World Dental Forum 2017 in Beijing was held with great success

The World Dental Forum 2017 (WDF 2017) was successfully held on the 30th and 31st of October at China World Summit Wing Hotel, Shangri-la Beijing. It has been the fourth time for Modern Dental Group to organize this international mega dentistry event with the aims to enhance the academic sharing and exchange of worldwide technical experience for all the dental specialists around the world. Over 800 dental specialists joined the WDF 2017 and shared their knowledge with each other.

A 2-day forum with lectures held by well-known speakers brought together dental professionals from all parts of the world, reaching from the Australia, Belgium, Brazil, France, China, Germany, Hong Kong, the Netherlands and the USA. This year, a total of three panel discussion sessions were hosted in the forum, curing a broad range of topics that focuses on the Digital Dentistry, Implantology and Aesthetic Dentistry.

Modern Dental was much honored to have Professor Thomas Flemmig, Dean and Clinical Professor in Periodontology of Faculty of Dentistry at The University of Hong Kong and President Yu Guang Yan, Chinese Stomatological Association, to address the opening speech.

Modern Dental Group will continue to bring the required knowledge, technologies and skills to dentists world wide based on the experiences accumulated from years of hard work and solid relationship with the academic expertises.

From a small Hong Kong laboratory to the largest dental laboratory in the world - Come visit us!

Modern Dental Laboratory sincerely invites you to the upcoming factory tour on 7th March (Wednesday). As the tour is limited for maximum 20 participants, each dentist can register 1 accompanying dental assistant, registration will be processed on a first-come-first-served basis.

We will arrange a shuttle bus pick you up to China factory, please kindly arrive 9:30am at Shenzhen Bay Port (Hong Kong Side). Lunch will be served after tour. For further details please contact our marketing team at 3766 0782.

China Factory Tour	
Venue	Modern Dental Laboratory, Shenzhen
Date	7th March, 2018 (Wednesday)
Assemble Time	9:30am at Shenzhen Bay Port (Hong Kong Side)

Customer Service	3766 0888	**Accounts**	3766 0789	**Whatsapp**	9308 8392
Pick up & Delivery	3766 0771	**Fascimile**	3766 0700	**Customer Service**	hksupport@moderndentallab.com
Custom Matching & Shading	3766 0778	**Sales & Marketing**	3766 0760	**MDQ Editorial Committee**	mdq@moderndentallab.com

MDQ : Modern Dental Quarterly is written and produced by Modern Dental Laboratory Co., Ltd.
Suite 8-16, 17/F., CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong.

Modern App: Available at App Store (iOS) or Play Store (Android) by searching "Modern Dental Lab", or desktop version: http://connect.moderndentallab.com

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MODERN DENTAL QUARTERLY

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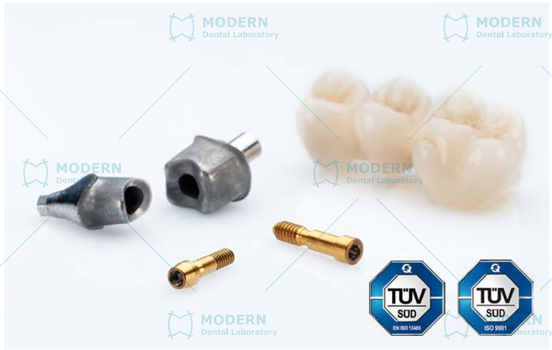
Digitek product upgrade - Titanium Nitride coated screws



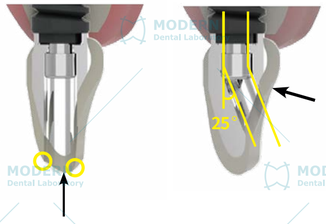
TiN Coated Screws

Digitek Dental Solutions is one of our milling centers in Hong Kong which aims to bring the latest technology and service to doctors worldwide. Digitek implemented the ISO 13485:2012 and ISO 9001:2008 Medical Device Quality Management System to ensure consistent top-quality products.

We continuously find methods to improve our quality. Titanium nitride(TiN) coating is now applied to most of our prosthetic screws. The TiN coating enhances surface hardness and has a lower coefficient of friction.

- ✓ Resistance to abrasion and less abrasion to the fixture
- ✓ Prevents the loss of removal torque due to screw wear
- ✓ Reduces the chance of screw loosening

MTX (Multi-Axial) technology - Go cement-free today!



MTX allows the possibility of an angulated screw channel of up to 25 degrees. This allows for screw-retained implant restorations in areas such as the maxillary anterior teeth, resulting in the screw channel being placed aesthetically on the palatal side and eliminating the possibility of residual cement.

