



Technology offer:

3D PRINTING FOR HIGH FIDELITY PROTOTYPING

Field of use: 3D printing, prototyping, pre-manufacturing design

Current state of technology: on the market

Provided by:

HICUP Lab - Humans Interacting with Computers at University of Primorska Laboratory

Contact details:

klen.copic@famnit.upr.si

University of Primorska

Centre for Development and

Technology Transfer

www.crpz.upr.si

Phone: +386 5 663 77 87

E-mail: karen.gladovic@upr.si

The technology offer enables rapid prototyping of objects to be manufactured by means of 3D printers and other prototyping tools. The technology is suitable for firms and customers that require industrial grade 3D printing services for prototypes and the manufacturing of small quantities of final products. Based on PolyJet technology, printing on more than 1000 different materials is available.

Background

3D printing technology is one of the major technological innovations in the last few decades. This technology is transforming design and manufacturing industry by shortening the product development cycles and enabling flexible and fast manufacturing of small quantities.

Technology & Equipment

The HICUP laboratory, which is based at the Faculty of Mathematics, Natural Sciences and Information Technologies, University of Primorska, provides the latest equipment along with all necessary services for rapid, high fidelity prototyping and small quantity manufacturing. The laboratory is equipped with high end tools for prototyping. The following set of equipment is available:

- FDM 3D printers such as Stratasys F170 (high-quality industry grade FDM printer with heated chamber);
- PolyJet 3D printer Stratasys Object 260 CONNEX 3 (prints with liquid, supports 1000 different materials, offers high precision printing with smooth surfaces, can print parts/assemblies with multiple materials);
- Laser cutter/engraver Trotec speedy 400.

The laboratory employs highly specialized staff and trained experts who are able to provide consultancy in the domain of 3D printing, prototyping and product development upon request.

Main Advantages

- 3D printing: in colour, hydrophobic plastic, with smooth surface finish, transparent materials;
- choose either from the standard set of FDM materials or from 1000 PolyJet materials;
- Mix multiple materials in one print job.



EVROPSKA UNIJA
EVROPSKI SKLAD



REPUBLIKA SLOVENIJA
MINISTRSTVO ZA IZOBRAŽEVANJE,
ZNANOST IN ŠPORT

Operacijo delno financira Evropska unija iz Evropskega sklada za regionalni razvoj ter Ministrstvo za izobraževanje, znanost in šport, Republika Slovenija. Operacija se izvaja v okviru Operativnega programa za izvajanje evropske kohezijske politike v obdobju 2014-2020, prednostne osi 1 Krepitev raziskav, tehnološkega razvoja in inovacij.

V partnerstvu:

Univerza v Ljubljani



KEMISKI INŠTITUT



FIS



Institut
"Jozef Stefan"



Konjaki inštitut Slovenije



NIST



Univerza v Primorskem



Fakulteta za matematiko, naravne vede in informacijske tehnologije

