Dentoalveolar Surgery



Product Solutions

The Clarizio Standard



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Products for dental alveolar surgery

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Clarizio Instrumentation -



During my 26 year career I have used and developed numerous surgical instruments designed to minimize trauma and maximize efficiency for oral and maxillofacial surgery.

The choice to use KLS Martin® products has been instrumental in my practice. Whether it is a bone grafting or $OrthoAnchor^{TM}$ screw, surgical instrument or

distraction device, the design and quality of KLS Martin® products not only help to achieve the best outcome for my patients, but also provide the ease of use and quality that is so important to creating an environment of productivity and minimal stress for myself, and more importantly my staff.

As an oral surgeon one of the biggest challenges is finding the perfect headlight for performing delicate surgery comfortably. The medLED TM Sapphire TM headlight system is extremely light and comfortable—almost to a point where I forget I'm wearing it. The light itself is so bright that oftentimes I only need to use it at half capacity. This not only maximizes my efficiency, but it also promotes a more productive mood.

The Chiropro L Implantology system is the latest product that I've incorporated into my practice. I've performed close to 20,000 implant surgeries, and because of the Chiropro L I am less traumatic, more accurate, and more efficient than ever. As importantly, my staff, who sometimes find change difficult, love—absolutely love this product! The simplicity of the disposable irrigation lines, the fact that there are no hoses on the handpiece itself to interfere with my technique, the efficient irrigation system, and the smallest head on the market all have alleviated the few remaining difficulties with implant surgery. I've never been happier placing implants in any situation.

Chiropro L

Designed to simplify your daily practice allowing numerous clinical applications such as extractions, implantology, endodontics, and dental surgery.



The Unit

The Chiropro L is a complete surgical and dental implant unit. This product incorporates 7 of the leading implant systems on the market with their complete sequences. The Chiropro L can also be customized according to your needs and adapted for multiple users. From preparation of the implant site to implant placement, the pre-programmed clinical sequence is displayed on the screen. Only a few seconds are needed to define, save, or modify your program.

Extraction Handpiece

The ideal instrument for extracting wisdom teeth. Its elongated head makes for easier access and precise, fast extractions.

Implant Handpiece

Ergonomics above all. The contra-angle integrates a unique internal irrigation system, providing ideal handling. The contra-angle is fitted with the smallest head on the market and two LED light sources to avoid shadow areas.

MX-LED Motor

The MX-LED, the most powerful motor on the market, is currently the only motor to offer LED lighting of equal intensity at both high and low speeds.

Control Panel	Stock No.	Description
·	= 1600349-001	Chiropro L, with peristaltic pump
		 8 pre-programmed implant sequences, 1 endo sequence, 4 individual dental surgery programs
System Includes:		
	= 1600605-001	 MX LED motor, mechanical power of 130 W @ 25,000 RPM, speed range of 100 to 40,000 RPM
	= 1600631-001	 Foot control, 3 buttons, progressive speed, peristaltic pump ON/OFF, program selection, reversal of motor rotation
Handpieces		
Para	= 1600386-001	■ CA 1:5, contra-angle with light, 500 to 160,000 RPM
	= 1600436-001	PM 1:2, straight handpiece,200 to 80,000 RPM, external spray
See Long Control of the Control of t	= 1600598-001	■ CA 20:1L (LED), contra-angle with internal irrigation, 5 to 2,000 RPM with Chiropro L
Accessories	= 1600384-001	CA 1:1, contra-angle with light,100 to 40,000 RPM
	= 1501317-100	■ Bur guard - sterile, disposable, and single-use
	= 1600617-006 (A)	 Aquacare, for removal of physiological liquid deposits
	= 1600036-006 (B)	■ Spraynet®, for general cleaning purposes, internal and external
A. B. C.	= 1600064-006 (C)	 Lubrifluid®, for lubrication of handpieces and motors
	= 1500984-010	Irrigation lines - sterile, single-use

medLED™ Sapphire™

Bright, comfortable, and long lasting. The ultimate LED cordless headlight!





