PALTOP

A Keystone Dental Company

INNOVATION
AT A GLANCE

KDG
KEYSTONE DENTAL
GROUP

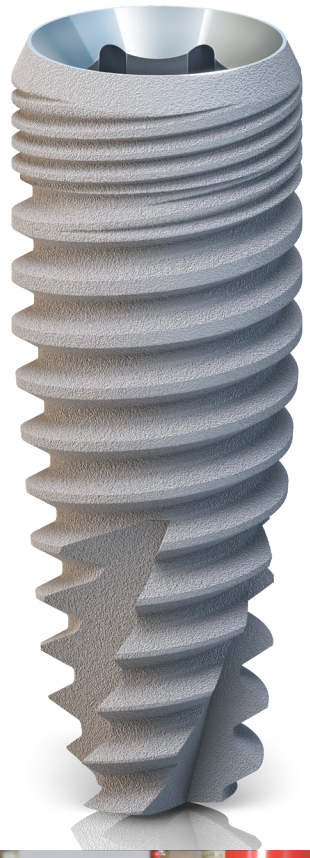
ABOUT-PALTOP

PALTOP is a premium manufacturer of dental implants that strives to provide the highest quality products in the dental arena.

Leveraging decades of collective experience and industry leadership, PALTOP established a cutting edge fully automated manufacturing facility and has become one of the world's leading companies in quality production.

Due to a merge between Paltop & Keystone Dental, the group becomes to be the largest independent dental company in North America.

PALTOP strives to lead the change in modern dentistry. We believe in constant innovation, and won't settle for anything less than excellence. In a world with many choices, PALTOP premium products and comprehensive digital solutions provide the Dentist with a complete package exceptional to the marketplace.



MAIN STRENGTHS OF THE PALTOP SYSTEM:

- Better esthetic results due to fully concave emergence profile and one abutment - one time solutions for reduced tissue trauma
- Paltop developed comprehensive solutions in digital dentistry and today Paltop assists dentists worldwide in individual digital treatment workflows via its unique platform
- Reduced bone loss due to a combination of an extremely clean surface and protective titanium package
- User friendly surgical kits provide simplicity and comfort during the surgical treatment
- Immediate placement and loading due to unique implant design that combines the advantages of the traditional passive implants with the advantages of active implants, along with tailor made step drills and final drills creating an accurate implant-shaped osteotomy

KLEAN

Ultra-Pure Surface Technology

Rough Surfaces

PALTOP's meticulous surface morphology is created by two sequential stages: sand blasting, aimed at creating crater shaped microgrooves, followed by acid etching intended to generate nano crater shaped structures.

Clean Surfaces

PALTOP's extensive multi-stage cleaning process removes undesired residues derived from manufacturing, yielding a contamination-free surface.

Superior Raw Material

PALTOP Dental Implants:

- Made of biocompatible alloy Ti6Al-4V ELI.
- Superior to pure titanium in mechanical properties.
- Purchased from leading American suppliers.

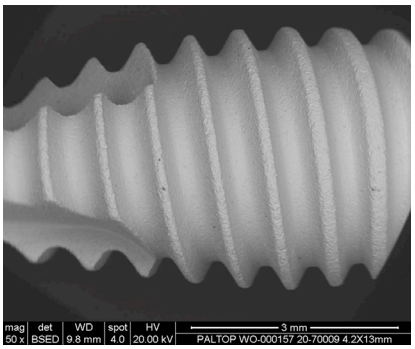
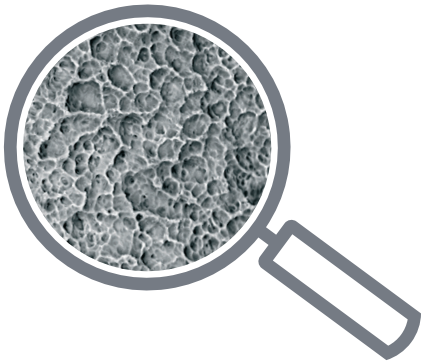


