

# LASCHAL<sup>®</sup>

INSTRUMENTS THAT WORK

*Sonic Steel<sup>®</sup>*

**Thumlok<sup>®</sup>**

SNAGLESS Needle Holders<sup>™</sup>

*SoftTouch Suture Scissors<sup>™</sup>*

LIQUID SCISSORS<sup>™</sup>

**CUTTING EDGE<sup>™</sup>**  
NEEDLE HOLDERS

*RAPTOR Forceps<sup>™</sup>*

*LASNER RETRACTION FORCEPS<sup>™</sup>*



2023 Portfolio

Introducing...

Sonic Steel®



Made in the USA

This new alloy has unique properties. Lighter than titanium, stronger than stainless steel, elastic, and it cannot rust or corrode. It just makes more reliable instruments.

A few examples:

- Needle holders that resist bending out of shape
- The new locking mechanism for needle holders ( Thumlok ) that never freezes or fails to disengage the needle is a favorite of all surgeons
- Liquid Scissors technology... Incredibly reliable scissors shear all the way to the point for YEARS, without becoming loose or splayed
- New tissue forceps that secure soft tissue without crushing or interrupting bloodflow
- Sonic Steel instruments produce a tactile feel better than bare fingertips
- And so much more

This is a growing portfolio of instruments that resist structural decay. You can find studies conducted at UCLA, Yale, and RIH on pages 40-42.

Have an idea for something that doesn't yet exist ? Let's discuss it.

## Have you ever had trouble with....

## Refer to:

Needle Holders that fail to unlock during surgery ? <b>Left-handed?</b> .....	pg 4-5
Castroviejo needle holders that fail during instrument ties ? .....	pg 6-7
Accidentally cutting the suture knot ? .....	pg 8-10, 15
<b>Destroying tissue during retraction and manipulation ? .....NEW.....</b>	<b>pg 12</b>
Crushing tissue during suturing or manipulation ? .....	pg 13-14
Removing a buried suture, and the unhappy patient ?.....	pg 18-19
Scissors that ultimately fail ? .....	pg 23-25
Joint fatigue during location of a canal, or initial instrumentation ?.....	pg 30
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## SUTURING

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Mesh Trimming Set <b>NEW ITEM</b>	Pg 32
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## PERIO / IMPLANT

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<b>More Reliable Over Time</b> <i>LA Biomed Research Inst, UCLA</i>	Pg 41
<b>Tissue Forceps Testing</b> <i>RIH Orthopedic Foundation</i>	Pg 42

## Trade-In, Trade-Up Program

Exclusively from: **LASCHAL**

Have a drawer full of old  
and tattered instruments?

Get: \$100 per needle holder  
\$50 per scissors

Trade them in for credit  
towards new ones



All brands accepted

Trade-In Form

# HATE YOUR CASTRO?

**Thumlok**<sup>®</sup>  
CASTRO... REPLACED

*The first real advancement in Castroviejo  
needle holders in more than 30 years*



***Lefties Love It !!!***  
*(Righties Too...)*

*Sonic Steel<sup>®</sup> has memory.  
It allows for a superior  
thumb-lock that doesn't lose  
its shape, and is easily  
corrected if necessary*

7-TCLR TL 18.2cm



- Easy learning curve. Less than three minutes
- Lock engages when you want it to
- Ambidextrous - True 90 degree mechanism allows easy use with the left or right hand
- Snagless - No cross-joint at the tips to snag the suture during an instrument tie
- Freeze-Proof - Thumlok<sup>®</sup> never fails to unlock

# Thumlok<sup>®</sup> options

**FNHS 17.75cm**



**TCLR/TL 15.5cm**



## TUNGSTON CARBIDE TIPS

## DIAMOND-MICRO TIPS

15.5cm straight	Baraquer	TCLR/TL
15.5cm curved	Baraquer	TCLCR/TL
18cm straight	Baraquer	7-TCLR/TL <i>***Most Popular</i>
18cm curved	Baraquer	7-TCLCR/TL

FNH-S6	15cm
FNH-C6	15cm
FNHS	17.75cm
FNHC	17.75cm

# WANT A BETTER CASTRO?

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## SNAGLESS™ Needle Holders



*Sonic Steel® is elastic. The jaws of the needle holders flex on a linear plane to secure any size needle. The jaws resist bending out of shape, and remain reliable for years and years.*

7-TCLR 18.2cm



- **Snagless - No cross-joint at the tips to snag a suture during instrument ties**
- **Holds every size needle, from the largest to the smallest, without bending out of shape, or damaging the needle**
- **Redesigned traditional Castroviejo lock endures excessive use and outlasts all others**
- **Standard tungsten carbide pads resist wear**

# SNAGLESS™ Options



7-TCLRM 17.75m



TCLR 15.5cm

## TUNGSTON CARBIDE TIPS

## DIAMOND TIPS *9-0 to 11-0*

15.5cm straight Baraquer  
 15.5cm curved Baraquer  
 18cm straight Baraquer  
 18cm curved Baraquer  
 17.75cm straight Baraquer

TCLR  
 TCLCR  
 7-TCLR *\*\*\*Most Popular*  
 7-TCLCR  
 7-TCLRMM 6-0 to 7-0  
 7-TCLRMM-14 8-0 to 10-0

TCLR/M 15cm  
 TCLCR/M 15cm  
 7TCLR/M 17.5cm  
 7TCLCR/M 17.5cm

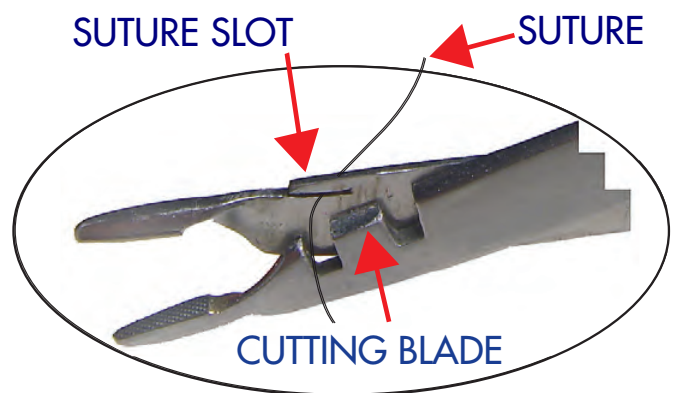
# A Castro With a Suture Cutter..?!?