Battery longevity

Two lithium ion batteries provide over 6 hours of full brightness. Fresh batteries can be hot swapped without interrupting use.

Co-axial beam angle

Ergonomic design allows for a full range of motion to obtain desired beam angle.



Rapid USB charging

USB charging is fast and easy from a wall adapter or computer.



Battery fuel gauge

Battery fuel gauge indicates how much battery power remains.



Enhanced spotSpot adjustment allows user to fine tune the spot image for working distance.

to power the unit on and adjust to the desired brightness level.

OR Light BrightnessThe same brightness of an operating room light, providing 200,000 lux.

	Item No.	Description
	Headlight	
_	пеацидиц	
	05-000-13	Headlight Package includes: medLED™ Sapphire™ headlight, carrying case, and USB charger
	Accessories	
	05-000-14	Two spare lithium polymer batteries
	05-000-18	Four bay lithium polymer battery charger
	05-000-16	USB charging cable and adapter
		Secure carrying case*
	05-000-17	Full padding replacement set

Instruments

Clarizio Exodontia



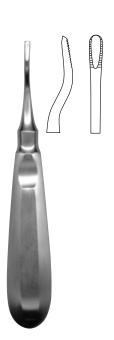
Seldin root pick

01-051-29



Clarizio elevator, serrated, #46R

01-105-94



KLS Martin[®] modified elevator 077R

01-105-99



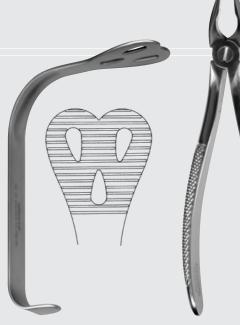
Micro-Mosquito forceps, curved, delicate, 12.5 cm, 5"

04-321-12



Martin needleholder

20-652-17



Weider retractor, large

38-297-02



upper anterior, #1102

01-041-00



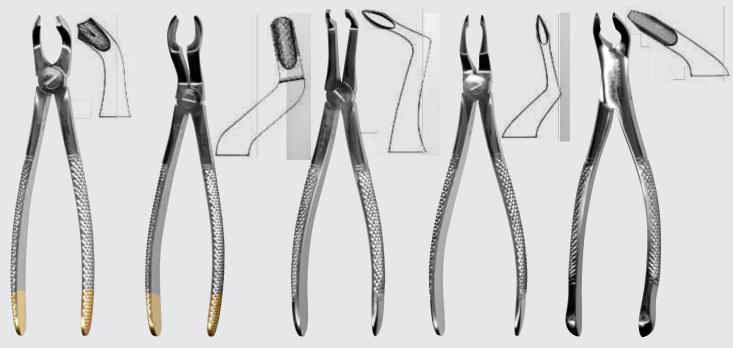
Extracting forceps, upper universal, #1107

01-041-01



Extracting forceps, lower anterior, #1174N

01-041-02



Extracting forceps, lower furcation, #79D

01-041-03

Extracting forceps, upper molar, #67D

01-041-04

Extracting forceps, lower root, #145E

01-041-05

Extracting forceps, upper root, #1251D

01-041-06

Extracting forceps, lower universal, #1121

01-041-07

instruments

Clarizio Sinus Lift



 ${\it Clarizo \ sinus \ lift \ instruments, \ complete \ set}$

01-105-90



Office Fixation Kit

A compact, adaptable, complete titanium fixation system for preprosthetic procedures.



The Office Fixation kit offers a full solution for a variety of fixation needs. The modular system can contain products for preprosthetic bone augmentation and orthodontic anchorage, as well as in-office osteosynthesis requirements.

