

Suntech Designer

Suntech Designer gives you integrative design capability. Integrative design capability enables you to design abutments, copings, and crowns (3-in-1) in one design session. This process ensures consistent design, from abutments to copings to crowns, for a quality restorative product. You no longer need to outsource separate orders for abutments, copings, or crowns to different outsource centers, thus reducing costs. All design can be done in one seamless integrative process in Suntech Designer. Furthermore, after design, fabrication of all three restoration types can be done simultaneously to improve productivity and turnaround time.

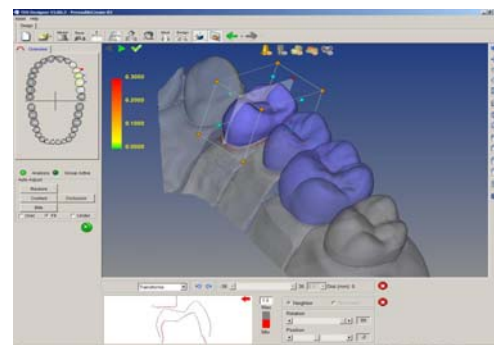
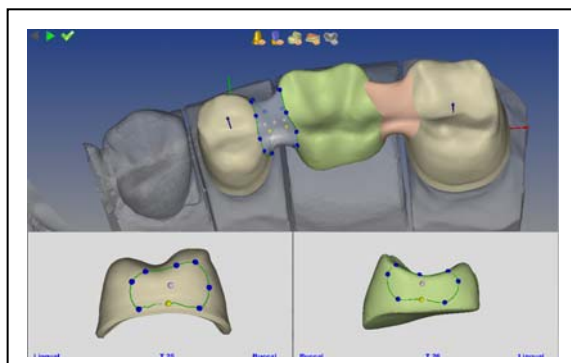
Using the same integrative process, Suntech Designer also allows you to design 2-in-1 restorative products, which include abutments and copings, abutments and crowns, and copings and crowns. Similarly, fabrication of 2-in-1 products can occur simultaneously. You can also design abutments, copings, and crowns separately if desired.

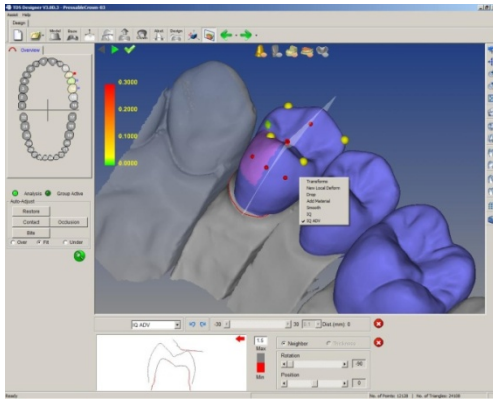
Suntech Designer gives you design versatility for all your restorative needs and saves you time and cost while improving productivity. Suntech Designer – the integrative experience.

Full Design Functions at Your Fingertips

Suntech Designer - Crowns and Bridges

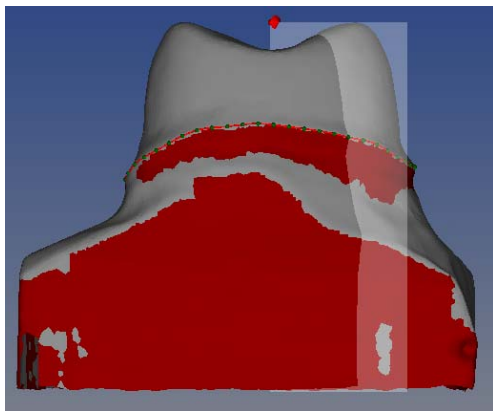
Design single units or long span bridges. Design uniform or anatomical copings, full crowns or press-on crowns. Choose crown morphology from a crown library. Select your desired pontic design for automatic pontic generation. Connectors are automatically placed. Warnings are given if connector thickness is insufficient. Make quick adjustments to the placement and diameter of the connectors using the convenient editing tools.





