

HORICO DENTAL



A. Lanza

A. Sommella

Veneers



KIT for VENEERS

HOPF, RINGLEB & CO. GMBH & CIE.



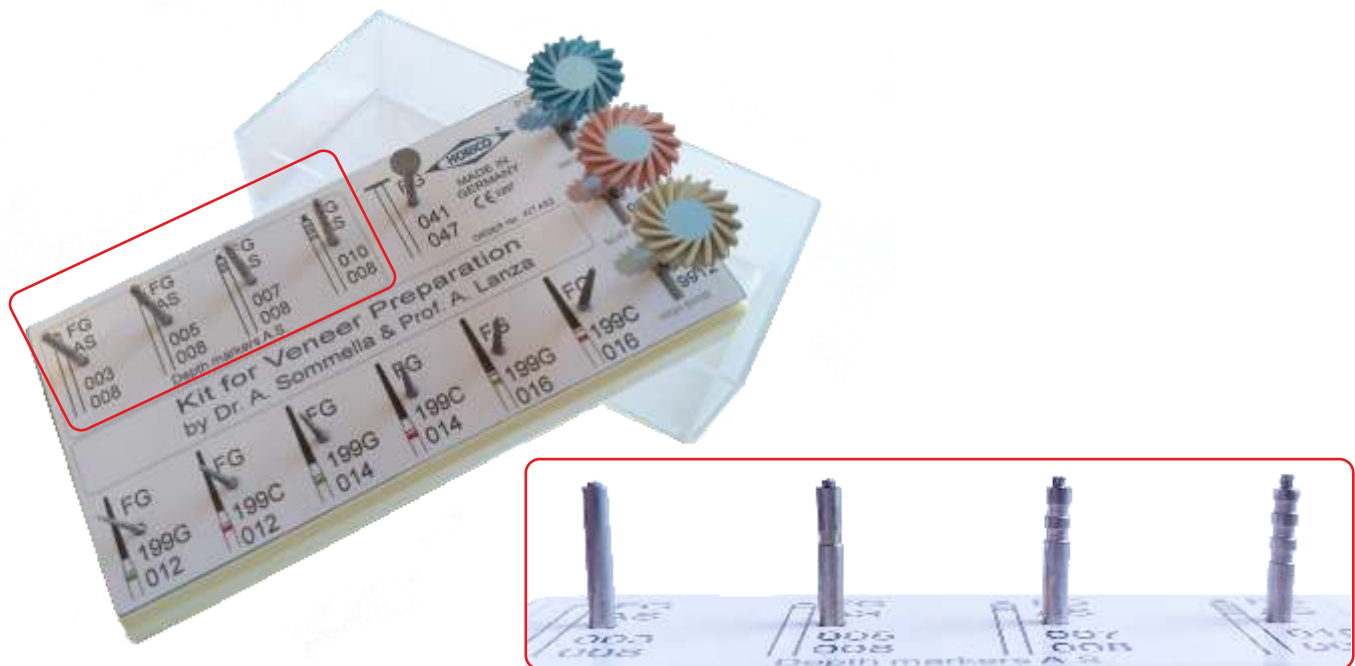
This kit was developed for quality-conscious dentists who want to perform a safe and precise preparation of veneers. The kit provides an innovative solution to remove tooth structure for the veneer preparation technique. The application of the kit leads to ideal material thickness for optimal component fit and colour match of the veneers.

This brochure presents the newly developed "AS depth markers" by HORICO®: These special diamond burs enable a clearly defined degree of ablation of the tooth structure. The kit also includes conical diamond burs in fine and coarse grit, as well as the technically perfectly matched Lamello polishers.

The AS depth marker is a partially diamond-coated bur which allows for controlled and minimally-invasive removal of tooth tissue such as enamel, dentine and even dental composite. The special feature: the shoulder of the bur is rounded at a 90-degree angle, which guides the practitioner's hand safely. A stabilizing ring prevents the bur from tilting or penetrating too deeply. The AS depth marker is available in four different removal depths (0.3mm / 0.5mm / 0.7mm and 1mm). Two different methods of hard tissue removal can be used:

- a) dimples as depth guides
- b) depth grooves

The reduction of the hard tissue is absolutely safe, controlled and minimally invasive.



Preparation kit for veneers including the new AS depth marker from HORICO

Defined reduction of a small portion of the natural tooth using the AS depth markers.