The first quarter seminars in 2018

	Clinical Tips Seminars	Model Pouring Workshop
Date	9th March, 2018 (Friday) & 13th April, 2018 (Friday)	16th March, 2018 (Friday)
Time	19:00 – 21:00	17:00 – 18:30
Location	Modern Dental Laboratory Office (Lai Chi Kok)	Digitek Dental Solutions Office (Lai Chi Kok)
Max Participants	30 Doctors	15 DSAs (*The workshop may be postponed to next quarter if the number of attendants is less than 5.)
Speakers	Dr. Lau Po Sun & Mr. Kenny Tsoi	Mr. Raymond Ho & Ms. Amanda Li
Content	Dr. Lau and Kenny will showcase some interesting clinical cases. It will be a great opportunity for the dentists to learn and share ideas with your peers on clinical tips and challenges.	A workshop which will teach dental assistants to improve their technique of pouring a stone model from an impression. Demonstration will be given by our technicians, followed by hands-on practice from participants.

For those who are interested in joining the seminars. Please feel free to contact our marketing team at 3766 0782 Ms. Charlene Choi.

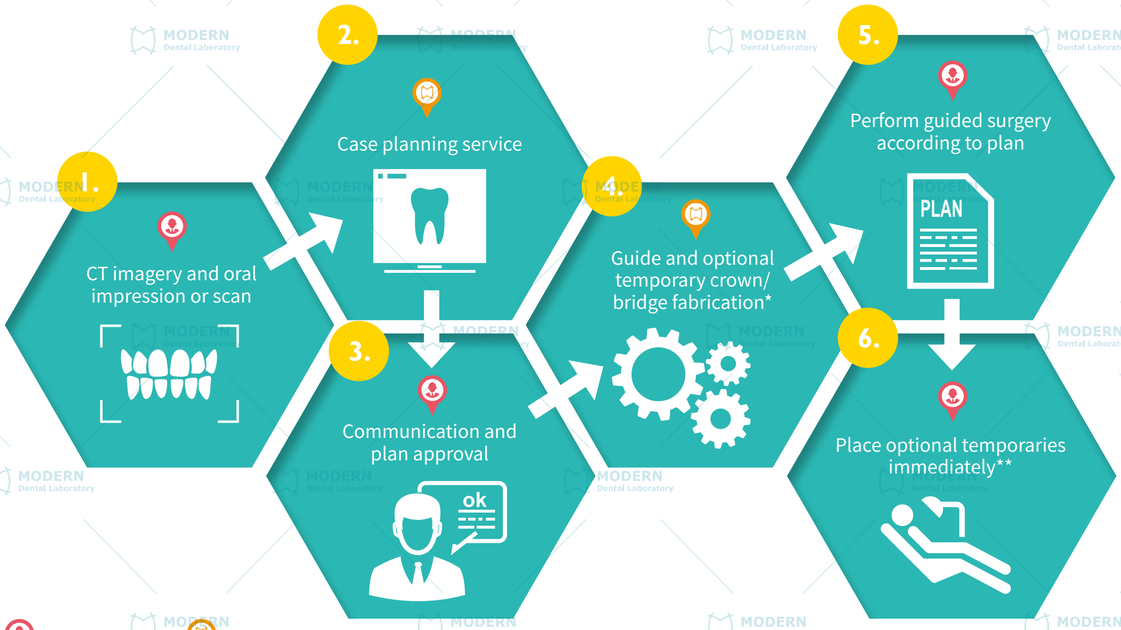
Stereolithographic surgical guides from Modern Dental Laboratory

With today's rapidly advancing technology, dental implant placement has drastically improved in regard to procedures and protocols. Clinician continuously strive to provide the best care to their patients in a systematic and safe way. Today, we are now able to use digital software to accurately simulate implant placement and fabricate a stereolithographic surgical guide, which will allow a much more accurate and safe method for the clinician to place the implants. Studies have shown that implant placement was improved by using a stereolithographic surgical guide because the surgical guidance relieves the clinician from multiple perioperative decisions (Sarment et al., 2003). Furthermore, use of such a system usually removes complications including mandibular nerve damage, sinus perforations, fenestrations, or dehiscences (Verstreken et al., 1996)

Compared to the conventional techniques, this sophisticated technology requires substantially more effort from the laboratory, and Modern Dental Laboratory has invested much resource into the hardware, software and training for the fabrication of an accurate stereolithographic surgical guide. A guided surgical stent does appear superior on account of its potential to eliminate possible manual placement errors and to systematize reproducible treatment success (Widmann & Bale, 2006). This is because, as the dental practitioner places the implants, the guides stabilize the drilling by restricting the degrees of freedom of the drill trajectory and depth (Oguz et al., 2009).