**CUTTING EDGE™**  
NEEDLE HOLDERS

## *Built-in Guillotine for Cutting Sutures After Tying the Knot*

*Sonic Steel® allows for the slight pitch necessary to maintain a guillotine cutting edge against the suture slot*

7-10RL 18.2cm



- *Suture slot holds the suture in place*
- *Cutting blade severs the suture cleanly*
- *Knots are too big to fit through the suture slot*
- *Cut tags to any length, or flush to the knot*

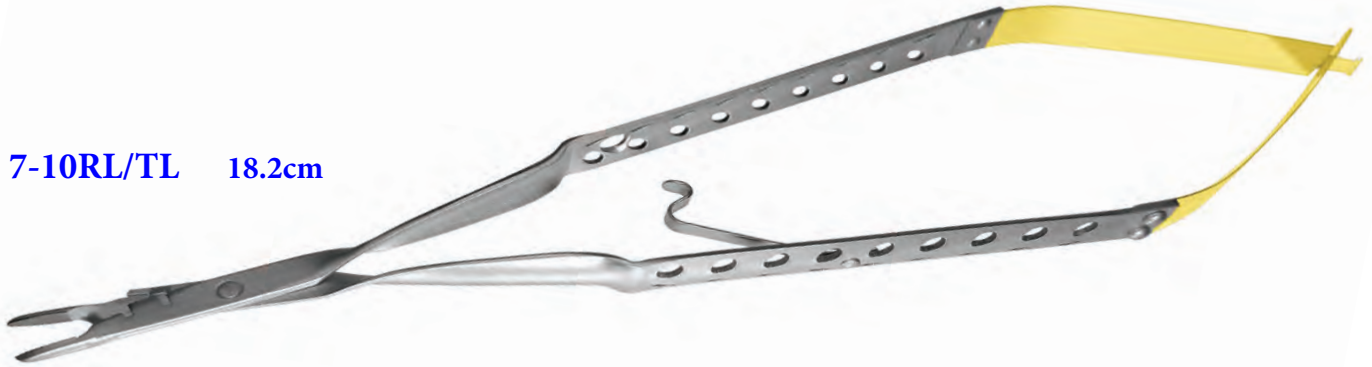


# CUTTING EDGE™

## NEEDLE HOLDERS

## OPTIONS

**7-10RL/TL 18.2cm**



**6-10RLC 15.7cm**



15.7cm straight	Baraquer
15.7cm curved	Baraquer
18.2cm straight	Baraquer
18.2cm curved	Baraquer

### CASTRO LOCK

- 6-10RL**
- 6-10RLC**
- 7-10RL** *\*\*\*Most Popular*
- 7-10RLC**

### Thumlok®

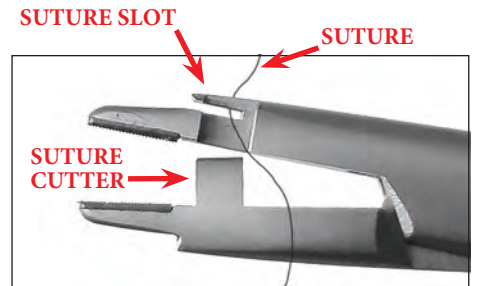
- 6-10RL/TL**
- 6-10RLC/TL**
- 7-10RL/TL**
- 7-10RLC/TL**

**DIAMOND TIPS** - custom order

# RING-HANDLED NEEDLE HOLDERS

## *"Olsen-Hegar's Hot Cousin"*

Compared to the traditional Olsen-Hegar needle holder, Laschal's Guillotine Suture Cutter is 80% closer to the tip of the driver, and requires 95% less clearance when opening to cut the suture. Making it far easier to use in tight spaces and safer to use during surgery in general



**2-332-12**

**Tungsten Carbide**  
**12.5cm**  
**CGS 4/0 - 7/0**  
**SILK 3/0 - 8/0**



**2-331-20**

*\*\*\*Most Popular*

**Tungsten Carbide**  
**16.5cm**  
**CGS 0 - 5/0**  
**SILK 1 - 4/0**



**2-335-20**

**Tungsten Carbide**  
**18cm**  
**CGS 0 - 5/0**  
**SILK 1 - 4/0**

# NIEMCZYK SUTURE SET

*A unique micro-suturing instrument set,  
designed by Dr. Stephen Niemczyk, DMD*

SET-NIEMCZYK

*7-0 to 10-0 Sutures*



\*\*\*Fifth Instrument not pictured  
Model number DS-1, Straight  
Vannas Scissors. See page 22

Serrated / Gold Handles



Diamond Tips



- *Five instruments and a sterile case*
- *Needle holders (curved / straight), tissue forceps, scissors*
- *Ultra-micro, diamond tip needle holders*
- *Custom tissue forceps with tungsten carbide tips*
- *Laschal's finest tissue scissors, #'s 51-12-30C & DS-1*
- *Diamond/Gold coated handles for superior grip and feel*
- *Scissors not coated for safe ID, flat handles for stability*

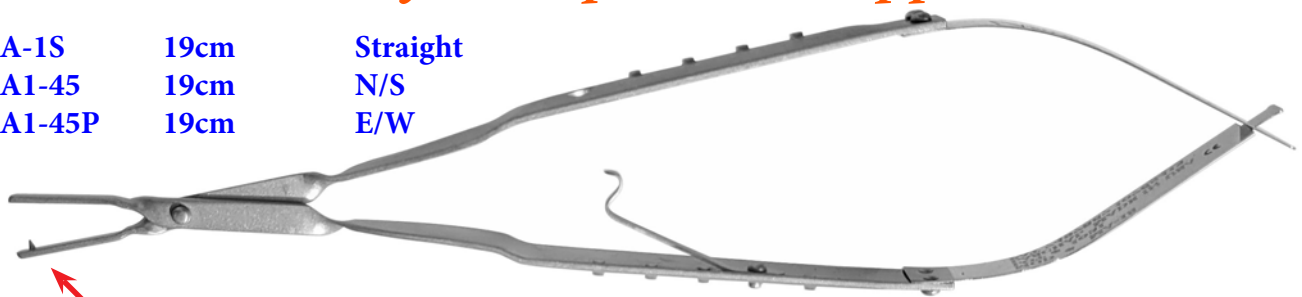
# TISSUE FORCEPS: A GAME-CHANGER

## LASNER FORCEPS

*Manipulate and retract with no risk*

- *Slip-proof and self-locking*
- *Use with or without the lock*
- *No tissue crushing*
- *Preserves blood-flow*
- *Eliminates assistant hand fatigue*
- *Custom angles, sizes, and configurations available for all potential applications*

MA-1S	19cm	Straight
MA1-45	19cm	N/S
MA1-45P	19cm	E/W



*Single pin secures tissue without full penetration*

*1.5mm space between locked jaws avoids crushing, and preserves blood-flow*

MA-1S



MA1-45



MA1-45P



# TISSUE MANIPULATION WITH 1.5 NEWTONS OF PRESSURE

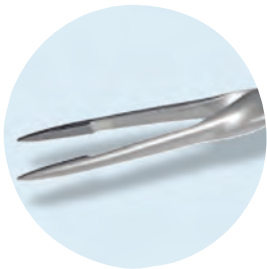
Clinically compared to other leading tissue forceps, which require 5 to 40+ Newtons of pressure to yield the same grip. **Page 42**

