



SOUTHERNIMPLANTS

EXPANDING PROVEN CONCEPTS

Dear Customers and Colleagues

Today, Dental Implants have become an indispensable part of Dental treatment options. With the globalization of medical infrastructures and higher standards of living, implant applications have rapidly become common.

Southern Implants has been a manufacturer and distributor of Dental Implants since 1987. Today, the Southern group is recognized as a leading bio-medical engineering entity, with major intellectual property and capabilities in implantable devices, arthroplasties, tissue regeneration, stem cells and cryoscience. The top-end professional users, who want more choices, have driven the product range expansion to enormous and exciting heights. Striving for excellence and meeting customer needs has led to our wide product range characterized by numerous unique and innovative products which include:

- 3 interfaces: External hex, Internal Morse taper/octagon, and Tri-nex.
- Many products optimized for primary stability and suited for immediate loading.
- The only angled-top tapered screw-form 12° and 24° Co-Axis implant.
- Implant lengths from 6mm to 20mm and diameters from 2.90mm to 10mm.
- A surface which continues to out-perform that which it is trialed against.
- Color-coded components for easy part recognition.
- 55° Zygomatic implant, optimized for load distribution.
- Compatibility with major brands, giving the patient more options.
- The MAX, wide diameter implant for molar teeth replacement.

Striving for excellence is synonymous with the search to improve. At Southern the development starts with computer simulation and Finite Element Modeling. This is followed by extensive laboratory trials and testing. Finally, clinical research has taken on a new dimension in our overall strategy where our preference is for independent RCTs.

Our sincere thanks to all specialists, dentists and technicians who give continual feedback, suggestions and input. The products here are our interpretation of your needs.

Yours sincerely




Graham Blackbeard
Managing Director
Southern Implants

Why Southern Implants?

Southern Implants was established in 1987 as a manufacturer and distributor of dental implants. At this time the science on a worldwide basis was still in its infancy. Southern implants has been a pioneer in this field for the last 21 years and has contributed extensively to enhancements with respects to the osseointegration of implant devices, surgical techniques, patient education and options of treatment.

The company is focused on the top-end specialist sector of the implant market. The product range is constantly being expanded to incorporate the newest technologies and trends. Where many of our competitors are rationalizing their product range, Southern is offering more choices.

The implants are made from ASTM-F67-95 Grade 4 pure titanium, with a tensile strength of 550 MPa. The surface is enhanced with abrasion and chemical conditioning. The surface has been proven by way of extensive animal and clinical trials and has been in use for more than 15 years.

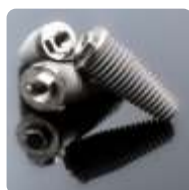
Southern Implants is not only the leading implant company in Southern Africa, but is a significant role player in the USA, the UK, Europe and Australasia. Manufacturing plants are situated in Irene, South Africa and Irvine, California. Each Plant produces 60 000 implants per annum.












Content

Introduction and Welcoming Letter.....	Inside Front Cover
Blade Drivers Hex 0.9mm Instruments.....	Page 02
Hex 1.22mm Instruments Hex 1.27mm Instruments.....	Page 03
Hex 1.58mm Instruments DBN Hex 2.5mm Instruments TORX no. 6 Instruments.....	Page 04
Uni Grip Instruments Square / Quad Instruments.....	Page 05
Abutments OAB Instruments IT Placement Tools.....	Page 06
Internal Drive - External Hex Instruments Tri-nex Placement Tools.....	Page 07
Osteotomes Laboratory Instruments Additional Instruments.....	Page 08
Wrenches Additional Surgical Instruments.....	Page 09
Bone Mills Direction Indicators Screw Removers.....	Page 10
Externally Hexed Instrument Tray General Prosthetic Tray.....	Page 11
Tri-nex Instrument Tray IT Instrument Tray.....	Page 12
MAX Instrument Tray Surgical Drill Tray.....	Page 13
Upright Externally Hexed Tray Upright Tri-Nex Tray.....	Page 14
Upright IT Surgical Tray Zygomatic Instrument Tray.....	Page 15
Cleaning & Sterilizing Procedures.....	Page 16
Certificates Complimentary Manuals & Instructions Labeling Symbols.....	Inside Back Cover
Contact Details (Local and International).....	Back Cover

www.southernimplants.com



BLADE DRIVERS

Handheld	Handpiece Bit			Wrench Bit				
<div>I-BD-S</div> <div></div> <div>Short</div>	<div>I-BD-M</div> <div></div> <div>Medium</div>	<div>I-BD-L</div> <div></div> <div>Long</div>	<div>I-HBDS</div> <div></div> <div>Short</div>	<div>I-HBDM</div> <div></div> <div>Medium</div>	<div>I-HBDL</div> <div></div> <div>Long</div>	<div>I-WI-BS</div> <div></div> <div>Short</div>	<div>I-WI-BM</div> <div></div> <div>Medium</div>	<div>I-WI-BL</div> <div></div> <div>Long</div>

Handheld Long Handle

I-BD-LH



Use with: All slotted screws, excluding M1.4 Screw of Swedish origin (see Wrench Blades to the right).

Warning: Ensure that the blade is correctly fitted in the slot. If the tool is put into the slot at an angle, excessive force is put on small areas of the tool as only a small area of the tool is actually driving the screw, and hence breakage is more likely.

Wrench Blade





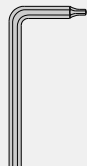
I-WI-BSN

I-WI-BLN



Suitable for tightening small M1.4 prosthetic screw of Swedish origin

HEX 0.9mm

Handheld	Handpiece Bit	Wrench Bit
<div>I-CS-HD</div> 	<div>I-HHD-09</div> 	<div>I-WI-09</div> 
<div>I-CS-HDL</div> 		
<div>I-KEY-09</div> 		





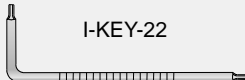






Handheld Long Handle

I-CS-LH



Use with: Coverscrews for the Externally Hexed range.

HEX 1.22mm

Handheld	Handpiece Bit	Wrench Bit
<div> <div>I-HD-S</div>  <div>Short</div> </div> <div> <div>I-HD-M</div>  <div>Medium</div> </div> <div> <div>I-HD-L</div>  <div>Long</div> </div> <div> <div>I-HDT-M</div>  <div>Tapered</div> </div> <div> <div>I-KEY-22</div>  </div>	<div> <div>I-HHD-22S</div>  <div>Short</div> </div> <div> <div>I-HHD-22M</div>  <div>Medium</div> </div> <div> <div>I-HHD-22L</div>  <div>Long</div> </div>	<div> <div>I-WI-22S</div>  <div>Short</div> </div> <div> <div>I-WI-22M</div>  <div>Medium</div> </div> <div> <div>I-WI-22L</div>  <div>Long</div> </div>



Handheld Long Handle

I-HD-LH



Use with: Externally Hexed Range: One-part Healing Abutments, Two-part Healing Abutments, Impression Copings, Ball Abutments, Hex Screws and Fixture Mounts.

HEX 1.27mm

Handheld	Handpiece Bit	Wrench Bit
<div> <div>I-HD-27-M</div>  <div>Medium</div> </div> <div> <div>I-HD-27-L</div>  <div>Long</div> </div> <div> <div>I-KEY-27</div>  </div>	<div> <div>I-HHD-27</div>  </div>	<div> <div>I-WI-27</div>  </div>






Use with: American Hexed Screws. Dentsply, Steri-Oss, Calcitek.

