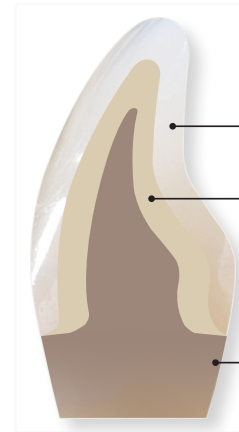


Manuale di consultazione rapida

per lo studio odontoiatrico

Linee guida per l'utilizzo del materiale BioHPP

- Preparazione & presa dell'impronta
- Sterilizzazione, condizionamento & cementazione
- Igiene orale professionale in studio
- Disinfezione in laboratorio
- Igiene orale domiciliare del paziente



visio.lign®
Il sistema per un rivestimento
estetico naturale e funzionale

BioHPP

Dente naturale
monconizzato/
Impianto

Quick Reference Card

for dental practice

bredent
group

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Mistake and subject
to change reserved
20170309

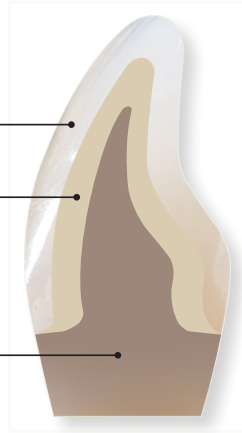
Legenda

visio.lign®

Il sistema per un rivestimento estetico naturale e funzionale

BioHPP

Dente naturale
monconizzato
/Impianto



Preparazione & presa dell'impronta

Sterilizzazione, condizionamento & cementazione

Igiene professionale in studio

Disinfezione in laboratorio

Igiene orale domiciliare del paziente



Nello studio odontoiatrico



In laboratorio



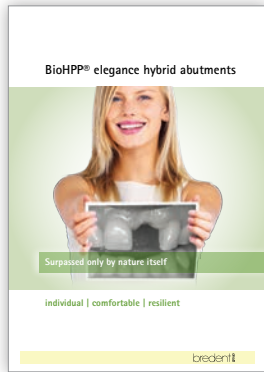
A casa del paziente

Ottimamente indicato	Indicato	Possibile	Non indicato
✓✓	✓	○	✗

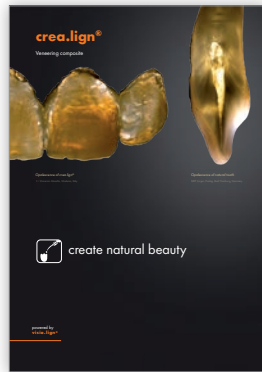
Other literature that may be of interest to you



REF 000 547 GB



REF 000 534 GB



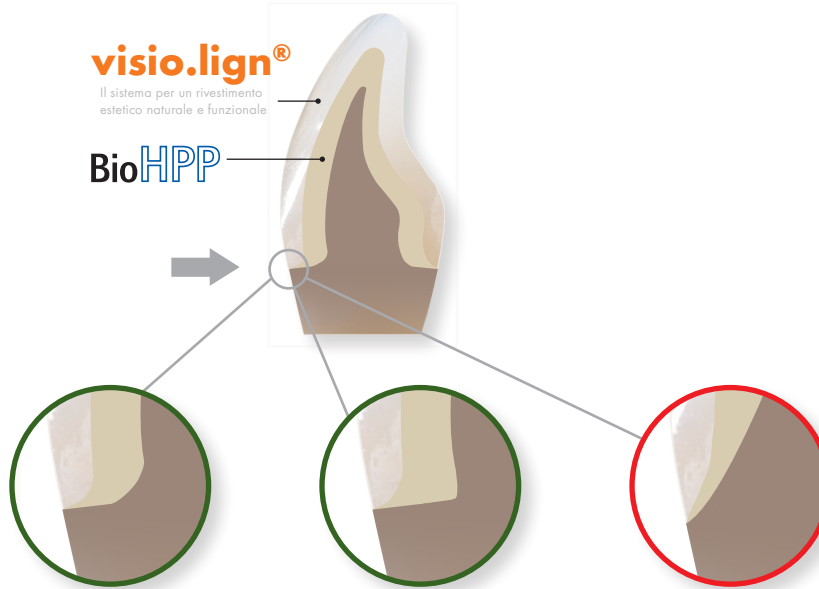
REF 000 577 GB



REF 000 651 GB

Other literature that may be of interest to you

Preparazione



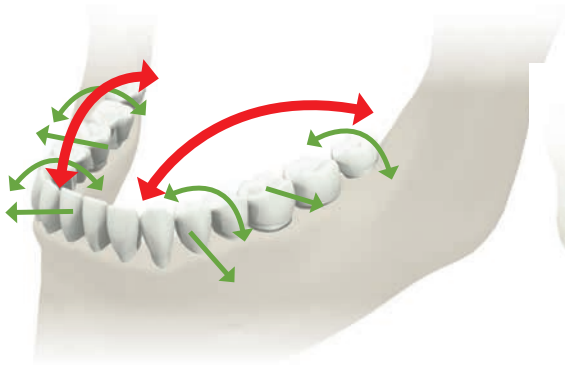
	Preparazione a spalla	Preparazione a chamfer	Preparazione a lama
BioHPP	✓	✓	✗
HIPC	✓	✓	✗



Preparazione

The physiological solution

A restoration with BioHPP significantly reduces the chewing force peaks in both the vertical and the lateral direction of chewing movement. This cushioning property is both comfortable and natural for the patient and prolongs the life of the restoration.



