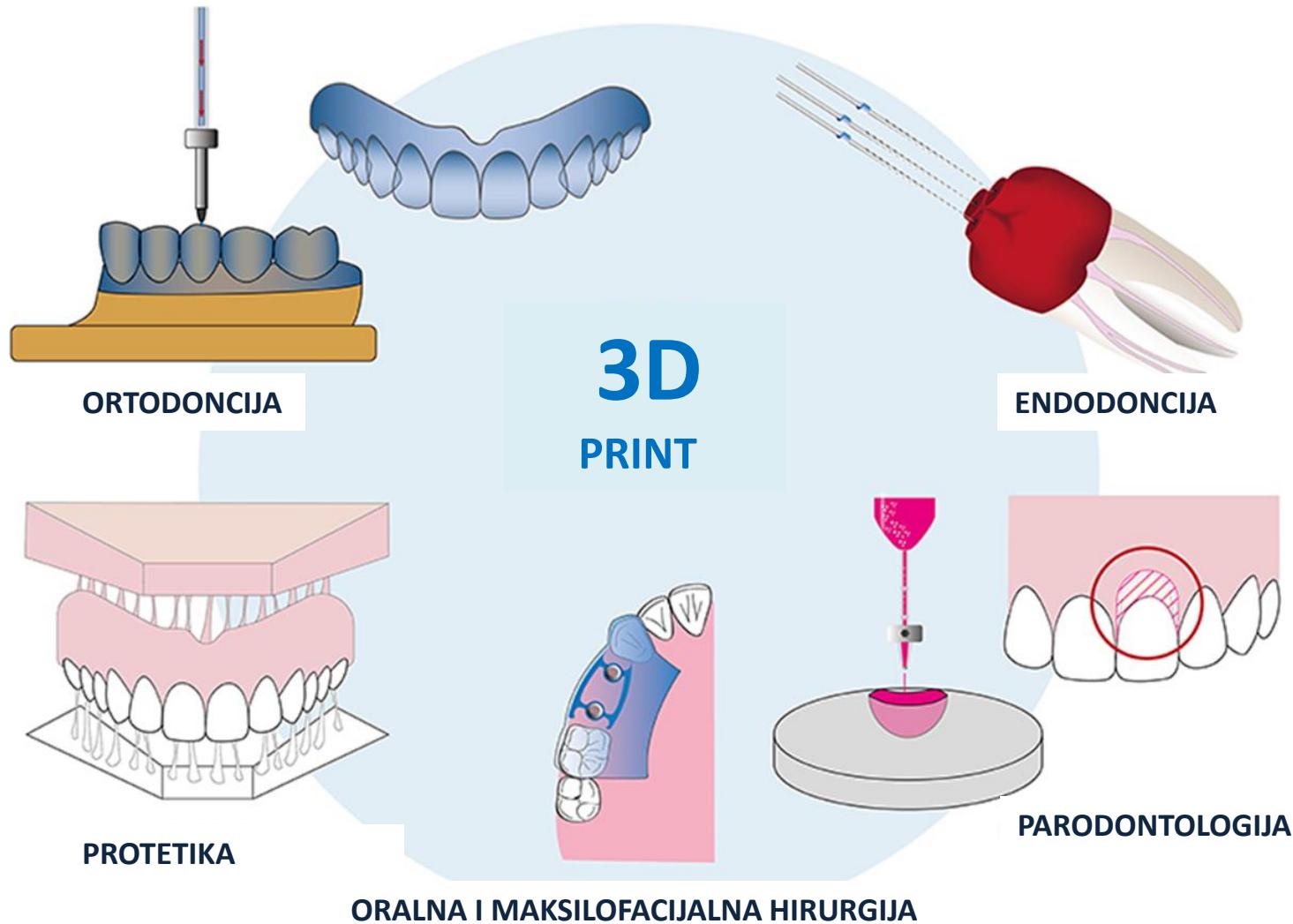




3D MODELOVANJE U STOMATOLOGIJI: ŠTA SE MOŽE IZRADITI PRIMJENOM 3D PRINTERA?

