



DEPROMA

DEVELOPMENT. PROTOTYPING. MANUFACTURING.

Your 3D Printing Partner.

Why DEPROMA?

DEPROMA is the home of 3D printing.

DEPROMA is family owned company established in 2014. Our core business is production of plastic prototypes and low-volume products, from 1 to 10.000 pcs.

Main advantages:

- high-tech industrial equipment
- wide range of materials
- postprocessing
- high quality
- flexibility



Services

RAPID PROTOTYPING

for functional, design and ergonomics check, market testing and customer's presentation



LOW-VOLUME MANUFACTURING

from 1 to 10.000 parts without mold costs



RAPID TOOLING

rapid tooling is the ultimate solution where injection-moulded parts to be manufactured quickly from selected final material



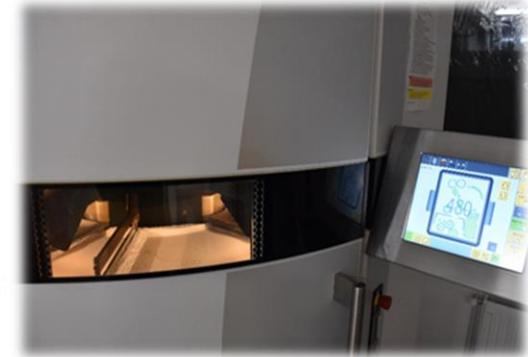
CONSULTING

we help you choose the right manufacturing technology and optimize the design of the parts to fit the selected technology

Technologies

SLS 3D Printing – Selective Laser Sintering

Selective laser sintering (SLS) enables quick, high-quality and cost-efficient manufacture of plastic parts and is an ideal solution for the manufacture of functional prototypes and for small production runs.



SLA 3D Printing – Stereolithography

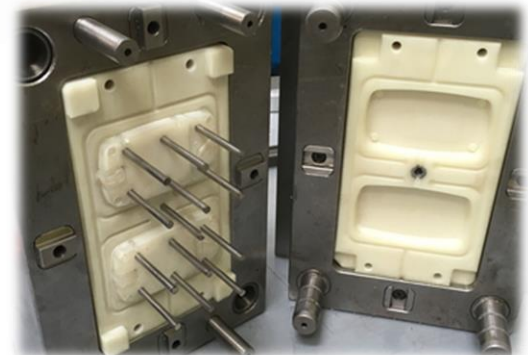
Stereolithography (SLA) is an optimal solution for prototyping that requires high accuracy and excellent surface finish.



Injection moulding

Post-processing

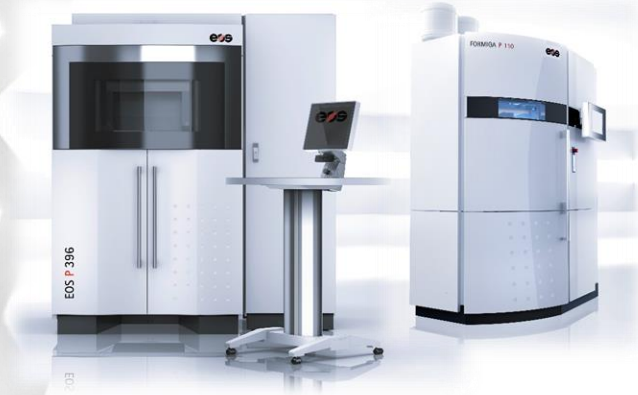
vibratory finishing, colouring, dye colouring, assembling, ...



Equipment

SLS 3D printing systems

- **EOS Formiga P110** / printing volume **200x250x330**
material **PA2200, PA3200 GF**
- **EOS P396** / printing volume **340x340x620**
material **PA2200**



SLA 3D printing systems

- **Uniontech RSPro600** / printing volume **600x600x500**
material **Somos EVOLVE 128**
- **Uniontech RSPro450** / printing volume **450x450x400**
material **Somos WATERSHED XC11122**
- **Uniontech Pilot250** / printing volume **250x250x250**
material **Somos PERFORM**



Injection molding:

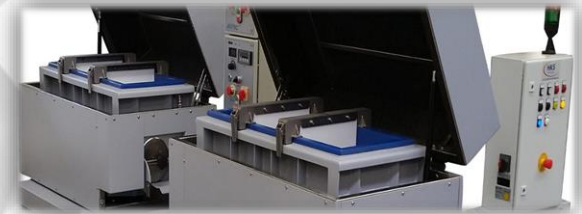
- **ENGEL e-Victory 80t**



Equipment

Postprocessing:

- **Vibratory finishing AVATEC**
working chamber: 760 x 285 x 360 mm
- **Tempering oven KAMBIC**
working chamber: 600 x 500 x 400 mm
- **Dye colouring system for black colour**
- **Painting chamber**