HEX 1.58mm

Handheld	Handpiece Bit	Wrench Bit
<p>I-KEY-58</p> 	<p>I-HHD-58</p> 	<p>I-WI-58</p> 










Use with: LIC Implants. ILBB, ILSS, ILS and ILT.

DBN HEX 2.5mm

Handheld	Handpiece Bit	Wrench Bit
<p>I-DBN</p> 	<p>I-HDBN-S I-HDBN</p>  <p>Short</p> 	<p>I-WI-DBN-S I-WI-DBN</p>  <p>Short</p> 










Use with: Sprint Implant Range

TORX No6

Handheld	Handpiece Bit	Wrench Bit
<p>I-SCS-S I-SCS-M I-SCS-L</p>  <p>Short</p>  <p>Medium</p>  <p>Long</p>	<p>I-HSCS-S I-HSCS-M I-HSCS-L</p>  <p>Short</p>  <p>Medium</p>  <p>Long</p>	<p>I-WI-SCS-S I-WI-SCS-M I-WI-SCS-L</p>   

Use with: IT Range Implants

Warning: The short SCS instruments can not be used with the octagon abutments due to the short shank.










Handheld	Handpiece Bit			Wrench Bit				
I-UGI-S	I-UGI-M	I-UGI-L	I-HUG-S	I-HUG-M	I-HUG-L	I-WI-UG-S	I-WI-UG-M	I-WI-UG-L
								
Short	Medium	Long	Short	Medium	Long	Short	Medium	Long

Handheld Long Handle

I-UD-LH



Use with: These instruments are used with Tri-nex Coverscrews, Healing Abutments, Overdenture Ball Abutments and Unigrip prosthetic screws

Handheld			Handpiece Bit			Wrench Bit		
I-QDI-S	I-QDI-M	I-QDI-L	I-HQD-S	I-HQD-M	I-HQD-L	I-WI-QS	I-WI-QM	I-WI-QL
								
Short	Medium	Long	Short	Medium	Long	Short	Medium	Long




Handheld Long Handle


I-QD-LH



Use with: Quad / Square type screws.

Abutments

Handheld	Handpiece Bit	Wrench Bit
<p>I-AD</p> 	<p>I-HAD</p> 	<p>I-WI-A</p> 

Handheld Long Handle
<p>I-AD-LH</p> 






Use with: Standard Abutments, Conical Abutments and Compact Conical Abutments.

OAB







Handheld	Handpiece Bit	Wrench Bit
<p>I-OAB I-OAB-H</p>  <p>Slot</p>  <p>Hex</p>		<p>I-WI-OAB I-WI-C-S</p>  <p>Slot</p>  <p>Hex</p>

Use with: OAB Abutments and Overdenture Abutments


















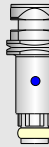

IT Placement Tools

Peek Bit (Spare)	Handpiece Bit	Wrench Bit
<p>I-PBIT-2</p>  <p>Use with IT Placement Tools</p>	<p>I-HITS-S I-HITS</p>  <p>Short</p> 	<p>I-WI-ITS-S I-WI-ITS</p>  <p>Short</p> 

Use with: IT Range Implants












Peek Bit <i>(Spare)</i>	Handpiece Bit	Wrench Bit
<p>I-PBIT-H</p>  <p>Use with Internal Drive Tools</p>	<p>I-HID-S I-HID-M I-HID-L</p>  <p>Short</p>  <p>Medium</p>  <p>Long</p>	<p>I-WIID-S I-WIID-L</p>  <p>Short</p>  <p>Long</p>

Use with: Internal Drive Implants.

Handpiece Bit														
I-HLH-35M	I-HLH-35S	I-HLH-43M	I-HLH-43S	I-HLH-50M	I-HLH-50S	I-HLH-60M	I-HLH-60S	I-L43-12d	I-L50-12d					
														
									Use with Tri-nex Co-Axis					
Peek Bits <i>(Spare)</i>														
I-PBIT-L18					I-PBIT-L2									
														
Use with Ø3.5 Placement Tools					Use with Ø4.3, Ø5.0 & Ø6.0 Placement Tools									
Converters			Wrench Bit											
I-WI-C-S			I-WIL-35S		I-WIL-35M		I-WIL-43S		I-WIL-43M		I-WIL-50S		I-WIL-50M	
														
Used to convert the Handpiece Bits to be used with a wrench.														










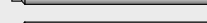








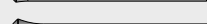
Use with: Tri-nex Implant Range.

Osteotomes

Hammer	Osteotomes									
I-HAMMER	I-OST-2P	I-OST-2C	I-OST-SU1	I-OST-3P	I-OST-3C	I-OST-SU2	I-OST-4P	I-OST-4C	I-OST-5P	I-FSD
										

Use with: Maxillary implant site preparation and ridge expansion.

Lab Instruments

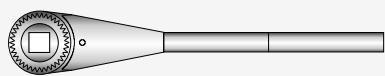
Lapping Tool	Reamers	Polishing Caps	Also available in Short (S)
I-LT6	<div> <div>LT18-2.4</div>  <div>Ø2.4 Use with 3 series screws</div> </div> <div> <div>LT18-2.6</div>  <div>Ø2.6 Use with Tri-Nex screws</div> </div> <div> <div>LT18-2.8</div>  <div>Ø2.8 Use with 2 series screws & Tri-Nex Passive Screws</div> </div>	<div>  PPC-IBN-1 Use with IBN Implants </div> <div>  PPC-IB-1 Use with IB Implants </div> <div>  PPC-BA-1 Use with BA Implants </div> <div>  PPC-BBB-1 Use with BBB Implants </div> <div>  PPC-35 Use with Ø3.5 Tri-nex Implants </div> <div>  PPC-43 Use with Ø4.3 Tri-nex Implants </div> <div>  PPC-50 Use with Ø5.0 Tri-nex Implants </div> <div>  PPC-60 Use with Ø6.0 Tri-nex Implants </div> <div>  PPC-AB-1 Use with AB type Abutments </div> <div>  PPC-AWB-1 Use with AWB type Abutments </div> <div>  PPC-EB-1 Use with EB type Abutments </div> <div>  PPC-EBA-1 Use with EBA type Abutments </div> <div>  PPC-MC-1 Use with AMC type Abutments </div> <div>  PPC-MCW-1 Use with AMCW type Abutments </div> <div>  PPC-ITS Use with Ø6.0 Tri-nex Implants </div> <div>  PPC-ITS6 Use with Ø6.0 Tri-nex Implants </div>	

Additional

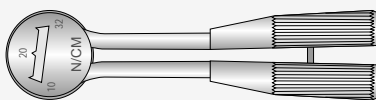
Hand piece to Wrench Insert Converter	Driver for ITS Solid Abutment	Hand Tool for Angled Abutment
I-WI-C-S	I-WI-SA	I-1.4H
		

Wrenches

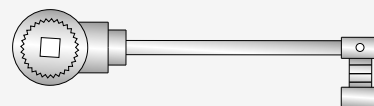
I-RATCHET-2



I-TW



I-TW-45



Use with: Wrench bits.

Drill Extensions

I-DE

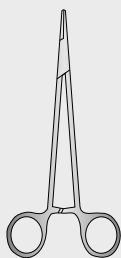


I-DE-MN



Additional Surgical Instruments

I-CLAMP



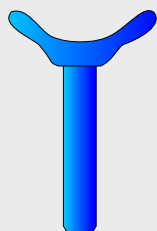
Abutment Clamp
Used for handling
Abutments.
Stainless Steel.