DOC. DR IRENA MLADENOVIĆ

PRIMJENA 3D PRINTERA U STOMATOLOGIJI

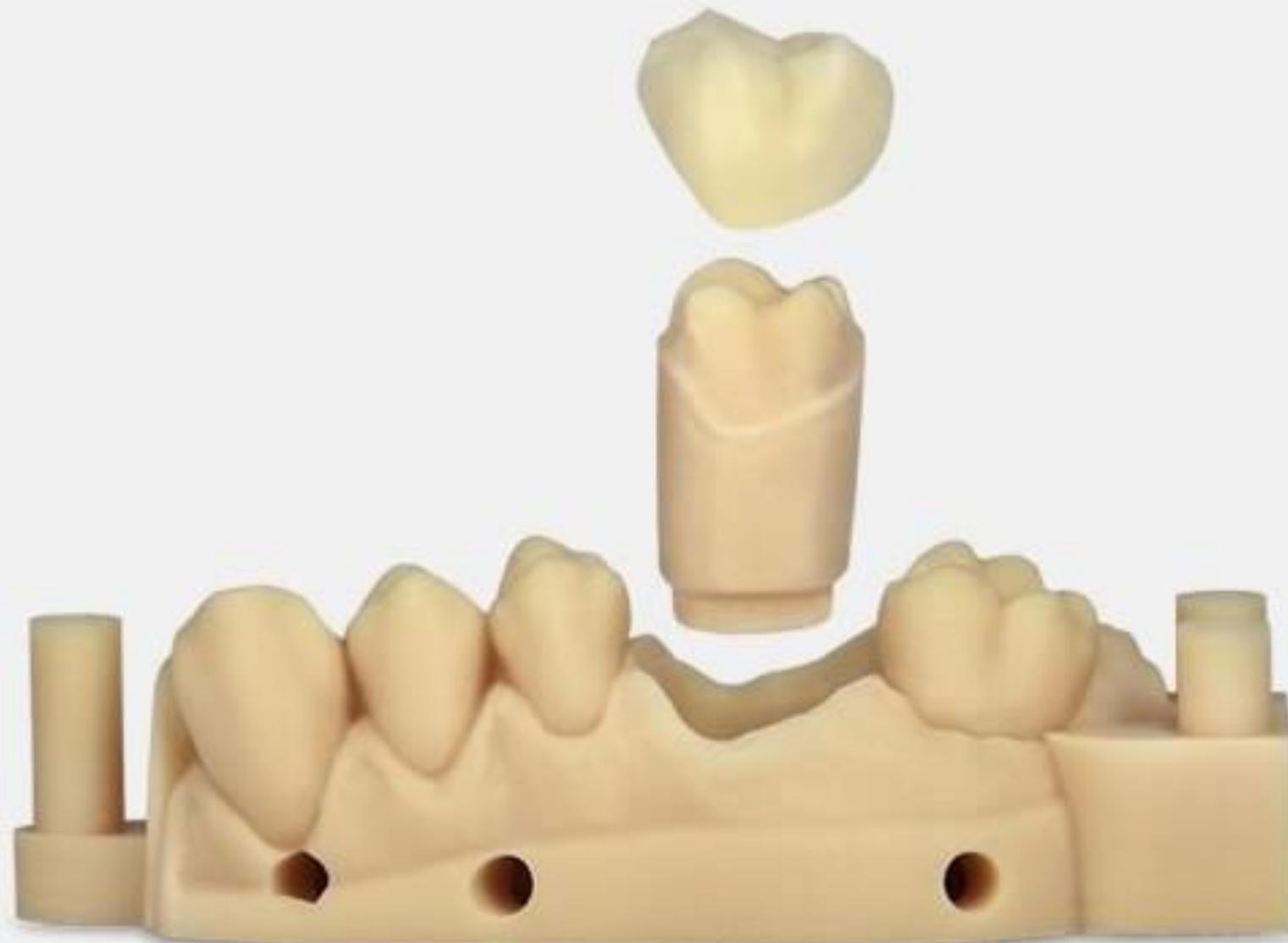




Modeli vilica



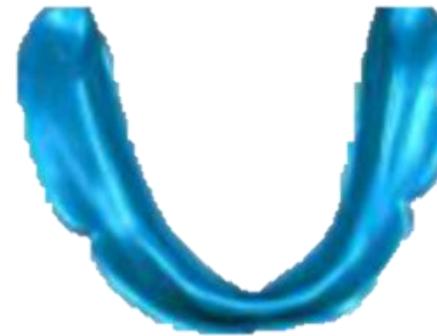
Modeli sa pokretnim radnim patrljjcima



Individualne kašike



Izrada individualnih kašika



Totalna proteza



Izrada totalne proteze



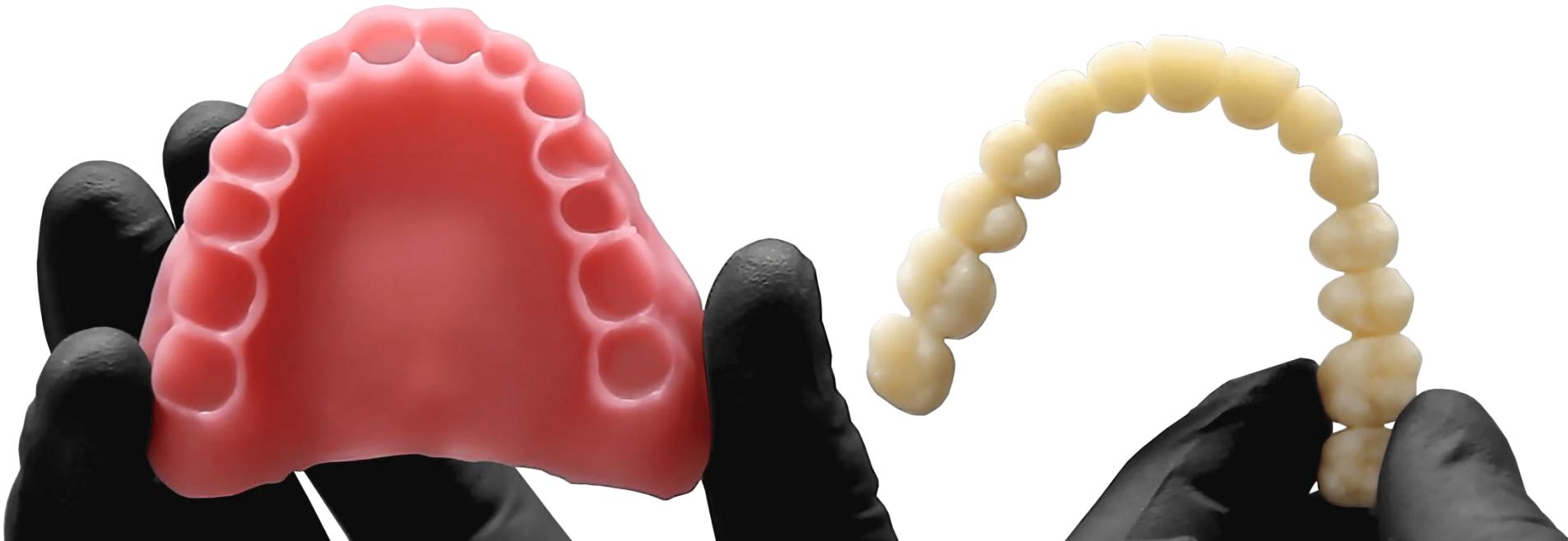
Certification: FDA , CE m

Model Number: FDA-cleared resin

- Otporna na pucanje
- Otporna na vlagu

Lasersko 3D printanje - smola

Izrada totalne proteze



- Odvojeno baza i zubi koji se naknadno vezuju
- Jednokomadno- model proteze za probu