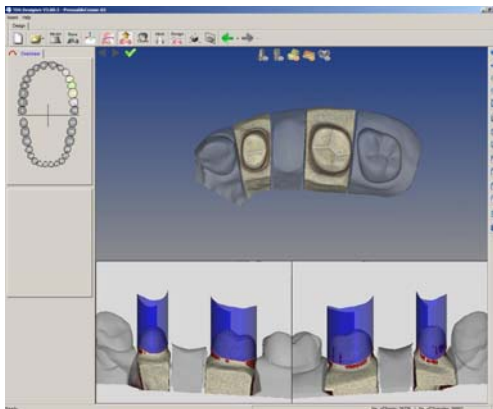
Full Crown Library

Design single units or long span bridges. Design uniform or anatomical copings, full crowns or press-on crowns. Choose crown morphology from a crown library.



Path of Insertion

Automatically detect the preparation margin with one smooth mouse action. Make needed adjustments quickly and easily with the editing tools. View the 2D cross-sectional die to adjust the margin to the exact precision desired.

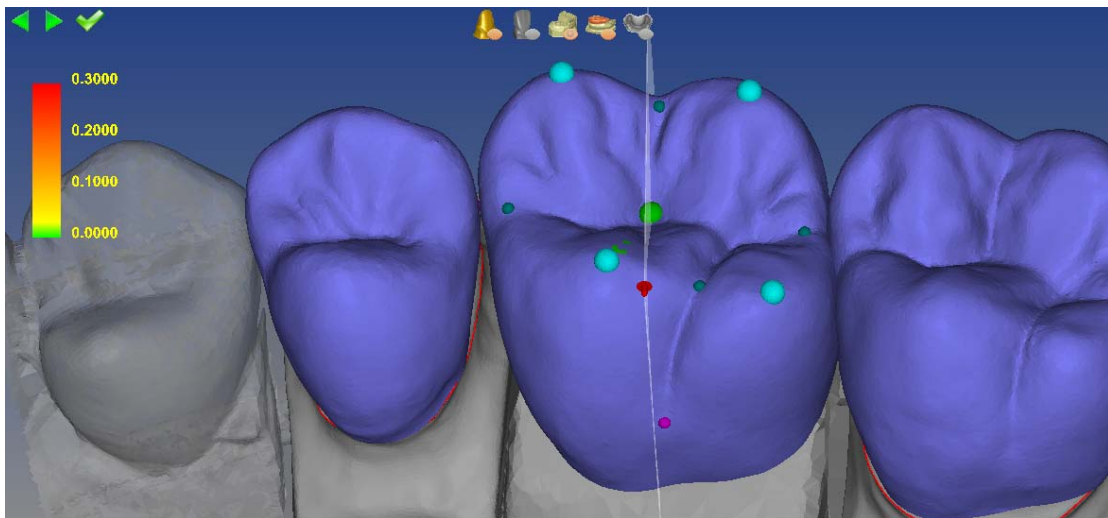
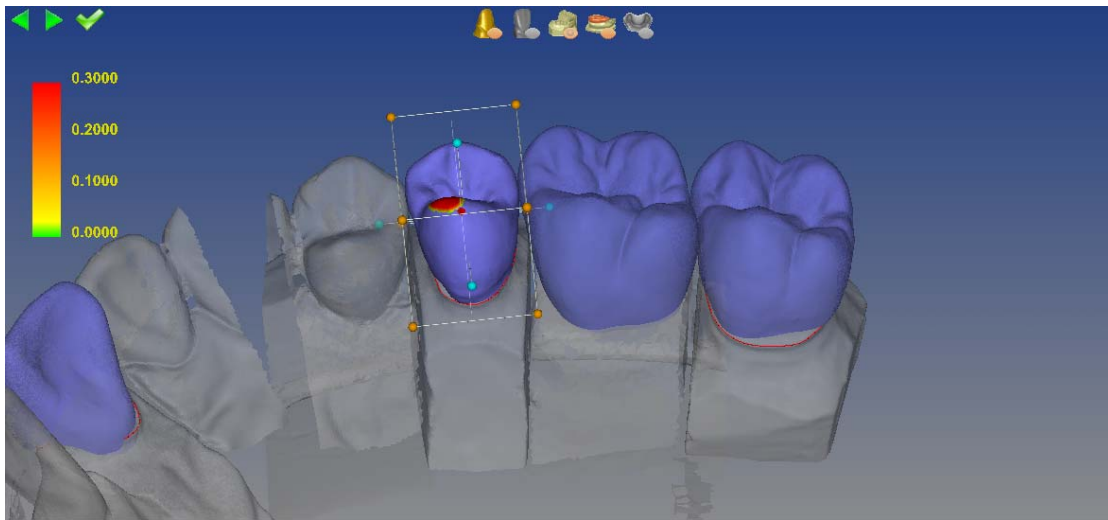


Preparation Margin

Set the optimal path of insertion as determined by you. The automatic undercut detection acts as your guide. Automatic undercut blockout is carried out.