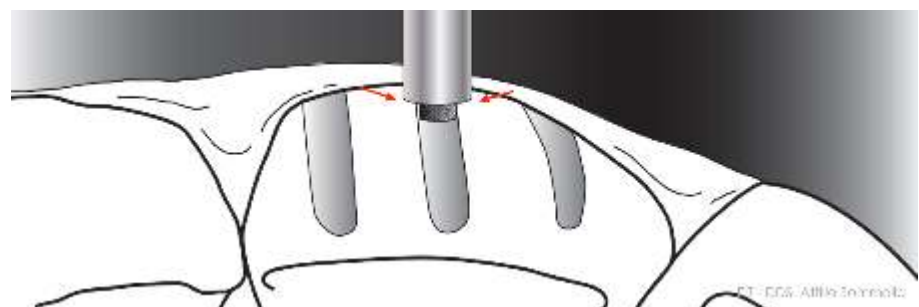
Different removal depths: AS depth markers
 AS 0.3mm - AS 0.5mm - AS 0.7mm - AS 1mm. The special feature: the shoulder of the bur is rounded at a 90-degree angle, which guides the practitioner's hand safely. A stabilizing ring prevents the bur from tilting or penetrating too deeply.

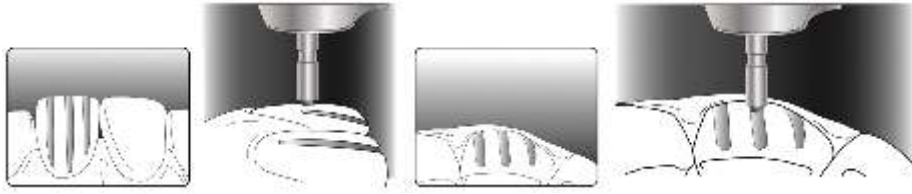


Clinical case No. 1
 Innovative clinical approach: The diamond bur is placed vertically to the tooth surface (and not parallel as in the classical preparation method). The stabilizing ring of the AS depth marker prevents tilting of the instrument.



The stabilizing ring ensures a safely guided cut through the dental hard tissue. Using this step, the depth of the preparation over the entire tooth surface is exactly the same.





The stabilizing ring guides the bur steadily and accurately. A clearly defined removal depth is achieved.



Inspection of this step with the help of a periodontal probe. This provides a clear picture of the precision and uniformity of the depth of cut.



The dimple technique is an alternative to the groove technique in which holes are drilled into the tooth surface with exact depth control. The stabilizing ring provides security and prevents the bur from penetrating too deeply into the tooth surface.

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Horico



Selecting the right diamond bur for the removal of the tooth surface: There are six different conical burs available (different particle sizes and diameters). The thickness of the dental hard tissue to be ablated is determined and then milled with the aid of the AS markers.

Controlled, minimally invasive reduction of incisal area with AS depth marker:
In this case, a depth of 1mm is marked.



Reduction of the incisal edge with the diamond bur FG 041 047. If a larger reduction is required, the AS depth marker can be reapplied (for example, first 1mm, then 0.5mm - achieving a total depth of 1.5mm).



The base preparation is complete. Within the veneer technique, AS depth markers are not only used for a controlled reduction, they can also be used for crown preparation.



Suggested polishing of the prepared tooth before precision impression: HORICO polisher

Lamello for ceramics,

three steps:

W9910 (blue - coarse)

W9911 (pink - medium)

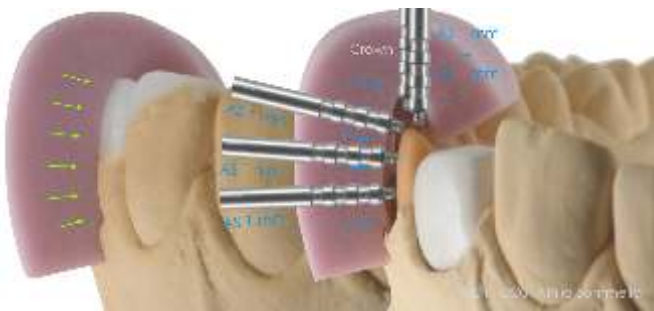
W9912 (grey - fine)





Here are two pictures that summarise this innovative treatment approach. For crown prosthetics, the strengths will differ slightly. In this case, the AS depth marker can be used with 1mm depth; if necessary, several times consecutively.