Figure 1.1
PALTOP dental implant surface morphology as visualized using SEM Technology



EXCERPT OF THE FINAL REPORT OF THE BDIZ EDI IMPLANT STUDY

"PALTOP has decided to consistently clean their products with ultra-pure water (UPW), which is rather expensive to produce compared to regular demineralized water and is otherwise mostly employed by the semiconductor industry. XPS analyses of the implant surface thus cleaned show no traces of sulphur, silicon, zinc or chlorine, inorganic impurities not infrequently found in the XPS analyses of the sandblasted and acid-etched surfaces of implants by other manufacturers investigated in 2014. The corresponding EDX analysis shows only the typical elements for grade 5 titanium..."

PACKAGED FOR CONVENIENCE AND STERILITY

PALTOP dental implants are delivered in uniquely designed protective packaging. In this superior quality packaging, the implant comes into contact only with titanium.

- All Paltop's components implant abutments are delivered sterile and ready for use
- Compact for easy storage in dental clinic
- Effective performance for easy of handling and use

Advanced Implant Line Packaging

Sterile Prosthetic Components Packaging

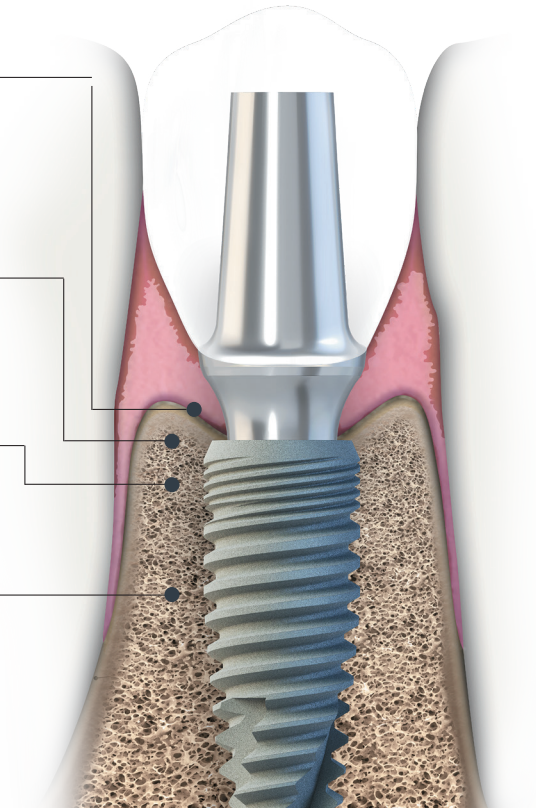
ADVANCED

Biological Design

ENGINEERED TO PRESERVE BONE!

OPTIMIZING BONE PRESERVATION

- **CONCAVE EMERGENCE PROFILE**
  Transgingival design with polished surface supports a stable bone interface
- **PLATFORM SWITCHING**
  Creates space for biologic width development
- **MICROTHREADS**
  Reduces the stress on the cortical bone and increases the surface area
- **ULTRA-PURE SURFACE TREATMENT**
  Clean and free from bacteria and chemical residue
  Maintains an intact oxide layer



EXCERPT OF THE FINAL REPORT OF THE COMPENDIUM IMPLANT STUDY

> The finding of bone improvement following restoration is an unusual, unexpected phenomenon, and it is postulated that the design, manufacturing processes, high surface purity, machining tolerances, transgingival abutment design, and platform switching with an etched shoulder contributed to this phenomenon of bone improvement following restoration

> Bone improvement was identified 30% of the time, bone maintenance 62% of the time, and bone decrease 8% of the time. Bone decrease range from 0.1 mm to 1 mm

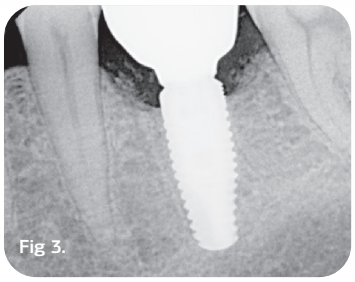


Fig 3.