Software:

- CAD: **PTC Creo**
- 3D printing software: **Materialise Magics, Materialise e-Stage, Netfabb Professional**



Materials

SLS / PA2200

for fully functional prototypes and small serial end-use products

- high mechanical and thermal resistance
- parts have excellent long-term stability and are resistant against most chemicals
- material is biocompatible and approved for food contact

Tensile strength [N/mm ²]	Tensile modulus [N/mm ²]	Elongation at break [%]	Hardness
45	1.700	20	75 ShD
HDT @ 0,45MPa [°C]	HDT @ 1,80MPa [°C]	Density [g/cm ³]	Colour
145	90	0,96	White

SLS / PA3200 GF

for functional prototypes and end-use products with higher thermal loads

- excellent stiffness, high density and tensile strength, combined with low specific weight
- for demanding conditions where stiffness, temperature performance or wear resistance is important

Tensile strength [N/mm ²]	Tensile modulus [N/mm ²]	Elongation at break [%]	Hardness
52	3.200	9	80 ShD
HDT @ 0,45MPa [°C]	HDT @ 1,80MPa [°C]	Density [g/cm ³]	Colour
157	96	1,22	Light grey

SLS / Rubber-like

for prototypes

- elasticity and toughness
- good chemical resistance
- long-term stability

Hardness	Elongation at break [%]	Density [g/cm ³]
50-80 ShA	50-200	0,95

SLS / PA2200 Black

for small serial end-use products

- PA2200 parts dye coloured with black
- back colour is chemically linked with original material
- there is no additional layer of the colour on the parts
- colour is abrasion and scratch resistant

For mechanical and thermal properties see SLS/PA2200 material.



Materials

SLA / EVOLVE

for prototypes and small serial end-use products

- Evolve combines great mechanical properties, high-quality surface and easy finishing
- high accuracy and water-resistance
- parts look is practically indistinguishable from injection-moulded parts

Tensile strength [N/mm ²]	Tensile modulus [N/mm ²]	Elongation at break [%]	Hardness
57	2.964	11	82 ShD
HDT @ 0,45MPa [°C]	HDT @ 1,80MPa [°C]	Density [g/cm ³]	Colour
52	50	1,12	cream-white

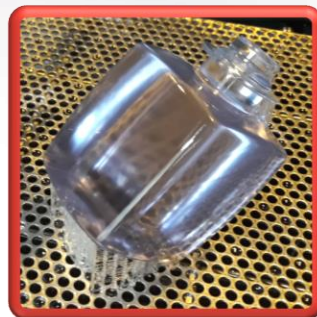


SLA / WATERSHED

transparent parts for prototypes, small serial end-use products and investment casting.

- transparent parts with superior clarity
- good mechanical properties
- water-resistance
- high-quality surface and easy finishing

Tensile strength [N/mm ²]	Tensile modulus [N/mm ²]	Elongation at break [%]	Hardness
50	2.770	15,5	86 ShD
HDT @ 0,45MPa [°C]	HDT @ 1,80MPa [°C]	Density [g/cm ³]	Colour
50	49	1,12	Transparent



SLA / PERFORM

used in applications exposed to high temperatures and for highly detailed parts material is also suitable for tool inserts for injection moulding

- superior temperature stability
- outstanding detail resolution and excellent surface quality
- easy finishing
- the heat tolerance of parts can be further improved through additional tempering (PERFORM TH)
- the properties of tempered parts resemble those made from termoset

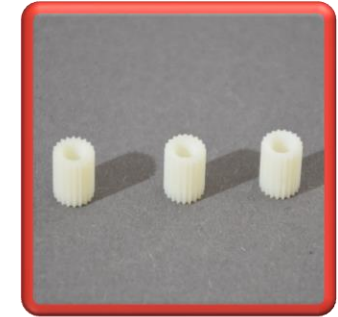
SLA / PERFORM

Tensile strength [N/mm ²]	Tensile modulus [N/mm ²]	Elongation at break [%]	Hardness
68	10.500	1,1	94 ShD
HDT @ 0,45MPa [°C]	HDT @ 1,80MPa [°C]	Density [g/cm ³]	Colour
132	82	1,61	cream-white



SLA / PERFORM TH (tempered)

Tensile strength [N/mm ²]	Tensile modulus [N/mm ²]	Elongation at break [%]	Hardness
80	9.800	1,2	93 ShD
HDT @ 0,45MPa [°C]	HDT @ 1,80MPa [°C]	Density [g/cm ³]	Colour
268	119	1,61	cream-white





DEPROMA d.o.o.
Srednja Bela 10, SI-4205 Preddvor, Slovenia

T: +386-40-297-755
E: info@deproma.si
W: www.deproma.si