***"A significant reduction, in otherwise unavoidable tissue damage caused during anastomosis and manipulation"***

- RIH Orthopedic Foundation Testing Laboratory, Rhode Island USA

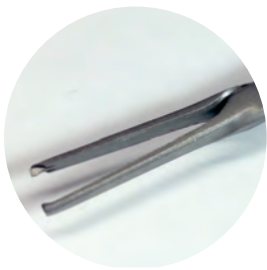


*Sonic Steel® is flexible and forgiving. In the non-dominant hand, the user understands only a gentle pressure is needed to hold the grip. Just two Newtons...*



**PLAF/R/F**

- 18 cm
- Tungsten Carbide Tips
- \*\*\**Most Popular*



**PLAF/R/1X2**

- 18 cm
- 1X2 Micro Rat-Tooth



**PLAF/R/1X2/L**

- 18 cm
- 1X2 Micro Rat-Tooth
- With Lock



# SUTURE NEEDLE GUIDANCE

## *CORN Forceps Guarantee Precise Needle Placement When Suturing*

The tips of the forceps gently grasp tissue and attached gingivae. Suture needles are guided through the grooves, allowing proper positioning



### **CORN/45B** \*\*\**Most Popular*

Corn Forceps with 45° angle and diamond dust for slip resistance 15cm



### **CORN/45**

Corn Forceps with 45° curve and diamond dust for slip resistance 17cm



### **CORN**

Corn Forceps with *straight* tips and diamond dust for slip resistance 15.25cm



# THE ASSISTANT'S SUTURE CUTTER

## *One Less Sharp Object in Someone Else's Hands*



*Sonic Steel® allows for the slight pitch necessary to maintain a guillotine cutting edge against the suture slot*

**CGS 4/0 - 8/0**  
**SILK 3/0 - 7/0**

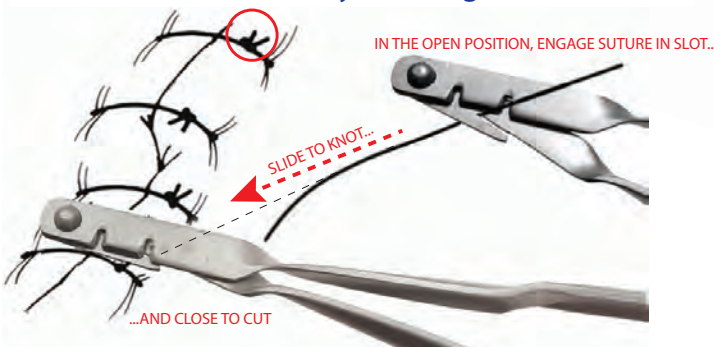
\*Call for other available sizes

**SC-1 15.75cm**

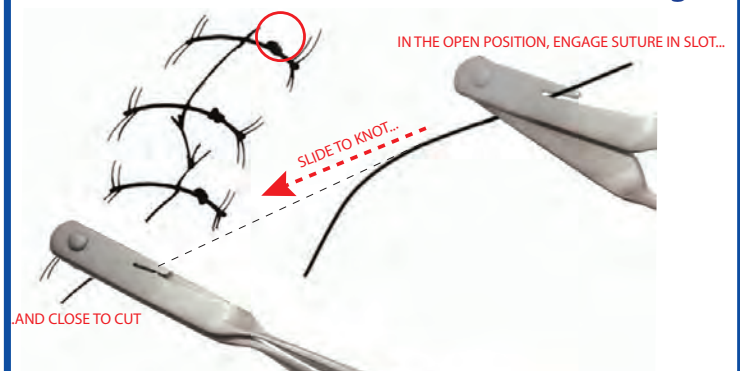


- **Think of it as an insurance policy...**
- **Use the suture as a guide to the knot**
- **Cutter stops at the knot, automatically leaves a 1mm tag**
- **Or, back off from knot to trim at any desired length**

**FACE UP - leaves exactly 1mm tag above knot**



**FACE DOWN - cuts flush to the knot, w/o damage**



**\*Perfect for resorbable sutures and burying the knot**

# SUTURE REMOVAL WITH ONE HAND

## Position, grasp, cut, and remove sutures with one instrument

*Leaves your other hand free to stabilize the patient*



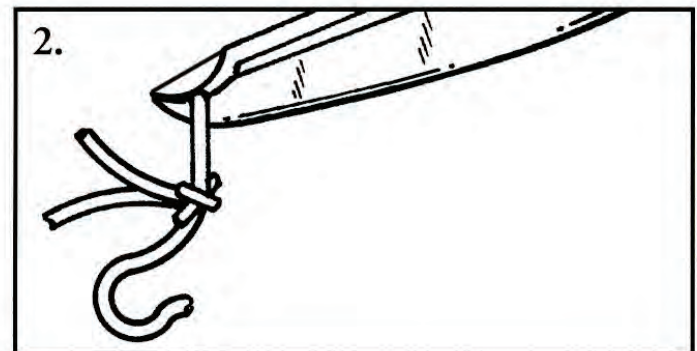
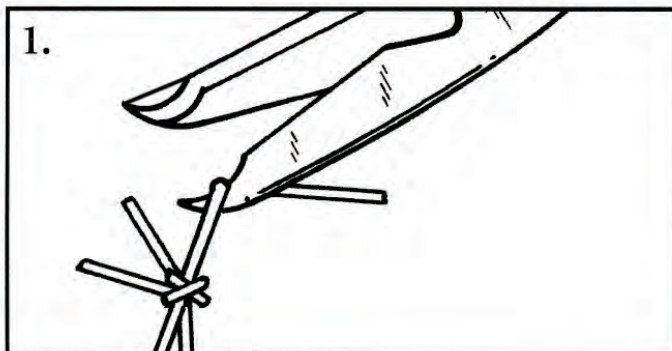
*Sonic Steel® is flexible. it allows the creation of a forceps that first grasps a suture, and then cuts secondarily, all in one motion*

The Forceps

The Scissors



N-103F 16cm 30' Angle  
N-101F 16cm Straight



**1.** Engage the suture on the **right hand side** of the knot...

**2.** Close, hold tightly in **closed position**, and remove the suture



# HOOKED LITTAUER SCISSORS

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## *The most narrow Littauer Scissors*

*Up to 70% finer than all others, this scissors displaces up to 80% less tissue than any other during the suture removal process, reducing potential bleeding and patient discomfort*

**N-6**

14.5cm *Straight*



**N-6A**

14.25cm *45 degree angle*



# Suture Removal HURTS

*A patient's last experience in your office shouldn't be a painful one, and a happy patient is 10x more likely to refer*

## *SoftTouch* *Suture Scissors*

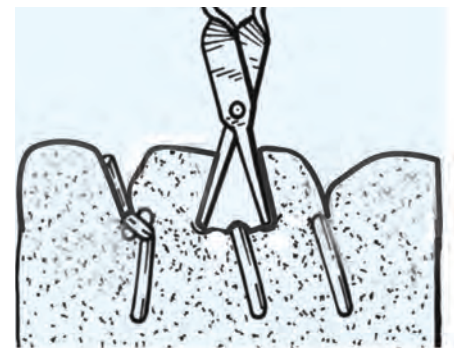


- N-4CXF** 14.25cm Curved *\*\*\*Most Popular*
- N-4XF** 14.25cm Straight
- N-4CXF-7** 16.75cm Curved