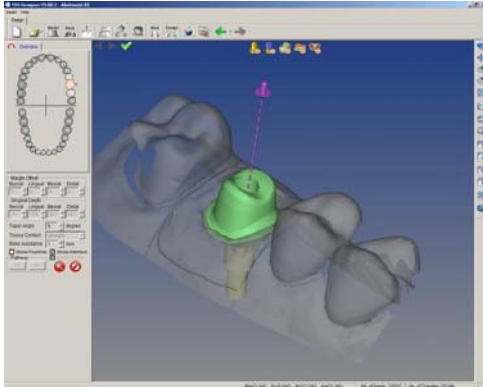
Suntech Designer - Coping and Crown

Design crown and coping morphology with easy-to-use design functions. Shape, scale and transform copings and/or crowns to the antagonist and adjacent teeth. Coping wall thickness alerts notify you when the thickness is below the required minimum. Use virtual wax knife and wax drop. Model cusp and grooves. Design crown morphology in individual quadrants. Refer to 2D cross-sections of the die, coping and crown to design for optimal aesthetics and mechanical strength.



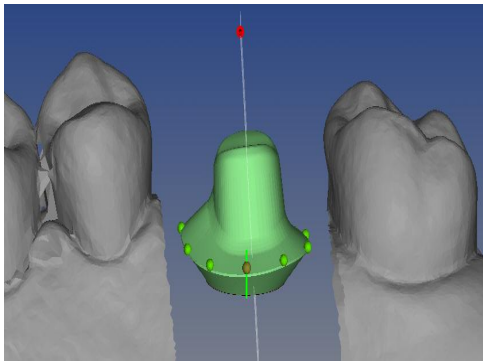
Suntech Designer Software – Custom Abutment

Various Implant Database & High Accuracy Fitting



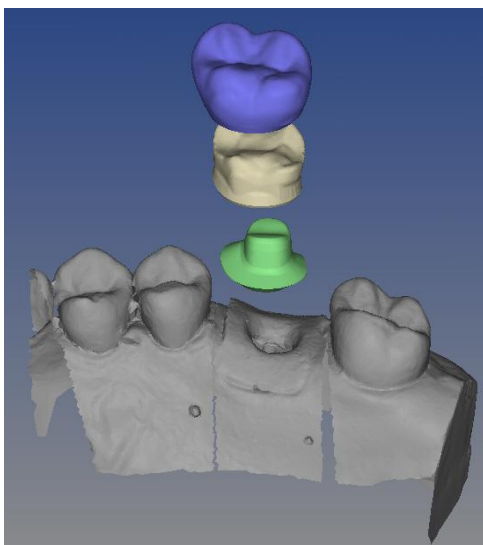
Supports a large number of implant systems

Choose the implant systems from the implant library to create custom abutments.



Adjust the Margin Line

Adjust the position and contour of the margin line so that is above or below the gumline, as desired.

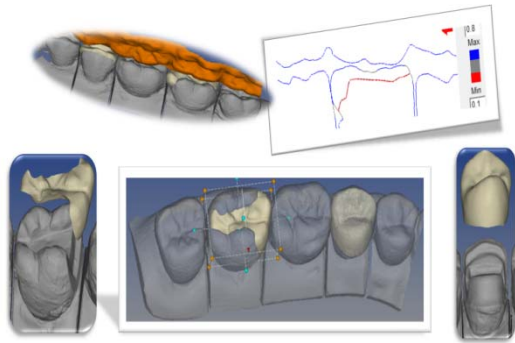


3-In-1 Design

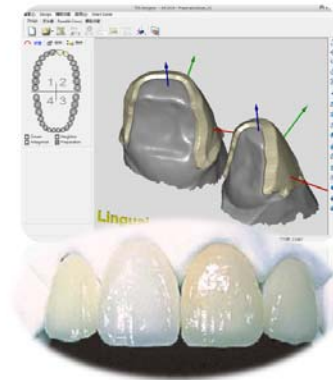
Abutment, coping and crown can be designed at the same time.