I-NEEDLE



Needle for
cleaning taps.
Titanium.

I-NIC



Retractor.
Anodized
Aluminium.

I-IMP-INS-1



Implant Inserter
Can be used for
manual insertion
of implants.

I-CON-X



Connector to
Handpiece.
Stainless Steel.

I-SP-X



Flat Spanner
To hold Fixture
Mount.

I-CT-1



Counter Torque
Tool.

I-FM-H



Fixture Mount
Holder

I-FME-XS/L



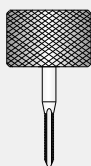
Fixture Mount
Extension

I-FORCEPS

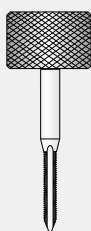


Thread Cutters

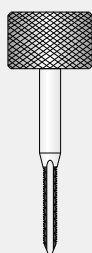
I-M1.4



I-M1.8

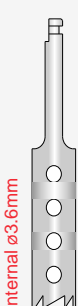


I-M2

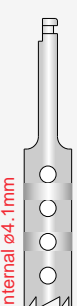


Trephine Drills

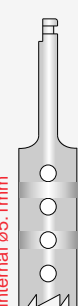
D-TRE-3



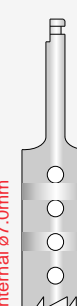
D-TRE4



D-TRE5



D-TRE7



Tissue Cutters

I-TC1



I-TC5



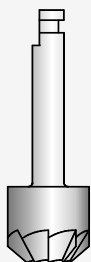
I-TC6



Please note that these instrument are not to scale or to the correct size relation to each other. Only for illustration purposes.

Bone Mills and Protector Caps

I-BM-67 or
I-BM-77



I-BM-CAP or
I-BM-CAP2 (two-part)



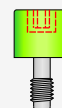
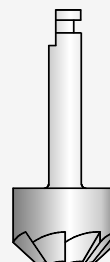
I-BAM-62 or
I-BAM-77



I-BAM-CAP



I-BBBM-77 I-BBBM-CAP



Direction Indicators

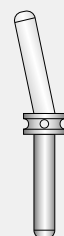
I-DI



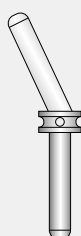
I-DIL



I-DI-12d



I-DI-24d



I-DI-4T-10



I-DI-4T-13



I-DI-4T-15



I-DI-5T-10



I-DI-5T-13



I-DI-5T-15



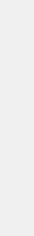
I-DI-6T-10



I-DI-6T-13



I-DI-6T-15



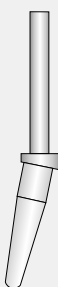
I-DI12d-4T-10



I-DI12d-4T-13



I-DI12d-4T-15



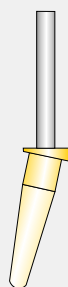
I-DI12d-5T-10



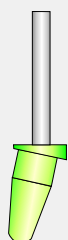
I-DI12d-5T-13



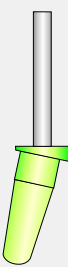
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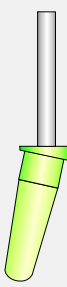
I-DI12d-6T-10