N-4CXF

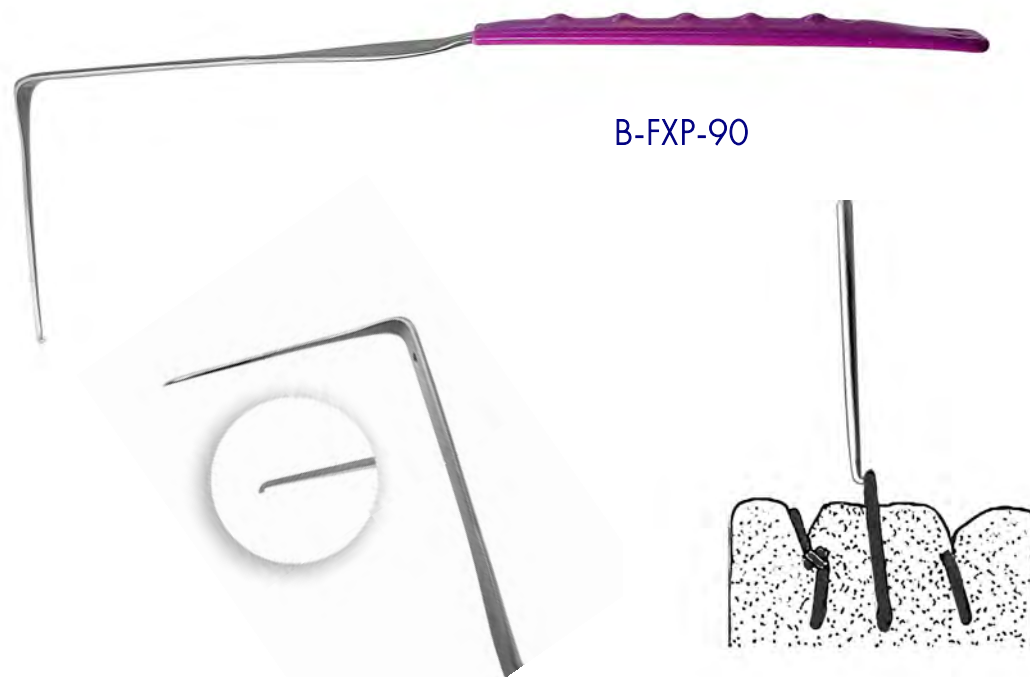
- *Safely cut sutures without poking or irritating tissue*
- *Ball-point tips softly move tissue aside*
- *Enhanced tactile touch let's you know when you've located the suture*
- *Gently blunt-dissect borders to reveal buried sutures*
- *Straddle suture with tips, and squeeze to cut*



# Effortless Buried Suture Location

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*Extra-narrow profile, and 0.2mm hook locates and secures any size suture for removal with minimal discomfort*



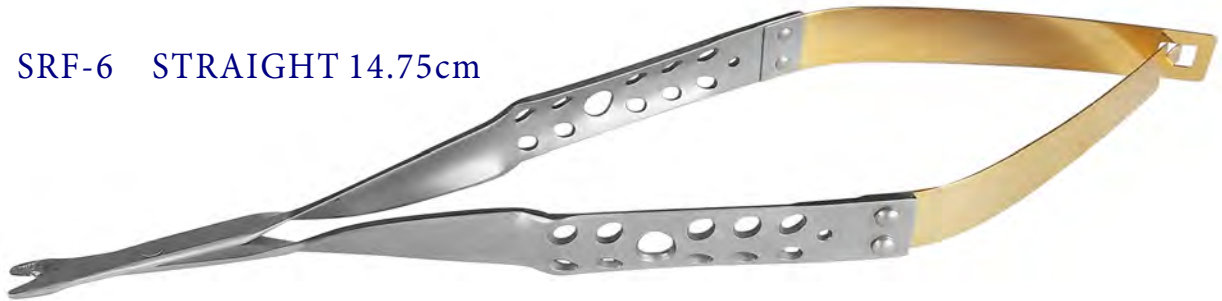
- *Effortlessly locate and gain visibility of fine buried sutures*
- *Use along with Laschal SoftTouch Suture Scissors*
- *True tactile touch - you know when you've found the suture*
- *Gently enter borders to search for buried sutures*
- *Engage suture in front-to-back motion, gently pulling up*

# SUTURE REMOVAL FORCEPS

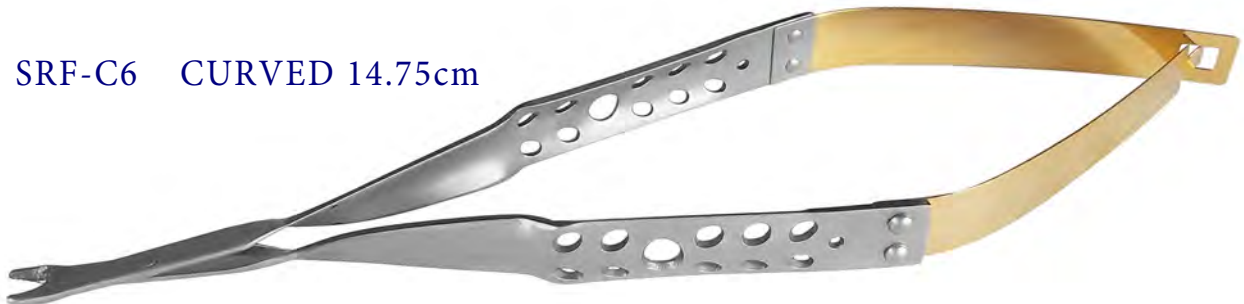
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**Rounded Micro Tips Promote  
Atraumatic Searching,  
The Diamond Does The Rest**

SRF-6 STRAIGHT 14.75cm



SRF-C6 CURVED 14.75cm



SRF-C6 Curvature Profile



Diamond Tips



- *Universal for all suture sizes and materials*
- *Soft, rounded micro tips for gentle patient application*
- *Diamond coated for superior slip resistance*
- *Ultra lightweight, and tactile sensitive*