Suntech Designer Software - Inlay/ Onlay/ Veneer

High Accuracy, High Transparency, and with Natural Beauty



Inlay/Onlay



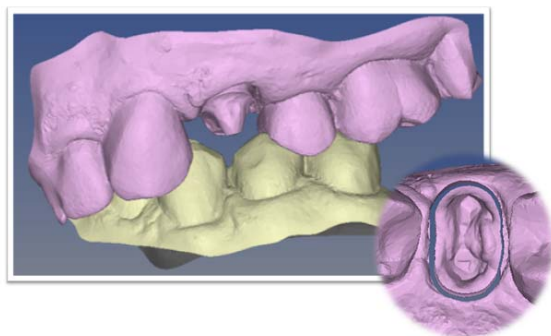
Veneers

Features

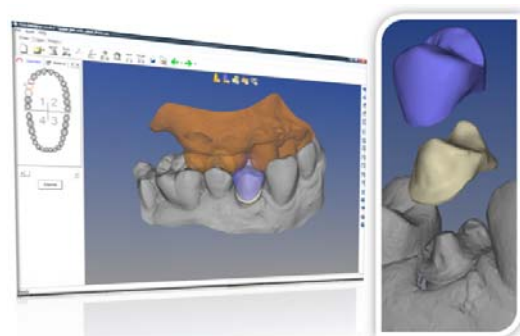
With Suntech Designer, you can import antagonist surfaces and adjacent teeth and use manual and automatic morphing functions to design inlays, onlays, and veneers. Use the e-Crown database to quickly create inlays, onlays, or veneers. View generated cross-sections to inspect your design.

Intra-Oral Scanning Data

Intra-oral scanning is becoming more and more popular with dentists because it can be used chairside. Suntech Designer has the capability to import these intra-oral scan data for e-Crown design and eventual fabrication.



iTerro scanning data



Suntech Designer Software

New

Suntech Designer – Implant Bar

Using the most up-to-date CAD/CAM technology, Suntech Designer – Implant Bar provides a full range of functions to enable you to design precision implant bars. You will have access to a library of implant systems most popular in use, giving you a wide variety of implants to choose from for your implant bars.

Scan: To ensure accuracy of teeth, denture, and implant positioning, jigs are placed in analogs and scanned.

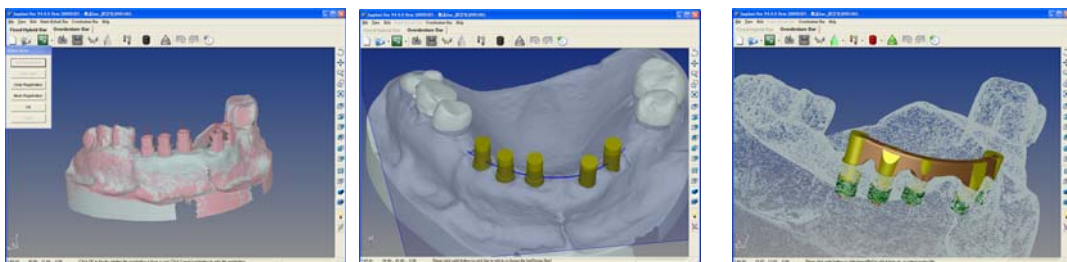


Soft tissue

Denture

Jigs

Design of implant bars in Suntech Designer – Implant Bar.

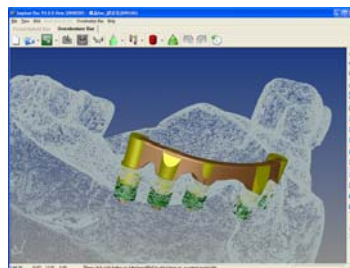


Three types implant bars can be designed in Suntech Designer –

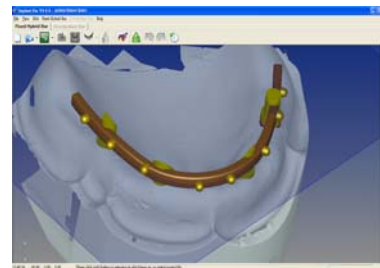
Implant Bar: overdenture hader bar, milled bar, and fixed hybrid bar.