Natural tooth.

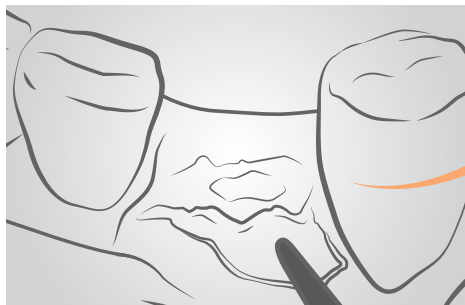


A restoration with BioHPP alleviates the loading caused by natural and prosthetic-related forces on the implant.



Rigid materials prevent natural movement and transfer the force to the implants and the jaw bones.

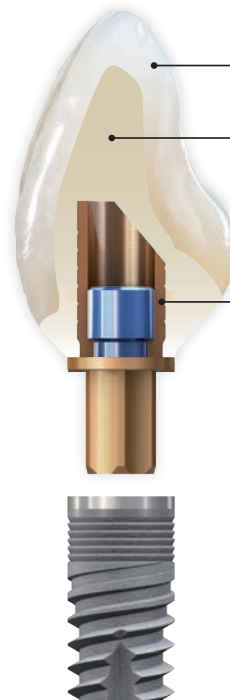
Quando è possibile la preparazione intraorale? _____



Con lembo: preparazione extraorale degli abutment



Senza lembo: è possibile la preparazione intraorale degli abutment



visio.lign®

Il sistema per un rivestimento estetico naturale e funzionale

BioHPP

Dente naturale monconizzato/ Impianto



Quando è possibile la preparazione intraorale?

Chipping Repair Kit

Chips can be restored easily and quickly



Chipping frequent in the case of ceramic veneers



Following repair with crea.lign® composite



Chipping Repair Kit

Primer works together with all prosthetic materials

crea.lign® incisal materials and dentine (in A2 and A3 for covering in 80% of cases)

100 treatments in one Chipping Repair Kit

No hydrofluoric acid necessary

Strumenti

per la preparazione dell'abutment BioHPP elegance

Intraorale:



Frese taglio Q
della ditta Komet:
H375RQ.314.016
H379Q.314.018

Utilizzare
con irrigazione
(minimo
50 ml/min)
20.000 rpm

Extraorale:



Set di frese per
la rifinitura di
BioHPP® 7 pz

REF 33000831



Utilizzare un analogo da laboratorio. Le coulisse orizzontali aiutano a migliorare la ritenzione meccanica per la cementazione.



Strumenti

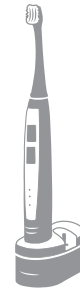
per la preparazione
dell'abutment BioHPP elegance

Cleaning at the patient's home

Fixed and removable restoration

Removable dental prosthesis

(e.g. secondary telescope prosthesis, bar-based prosthesis)



	Vibration cleaning baths	Soft toothbrushes	Medium toothbrushes	Firm toothbrushes	Electric toothbrushes	Ultrasonic toothbrushes	Cleaning rods
BioHPP	✓✓	✓✓	✓	✗	✓	✗	✓
HIPC/ novo.lign/ neo.lign	✓✓	✓✓	✓	✗	✓	✗	✓
crea.lign	✓✓	✓✓	✓	✗	✓	✗	✓



Cleaning

fixed and removable restoration

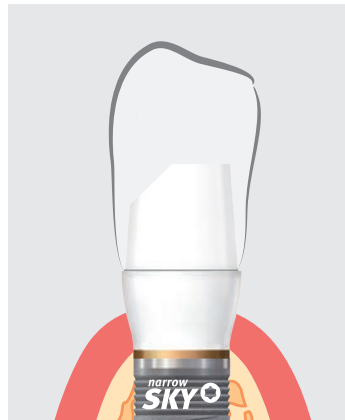
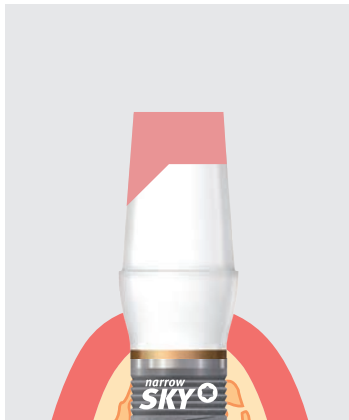
Removable dental prosthesis · (e.g. secondary telescope prosthesis, bar-based prosthesis)

Protesi provvisoria

Abutment BioHPP elegance

Nella protesi provvisoria si riduce solamente l'altezza dell'abutment e s'individualizza il profilo d'emergenza.

