

NobelProcera™ Crown and Bridge Titanium

FACT SHEET VERSION 1.1

Overview

- Biocompatible high strength cement-retained solutions on teeth and implants
- A new marginal contact surface design resulting in an improved retention of fit
- Light in weight
- Cost effective
- Radiotranslucent
- Conventional or temporary cementation
- High quality industrial production process using 5-axis milling on a solid monobloc of titanium



Material characteristics

Alloy type:	Biocompatible Titanium according to ASTM F136
CTE (25–500°C):	CTE 10.16
Melting point:	1640°C
Composition:	Titanium-6Aluminum-4Vanadium (Ti6Al4V). Nitrogen ≤ 0.05%, Carbon ≤ 0.08%, Hydrogen ≤ 0.015%, Iron ≤ 0.30%, Oxygen ≤ 0.25%, Aluminum ≤ 6.50%, Vanadium ≤ 4.50%. Titanium = balance.
Tensile strength:	860 MPa
Yield strength:	795 MPa
Elongation:	10%

Veneering

- All commercially available veneering materials designed for use with titanium with a CTE of 10.16 can be used
- A veneering material option is VITA Titankeramik, who recommend sandblasting prior to veneering, 130 micrometer, normal cooling

Additional veneering material recommendations and supporting guidelines are available.

Additional information

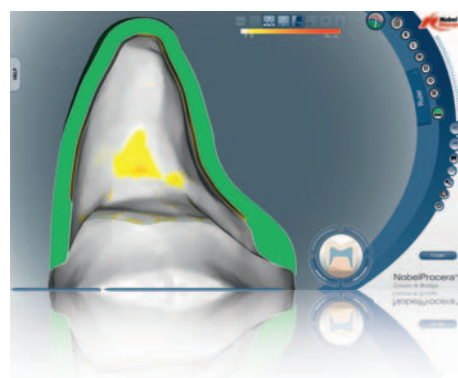
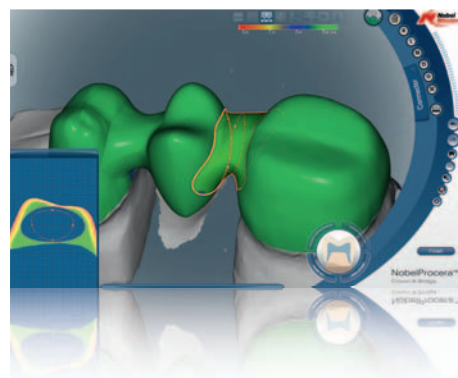
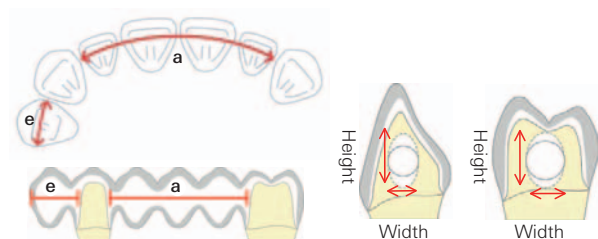
NobelProcera Crown and Bridge Titanium solutions are milled from a solid monobloc of alloyed Titanium (Ti6Al4V), which is more applicable for bridges with small connectors. This differs from NobelProcera Implant Bridges which are milled from Grade 2 Titanium.

Indications

- Crowns and bridges up to 14-units
- Minimum thickness 0.4 mm
- Any position in the mouth
- The connector dimension of a multi-unit framework depends on the distance between the supporting teeth (see table below)
- Design is supported by realtime feedback through warning function in the NobelProcera Software
- A modifiable contact surface area to be implemented for long span bridges and short preparations*

*Planned to be launched Q1 2010

Type – any position	Maximum length a=Arc length [mm] e=Extension length [mm]	Minimum connector and cross section height x width [mm] / area [mm²]
Free hanging arc	a ≤ 21.0	3.0 × 2.5 / 6.0
Free hanging arc	21.0 < a ≤ 35.0	4.0 × 3.0 / 9.4
Extension	e ≤ 10.0	4.0 × 3.0 / 9.4



Contraindications

- Cases with lengths that exceed the maximum limits
- Bridges must be designed to fit into a block of 80 mm × 80 mm × 30 mm (length × width × height)

NobelProcera – guaranteed and certified quality

NobelProcera products on teeth and implants are guaranteed for five years; the NobelProcera Product Warranty only covers the NobelProcera products and does not include any additional costs. NobelProcera also provides certificates of material authenticity.