I-DI12d-6T-13

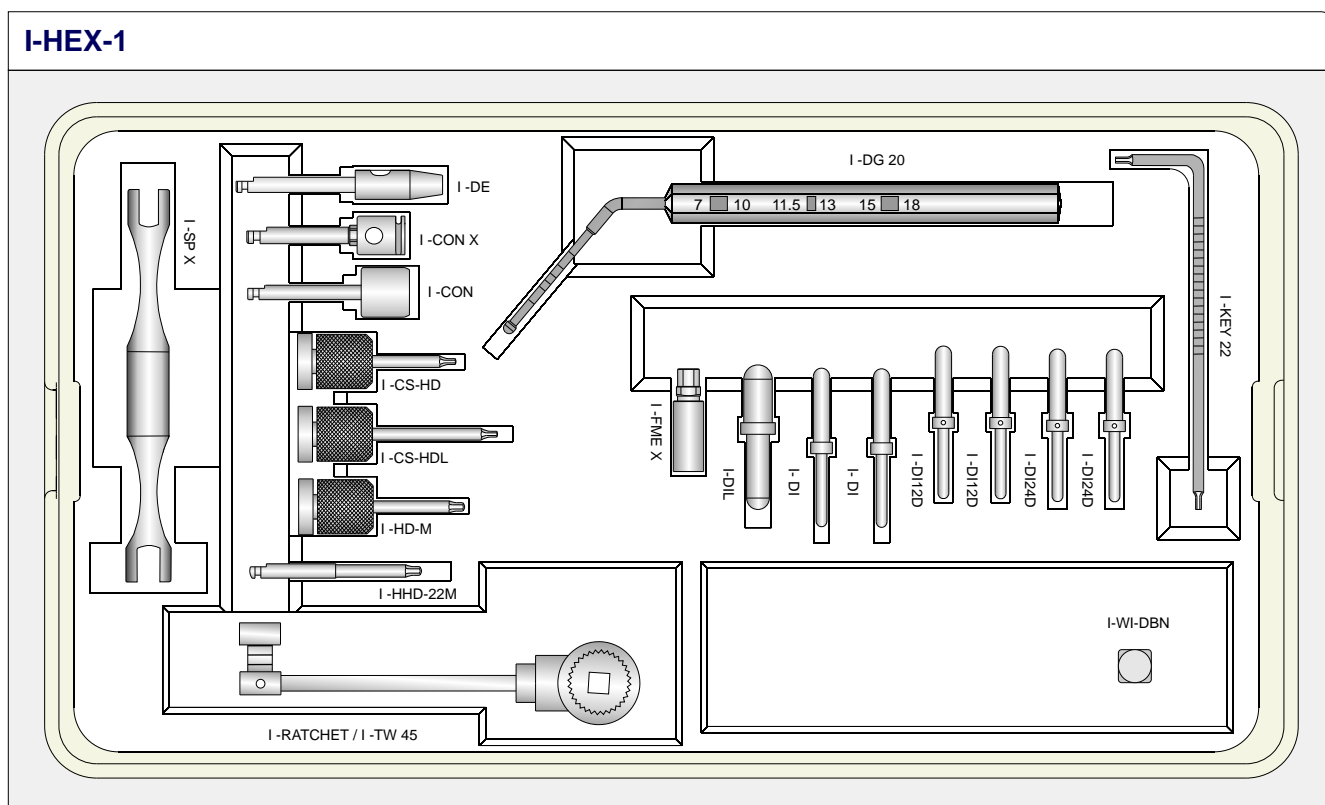


I-DI12d-6T-15

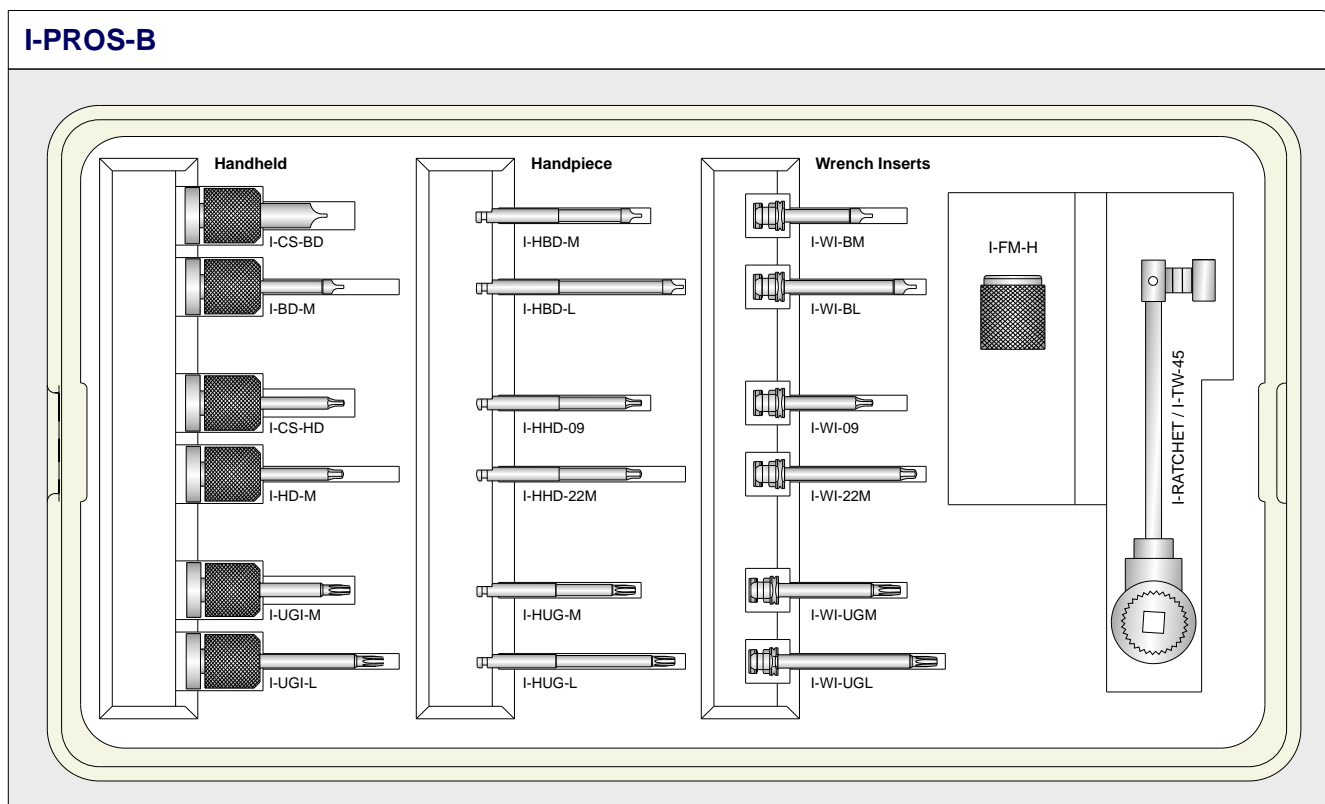


Screw Removers

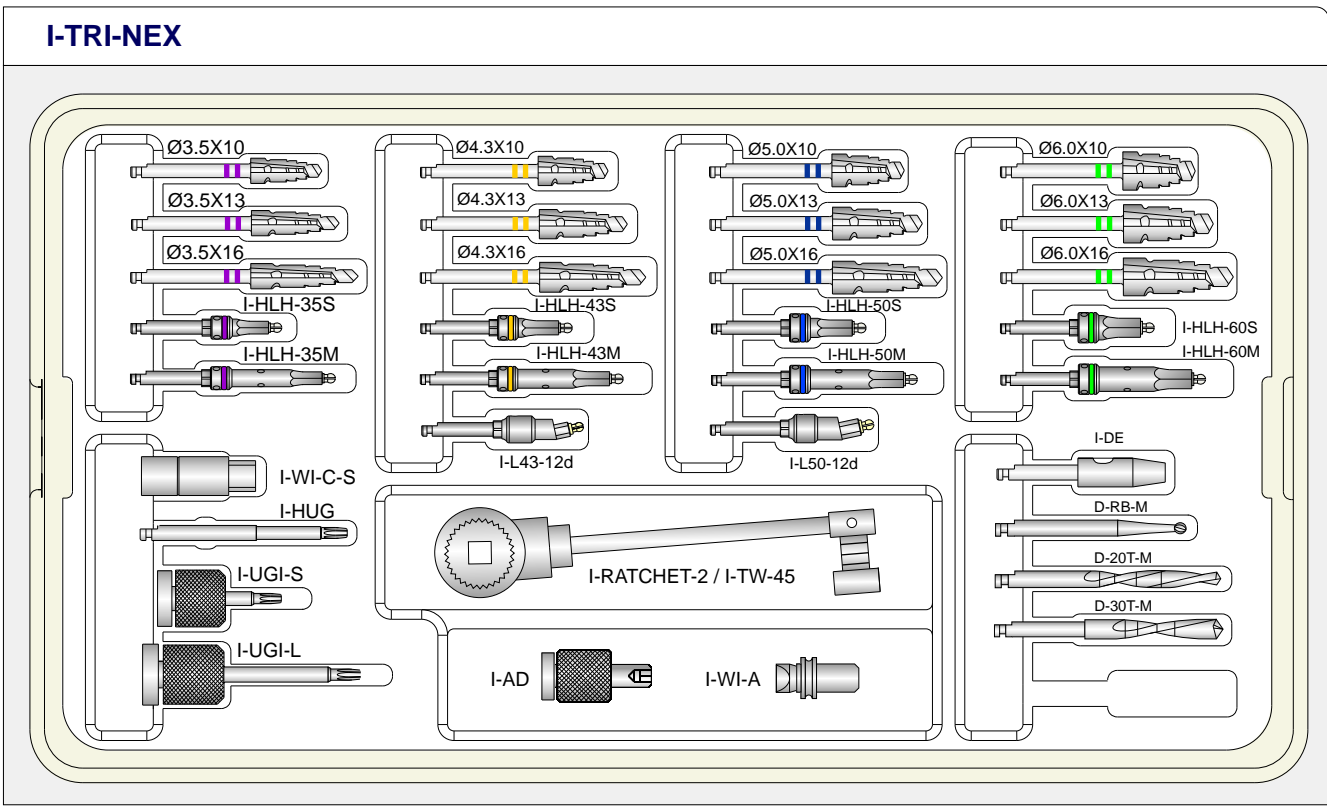
Information available on request

I-HEX-1

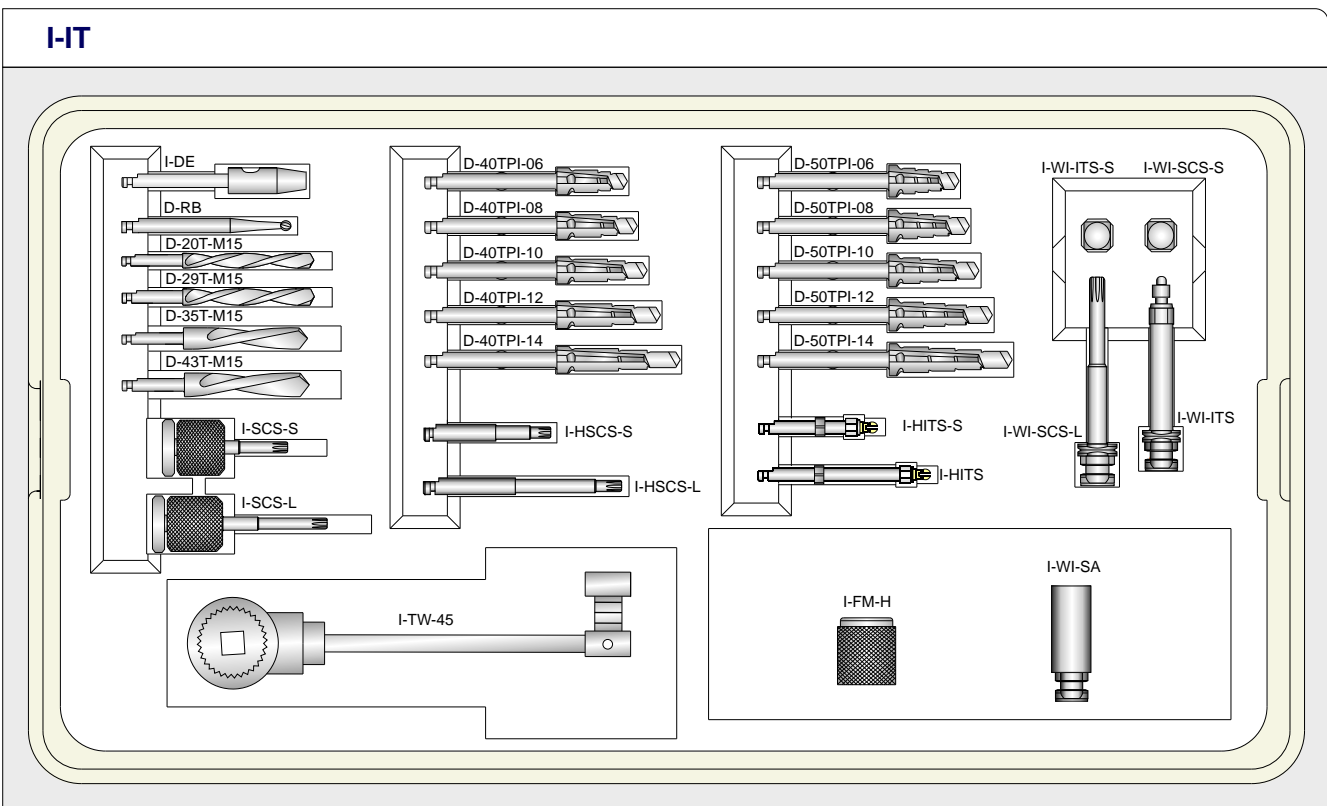