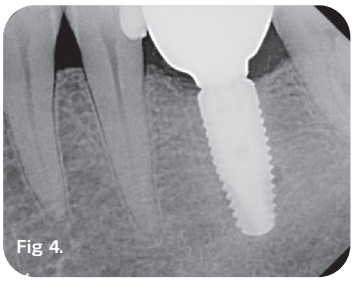


Fig 4.

Fig 3. Radiograph at final restoration insertion appeared as if there was crestal bone loss.

Fig 4. Radiograph taken 2 years 3 months after restoration

SEVEN IMPLANT LINES


ADVANCED CLASSIC | ADVANCED+ SLIGHTLY ACTIVE APEX

3rd generation design. Where the traditional passive and the modern aggressive approaches meet. The Advanced Classic and Advanced + implants incorporate crestal micro-threads for stress distribution, parallel walled midsection for minimum stress to the bone. The Advanced Classic implant has a tapered rounded apex for safe insertion into the bone. The Advanced+ implant has a slightly active apex with certain capabilities for implant adjustment and self drilling.

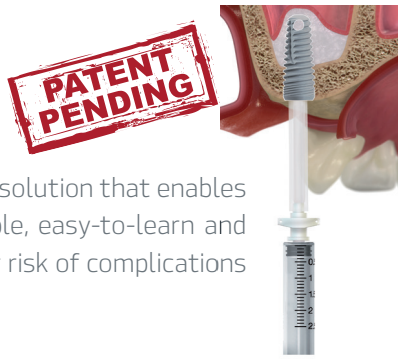
ENHANCED STABILITY Dynamic

A more aggressive thread design for increased initial stability in cases such as extraction sites. The Dynamic Implant has a crestal micro-thread with a parallel walled midsection, more aggressive threads in the apical section and an active apex that allows for enhanced bone engagement for indications such as immediate extraction sockets and immediate loading.


PAI PALTOP ACTIVE IMPLANT | PAI TC PALTOP ACTIVE IMPLANT

An aggressive thread design for undersize drilling and insertion maneuverability.
A double lead thread design with an optimal 1.2 pitch for fast implant insertion, allowing for more aggressive bone engagement for indications such as immediate extraction sockets, poor bone quality, and immediate loading. Paltop Active Implant is available with a machined neck or with total surface treatment coverage.

DIVA By PALTOP



Closed Sinus Lift Technology.
A new sinus lift technology, delivers an innovative solution that enables sinus lift implants to be carried out using a simple, easy-to-learn and relatively short procedure, with significantly lower risk of complications and patient discomfort.

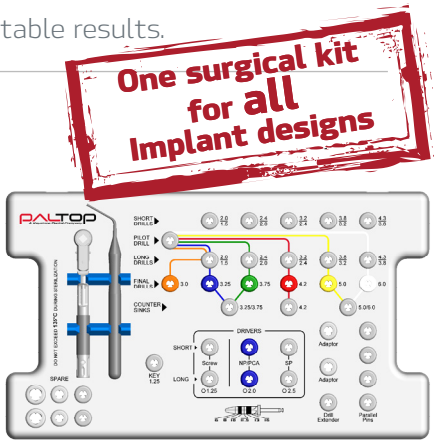
PCA PALTOP CONICAL ACTIVE

The 'Advanced +' Design with a conical connection. The PALTOP Conical Implant has the body of the Advanced + implant with a conical connection design for ideal sealing and for wider platform shifting.

SIMPLICITY

Chain of simplicity

In the world of rapidly advancing technologies, it becomes increasingly harder to maintain simple procedures. PALTOP invests time and effort to make procedures as simple as possible, saving time and money for the dentist and offering reliable predictable results.

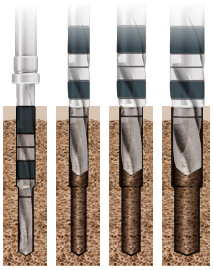


Drilling Procedure

PALTOP's surgical kit is optimally organized for ease-of-use and functionality. Color-coded pathways lead the doctor through the surgical protocol. Drill Stop Kit simplifies drilling process by saving valuable chair time. It enables drilling to the exact desired depth with safety and confidence.