Metalna baza za skeletiranu protezu



Izrada metalne baze SP



Certification: FDA , CE

Model Number: X-Co-Cr Powder

Lasersko 3D printanje -metalni prah

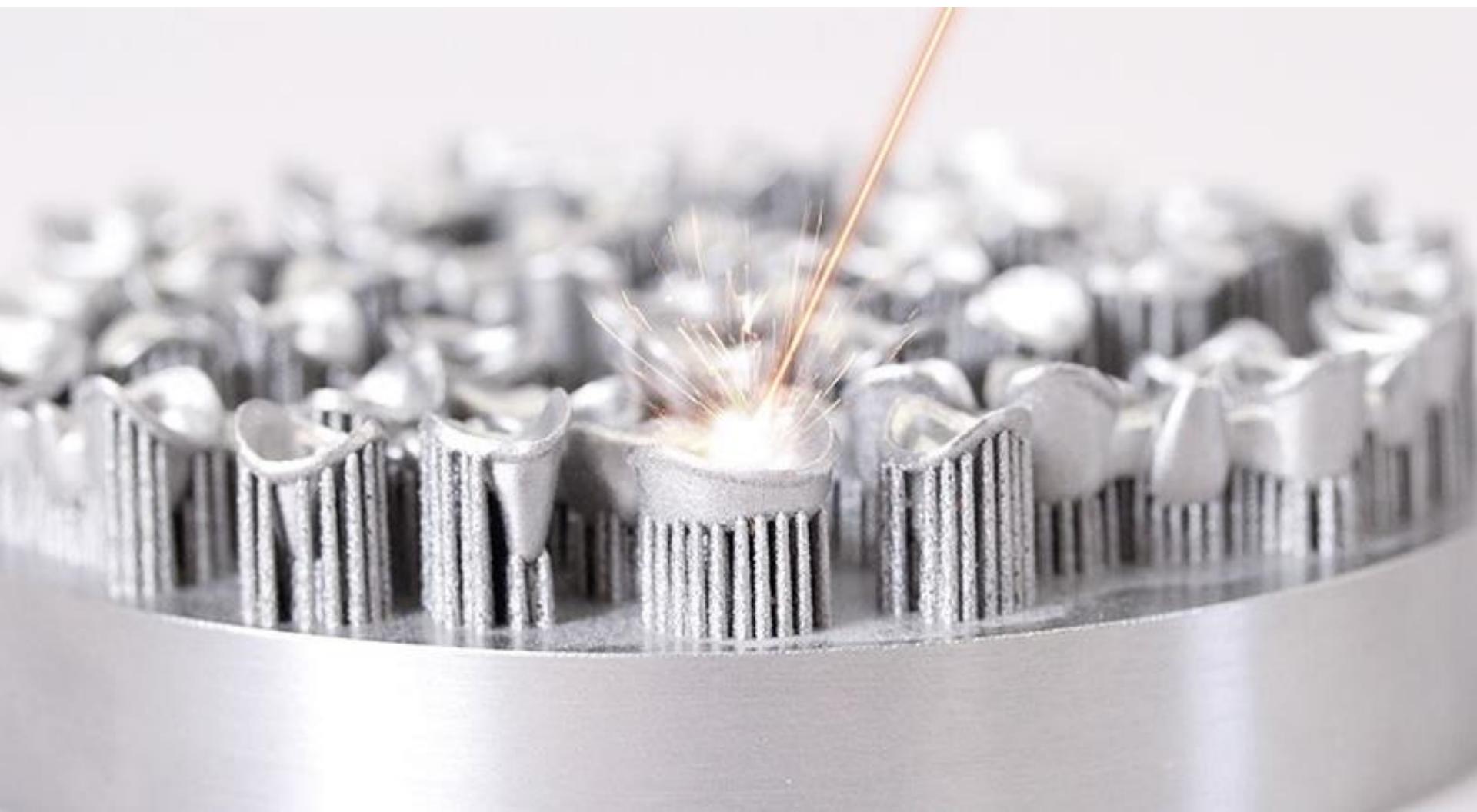