OverDenture Hader Bar
with Attachment



Milled Bar

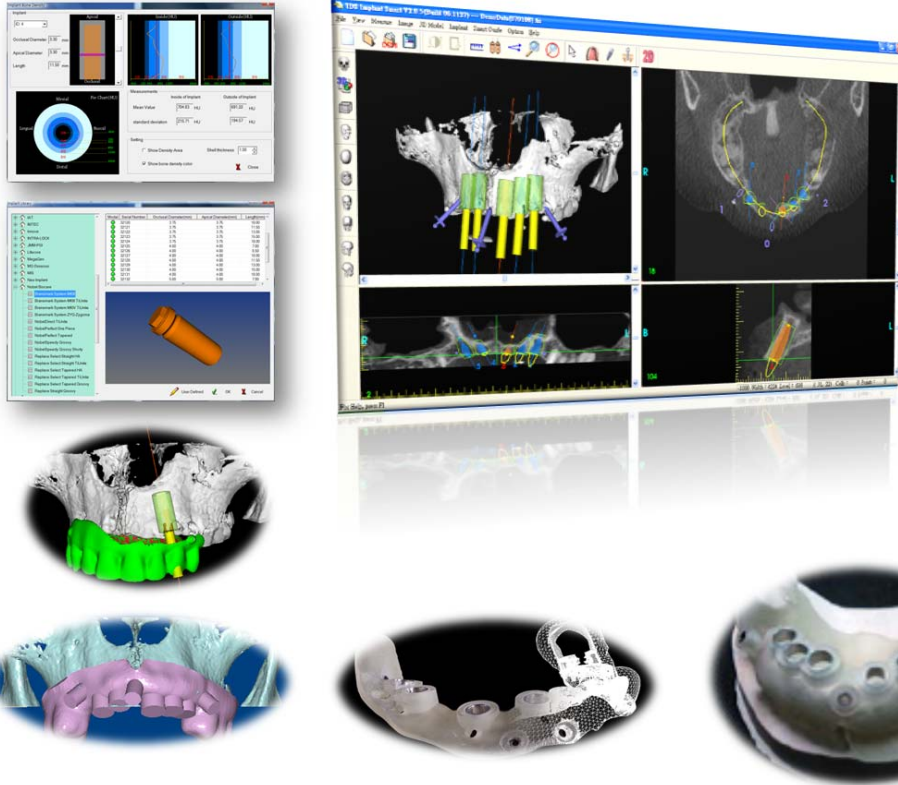


FixHybrid Bar

New

ImplantSmart & SmartGuide

Suntech ImplantSmart implant surgery planning software supports most of the current implant platforms in the dental market.



ImplantSmart enables you to perform implant surgery planning in a virtual 3D environment prior to actual surgery. You can **clearly see gingiva and teeth contours, analyze bone density, and view nerves**, allowing you to plan safely and effectively. **3D models and cross-sectional views** give you full visualization for your planning. A **rich library of commonly-used implants** provides you with flexibility. **ImplantSmart** ensures that the surgery will go as you planned, step-by-step.

Fabricated from your surgical planning data in **ImplantSmart**, **SmartGuide** is Suntech's surgical template. Its high degree of accuracy based on your planning data ensures efficient and safe surgery.

Immediate Loading

With Suntech Designer, Suntech can design and manufacture custom abutments and e-Crowns for you before surgery. You can then place restorations with the implants at the same time during implant surgery, saving yourself time and giving patient satisfaction.

Features

- 1) Safe – Accurate 3D imaging technology lets you see details, including **the alveolus, gingiva, nerves and sinus**, when you plan the surgery.
- 2) Fast – **SmartGuide** and dental restorations can be simultaneously fabricated based on your planning data, ready for use at surgery and allowing for fast surgery and implant and restoration placement.
- 3) Comfortable – **Minimally invasive surgery using SmartGuide and preplanning** reduces patient discomfort during surgery.