Nella riabilitazione definitiva, a seconda della risposta dei tessuti, il profilo d'emergenza può essere riparato.



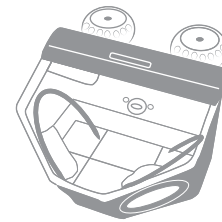
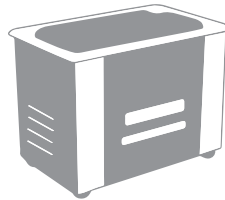
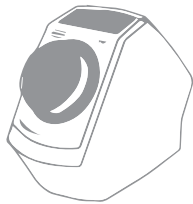
Protesi
provvisoria

Abutment BioHPP elegance

Cleaning in the laboratory

temporary

Removable dental prosthesis · (e.g. secondary telescope prosthesis, bar-based prosthesis)



	Needle cleaning unit (e.g. Sympro and Symprofluid)	Ultrasonic cleaning baths	Fine sandblasting unit (grain size: 50 µm)
BioHPP	✓✓	✓✓	○ (Polishing required)
HIPC/ novo.lign/ neo.lign	✓✓	✓✓	○ (Polishing required)
crea.lign	✓✓	✓✓	○ (Polishing required)



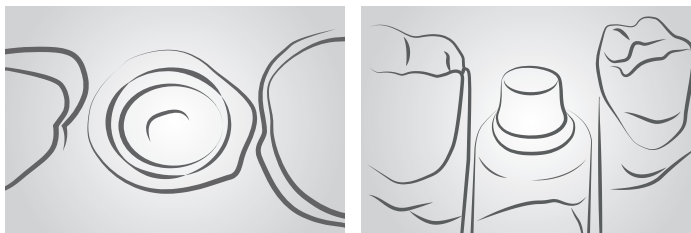
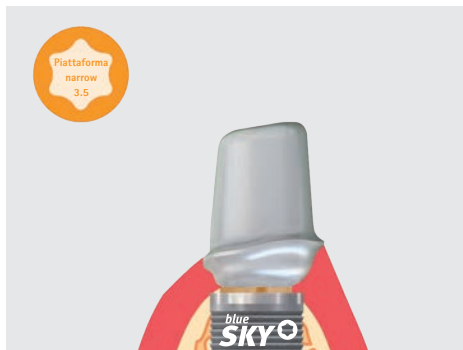
Cleaning in
the laboratory

temporary

Removable dental
prosthesis · (e.g. secondary
telescope prosthesis,
bar-based prosthesis)

Presca dell'impronta

per protesi provvisorie e definitive



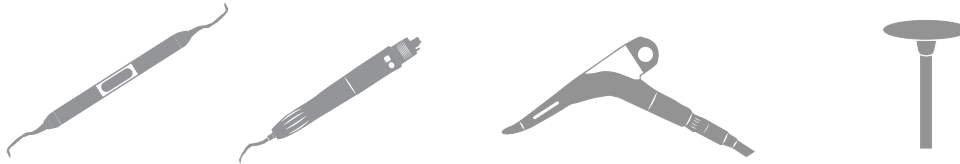
È possibile eseguire la scansione di BioHPP nel cavo orale senza usare polveri.



Presca
dell'impronta

Professional dental cleaning

supragingival - fixed



	Scalers/ curettes	Ultrasonic scalers		Air-powder-water jets			Polishing	
	Periosoft scaler (Kerr)	Metal tips	Plastic tips (e.g. KaVo Sonicflex Paro straight)	Nozzle supragingival (e.g. Supranozzle from Acteon)	Sodium carbonate: (e.g. Airflow comfort from EMS)	Erythritol powder (e.g. Airflow Plus from EMS)	Super- Snap (Shofu)*	Prisma gloss (Dentsply)*
BioHPP	✓	✗	✓	✓	✗	✓	✓✓	✓
HIPC/ novo.lign/ neo.lign	✓	✗	✓	✓	✗	✓✓	✓✓	✓
crea.lign	✓	✗	✓	✓	✓	✓✓	✓✓	✓

Sources:

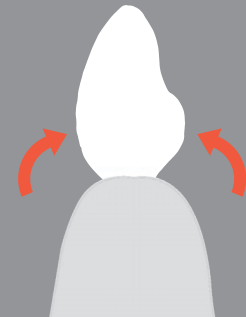
Cleaning study in cooperation with the LMU Munich under the management of Dr. Bogna Stawarczyk

** The Journal of Prosthetic Dentistry: Surface properties of polyetheretherketone after different lab-and chairside polishing protocols