Model metalne baze SP



Metal za fiksne nadoknade



Izrada metala fiksnih nadoknadaa



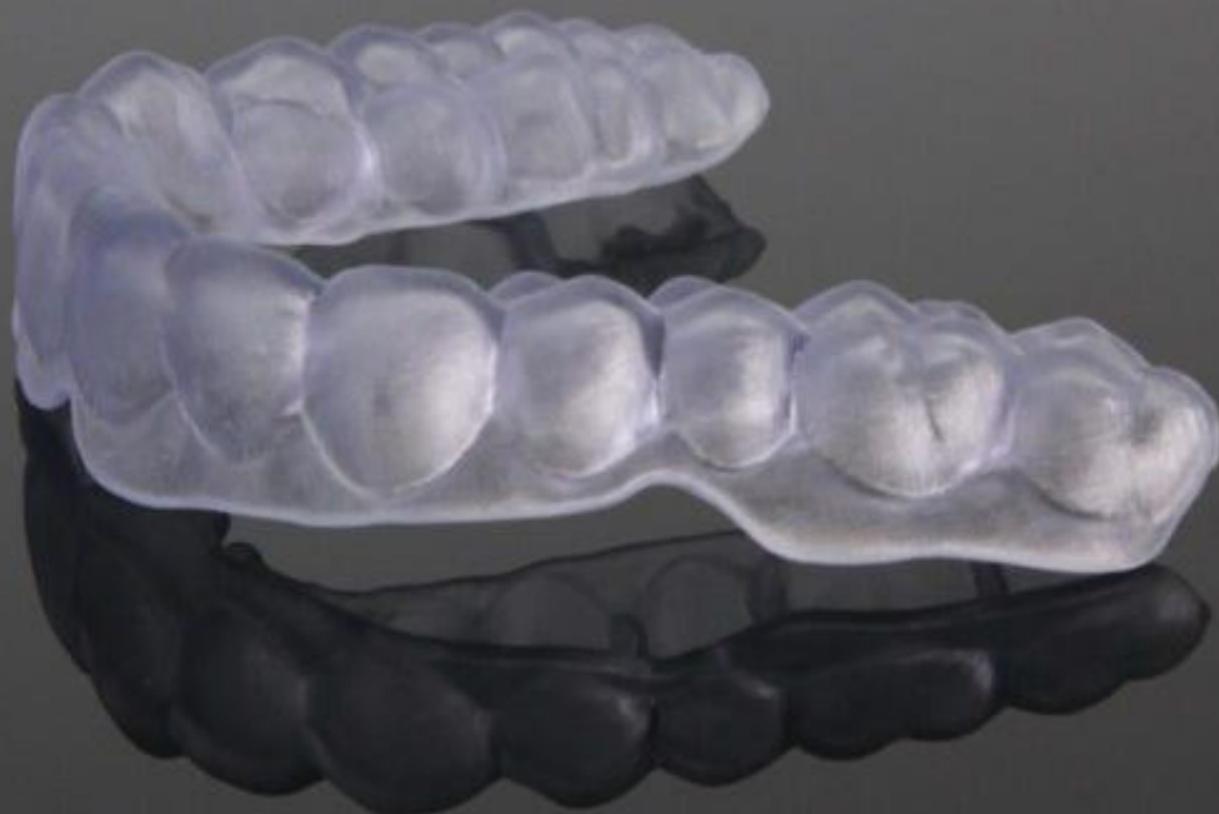
Model krunica/kapica



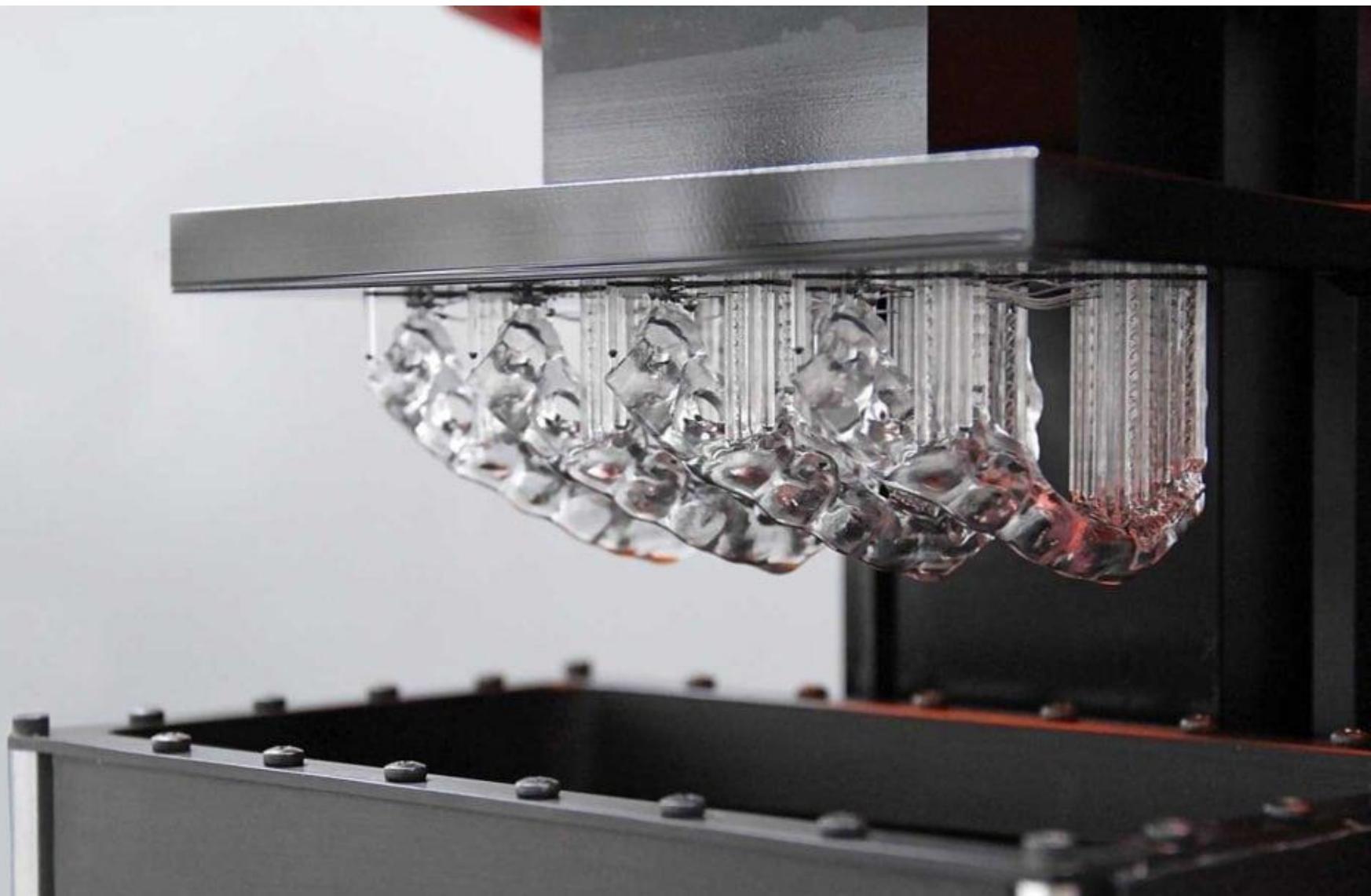