Trays and instruments are sold separately.

I-PROS-B

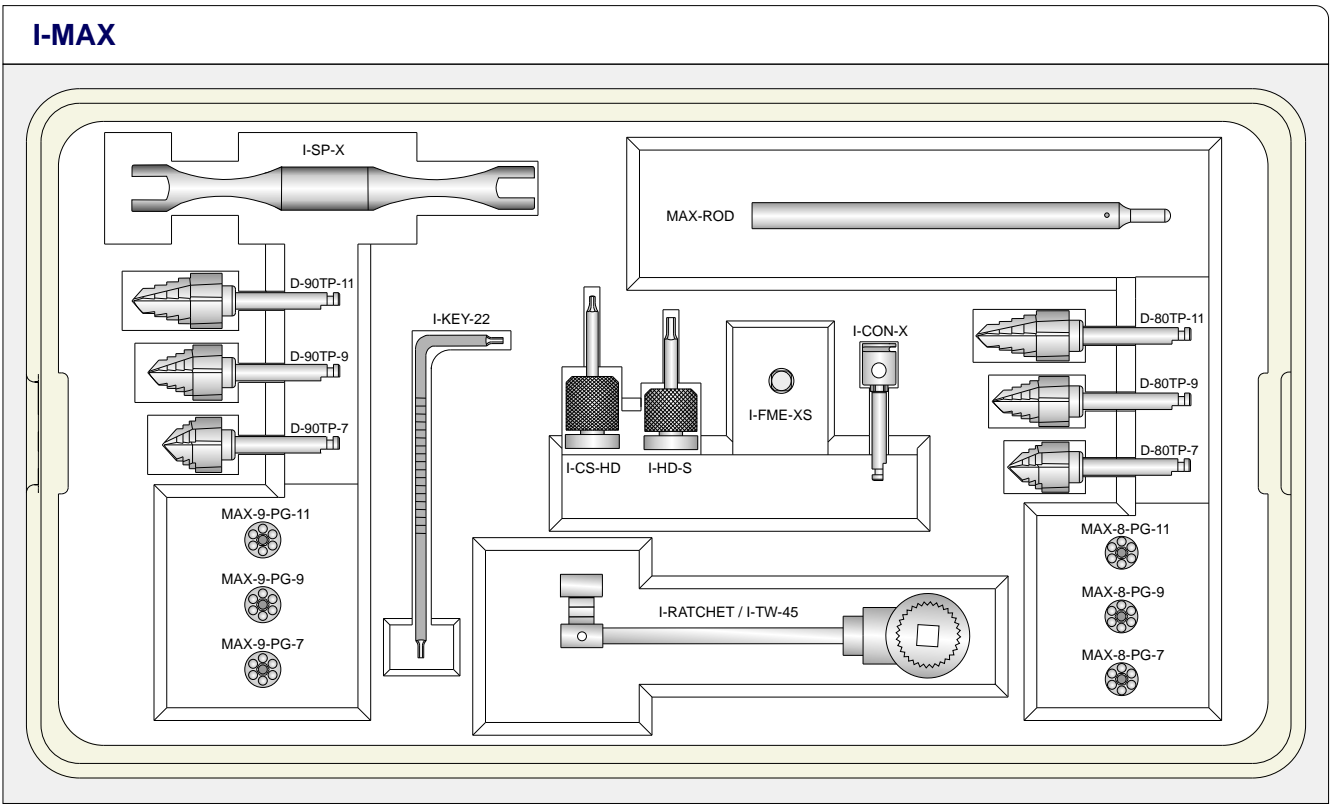
These trays fit into the I-CASSETTE-2 and are autoclavable. Please see sterilizing and cleaning instructions on page 16.