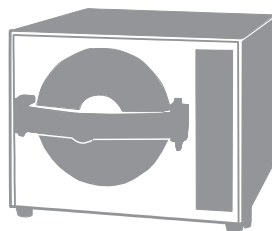
Professional
dental cleaning

supragingival - fixed



Sterilizzare & disinfettare

Dente naturale
monconizzato/
Impianto

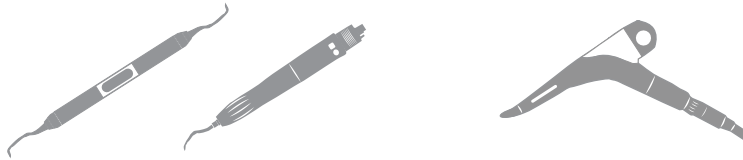


	Sterilizzazione (in autoclave, max. 160° C)	Disinfezione (p.es. con clorexidina, Chlorhexamed , alcol)
BioHPP elegance solo come abutment	✓	✓
BioHPP come crown- abutment rivestito	✗	✓
BioHPP incollato su una base in titanio (non consigliato da bredent)	✗	✓

Sterilizzare
& disinfettare

Professional dental cleaning

subgingival* - fixed



	Scalers/ curettes		Ultrasonic scalers		Air-powder-water jets		
		Metal tips	Plastic tips/ carbon (e.g. PerioSoft tips from Acteon)	Nozzle subgingival (e.g. PERIO-FLOW® nozzles from EMS or Perio Easy subgingival nozzle from Acteon)	Sodium carbonate powder (e.g. AIR- FLOW® Powder CLASSIC from EMS)	Glycine powder, approx. 25 µm grain size (e.g. AIR-FLOW® Powder PERIO from EMS or Air-N-Go "Perio" from Acteon)	
BioHPP abutments	X	X	X	✓	X	✓	
Titanium abutments	X	X	✓	✓	X	✓	
HIPC Kronenrand	X	X	✓	✓	X	✓	

* Cleaning study, Ms. Braun, 2015



Professional
dental cleaning

subgingival - fixed

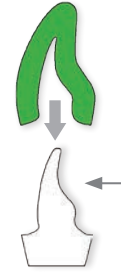


Condizionamento e cementazione

Protesi provvisorie

Protocollo per la corona

Corona in BioHPP su impianti in differenti materiali o su denti naturali



Condizionamento e cementazione

protesi provvisorie

Protocollo per la corona Corona in BioHPP su manufatti in differenti materiali

Fase

1	2	3				
BioHPP Sabbiare la corona con 110 µm	Applicare visio.link su BioHPP	Cementare	Metalli/ Leghe	Biossido di zirconio	BioHPP	Dentina/ Smalto
	X	Cemento all'ossido di zinco senza eugenolo (Tempbond (Kerr))	✓	✓	✓	● *
	X	Cemento a base di silicone di tipo A (Temposil 2 (Coltene Whaledent))	✓✓	✓✓	✓✓	✓✓

* Da utilizzare solo con un angolo di preparazione fino a 5°

Conditioning & fitting

permanent

Framework-based approach

BioHPP framework together with different crown materials



Step

1

2

3



Blast BioHPP framework/ abutment with 110 µm	visio.link on BioHPP	Bonding	Metal/ alloys	Zirconium dioxide (1)	BioHPP	Lithium disilicate (e.g. emax)	HIPC
	✓✓	Adhesive technique (Panavia 2.0 & V5 (Kuraray))	✓✓	✓✓	✓✓	✓✓ (K)	✓✓
	○	Self-adhesive (Rely X unicem (3M Espe))	✓	✓	✓	✗	○
	✗	Glass ionomer cement (Ketac Cem (3M Espe))	○*	○*	○	✗	○
	✗	Zinc phosphate cement (Harvard Cement)	○	○	○	✗	○

(1) Flexural strength > 900 MPA (K) only recommended for crowns * Only use for a preparation angle up to 5°

Conditioning & fitting

permanent

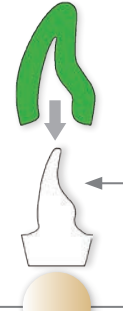
Framework-based approach
BioHPP framework together
with different crown
materials

Condizionamento e cementazione

Protesi definitive

Protocollo per la corona

Corona in BioHPP su impianti in differenti materiali/denti naturali/leghe metalliche



Fase

1

2

3



BioHPP - Sabbia- re la corona con 110 µm	Applicare visio.link su BioHPP	Cementare	Metalli/ Leghe	Biossido di zirconio	BioHPP	Dentina/ smalto
	✓✓	Cemento adesivo (VarioLink; NX-3, Panavia 2.0 & V5)	✓✓	✓✓	✓✓	✓✓
	●	Cemento autoadesivo (Rely X unicem (3M Espe))	✓	✓	✓	✗
✗		Cemento vetro- ionomerico (Ketac Cem (3M Espe))	● *	● *	●	● *
✗		Cemento al fosfato di zinco (Harvard Cement)	●	●	●	● *

* Da utilizzare solo con un angolo di preparazione fino a 5°

Condizionamento e cementazione

protesi definitive

Protocollo
per la corona
Corona in BioHPP
su differenti materiali
per manufatti

Conditioning & fitting

temporary

Framework-based approach

BioHPP framework together with different crown materials



Step

1

2

3



BioHPP Blast frame-work/abutment with 110 µm	visio.link on BioHPP	Bonding	Metal/alloys	Zirconium dioxide	BioHPP	Lithium disilicate (e.g. emax)	HIPC
	X	Eugenol-free zinc oxide cement (Tempbond (Kerr))	✓*	✓*	●	X	✓
	X	A-Silicone-based fixing cement (Temposil 2 (Coltene Whaledent))	✓✓	✓✓	✓✓	X	✓