Okluzalni splint, retiner i aligner



Folije



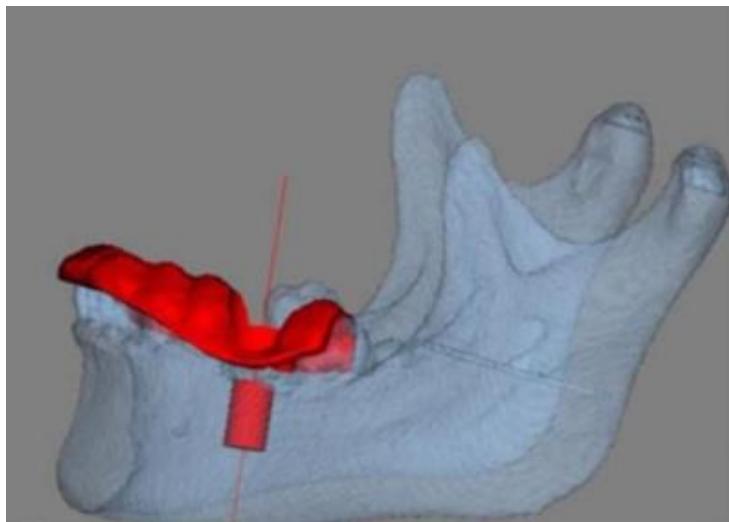
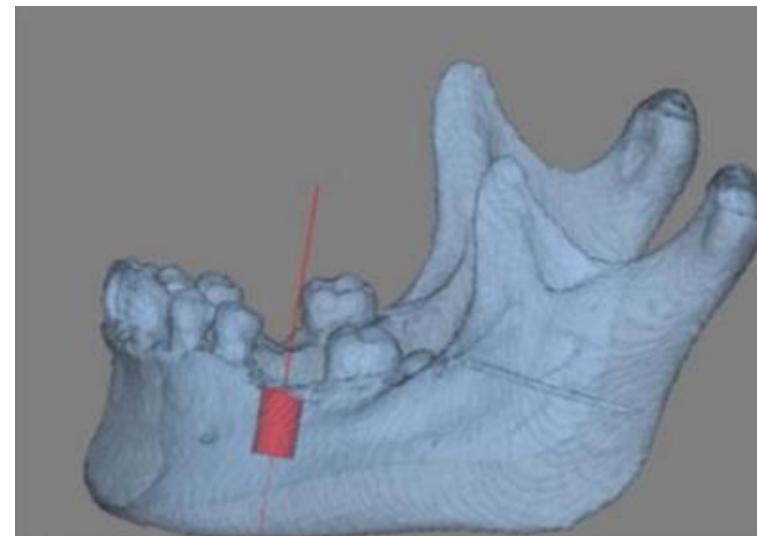
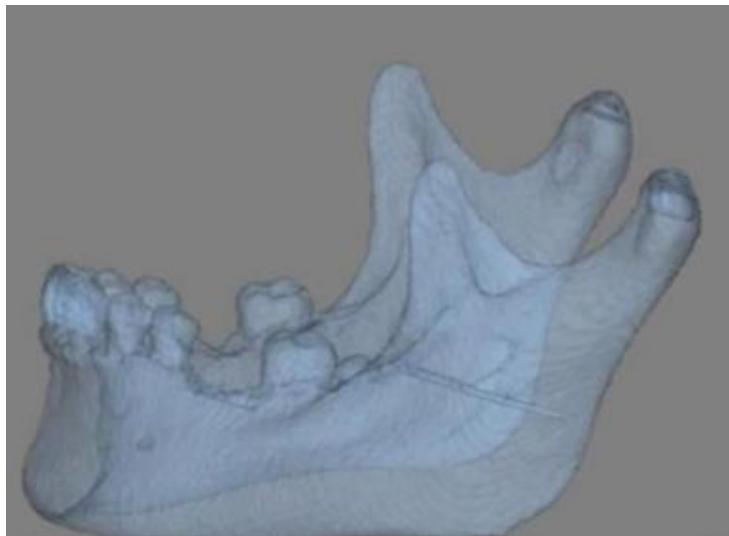