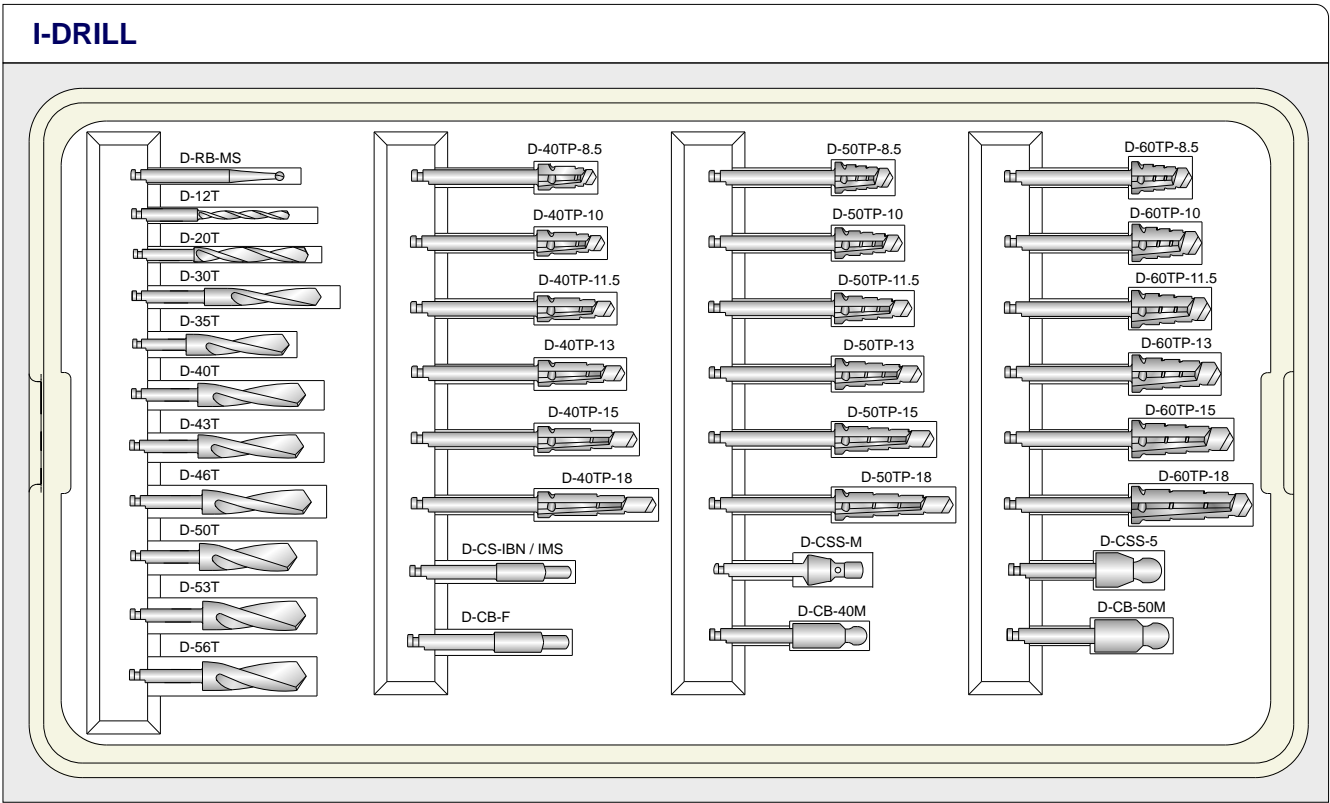
Trays and instruments are sold separately.



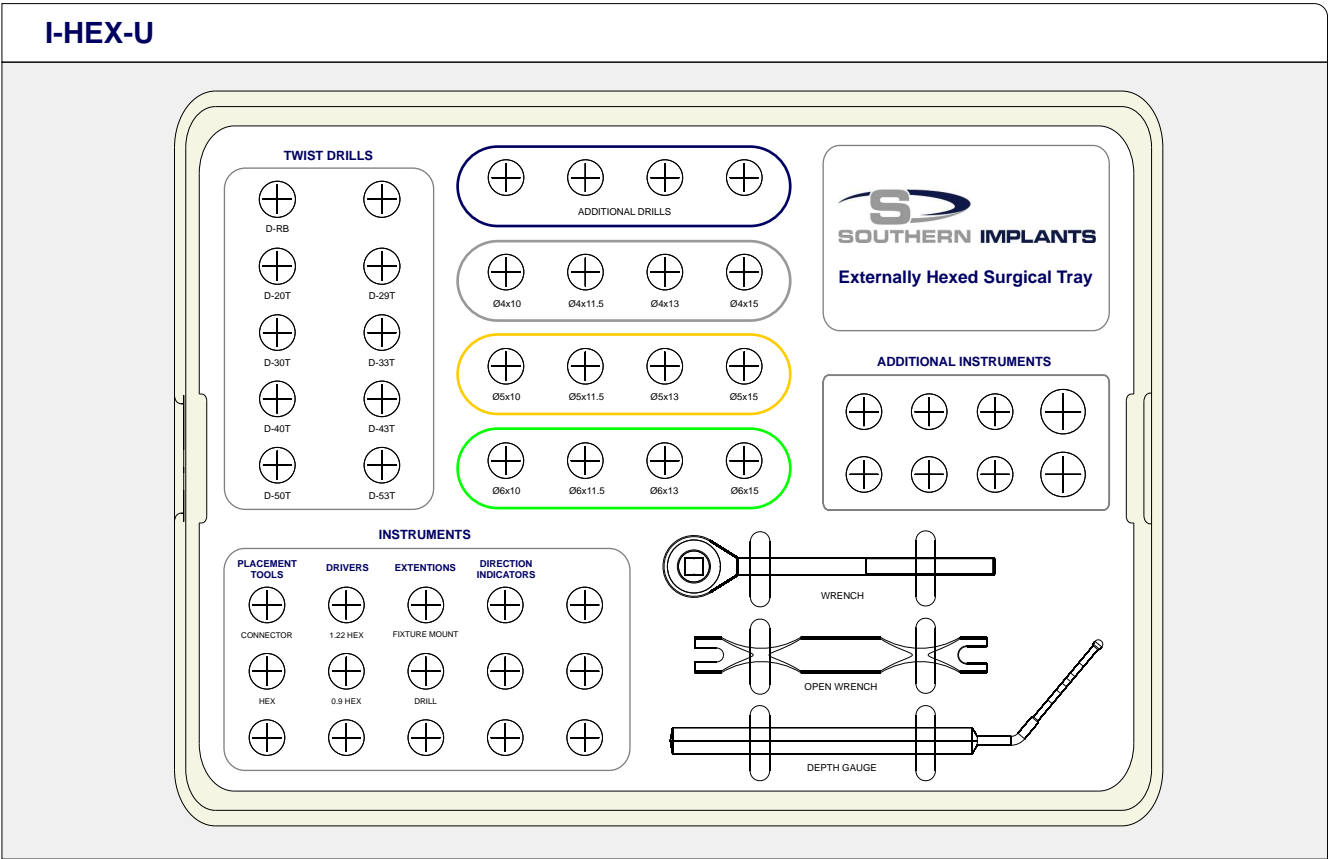
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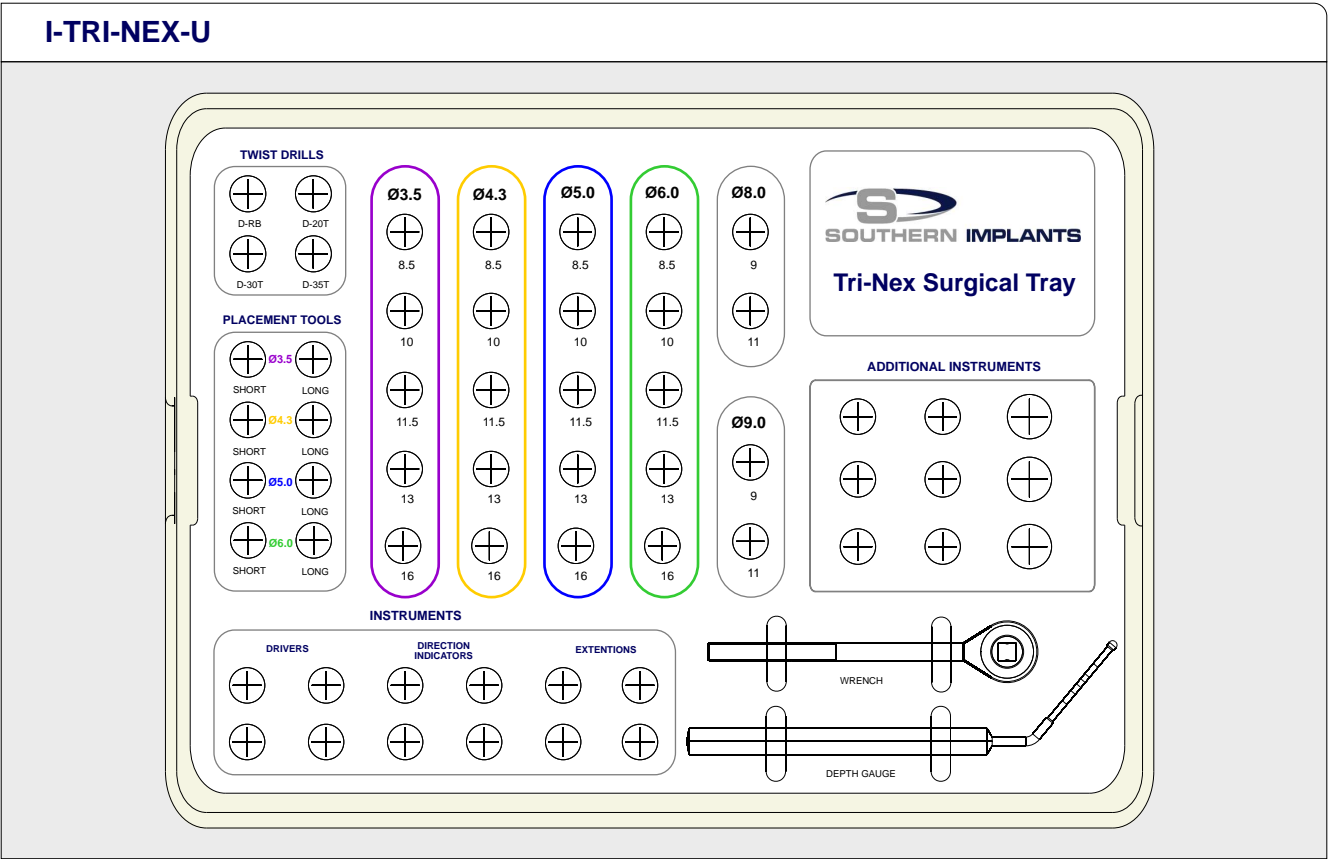
Trays and instruments are sold separately.