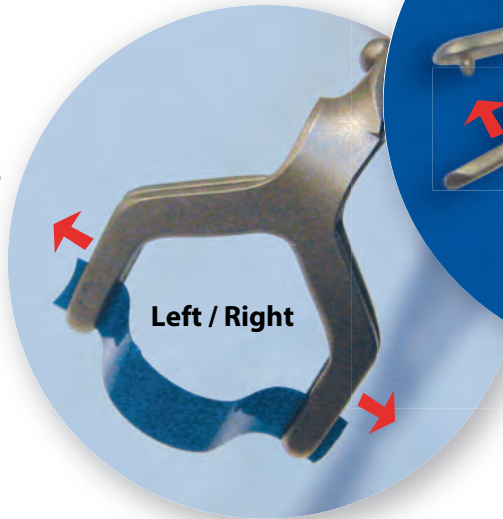
# POLISHING AND BREAKING CONTACT POINTS

## *Takes All Strips Out of the Fingers, and the Fingers Out of the Mouth*

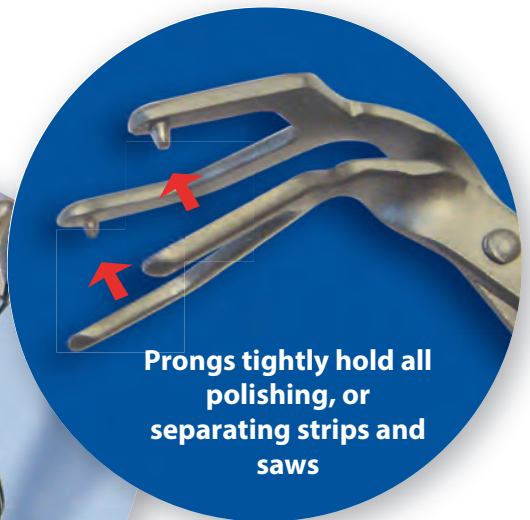
LWL 15.3cm



*Loop polishing strip to access all restored surfaces. Or with articulating paper to uncover excessive contact during try-ins*



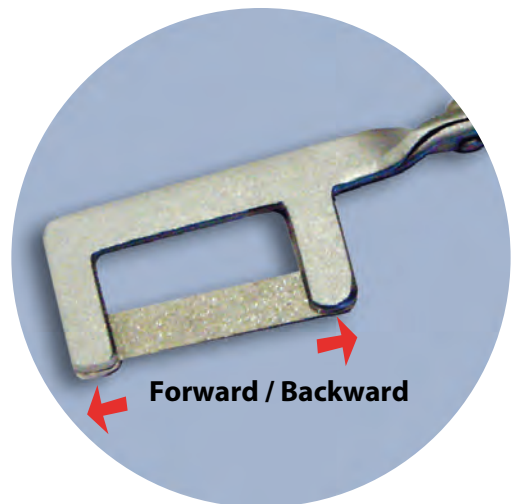
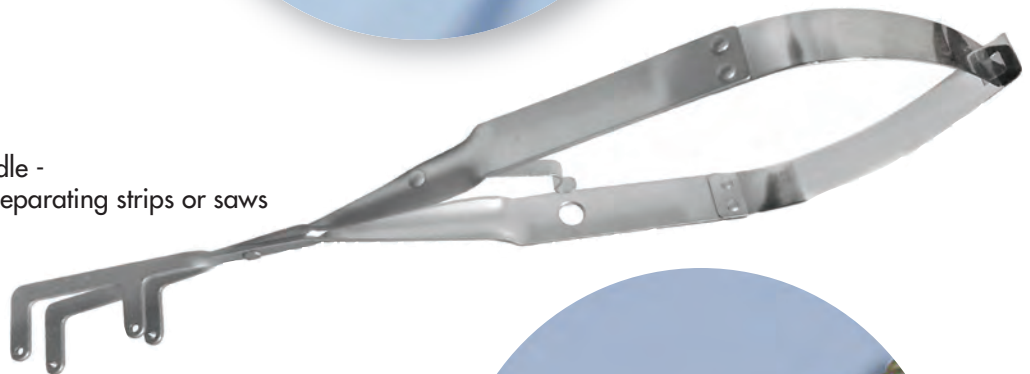
Left / Right



Prongs tightly hold all polishing, or separating strips and saws

LWL-ST 17cm

Prongs are in line with handle - more efficient for use with separating strips or saws



Forward / Backward

- 1.** Reduces incidence of soft tissue trauma
- 2.** Greater economics - use shorter strips for each procedure (up to 5 uses per strip)
- 3.** Greater ergonomics - easy to prepare and use

# RESTORATIVE FORCEPS

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## POINTS

45-S 15cm

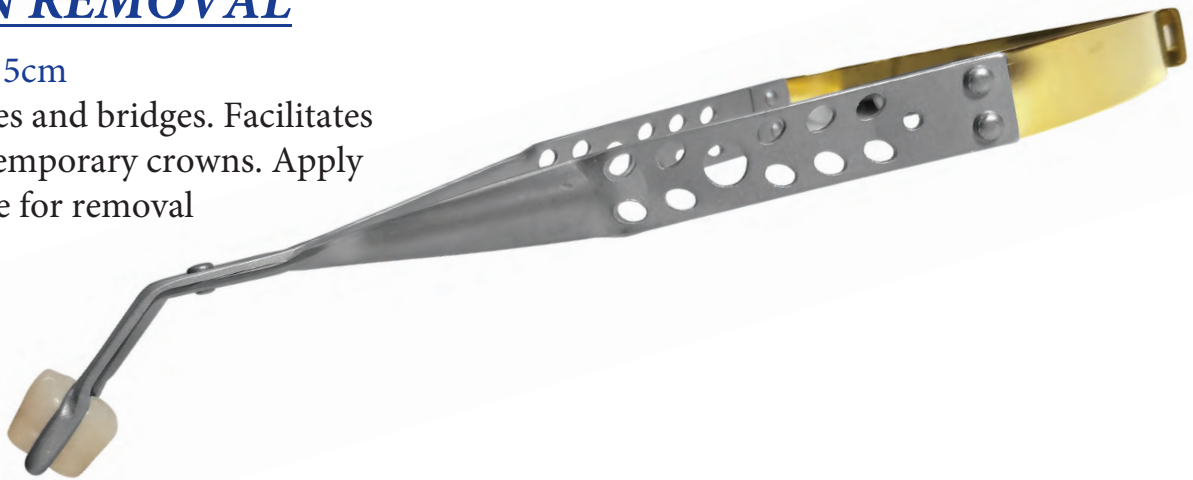
For placement and removal of points. Apply a modest amount of pressure for a soft yet firm grip



## CROWN REMOVAL

45-CCR 15cm

Crowns, cores and bridges. Facilitates removal of temporary crowns. Apply firm pressure for removal



## CROWN PLACEMENT - NEVER DROP A CROWN AGAIN

CDF 15cm

Allows application of cement and vaseline for easy delivery and cleanup. Spread open from within, to load and release.