Standard Office Fixation Kit, Block Graft Fixation

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Stock #	Description
55-961-28	Container
25-402-99	Screwdriver handle
01-002-93	Cross-drive blade, 80 mm, 1.5 mm system
25-675-09	Cross-drive screws, 1.5 mm x 9 mm, 2 sets of 5/pkg
25-452-00	Twist drill, 1.1 mm x 50 mm, with notch



Optional accessories for Office Fixation Kit

MMF Screws



Diameter	Thread Length	Total Length	MMF
2.0	8.0 mm	12.0 mm	25-090-08-91
2.0	12.0 mm	16.0 mm	25-090-12-91



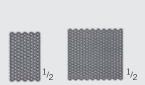
Optional bone graft accessories

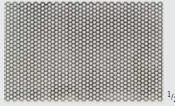
Cross-Drive Fixation Screws (sold in packages of 5)



Diameter	Total Length	Self-Tapping	Drill-Free®
1.5	4.0 mm	25-675-04	25-678-04
1.5	5.0 mm	25-675-05	25-678-05
1.5	7.0 mm	25-675-07	25-678-07
1.5	9.0 mm	25-675-09	
1.5	11.0 mm	25-675-11	
1.5	13.0 mm	25-675-13	
2.0	5.0 mm	25-672-05	25-679-05
2.0	7.0 mm	25-672-07	25-679-07
2.0	9.0 mm	25-672-09	
2.0	11.0 mm	25-672-11	
2.0	13.0 mm	25-672-13	

Micro Mesh (0.2)





WxL	Stock #	
25 x 15 mm	25-040-40	
30 x 30 mm	25-040-35	
85 x 54 mm	25-040-25	

Blades



	Cross-Drive						
	Diam	eter	Total Length	Stock #			
		1.5	58 mm	25-432-97			
		2.0/2.3	94 mm	25-484-97			
	Right	Angle Bla	de				
	Cross	-Drive					
		1.5	18 mm	50-915-15			
2		2.0/2.3	17.5 mm	50-915-20			



J-no	tch Attac	chment		
Dian	neter	Stop Length	Total Length	Stock #
	1.1	5 mm	50 mm	25-452-05
	1.1	7 mm	50 mm	25-452-07
	1.5	20 mm	50 mm	25-449-16
Dent	al Latch			
	1.1	7 mm	20 mm	50-920-07
	1.1	No Stop	30 mm	50-920-00
	1.5	7 mm	20 mm	50-924-07
	1.5	No Stop	34 mm	50-924-00

Tenting screws

Designed by Joel L. Rosenlicht, DMD



A 5 mm tenting screw in position after preparation of the recipient site and prior to graft placement.

Ideal for Block or Particulate Augmentation

- · Tissue friendly, 5 mm head protects and stabilizes the graft
- \cdot 4 mm thread depth for decreased risk to the nerve and tooth roots
- · Augment 3, 5, 7 mm of height or width
- · Smooth shaft for lag screwing of bone blocks
- · Drill-Free® tip design effective in all but the most dense cortical bone
- · Cross-drive friction fit interface to screwdriver

Stock #	Cartridge	Thread	Augmentation Height	Total Length
01-970-07-1	99-970-07	4 mm	3 mm	7 mm
01-970-09-1	99-970-09	4 mm	5 mm	9 mm
01-970-11-1	99-970-11	4 mm	7 mm	11 mm



Ideal for Block Grafting

- \cdot 5 mm thread depth for decreased risk to the nerve and tooth roots
- · Augment 4-8 mm of height or width
- · Smooth 1.5 mm shaft for lag screwing of bone blocks
- · Drill-Free® tip design effective in all but the most dense cortical bone
- · Cross-drive friction fit interface to screwdriver

Stock #	Thread	Augmentation Height	Total Length
01-077-09-1	5 mm	4 mm	9 mm
01-077-11-1	5 mm	6 mm	11 mm
01-077-13-1	5 mm	8 mm	13 mm

OrthoAnchor™ screws

The OrthoAnchor™ system is absolute anchorage with immediate loading which results in better, faster results without headgear.