* only use with a preparation angle of up to 5°

Conditioning & fitting

temporary

Framework-based approach
BioHPP framework together
with different crown
materials

Condizionamento e cementazione

Protesi provvisorie

Protocollo per manufatti

Manufatti in BioHPP in combinazione con differenti materiali



Fase



Sabbiare il manufatto /l'abutment in BioHPP con 110 µm	Applicare visio.link su BioHPP	Cementare	Metalli/ Leghe	Biossido di zirconio	BioHPP	Disilicato di litio (p.es. emax)	HIPC
	X	Cemento all'ossido di zinco senza eugenolo (Tempbond (Kerr))	✓*	✓*	●	X	✓
	X	Cemento a base di silicone di tipo A (Temposil 2 (Coltene Whaledent))	✓✓	✓✓	✓✓	X	✓

* Da utilizzare solo con un angolo di preparazione fino a 5°

Condizionamento e cementazione

protesi provvisorie

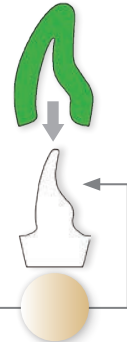
Protocollo per manufatti
Manufatti in BioHPP in combinazione con differenti materiali per corone

Conditioning & fitting

permanent

Crown-based approach

BioHPP crown on various teeth/implant/metal alloys



Step

1

2

3



BioHPP Blast crown with 110 µm	visio.link on BioHPP	Bonding	Metal/ alloys	Zirconium dioxide	BioHPP	Dentine/ enamel
✓✓	Adhesive technique (VarioLink; NX-3, Panavia 2.0 & V5)	✓✓	✓✓	✓✓	✓✓	✓✓
○	Self-adhesive (Rely X unicem (3M Espe))	✓	✓	✓	✓	✗
✗	Glass ionomer cement (Ketac Cem (3M Espe))	* ○	○*	○*	○*	○*
✗	Zinc phosphate cement (Harvard Cement)	○	○	○	○	○*

* only use with a preparation angle of up to 5°

Conditioning & fitting

permanent

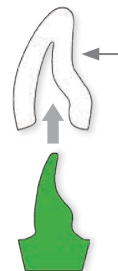
Crown-based approach ·
BioHPP crown on various
framework materials

Condizionamento e cementazione

Protesi definitive

Protocollo per manufatti

Manufatti in BioHPP in combinazione con differenti materiali



Fase

1

2

3



Sabbiare il manufatto / l'abutment in BioHPP con 110 µm	Applicare visio.link su BioHPP	Cementare	Metalli/ Leghe	Biossido di zirconio (1)	BioHPP	Disilicato di litio (p.es. emax)	HIPC
✓✓	✓✓	Cemento adesivo (Panavia 2.0 & V5 (Kuraray))	✓✓	✓✓	✓✓	✓✓ (K)	✓✓
○	○	Cemento autoadesivo Rely X unicem (3M Espe))	✓	✓	✓	✗	○
✗	✗	Cemento vetro- ionomerico (Ketac Cem (3M Espe))	○*	○*	○	✗	○
✗	✗	Cemento al fosfato di zinco (Harvard Cement))	○	○	○	✗	○

(1) Resistenza alla flessione > 900 MPA (K) consigliato solo per corone * Da utilizzare solo con un angolo di preparazione fino a 5°

Condizionamento e cementazione

protesi definitive

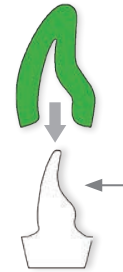
Protocollo per manufatti
Manufatti in BioHPP in
combinazione con
differenti materiali

Conditioning & fitting

temporary

Crown-based approach

BioHPP crown on various implant materials or tooth



Step

1

2

3



BioHPP Blast crown with 110 µm	visio.link on BioHPP	Bonding	Metal/ alloys	Zirconium dioxide	BioHPP	Dentine/ enamel
	X	Eugenol-free zinc oxide cement (Tempbond (Kerr))	✓	✓	✓	○*
	X	A-Silicone-based fixing cement (Temposil 2 (Coltene Whaledent))	✓✓	✓✓	✓✓	✓✓