Izrada splintova, retinera, alignera i folija



Hirurški vodiči



Izrada hirurških vodiča



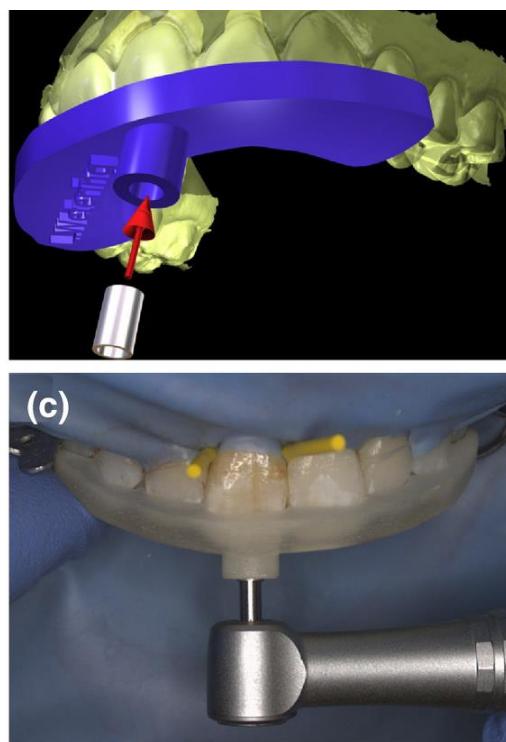
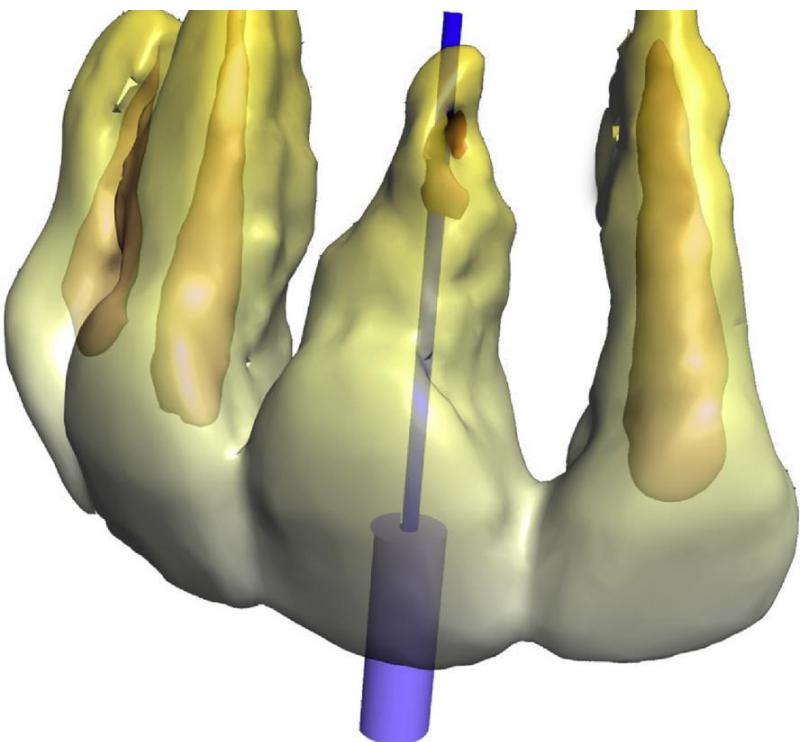
Gingiva formeri