**DO NOT SQUEEZE**



# LIQUID SCISSORS™

## The Fluidity of the Sheer

*Sonic Steel® is flexible. It allows the crossing of fine scissors blades by an additional 300%. But instead of biting into each other, the blades glide together like liquid, reliably cutting all the way to the point and never crushing tissue*

YALE SAYS THEY CUT CLEANER

See page 40

UCLA SAYS THEY REMAIN RELIABLE

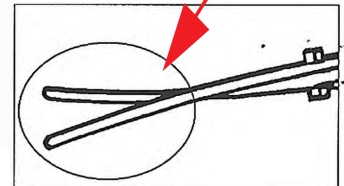
See page 41



**51-12-30C** 13.75cm



**CROSSING  
BLADES**



- *Blades cross 300% greater than all other scissors*
- *NO SERRATIONS - or the damage they cause*
- *First they bite, then they cut. Tissue never slides out*
- *Confidently trim tissue, and create perfect margins for suturing*

### **71-15-30C**

17.25cm periodontal scissors with 2cm curved blades, 30° angle



### **51-15-30C**

15cm periodontal scissors with 2cm curved blades, 30° angle



### **51-15-45C**

15cm periodontal scissors with 2cm curved blades, 45° angle



### **51-12-30C \*\*\*Most Popular**

13.75cm periodontal scissors with 1.0cm curved blades, 30° angle



### **51-12-45C**

13.75cm periodontal scissors with 1.0cm curved blades, 45° angle



### **DS-1**

14.25cm Vannas scissors with 1.2cm straight blades



### **DS-1C**

14cm Vannas scissors with 1.2cm curved blades



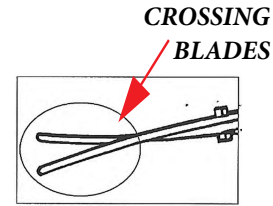
### **DS-G**

14.5cm stork-shaped scissors with 1.25cm blades



# RING-HANDLED SCISSORS

*Sonic Steel® is flexible.  
It allows the crossing of scissors  
blades by 300%. In a 100% heavier  
stock than the Liquid Scissors,  
performance in general and special  
surgery is unparalleled*



**TMRHS-145**



145mm Stevens Tenotomy Scissor

**TMRHS-120-LR**

*\*\*\*Most Popular*



*Gorney Blades Now Available*



120mm Littler Tenotomy Scissor

**RHT-45B**



*Excellent for Rhinoplasty*



95mm Converse Scissor 45°

**TMRHS-95**



95mm Iris Scissor



# SUPERIOR CASTRO SCISSORS

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*"Reliable" was never defined like this before*

*All of the benefits of Liquid Scissors, with 40% heavier blades*

*Double-edge Gorney blades available upon request*

*Excellent for micro blunt dissection. Castroviejo spring resistance allows for incredible control.*



**N-1**

## **2.2cm Blades**

---

### **N-1**

15cm scissors with 2.2cm straight blades



### **N-1C**

15cm scissors with 2.2cm curved blades



## **1.25cm Blades**

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### **N-4**

14.25cm scissors with 1.25cm straight blades



### **N-4C**

14cm scissors with 1.25cm curved blades



**\*\*\* Also available in 18cm length \*\*\***

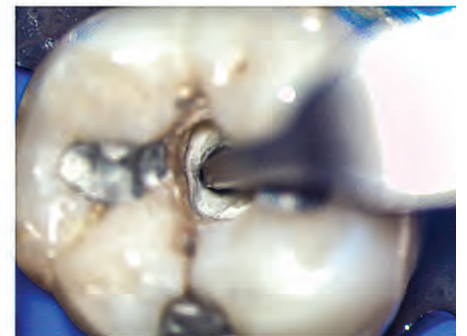
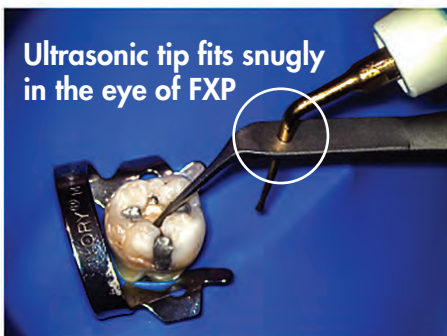
# BROKEN FILES SUCK !!!

## *Safely create access with indirect ultrasonics*

*Sonic Steel® magnifies vibration.  
Use with your ultrasonic to create  
high-speed oscillation at FXP's  
diamond tip. This widens the trough  
and sands down the file edges*



- Magnifies ultrasonic vibration to activate the diamond coating
- Diamond-dusted to create a trough and sand the sharp edges of the file
- Follows dilacerated (curved) canals
- *Disperses heat created by the ultrasonic tip*



# STEIGLITZ FORCEPS

## The Finest, Strongest, and Thinnest Steiglitz Forceps Worldwide



*Sonic Steel® is elastic, so the ultra-fine Steiglitz forceps don't splay when grasping an object. Instead they flex out linearly, creating a firm grip*



75SL/M - N/S 14.5cm

- **North/South angulations address the bucco-lingual chamber orientation of anteriors and bicuspids**
- **East/West angulations address the mesio-distal chamber orientation of molars**

### Tungsten carbide for strength

#### North/South Forceps

- 45SL/M 15cm
- 75SL/M 14.5cm \*\*\*Most Popular**
- 90SL/M 14.25cm

#### East/West Forceps

- 45SPL/M 16cm
- 75SPL/M 15cm
- 90SPL/M 14.5cm



### Diamond for deeper access

#### North/South

- D-45SL/M 15cm
- D-75SL/M 14.5cm
- D-90SL/M 14.25cm

#### East/West

- D-45SPL/M 16cm
- D-75SPL/M 15cm \*\*\*Most Popular**
- D-90SPL/M 14.5cm



# TACTILE ENDO FILE FORCEPS

Can't see anything during instrumentation?  
Get your fingers out of the way!!!

*Sonic Steel® magnifies vibration,  
producing a tactile feel five to ten  
times greater than your bare fingertips*



**EF-1-7** 17.75cm



Allows for a 75 or 90 degree bend in the file,  
reducing total height by up to 65%. Ideal  
for limited space conditions in molars

**90AHF/L** 15.75cm

**\*\*\*Most Popular**

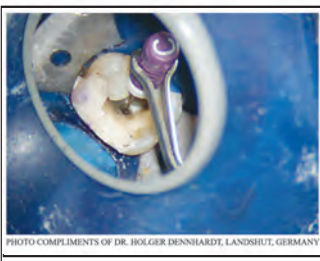


Up to 270 degrees of mesio-  
distal angulation, for access to  
most areas and root positions



**75CHF/L** 14.5cm

Ideal for use with a mirror  
or microscope, and 270  
degrees of bucco-lingual  
angulation



- Extraordinary tactile sensitivity - greater than finger manipulation
- Alleviates joint fatigue common to traditional instrumentation
- Diamond coated for slip-resistance

# ENDO FILE BENDER

## Create Complex Curvatures Without Compromising the File



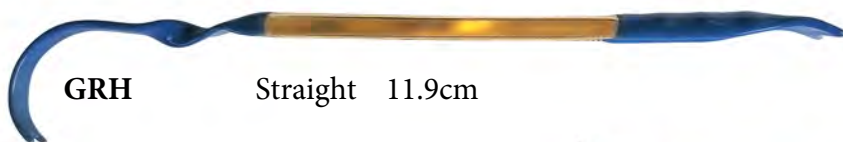
**FBF** 13.4cm

Smooth, non-crimping action and design enhances ergonomics and prevents loss of file integrity