* only use with a preparation angle of up to 5°

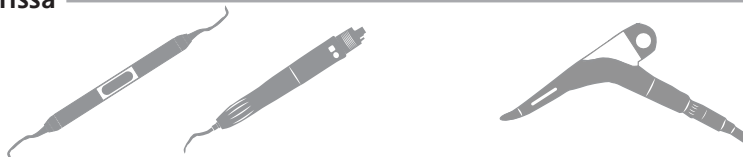
Conditioning & fitting

temporary

Crown-based approach · BioHPP crown on various framework materials

Igiene orale professionale

sottogengivale* - fissa



	Scaler/ curette	Ablatori ad ultrasuoni		Apparecchi a getto di polvere con miscela di aria-polvere-acqua		
		Punte in metallo	Punte in pla- stica/carbonio (p.es. punte Periosoft di Acteon)	Ugello sottogengivale (p.es. PERIO-FLOW® nozzles di EMS o ugello sot- togengivale Perio Easy di Acteon)	Polvere al carbonato di sodio (p.es. AIR-FLOW® Powder CLAS- SIC di EMS)	Polvere a base di glicina, ca. 25 µm di granulometria (p.es. polvere AIR-FLOW® PERIO di EMS, o Air-N- Go „Perio” di Acteon)
Abutment in BioHPP	X	X	X	✓	X	✓
Abutment in titanio	X	X	✓	✓	X	✓
HIPC bordini cervicali	X	X	✓	✓	X	✓

* Studio sulla disinfezione, ditta Braun, 2015



Igiene orale
professionale

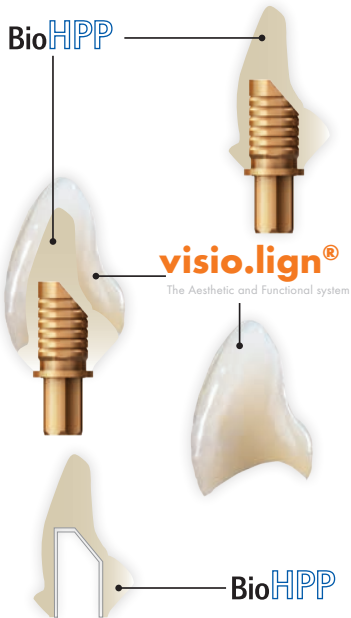
sottogengivale - fissa



Sterilising & disinfecting



Tooth structure/
implant

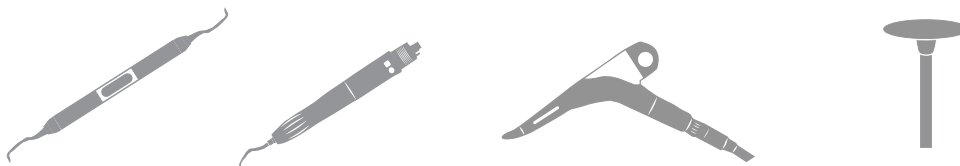


	Sterilising (autoclaving, max. 160°C)	Disinfecting (e.g. chlorhexidine, chlorhexamed, alcohol)
BioHPP elegance abutment only	✓	✓
BioHPP as a veneered crown abutment	✗	✓
BioHPP bonded to titanium adhesive bases (not recommended by bredent)	✗	✓

Sterilising &
disinfecting

Igiene orale professionale

sopragengivale - fissa



	Scaler/ Curette		Ablatori ad ultrasuoni		Apparecchi a getto di polvere con miscela di aria-polvere-acqua			Lucidatura	
	Scaler Periosoft (Kerr)	Punte in metallo	Punte in plasti- ca (p.es. KaVo Sonicflex Paro punta dritta)	Ugello sopragengivale (p.es. Su- pra-Düse di Acteon)	Carbonato di sodio: (p.es. Airflow comfort di EMS)	Polvere di Eritritolo- (p.es. Airflow Plus di EMS)	Super- Snap (Shofu)*	Prisma gloss (Den- tsply)*	
BioHPP	✓	✗	✓	✓	✗	✓	✓✓	✓	
HIPC/ novo.lign/ neo.lign	✓	✗	✓	✓	✗	✓✓	✓✓	✓	
crea.lign	✓	✗	✓	✓	✓	✓✓	✓✓	✓	

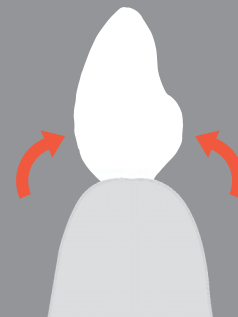
Fonte: Studio sulla disinfezione in collaborazione con l'Università LM di Monaco di Baviera sotto la direzione del Dr. Bogna Stawarczyk

** The Journal of Prosthetic Dentistry: Surface properties of polyetheretherketone after different lab-and chairside polishing protocols



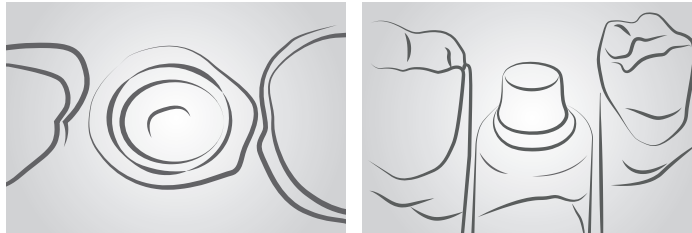
Igiene orale
professionale

sopragengivale - fissa



Modelling

for temporary and permanent restoration



BioHPP can be scanned intraorally without powder.