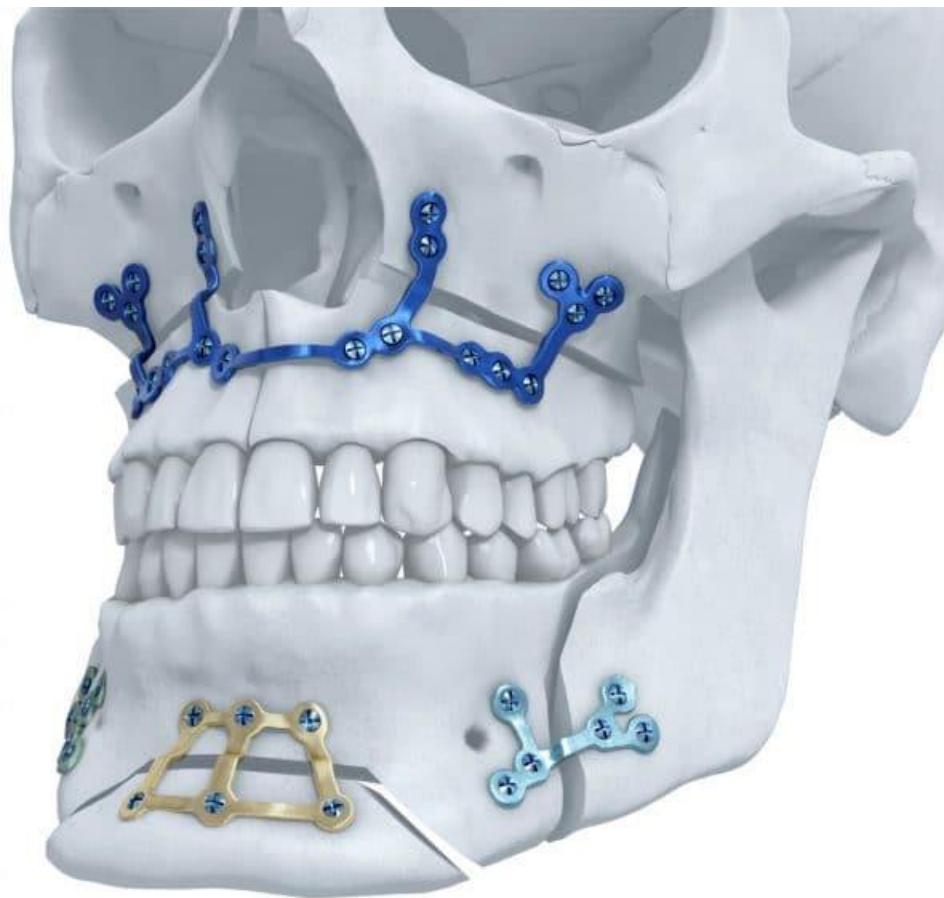
Endodontski vodiči



Izrada endodontskih vodiča



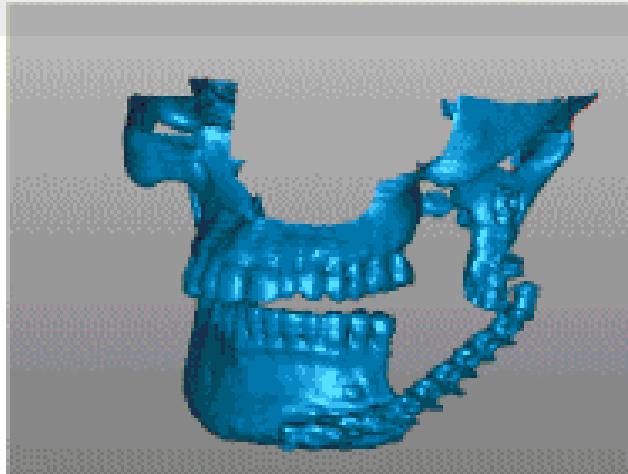
Fiksacione pločice





Fiksacione pločice i vodiči - resekcije

Način izrade fiksacionih pločica



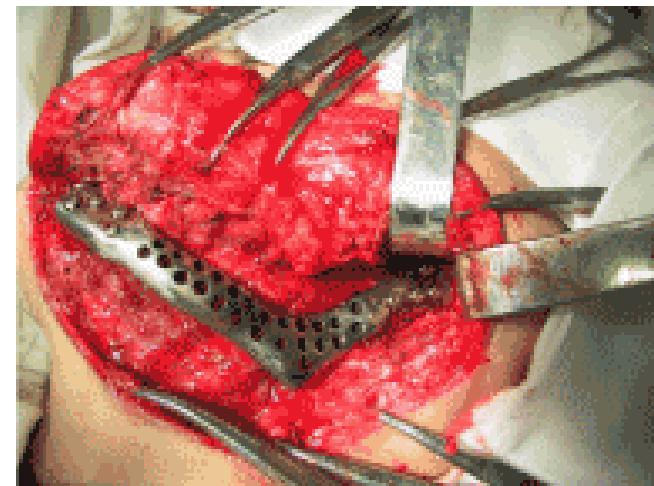
a) 3D image of the patient skull showing the plate failure



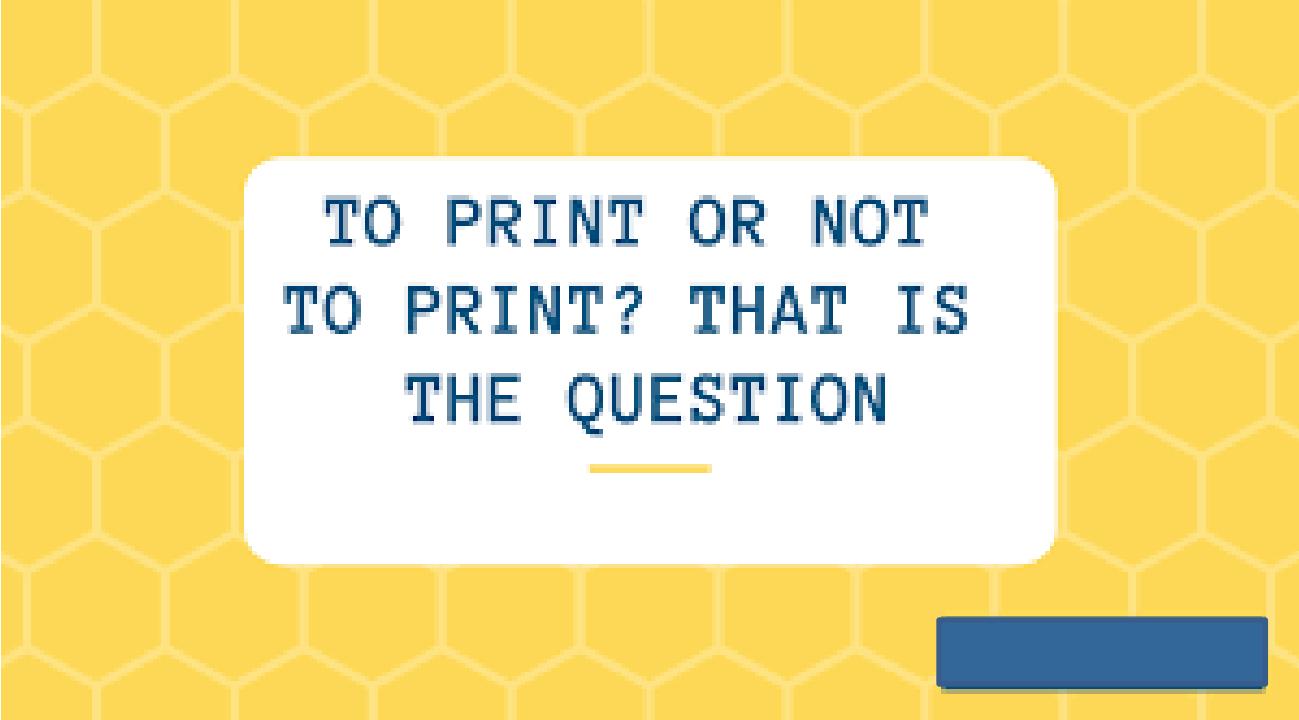
b) SLA prosthesis model



c) Customized titanium prosthesis



d) Placing the prosthesis during the



TO PRINT OR NOT
TO PRINT? THAT IS
THE QUESTION





Preciznost nadoknade

Preciznost nalijeganja-digitalni način izrade

Faza u izradi	Klasična	Digitalna
1. Otiskivanje	± 0	Digitalni otisak
2. Izlivanje modela	± 0	Digitalni model
3. Modelacija u vosku	± 0	Digitalni model nadoknade
4. Ulaganje	+1.5%	—
5. Livenje	-1.5%	Digitalna izrada
6. Obrada	± 0	=
7. Cementiranje	± 0	=

Preciznost nadoknade

3D print

VS.

Frezovanje



Efektivnost rada-brzina izrade



Manji broj posjeta