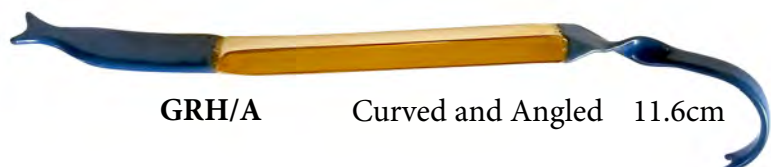


# GINGIVAL RETRACTORS

*For use during examination, restoration, curettage, or surgery*



**GRH** Straight 11.9cm

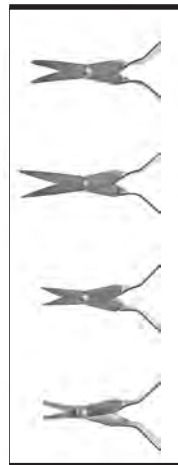
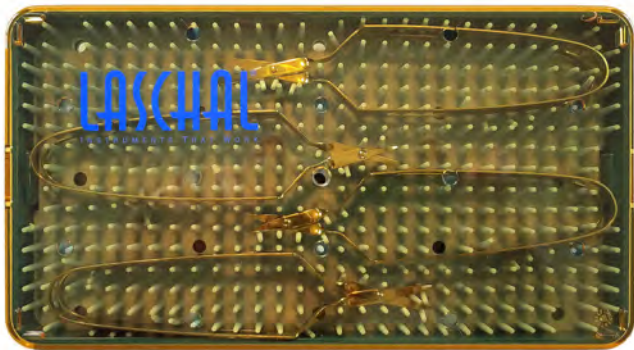


**GRH/A** Curved and Angled 11.6cm

- *Atraumatic tissue manipulation*
- *Surgical-grade plastic cured for longevity*
- *Straight and angled for use in all cases*
- *Recommended as a set of two*



# MESH TRIMMING SET



Set of four Uniband Scissors  
in a case. One each for...

- Trimming titanium mesh
- Trimming titanium enforced membranes
- Tissue mincing
- Cutting retraction cord and utility

*Ultra narrow blade profile  
for improved line of sight*

**SET-TRIM**

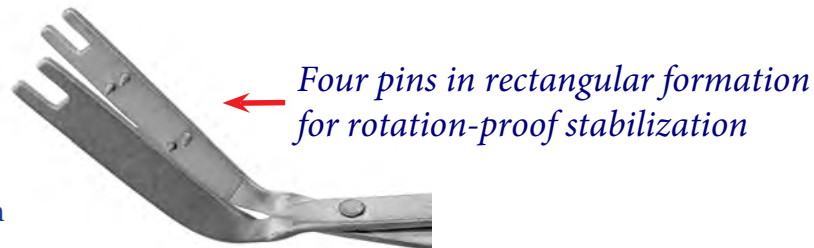
## *other* UNIBAND SCISSORS



# Graft Management Forceps

**Safely stabilize tissue graft for trimming,  
without touching it or crushing it**

*Sonic Steel<sup>®</sup> is flexible, the jaws move outwards, relieving the stress otherwise exerted by the instrument, and avoiding any crushing of the graft*



MA-45 19cm

*1.5mm between locked jaws avoids crushing, and preserves blood-flow*



- **NO CRUSHING** - Holds a grip without crushing or fully penetrating
- **1.5mm minimum space between jaws when in closed/locked position**
- **Four pins for proper stability**
- **CORN forceps at the beak for suturing**
- **Best used with Liquid Scissors, [page 24](#)**

# SERRATED PERIOTOMES

**Periodontal ligaments are natural rubber bands, stretching them to break may cause unnecessary damage to the alveolar process**

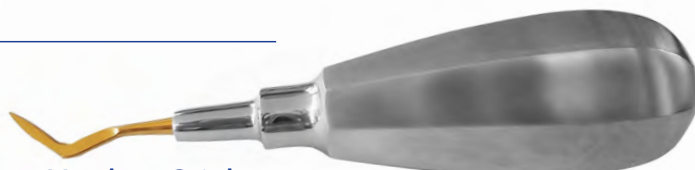
***Saw through them instead, and save hard tissue integrity***



**FB-1** 12.7cm Straight



**FB-2** 11.7cm Garden Rake



**FB-3** 11.7cm Hockey Stick



**SM-1F** 15.8cm Straight, Single-End



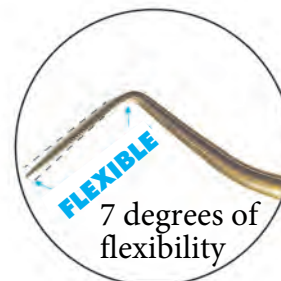
**MSP-1F** 18.6cm Straight / Hockey Stick

*\*\*\*Most Popular*



**MSP-2F** 17.6cm Angled Offset Left/Right

- Saw and pick through ligaments
- Flexible tips resist breakage
- Micro-serrated edges last longer
- Less damage to surrounding tissue
- As atraumatic as an extraction can be





# RAPTOR Forceps

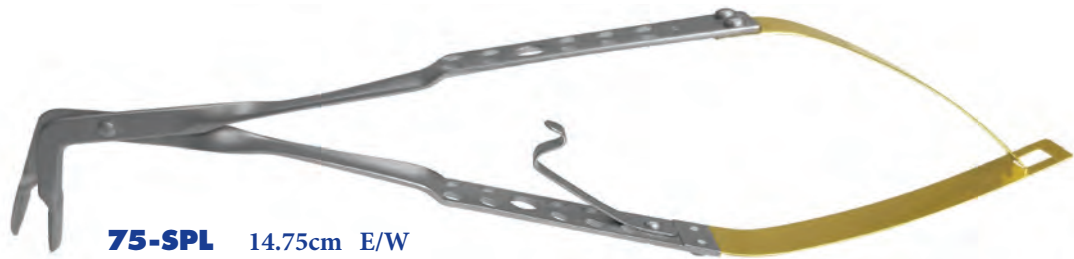
**Weighs 13.1 grams...  
Stronger than anything  
you've ever experienced**

*Sonic Steel® is elastic, so the forceps don't hold by brute force. Instead the jaws flex out linearly, creating a superior grip without splaying or bending out of shape*

**\*\*\*Most Popular**



**45-SL** 15cm N/S



**75-SPL** 14.75cm E/W

## Root-Tip Removal

### **How to use it...**

1. Grasp on to the broken root or fragment
2. Use Serrated Periotome (page 26) to pick away and sever remaining ligaments
3. Luxate to remove

**Think You're Tough ?  
Lock the Raptor on to  
a dime or quarter...  
Can you pull it from the  
jaws without twisting?**

## Post Removal

### **How to use it...**

1. Lock the instrument on the exposed post
2. Snuggly place (any) ultrasonic tip in the neck of the instrument
3. Gradually increase from low to high setting
4. Ultrasonic vibrations begin to crack cement
5. As cement bonds crack, gently luxate to remove the post

**\*\*\*Video Coming Soon**

# Ever Drop an Abutment or Screw?

## *A Thing of the Past!*



*Sonic Steel® contains no carbon, eliminating potential risk of implant contamination*