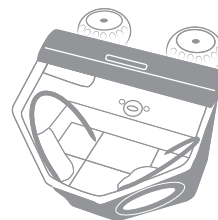
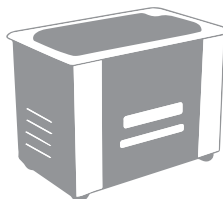
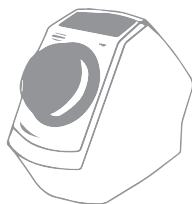


Modelling

Disinfezione in laboratorio

Protesi provvisorie

Protesi rimovibili (p.es. protesi secondarie o telescopiche, protesi su barra)



	Apparecchi con tecnologia ad aghi (p.es. Sympro e Symprofluid)	Bagno ad ultrasuoni	Microsabbiatrici (granulometria: 50µm)
BioHPP	✓✓	✓✓	● (è necessaria la lucidatura)
HIPC/ novo.lign/ neo.lign	✓✓	✓✓	● (è necessaria la lucidatura)
crea.lign	✓✓	✓✓	● (è necessaria la lucidatura)



Disinfezione in laboratorio

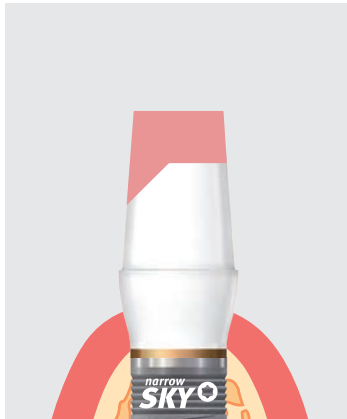
protesi provvisorie

Protesi rimovibili ·
(p.es. protesi secondarie
o telescopiche, protesi
su barra)

Temporary restoration

BioHPP elegance Abutment

In the temporary restoration only the height of the abutment is reduced.
The sulcus course will only be customised chairside in the case of permanent restoration.



Temporary restoration

BioHPP elegance Abutment

Igiene orale domiciliare del paziente

Protesi fisse e rimovibili

Protesi rimovibili (p.es. protesi secondarie o telescopiche, protesi su barra)



	Pulitori a vibrazioni	Spazzolini con setole morbide	Spazzolini con setole semi-morbide	Spazzolini con setole dure	Spazzolini elettrici	Spazzolini ad ultrasuoni	Compresse ad azione igienica
BioHPP	✓✓	✓✓	✓	✗	✓	✗	✓
HIPC/ novo.lign/ neo.lign	✓✓	✓✓	✓	✗	✓	✗	✓
crea.lign	✓✓	✓✓	✓	✗	✓	✗	✓



Igiene domiciliare

protesi fisse e rimovibili

Protesi rimovibili ·
(p.es. protesi secondarie o
telescopiche,
protesi su barra)

Instruments

for the preparation of BioHPP elegance abutments

Intra-oral:



Composite
Q-finishing bur
from Komet:
H375RQ.314.016
H379Q.314.018

Use with spray
cooling (at least
50 ml/min)
20,000 rpm

Extra-oral:



Milling set
BioHPP Performance
Polymers® 7-pc
REF 33000831



Use of a laboratory analogue.
Horizontal grooves serve as
mechanical retention during
veneering



Instruments

for the preparation of BioHPP
elegance abutments

Chipping Repair Kit

Risolve in modo semplice e veloce i casi di chipping



I casi di chipping sono frequenti sui rivestimenti ceramici



Dopo la riparazione con il composito crea.lign®



Chipping Repair Kit

I primer del kit funzionano in combinazione con tutti i materiali per protesi

Masse incisali e dentinali crea.lign® (nei colori A2 e A3 per l'80 % di tutti i casi)

100 Trattamenti con un solo set „Chipping Repair Kit“

Non è necessario l'acido fluoridrico

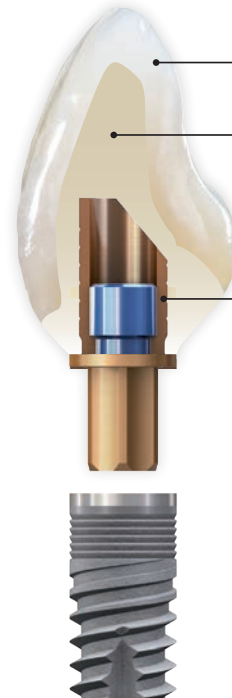
Intraoral or extraoral preparation?



Flap: Extra-oral preparation of the abutment



Flapless: Intra-oral preparation of the abutment



visio.lign®
The Aesthetic and Functional system

BioHPP

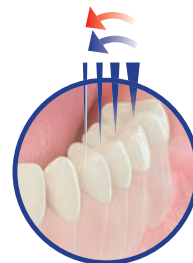
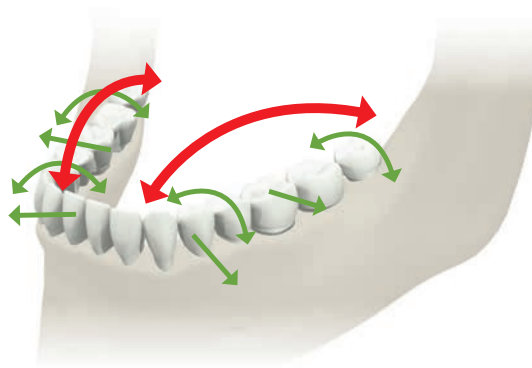
**Tooth structure/
implant**



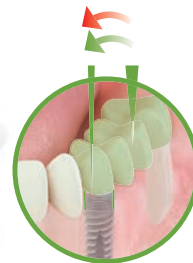
Intraoral or
extraoral
preparation?