Below is a full simple workflow the proper steps for the fabrication of a guided surgical stent.

Surgical Guides workflow



Dentist Modern Dental Labortary

* Please refer to Guided Implant Surgery leaflet for further information

** The clinician is solely responsible for deciding whether immediate temporization is suitable

Reference:
1) Sarment, D.P., Sukovic, P., & Clinthorne N. (2003). Accuracy of Implant Placement with a Stereolithographic Surgical Guide. *International Journal of Oral & Maxillofacial Implants*, 18(4), 571-577.
2) Verstreken K., Van Cleynenbreugel J., Marchal G., Naert I., Suetens P., & Van Steenberghe D. (1996). Computer-assisted planning of oral implant surgery: A 3-dimensional approach. *International Journal of Oral & Maxillofacial Implants*, 11(6), 806-810
3) Widmann, G., & Bale, R.J. (2006). Accuracy in Computer-Aided Implant Surgery – A Review. *International Journal of Oral & Maxillofacial Implants*, 21(2), 305-313.
4) Ozan O., Turkyilmaz I., Ersoy A.E., McGlumphy E.A., & Rosenstiel S.F. (2008). Clinical Accuracy of 3 Different Types of Computed Tomography-Derived Stereolithographic Surgical Guides in Implant Placement. *Journal of Oral Maxillofacial Surgeons*. 67(2), 394-401

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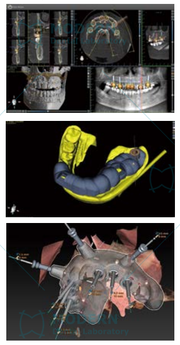
Stereolithographic Surgical Guides From Modern Dental Laboratory

1. Preparation

2. Planning

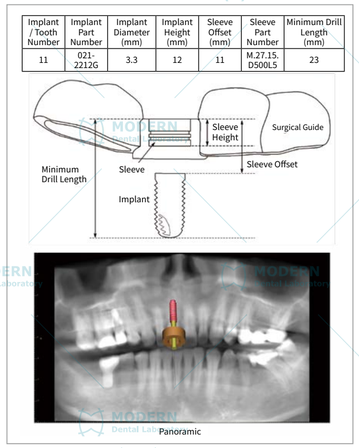
We require

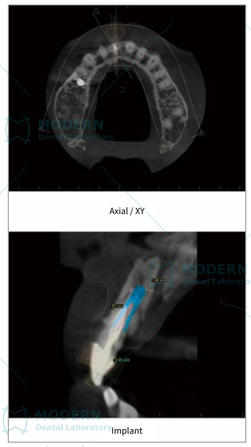
- Implant system
- Preferred diameter
- Preferred length
- Teeth position



3. Clinician to confirm the design

Implant / Tooth Number	Implant Part Number	Implant Diameter (mm)	Implant Height (mm)	Sleeve Offset (mm)	Sleeve Part Number	Minimum Drill Length (mm)
11	021-2212G	3.3	12	11	M.27.15. D500L5	23





4. Fabrication

Surgical guide (Pilot drill only)

Surgical guide (fully guided)

Surgical guide (fully guided)

5. Surgery

Clinician to perform the guided surgery according to plan

Tissue supported guide with anchor pins

Tooth supported guide

6. Optional immediate temporary

Immediate temporary crown according to guided plan

Frequently Asked Questions

1) **What information do the clinicians have to provide to Modern?**
CBCT, model / impression / STL of intraoral scan, radiographic stent with barium sulfate (for extensive or full edentulous case only).

2) **What types of guides can we support?**
We can make the Tooth Supported and Tissue Supported Guides, but not the Bone Supported Guide for the moment. For full edentulous cases, we can make full mouth Tissue Supported Guides with anchor pins to stabilize the guide.

3) **What if the clinicians do not have the correct kit to use the surgical guide we made?**
The guide we made can work with most of the Guided Drill Kits. However, if the doctors do not have a Guided Drill Kit, then we can lend them a guided Surgical Kit (while it is available).

4) **How can the clinicians approve the surgical guide design we planned?**
In general, we will send a full PDF report to the clinicians for confirmation. If clinicians are interested to plan, they can download a free software for modification by themselves.

Please call +852 3766 0888 for technical support.