HI-TEC IMPLANTS™

TRX™ Surgical Kit & Prosthetics

Immediate Loading - Trans Gingival Implants

TRX™ 2.8 & 3.7mm Prosthetics

X-IL - Analog for TRX

X-AAT - Closed Tray Impression Coping for TRX

X-AAT-L - Open Tray Impression Coping for TRX

X-HC - Healing Cap for TRX

X-HPC - Anti-Rotational Plastic Cylinder for Screw Retained Work

X-HPB - Anti-Rotational Castable Sleeve for X-SCA

X-CPC - Conical Plastic Cylinder or Screw Retained Work

X-CPB - Rotatable Castable Sleeve for X-SCA

X-SCA - Screw Retained Abutment for TRX

X-BBA - Ball Attachment for TRX

X-FS - Fixation Screw for X-CPC, X-HPC

MH - Metal Housing for Hi-Tec™ Ball Attachments

NC-CLEAR - Extra Light Retention Nylon Cap for MH

NC-PINK - Light Retention Nylon Cap for MH

NC-ORANGE - Medium Retention Nylon Cap for MH

NC-GREEN - High Retention Nylon Cap for MH

TRX-2.8 TRX-3.7

TRX™ Implant Sizes

DIAMETER	LENGTH	SKU
2.8mm	10mm	TRX-2.8-10
2.8mm	13mm	TRX-2.8-13
3.7mm	10mm	TRX-3.7-10
3.7mm	13mm	TRX-3.7-13

Surgical Kit

Prosthetic Drivers

L-1.25 - Long Prosthetic Driver for Handpiece

S-1.25 - Short Prosthetic Driver for Handpiece

SHT-S - Short Prosthetic Driver for Ratchet

SHT-L - Long Prosthetic Driver for Ratchet

DENT-1.25 - Handheld Prosthetic Driver

Burs & Drills

RB - 2.0mm Round Bur

NX-LD-20T - 2.0mm Lindeman Bur

NX-TLD-20T - 2.0 mm Lance Drill

PD200L16C - 2.0mm Carbide Implant Drill

TD220L16C - 2.2mm Carbide Implant Drill

TD250L16C - 2.5mm Carbide Implant Drill

TD280L16C - 2.8mm Carbide Implant Drill

TD320L16C - 3.2mm Carbide Implant Drill

Implant Drivers

XTL - Short Implant Driver for TRX

Ratchets & Attachments

DL - Drill Extension

RAD - Hex to Square Adapter

HR - Hex Ratchet

HR-S - Square Ratchet

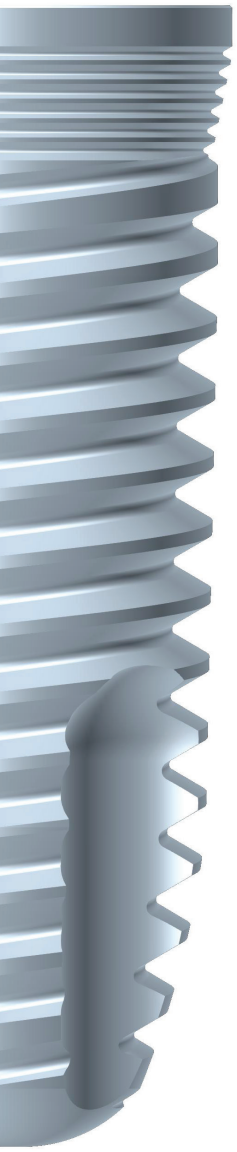
HR-TW - Hex Torque Wrench

PT - Paralleling Tool

Cassette

MISK - Mini Implant Surgical Kit

HI-TEC IMPLANTS™



Integrated Surface™ Characteristics

Hi-Tec Implant's™ Integrated Surface™ is an SLA macro/micro implant surface, which is applied to the implant by large grit blasting, followed by a process of acid treatments. This results in a porous osseo-conductive surface that is an ideal platform for cell attachment. This process increases implant to bone contact and facilitates bone formation and superior osseo-integration.

Macro Surface

A macro surface is achieved by blasting the implant with 60 micron large grit particles that create pores 10-30 microns wide. The topography of the surface is 10 microns from peak to valley. This significantly increases the implant surface area and the retention on the implant. The macro pores contribute to initial stability, shortened healing time, and provide ultimate load bearing capacity.

Micro Surface

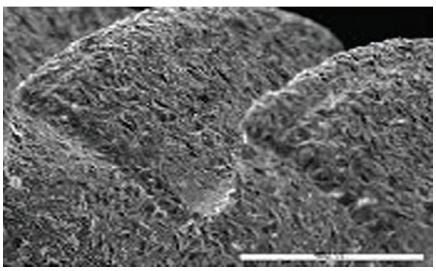
The micro-texture is created by chemical processes and is characterized by micro grooves of 0.503 microns. The micro voids are osseo-conductive and facilitate bone formation for faster osseo-integration and mechanical interlock between the bone and the implant.

Surface Composition

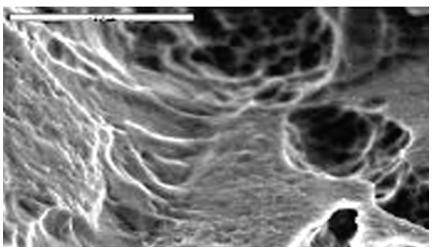
Surface composition analyzed by scanning electron microscopy presents a titanium oxide surface layer with a composition of 50% oxygen at the surface. Auger Spectron spectroscopy demonstrates that the depth of the titanium oxide layer is 200 angstroms.

Predictable Performance

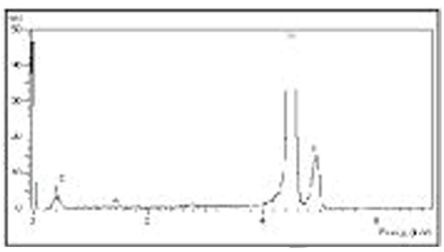
SLA technology has a long history of proven effectiveness as one of the most documented surfaces in dental technology. Hi-Tec Implant's™ Integrated Surface™ has extensive healing potential, which results in accelerated osseo-integration. This makes the healing process more predictable for both you and your patient.



SEM SCANNING ELECTRON MICROSCOPE x 100



SEM SCANNING ELECTRON MICROSCOPE x 5000



SURFACE COMPOSITION BY SEM

HI-TEC IMPLANTS™

Hi-Tec Implants™ meets and exceeds the highest standards in the field of medical devices: the main approvals, besides many others, are:

FDA APPROVAL: Center for Devices and Radiological Health in the US FDA (Food and Drug Administration) Since 1994.

CE MARK – After demonstrating compliance with Annex II of Medical Devices Directive 93/42/EEC, entitles us to use CE Marketing on our products.

ISO 13485: 2003 – An international standard for quality management of medical devices, Hi-Tec Implants LTD™ meets the requirements of ISO 13485 : 2003 for the design, manufacturing and inspection of dental implants and accessories.

ISO 9001: 2000 – Certifies that Hi-Tec Implants LTD™ demonstrates compliance of our quality system to meet the requirements of ISO 9001: 2000 (an international standard for quality management system).

Health Canada Medical Device License and CMDCAS ISO 13485: 2003 Accredited Since 2005.