Advantages of the OrthoAnchor™ Screws

- · Maximizes patient results without headgear, optimizing the treatment time and results
- · Anchorage possible in vectors that are difficult with traditional orthodontic appliances
- · Single screw offers simple placement with a Drill-Free® tip, and optimizes the cost and effort
- Thread lengths are optimized in lengths to reach the lingual cortex for maximum stability in attached tissue between tooth roots
- · Smooth shaft in 1.5/2.0 mm tissue collar distances
- Smooth head is tissue friendly, and has a recessed circumference and hole for convenient attachment using ligature wire or elastics

Developed in cooperation with Dr. Paul Thomas, Senior Research Fellow, Eastman Dental Institute, London, England

Drill-Free® Screws



		Centre-Drive®		Cross-Drive	
Total Length	Cartridge	Single Screw	5 pack Screws	Single Screw	5 pack Screws
4 mm	99-668-04	25-668-04-1	25-668-04	25-678-04-1	25-678-04
5 mm	99-668-05	25-668-05-1	25-668-05	25-678-05-1	25-678-05
7 mm	99-668-07	25-668-07-1	25-668-07	25-678-07-1	25-678-07

Drill-Free® Screws



1.5 mm "soft tissue collar"			
Diameter	Total Length	Cross-Drive	Cartridge
1.5 mm	6 mm	50-340-08	99-340-08
1.5 mm	8 mm	50-340-10	99-340-10
1.5 mm	10 mm	50-340-11	99-340-11
2.0 mm	6 mm	50-345-11	99-345-11
2.0 mm	8 mm	50-345-13	99-345-13
2.0 mm	10 mm	50-345-15	99-345-15



2.0 mm "soft tissue collar"			
Diameter	Total Length	Cross-Drive	Cartridge
1.5 mm	8 mm	50-340-12	99-340-12
1.5 mm	8 mm	01-350-08	99-340-12
2.0 mm	8 mm	50-345-14	99-345-14

OrthoAnchor[™] plates

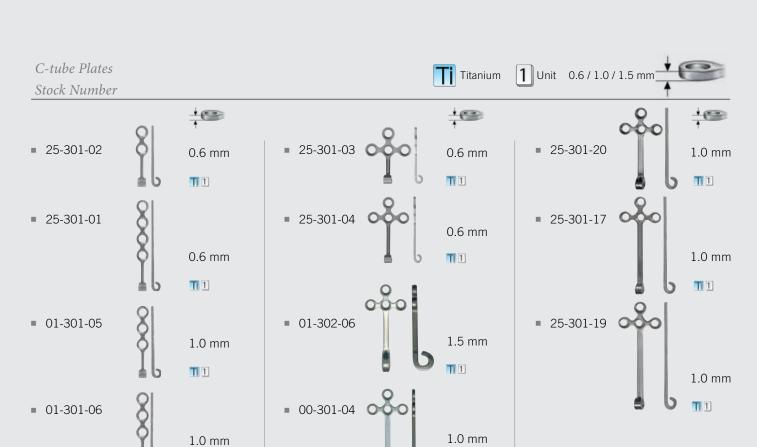
The OrthoAnchor™ system is absolute anchorage with immediate loading which results in better, faster results without headgear.



Advantages of the C-tube Plates

- · Maximizes patient results without headgear, optimizing the treatment time and results
- · Anchorage possible in vectors that are difficult with traditional orthodontic appliances
- Multipoint fixation offers better stability than single screws and requires only monocortical placement of 1.5 diameter microscrews
- · Screws can be placed in optimal bone, while the bridge in the plate brings the attachment area into the optimal zone for the orthodontist
- · Tubes and hooks offer a variety of options; passage of the archwire, as well as fixation by ligature wire, elastics or bracket

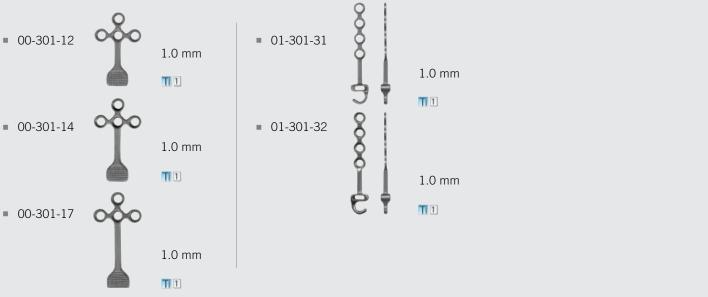
Developed in cooperation with Prof. Dr. Kyu Rhim Chung, Kyung-Hee University Hospital