With the four different diamond tips of the AS depth marker (0.3mm / 0.5mm / 0.7mm and 1mm), almost every depth of ablation can be achieved, covering the entire spectrum of prosthetic treatments.



The reconstruction is completed. A lithium disilicate crown was layered on tooth 2.2. A ceramic veneer was attached to tooth 2.1.



In-situ reconstruction after cementation.

Clinical case no. 2, time 0.
The malalignment of the teeth
causes this patient to hide her
teeth behind her lips.



In situ mock-up, before prosthetic
treatment.



Controlled, minimally invasive
reduction of the incisal area with
AS depth marker, in this case 1mm
deep. The photo shows the three
fundamental steps: Application of
the AS depth marker, reduction of
the incisal edge with the diamond
bur FG 041 047, completed
ablation of incisal edge.



The next step is the reduction of
the buccal tooth surface with AS
depth marker 0.5mm,
application of the dimple
technique and the groove
technique.





The grooves are marked and then levelled with rounded conical burs of different diameters and particle size.



Dental preparation with veneers.



Veneers made from feldspar-based ceramics.



Adjustment and control of circumferential accuracy of the ceramic veneers on the master model.

Minimally invasive reconstruction
after cementation.



Enlarged details of the
reconstruction.
Perfect integration of the veneers.





Attilio Sommella, ZT/ZA, dentist / dental technician, deals mainly with aesthetics in fixed prostheses.

He graduated in Dental Technology from IPSIA Casanova in Naples in 1985.

Degree in dentistry in 2016 at the Instituto Superior de Ciências in Saude-Norte (Portugal).

Several lecturing mandates at various Italian universities.

He is the author of numerous articles in national and international journals.

Attilio Sommella is a sought-after international speaker who deals mainly with aesthetics.

He is initiator and patent owner (1999) of a simplified work system for ceramic dentures called "Incisal Boards". He is the author of the book "Il margine incisale, punto di forza nell'espressione di un incisivo" (2004), published in Italian by Teamwork Media srl.

Attilio Sommella is a member of the Scientific Committee of the dental journals "Dentaldialog" and "Teamwork Klinik".

He is a professor at "AntloFormazione Italia" and winner of the International Prize ANTLO "Roberto Polcan" 2006.

He is co-author of the book "Veneers: Ricostruzioni mini-invasive Aspetti clinico-tecnici" (2011), published by Teamwork Media Italia and published in English under the title "Veneers - Mini Invasive Reconstructions" by Palmeri Publishing Inc., Canada (2014).

Together with Prof. Alessandro Lanza he has developed the new "AS depth markers" by HORICO, as well as the "Sommy L / R" sonic tips and a new preparation design for porcelain veneers called "self-centering geometric preparation".



Alessandro Lanza graduated with honours in Dentistry and Prosthodontics at the Faculty of Medicine and Surgery of the Second University of Naples in 2004.

In the same year (grade: 60/60) he was admitted as a practicing dentist specializing in odontostomatological surgery (grade: 50/50).

Prof. Lanza earned his habilitation in 2017 and was appointed professor of odontostomatological diseases at the Università degli Studi della Campania Luigi Vanvitelli in Naples.

Scientific work:

Since 2000 Prof. Lanza has been intensively researching dental prosthetics and implantology. His research has been published in numerous international scientific journals (impact factor: ca. 150, H index: 21, 1054 quotes, 102 co-authors, 1175 references).

Alessandro Lanza has been working as a lecturer for the Master Degree Program in Dentistry and Prosthodontics at the University of Campania Luigi Vanvitelli in Naples since 2008. Here he provides training in prosthetic and laboratory techniques, dental prosthetics, prosthodontic implantology and surgical odontostomatological pathology.

The company HOpf, RIngleb & CO. was founded by Ing. Paul Hopf in Berlin in 1918.

Paul invented the first separating strips for the dental market.

Production started with HORICO discs and strips, and a few years later, rotary instruments were added to the range.



The inventions of HORICO:

- Steelcarbo®: discs and strips
- Diaflex®: flexible diamond disc
- Diatrepano®: instrument for root canal opening
- Superdiaflex®: Diamond disc with a thickness of only 0.1mm



Today, HORICO is one of the world leaders in the manufacture and development of strips and rotary instruments (diamond and carbide) for dentistry and dental technology.



HORICO is a successful and innovative family business run by great-granddaughters of the founder in the fourth generation and recently celebrating its 100th anniversary.



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