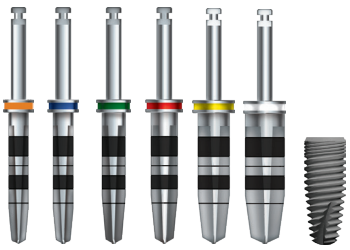
Step Drills *

PALTOP Step Drills, are uniquely designed in such a matter so that each drill leads the following drill for fast and accurate drilling.
The special step drill mechanism reduces vibrations and chattering and serves as a pilot surgical guide.



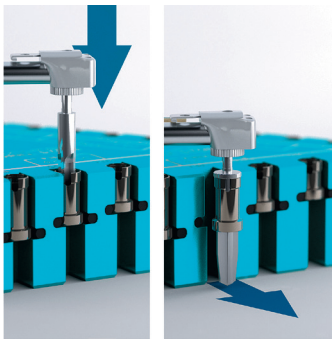
Final Drills *

Specially designed drills to suit the exact implant profile.
PALTOP drills have a special matte finish that does not reflect light, enabling clear visibility of the markings on the drill.



Drill Stop Kit

The Paltop Drill Stop Kit is designed to simplify the drilling process. It enables the doctor to drill the exact desired depth with safety and confidence. The Drill Stop Kit is designed uniquely for extreme ease of use.



* All drills are custom made for Paltop and manufactured by Komet, Germany

ESTHETICS

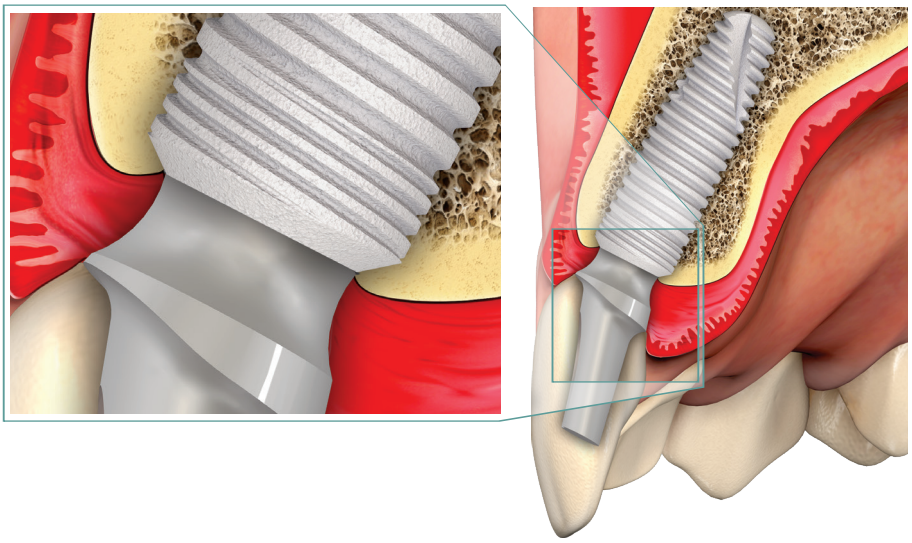
Concave

HIGH ESTHETICS

The unique concave design enables the mucosal tissue to form a dense layer surrounding the transgingival connection. This results in reduced tissue transparency and reduced metal visibility of the abutment.

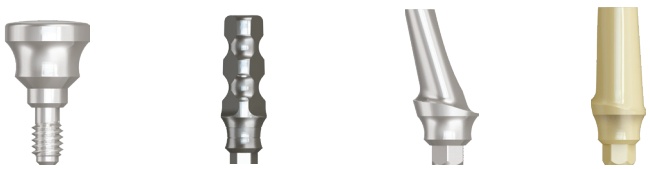
ENHANCED GINGIVAL HEALING

This innovative design creates an optimal emergence profile, enabling replacement of temporary prosthetics with fixed prosthetics without harming the newly formed tissue structure. This reduces the trauma to the implantation site and accelerates the healing process.