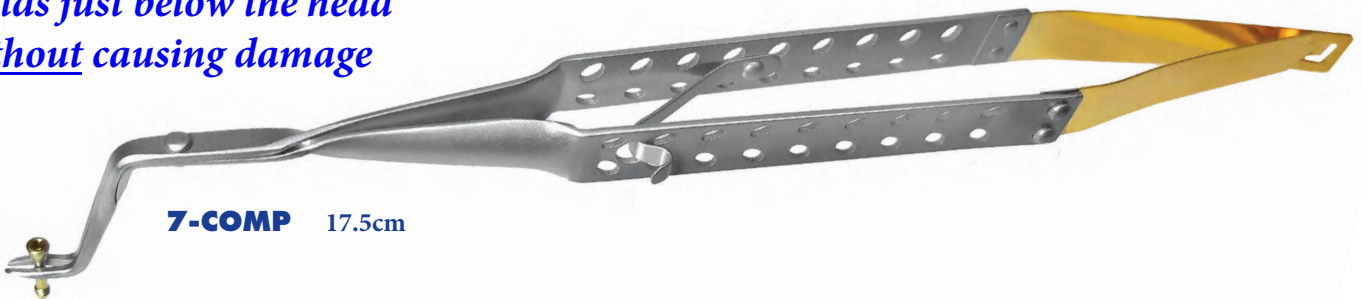


- Compatible with all sizes and shaped abutments
- Reverse spring action creates a secure but gentle grip
- Spread open to engage or disengage the abutment



*Position and thread the abutment with confidence. Polished jaws resist scratching components*

*Holds just below the head without causing damage*



- For stabilizing tiny components with diameters of 0.5 to 7.0 mm
- Any size screw or component may be rotated between the prongs, with absolute safety and bio-compatibility. Ideal for plating systems
- Ideal for the placement of healing abutments in areas with limited mesio-distal space

# TIRED OF LOSING ALLOGRAFT?

## ***COLLECT, DELIVER, AND PACK BONE & MATRIX MATERIAL***

*Sonic Steel® contains no carbon, eliminating potential risk of implant contamination*



**\*\*\*Video Coming Soon**

- Pays for itself by saving allograft
- Reduces fiddle factor
- Easy retrieval from any receptacle
- Conical shape allows greater site access, even with a shield



Half-moon tips gently pack in any circumstances. Close for a flat edge, open to circumnavigate any implant



Delivering to the site

Control opening, push into place with common amalgam packer

Collecting from the dish

End result

# ABUTMENT/HEX ALIGNMENT

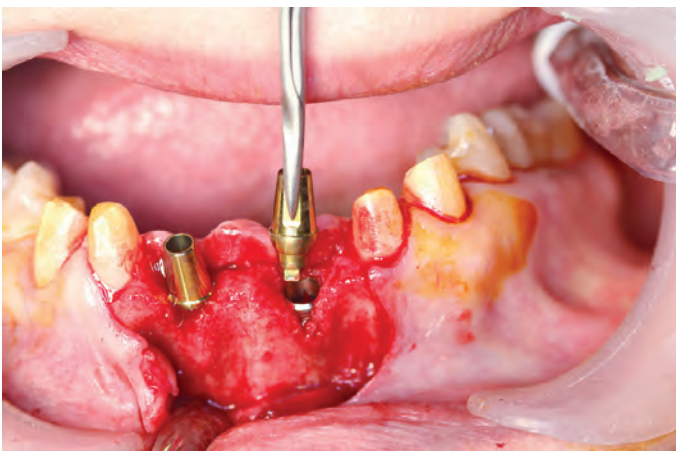
*For Precisely Aligning Internal Hexes*



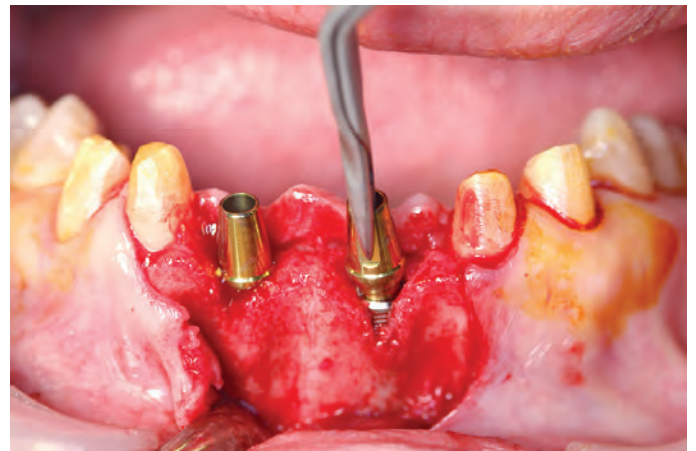
***Firmly holds without scratching  
or compromising abutment integrity***

*Sonic Steel® contains  
no carbon, eliminating  
potential risk of implant  
contamination*

## **Clinical images of alignment and seating of internal hexes**



Approach and alignment of  
abutment on to implant



Final seating prior to  
permanent attachment

# TUNNEL GRAFT FORCEPS

*Significantly reduces the time spent placing a graft in a surgical tunnel*



- Atraumatic - only two newtons of pressure to firmly grip
- Blunted tips prevent damage to surgical tunnel and graft
- Easily navigate around compromised areas within the tunnel

**TF-R** Curved right 15.1cm

**TF-L** Curved left 15.1cm

**\*\*\*Most Popular TF-S** Straight 15.1cm



**1.** Create tunnel in any standard manner



**2.** Close forceps and walk through tunnel



**3.** Grasp connective tissue graft



**4.** Draw graft through tunnel

# *Ritter Implants*

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**COMING SOON !!!**



# *Smart Carts*

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***COMING SOON !!!***



# *VISTA*

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***COMING SOON !!!***

# LIQUID SCISSORS CUT CLEANER

A cleaner cut creates a stronger healing process, and leaves superb margins for suturing

*Dardik Institute, Yale Medical*



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# MORE RELIABLE OVER TIME

The Effects of Sterilization on the Performance, and Reliability of Surgical Instruments

*Harbor-UCLA Medical Center*



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# TISSUE FORCEPS TESTING

"A significant reduction, in otherwise unavoidable tissue damage caused during anastomosis and manipulation"

*Rhode Island Hospital Orthopedic Foundation*



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# SEPARATED FILE REMOVAL

Using indirect ultrasonics for safe retrieval, without the heat

*Dr. Mauricio L. Basso, University of Michigan, Dept. of Endodontics*





# *Sonic Steel*<sup>®</sup>

*Titanium - Discovered in 1793*  
*Stainless Steel - Developed in 1913*  
*Sonic Steel<sup>®</sup> - The first improvement to instruments in 100 years*

*Purchasing stainless steel or titanium forceps and scissors is financial insanity*

All Laschal instruments and the Sonic Steel material are patent protected in the USA and internationally

Web Site



Warranty and Repair Form



**LASCHAL**<sup>®</sup>  
(L'SHAL)

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