La soluzione fisiologica

Una protesi in BioHPP riduce notevolmente i valori massimi delle forze masticatorie sia in senso verticale che laterale, rispetto al titanio, allo zirconio e alla ceramica. Questa capacità di ammortizzazione ha un effetto gradevole sul paziente, è sana da un punto di vista fisiologico e contribuisce a garantire una lunga durata della protesi.



Dente naturale.

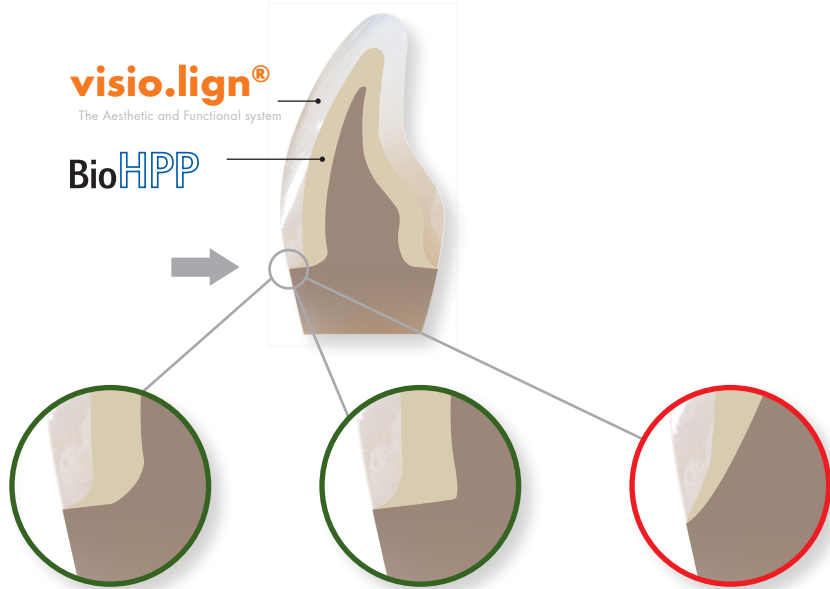


Una protesi in BioHPP riduce la sollecitazione dovuta agli effetti delle forze naturali e a quelle relative alla protesi.



I materiali rigidi impediscono i movimenti naturali e trasferiscono gli effetti delle forze masticatorie sugli impianti e sul tessuto osseo.

Preparation



	Chamfer preparation	Step preparation	Tangential preparation
BioHPP	✓	✓	✗
HIPC	✓	✓	✗



Preparation

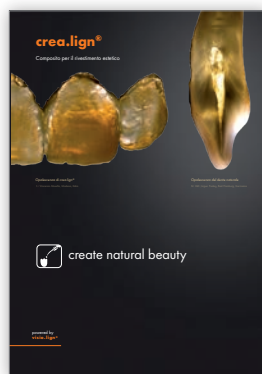
Altre interessanti proposte



REF 000 547 01



REF 000 534 01



REF 000 577 01



REF 000 651 01

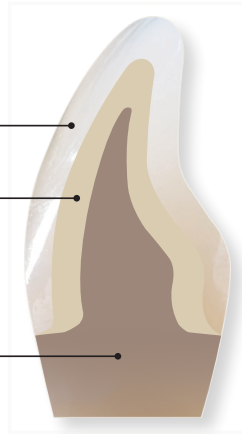
Altre
interessanti
proposte

Key

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The Aesthetic and Functional system

BioHPP

Tooth structure/
implant



In the
dental practice



In the
dental laboratory



At the
patient's home

Very well suited	Suitable	Possible	Unsuitable
✓✓	✓	○	✗

Manuale di consultazione rapida

per lo studio odontoiatrico

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group

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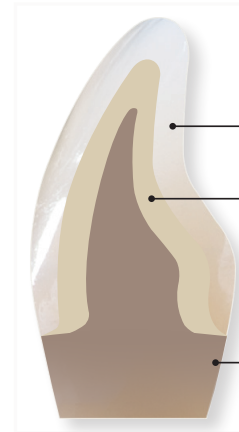
Salvo errori e modifiche
0006130I-20170309

Quick Reference Card

for dental practice

Orientation guidelines for the application of BioHPP

- Preparing & modelling
- Sterilising, conditioning & fitting
- Cleaning at the practice
- Cleaning in the laboratory
- Cleaning at the patient's home



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BioHPP

Tooth structure/
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