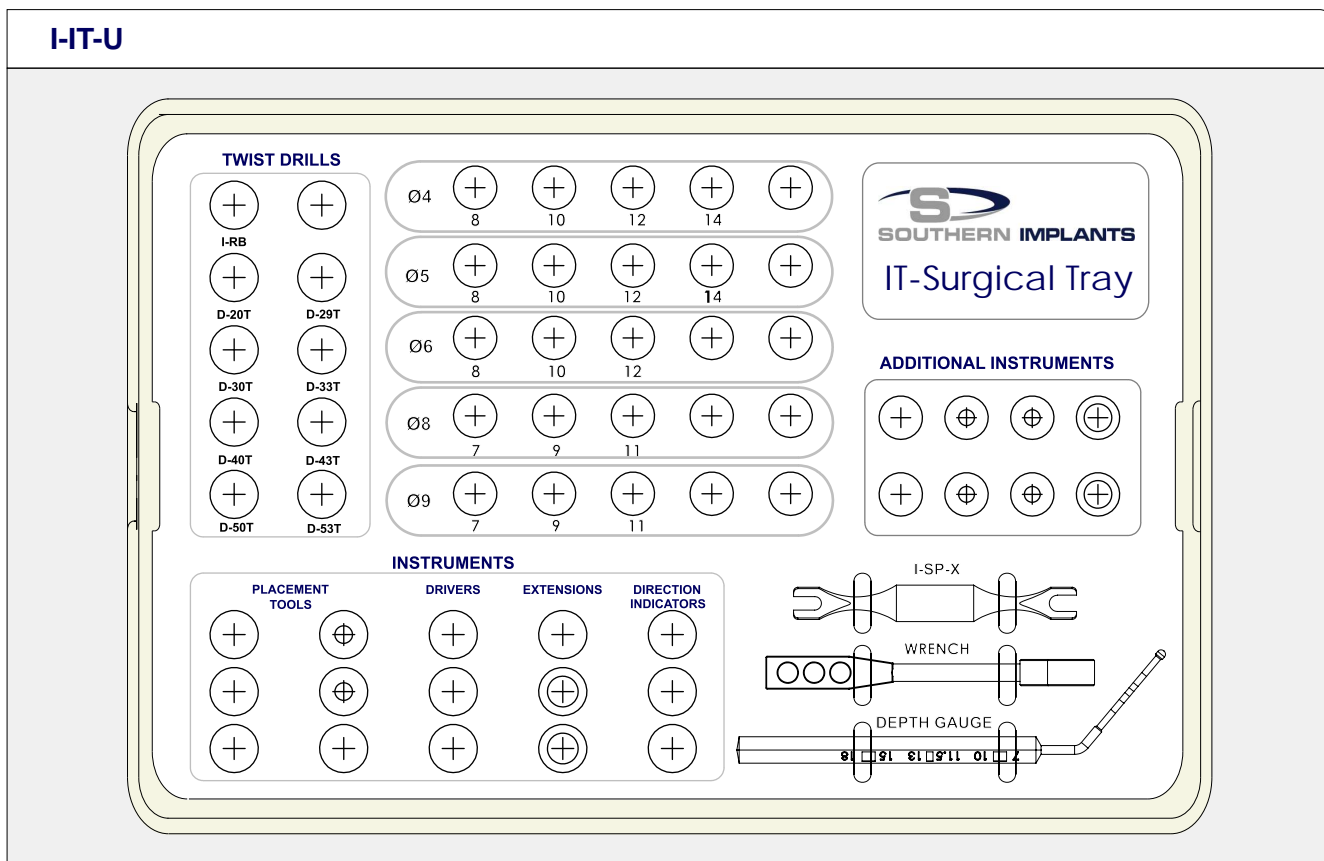
These trays fit into the I-CASSETTE-2 and are autoclavable. Please see sterilizing and cleaning instructions on page 16.



Trays and instruments are sold separately.

