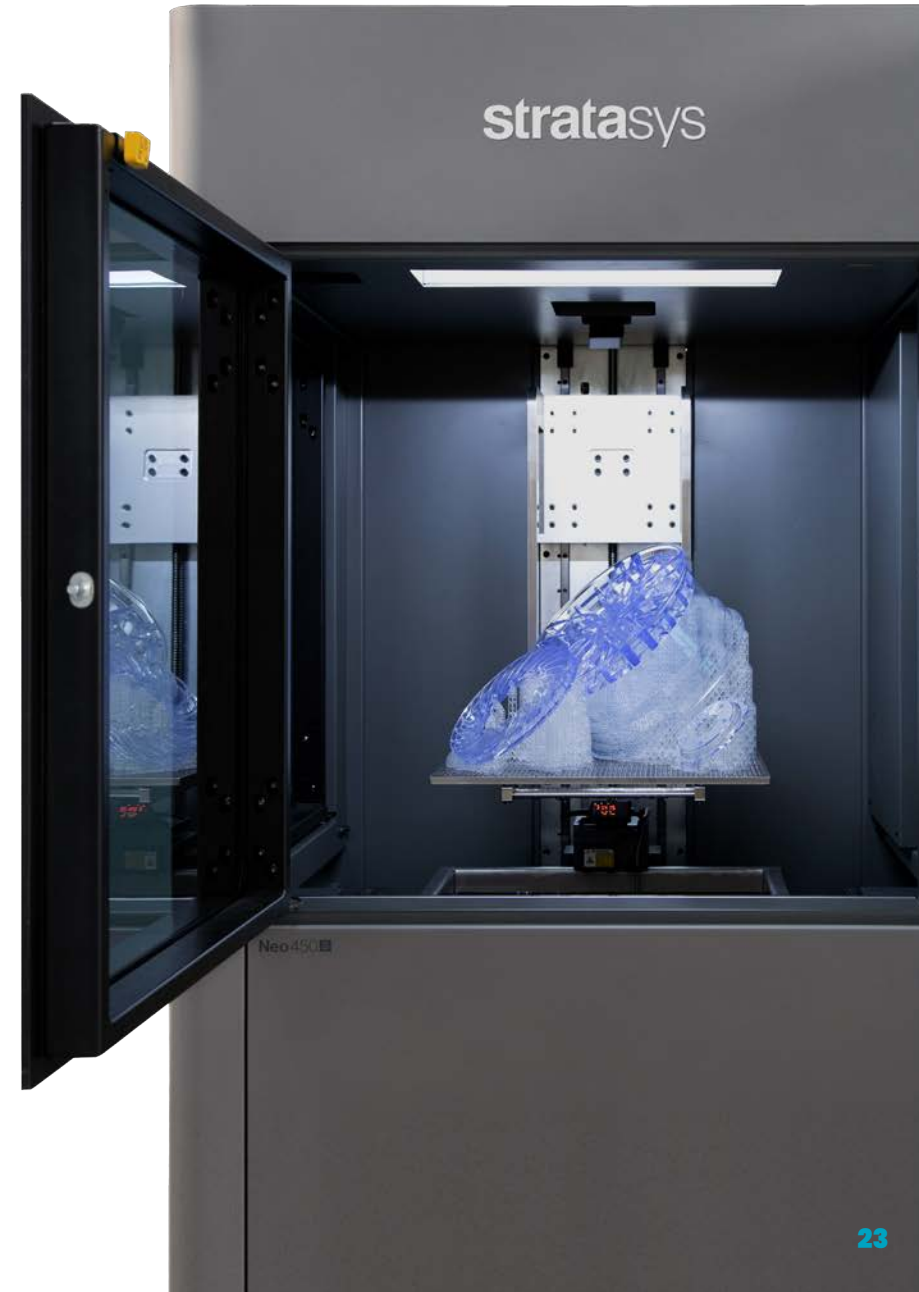
- Concept models
- Flow analysis
- Consumer products
- High definition parts

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



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



ISOTROPIC



UV STABLE



BIOPLASTIC

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



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



ISOTROPIC

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

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: ★★★★★



Omdat bij metaal 3D geprinte onderdelen soms nabehandeling vereist is, kan het productieproces niet altijd het gewenste resultaat bekomen. Hierdoor biedt SEIDO Solutions ook verschillende mogelijke nabewerkingen, zodat we een totale oplossing kunnen bekomen voor de klant: zandstralen, nafrezen, nadraaien, (schroefdraad) tappen. Contacteer ons voor inlichtingen.

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**


SEIDO Solutions werd opgericht in 2011 onder de vleugels van het hoofdkantoor SEIDO Systems. Hierbij werd SEIDO Solutions ingezet voor benchmarks, VIP service en om de productiecapaciteit voor bestaande klanten te vergroten.

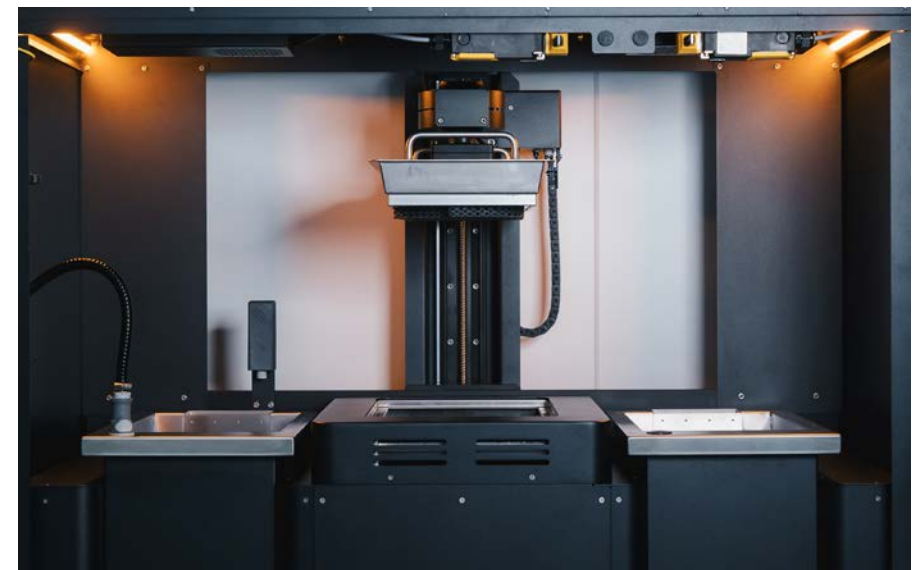
SEIDO Solutions heeft alle voorgestelde technologieën in-house. Op die manier staan we garant dat alle onderdelen confidentieel behandeld worden. Bovendien bieden we een korte levertermijn en een hoge kwaliteitscontrole, dit alles aan een correcte prijs.

Niet enkel het produceren maar ook het contact met de klant staat centraal. Wij adviseren onze klanten op diverse vlakken zoals materiaal- en technologiekeuze, productoptimalisatie, etc.

Wilt u een concreet project realiseren of wenst u vrijblijvend meer info? Neem dan contact op met ons team via één van onderstaande mogelijkheden.

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