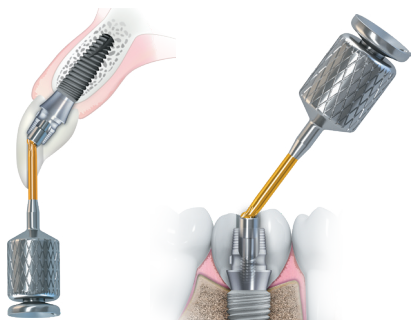
CONCAVE FROM BEGINNING TO END

PALTOP offers prefabricated aesthetically designed parts suitable for all restorative applications-all teeth positions and for all treatment stages, including the healing period, impression taking, PEEK provisionals, and final solutions. Components have an identical concave profile, allowing the replacement of components according to the treatment stage.



Angulation Corrective System (ACS)

ACS abutments are for precision-manufactured CAD/CAM screw-retained restorations where angulation of the screw access hole is required for improved aesthetics and/or function. The ACS offers the dental technician control over the desired position of the screw access hole.



DIGITAL-TECHNOLOGIES

Gateway to the future

PALTOP offers a broad range of solutions for the complete digital workflow for the Doctor and Laboratory, including surgical and restorative digital applications. PALTOP's digital treatment workflow enables Doctors to perform simple, safe and accurate pre-planned surgical and restorative procedures utilizing cutting-edge technology.

Broad Range of Digital Libraries

3shape | exocad DIGITAL LIBRARY | exoplan | Blue Sky Plan®

dental wings | AMANNGIRRBACH | Zirkonzahn DIGITAL LIBRARY | NT digital implant technology

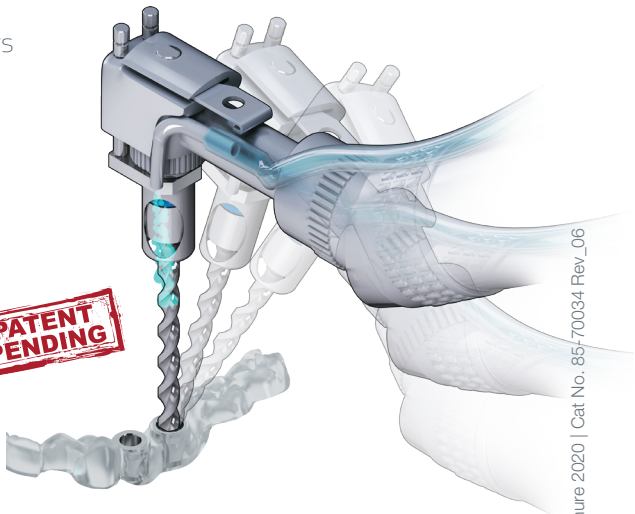
UNIQUE FULLY GUIDED SURGICAL SYSTEM

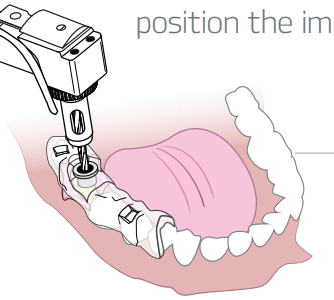
- Continuous direct irrigation on the drill
- Significantly less inter-arch space needed
- Use 1 hand, not 2
- No implant drill guide keys/ spoons required
- No direct contact of drilling flutes to sleeves-no metal shavings-drills last longer
- Guide sleeves in two diameters for ideal implant spacing
- Three drill lengths with fewer drills in the surgical kit
- One kit manages all PALTOP implant lines
- Covers implant lengths 6mm - 16mm
- Covers implant diameters 3mm - 5mm

THE PALTOP INNOVATIVE CONCEPT:

CONTRA ANGLE BASED GUIDANCE

The PALTOP unique Digital Guidance Sleeve (DGS) guides the contra angle through the surgical guide to accurately position the implant drills offering direct irrigation.





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