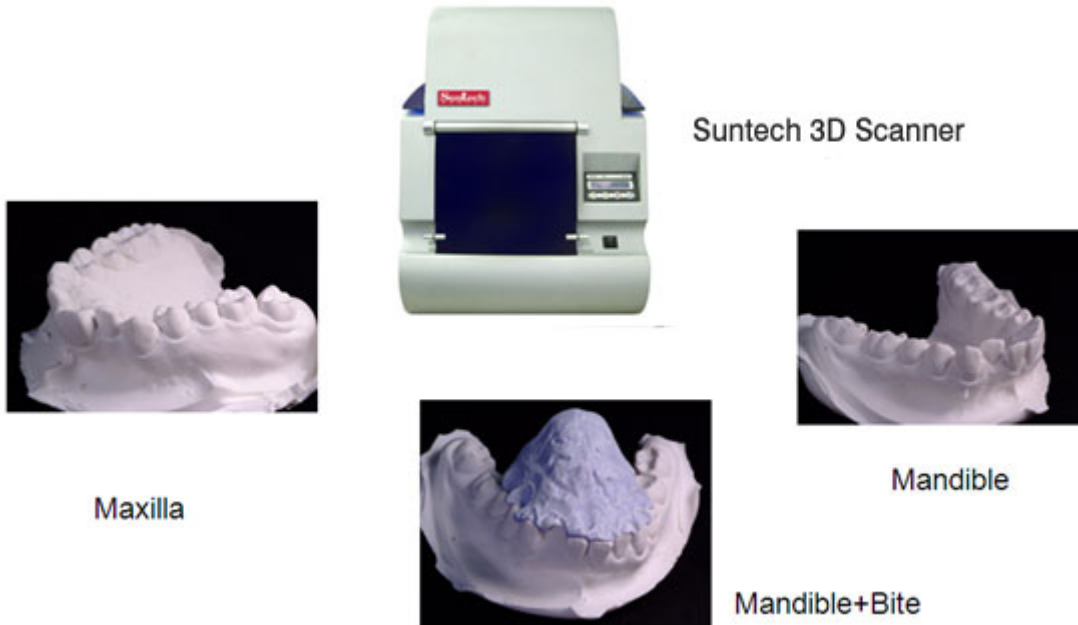
Suntech Orthodontic Software

- **Orthodontic Builder and Analyzer Software**

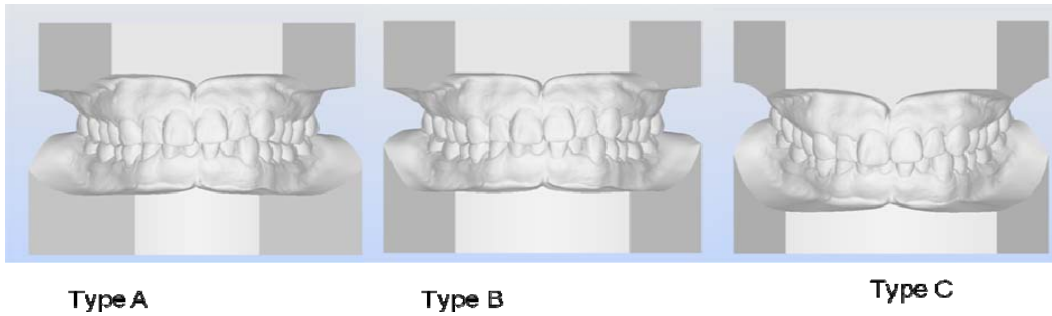
No more worries about storage space or misplacing study models. You can now create and save study models digitally using the all-in-one Suntech Scanner and the Suntech Orthodontic Builder software. Specify the parameters you want to use to create your models. Since the study models are computer generated, you can use the Suntech Orthodontic Analyzer software for treatment planning. Manual measurements of tooth or arch width using rulers or calipers are no longer necessary. You can view generated cross-sections to get better insight into treatment planning.

The Workflow of Orthodontic Builder

1. Study Model Scanning



2. Three Types of Models

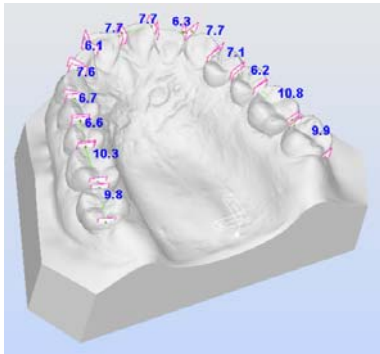


3. Machined Study Models

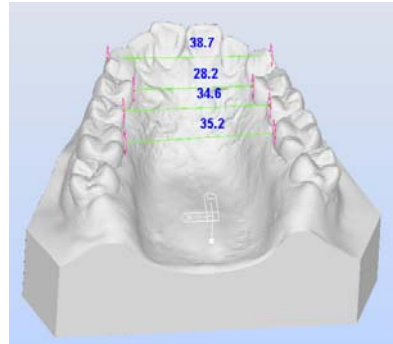


Suntech can mill or 3D print study models for you if you need physical models. These study models are made of special material that makes them non-breakable. They can be used instead of traditional plaster models, which can easily chip off or break. In addition, Suntech's 5-axis milling capability ensures that highly accurate models are fabricated.