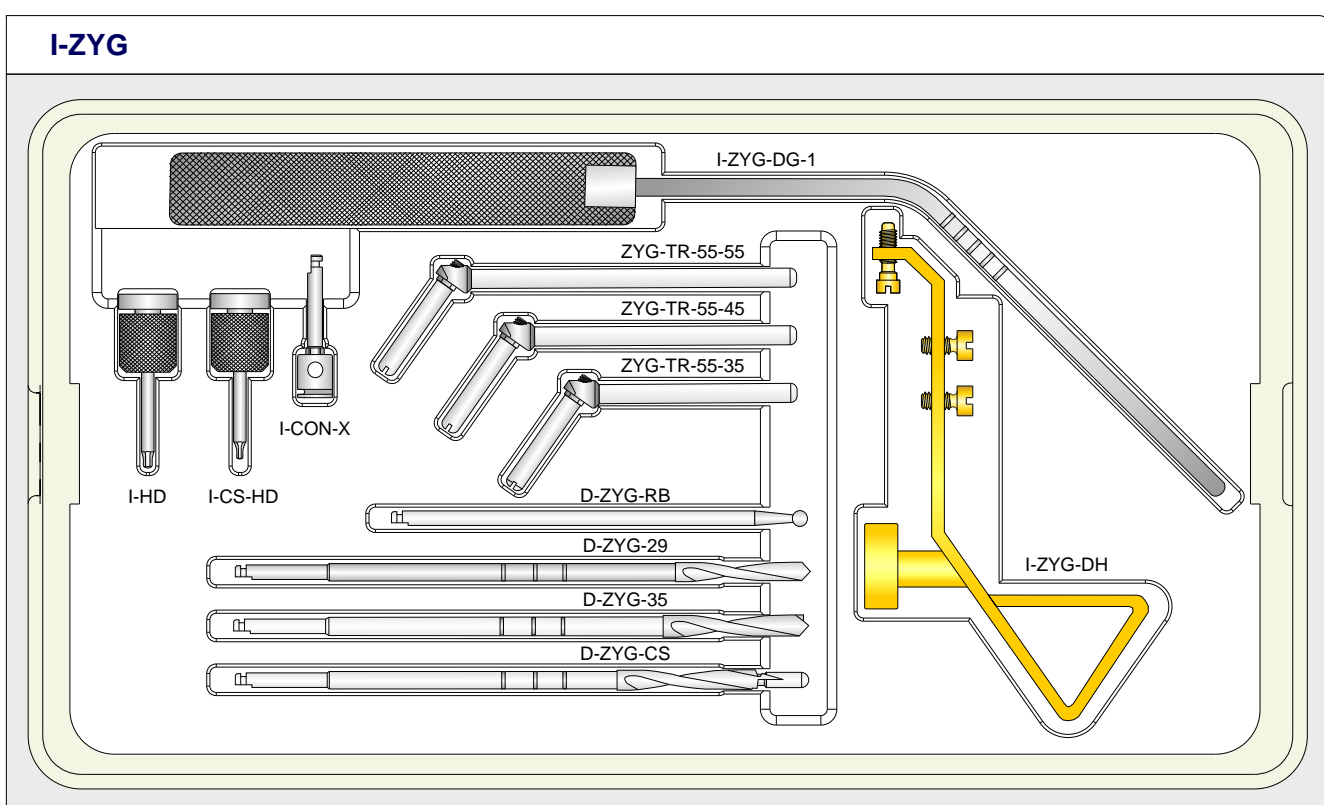


Upright IT Surgical Tray



Trays and instruments are sold separately.

Zygomatic Instrument Tray



This tray fit into the I-CASSETTE-2 and is autoclavable. Please see sterilizing and cleaning instructions on page 16.

Cleaning & Sterilization Procedure Guidelines

Components	Surgical Drills	Surgical and Prosthetic Tools	Surgical and Prosthetic Trays	Torque Wrenches / Ratchet
Warnings	Never use blunt or damaged tools.	Never use blunt or damaged tools.	Do not expose to temperatures higher than 140°C.	Do not expose to temperatures higher than 160°C.
	Never store instruments while they are still wet or moist. This will result in corrosion and degradation of cutting edges. Inspect all instruments visually.			
Limitations on Reprocessing	Taper Drills and Pilot Drills - 40 times. Trephine Drills - 10 times.	Drivers and General Instruments - Repeated processing has minimal effect. Bone Mills - 15 times. Taps, Tissue Punch, Osteotomes, counter bores, Thread cutters - 40 times.	Repeated processing has minimal effect on these trays.	500 times or 3 years, whichever is reached first (service can extend life, but not indefinitely).
Instructions				
Point of use:	Remove excess soil with running water.	Remove excess soil with running water.	Remove excess soil with disposable cloth / paper wipe.	Remove excess soil with running water.
Containment and Transportation	No Particular Requirements: It is recommended that instruments are cleaned and dried as soon as is reasonably practical following use.			
Preparation for cleaning	Disassembly from Handpiece.	Disassembly from Handpiece.	No Particular Requirement.	Remove any connecting parts.
Cleaning: Automated	Rinse with luke-warm water for 3 minutes. Remove hardened soil with a sift bristle brush. Sonicate for 20 minutes in an ultrasonic cleaner using a detergent suitable for surgical instruments (SteriTech Instrument Cleaner - 5% dilution). Rinse in running water and dry.	Rinse with luke-warm water for 3 minutes. Remove hardened soil with a sift bristle brush. Sonicate for 20 minutes in an ultrasonic cleaner using a detergent suitable for surgical instruments (SteriTech Instrument Cleaner - 5% dilution). Rinse in running water and dry.	Rinse in luke-warm water and remove soil with a soft bristle brush and enzymatic detergent. Rinse off with luke-warm water and dry.	Rinse with luke-warm water for 3 minutes. Remove hardened soil with a sift bristle brush. Sonicate for 20 minutes in an ultrasonic cleaner using a detergent suitable for surgical instruments (SteriTech Instrument Cleaner - 5% dilution). Rinse in running water and dry.
Cleaning: Manual	Manual cleaning is not practical and is therefore discounted.			
Disinfection	If detergent is not a high level disinfectant: Sonicate / rinse with 70 % ethanol for 5 minutes.	If detergent is not a high level disinfectant: Sonicate / rinse with 70 % ethanol for 5 minutes.	Trays can be wiped / sprayed down with 70 % ethanol.	If detergent is not a high level disinfectant: Sonicate / rinse with 70 % ethanol for 5 minutes.
Drying	Allow components to dry completely before sterilizing.			
Maintenance	Damaged or blunt instruments should not be used.			Add one drop of handpiece oil to the internal mechanism after autoclaving.
Inspection and further Testing	Inspect all instruments visually for damage and bluntness.			Check whether the ratchet mechanism is working smoothly.
Packaging	Singly: A standard packaging material may be used. Ensure that the pack is large enough to contain the instrument without stressing the seal. (Recommendation: Use a packaging system that conforms to ISO 11607).			
	In sets: Instruments can be loaded into dedicated instrument trays before sterilization. Place the tray in an appropriate sterilization bag.			
Sterilization	Autoclave at 121 ° C (250 ° F) for a minimum of 30 minutes.			
Storage	Never store instruments while they are still wet or moist. This will result in corrosion and degradation of cutting edges.			
Additional Information	When sterilizing multiple instruments in one autoclave cycle, ensure the the sterilizer's maximum load is not exceeded. Refer to sterilizer's instructions for use. Ascertain the size of the instrument trays prior to sterilization.			



Complimentary Manuals & Instructions:

Externally Hexed Product Catalogue.....	CAT-2020
Tri-Nex Product Catalogue.....	CAT-2004
IT Product Catalogue.....	CAT-2005
Patient Information Brochure.....	CAT-2022
Patient Homecare Brochure.....	CAT-2023
Overdenture Information Brochure.....	CAT-2032
Zygomatic Information Brochure.....	CAT-2025
Prosthetic & Laboratory Manual.....	CAT-2001
Cranio Facial Reconstruction.....	CAT-2036
TMJ Prosthesis Catalogue.....	CAT-2018
Passive Abutments.....	CAT-1008
One Piece Implants.....	CAT-1083
Finger Implants Catalogue.....	CAT-2010
First & Secondary Stage Surgery Manual.....	CAT-2024
Instructions for use	PRO-6038

Labeling Symbols:

The following symbols are used on our packaging labels and they indicate the following:

- 1: "Use by"
- 2: "Batch code"
- 3: "Do not reuse"
- 4: "Sterilization using Irradiation"
- 5: "Caution"
- 6: "Consult instruction for use"
- 7: CE mark



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