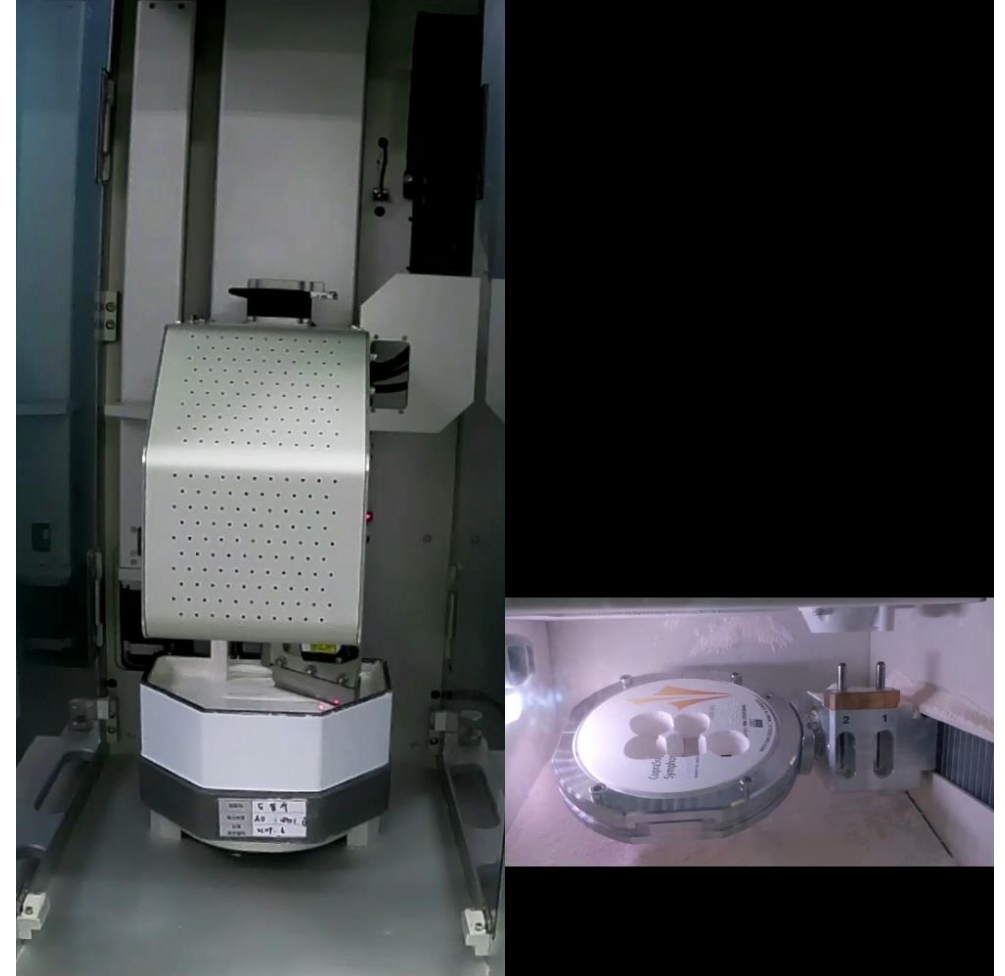


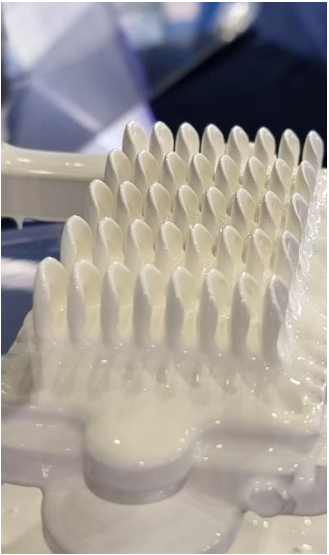


APPLICATIONS ZIPRO & INNI-CERA

How different DLP 3D printing is from Milling?

- ***No maintenance costs for consumables***
- ***No limitation for any angles and sides***
- ***High accuracy and fitness***
- ***Low production cost***
- ***No dust, no noise***



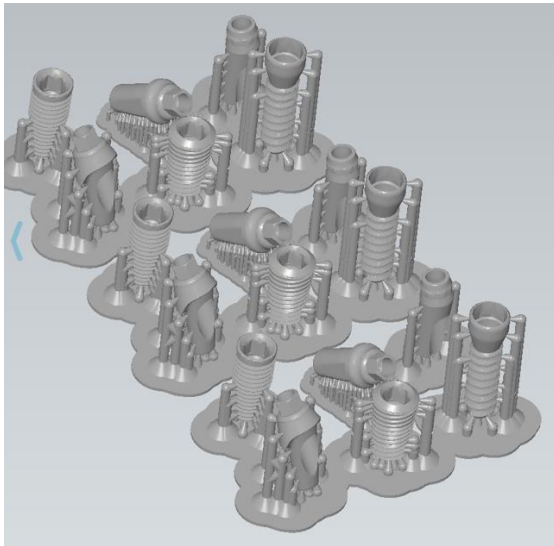


- *40 veneers at a time taking 3H and 30min*
- *1kg liquid Zirconia prints 350 veneers, production cost at U\$1 in assuming retail price of U\$350*
- *Debinding & sintering time is 9H and flexural strength is 1000MPa*
- *Minimum thickness of veneers printable is 0.2mm and recommendable thickness is 0.4mm*
- *Panavia V5 produced by Noritake is recommendable for cementation*



- *12 ~ 20 single crowns printable at a time taking 3H and 30 min more or less*
- *1kg liquid Zirconia prints 180 single crowns, production cost at U\$1.9 in assuming retail price of U\$350*
- *Debinding & sintering time is 15~23H and flexural strength is 1000MPa*
- *Pontic in multi-unit or bridge or implant crowns is recommendable to have hollow inside in the design file for quick and safe sintering*





- 15~20 customized implant fixtures & abutments printable at a time taking 3H and 30 min more or less
- 1kg liquid Zirconia prints 200 implant fixtures & abutments depending on the size, production cost at U\$1.75 in assuming retail price of U\$350
- Debinding & sintering time is 15~23H and flexural strength is 1000MPa
- Design skill is critical to keep the thickness below 5mm and to make inner circle of fixture and outer circle of abutment fit to each other



- 25~ 27 customized Zirconia ortho brackets printable at a time taking 3H more or less
- 1kg liquid Zirconia prints 270 ortho brackets, production cost at U\$1.3 in assuming retail price of U\$350
- Debinding & sintering time is 9~11H and flexural strength is 1000MPa
- Ubracket software by DeltaFace is recommendable for designing of brackets
- Customized Zirconia brackets appears higher toughness over 6ksi than other ceramic brackets





- 3~ 6 customized dental membrane(scaffold) printable at a time taking 3H more or less
- 1kg liquid Zirconia prints 200 scaffolds, production cost at U\$1.75 in assuming retail price of U\$350
- Debinding & sintering time is 9~11H and flexural strength is 1000MPa
- The membrane should be polished for removal of membrane