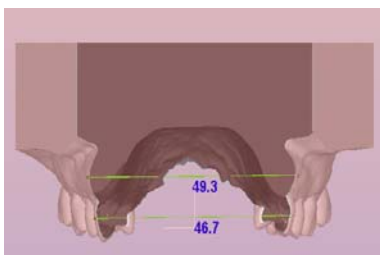
The Types of Measurement



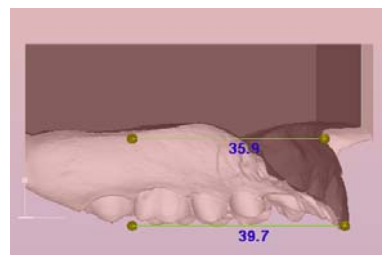
Tooth width



Arch width

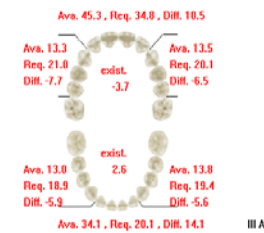
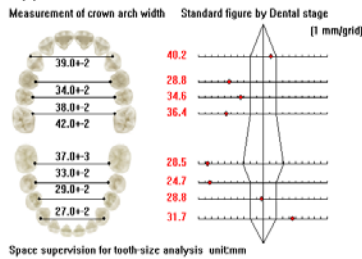


Basal Arch Width

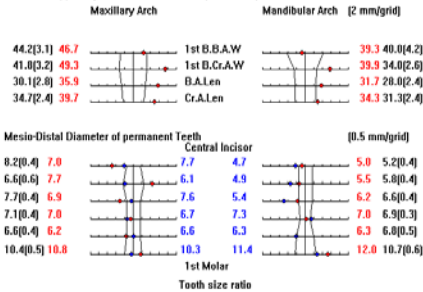


Basal Arch Length

12221 Hsu
30 Y 9 M [M]



Supporting Bone and Dental Arch (Male-Adult)



Anterior ratio = $\frac{6 \text{ lower anterior teeth}}{78.89 \pm 2.19}$ *100Pq
 $\frac{6 \text{ upper anterior teeth}}$

Over-all ratio = $\frac{12 \text{ lower teeth}}{91.37 \pm 2.10}$ *100Pq (5 mm/grid)
 $\frac{12 \text{ upper teeth}}$



Analysis Data

Measurement Chart

The analyzed data will be displayed according to the measurement methods.

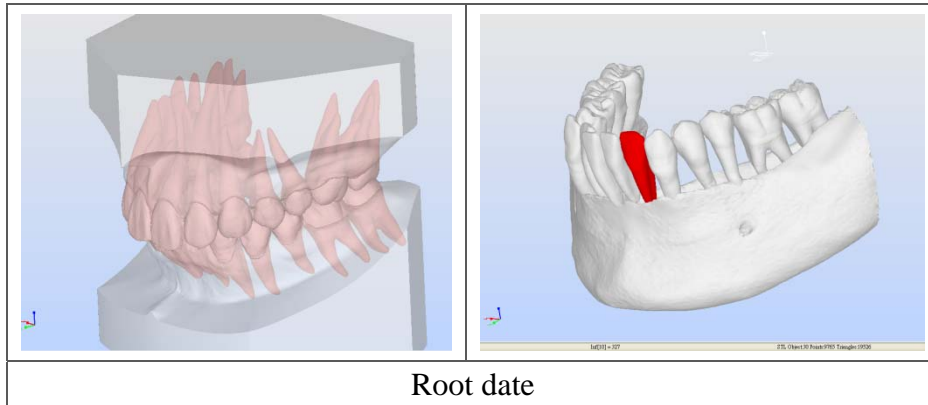


Suntech Orthodontic Software

- Orthodontic Set-up Software**

The setup information is created using root data and from CT scan. Because of the root data, the setup information in Suntech Orthodontic software is highly accurate and precise compared with the traditional setup method, which uses only teeth information.

In the near future, Suntech will introduce the next generation of virtual study models that include root information. The virtual study models will integrate scanned data and CT data and will be translucent. You can therefore see through them and visualize root information for better analysis and treatment planning.



The Workflow of Virtual Set-Up software