Bondable Surface Plates

1

Hook Plates



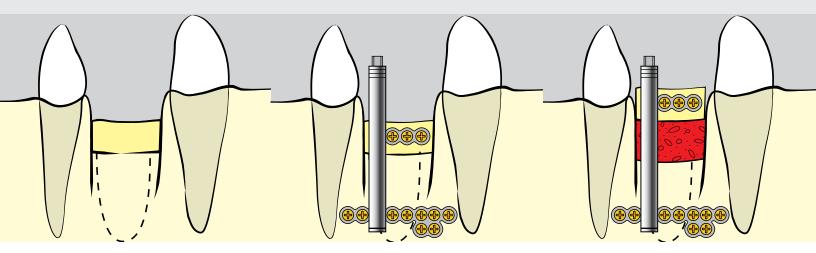
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C-palate Plate



Alveolar distraction

Intraoral vertical bone distraction of alveolar ridge



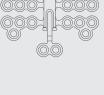
Vertical bone defects of the alveolar ridge are a functional and aesthetic problem.

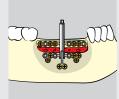
The device was developed to distract the alveolar ridge based on Ilizarov's technique and the pioneering work of McCarthy, Diner and Wangerin.

Indications

- · Partial defects of the vertical alveolar ridge.
- · Orthodontic indications as vertical replacement of tooth segments, therapy of local open bite.

Micro Track		Description	Stock No.	Dist. Length
	\ \ - \(\)	 Designed for maxillary and mandibular distraction for single tooth segments. 	51-523-06	■ 6.0 mm
		1.0 mm recommended screws	■ 51-523-09	■ 9.0 mm
		■ 3 turns of 360° = 1.0 mm of distraction	■ 51-523-12	■ 12.0 mm
Track Plus		Uses patient screwdrivers 51-525-90 & 51-525-95		
		Designed for maxillary and mandibular	■ 51-524-16*	= 6.0 mm kit
		Alveolar distraction for segments up to 35.0 mm.	51-524-19	■ 9.0 mm kit
	■ 1.5 mm recommended screws	■ 51-524-22*	■ 12.0 mm kit	
		■ 3 turns of 360° = 1.0 mm of distraction	51-524-25	■ 15.0 mm kit





- 3 turns of 360° = 1.0 mm of distraction
- Uses patient screwdrivers 51-525-90 & 51-525-95
- * includes qty. 6 1.5 x 5.0 mm cross-drive screws & patient screw driver 51-525-95





Recommended Screws	Cross-	-Drive
Size	Self-Tapping	Drill-Free®
1.5 x 4.0 mm	25-675-04	25-678-04
1.5 x 5.0 mm	25-675-05	25-678-05
1.5 x 7.0 mm	25-675-07	25-678-07
1.5 x 9.0 mm	25-675-09	
1.5 x 11.0 mm	25-675-11	
1.5 x 13.0 mm	25-675-13	
1.8 x 5.0 mm	25-676-05	25-679-05
2.0 x 5.0 mm	25-672-05	25-679-05
2.0 x 7.0 mm	25-672-07	25-679-07
2.0 x 9.0 mm	25-672-09	
2.0 x 11.0 mm	25-672-11	



Distraction screwdriver, combo straight & angled

Patient Track screwdriver, 1.0 mm system

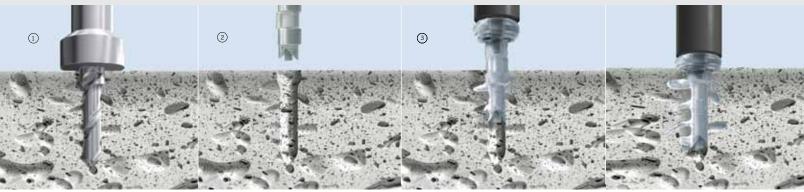
51-525-90

51-525-95

A Revolution in Craniomaxillofacial Osteosynthesis



Guided bone regeneration and preprosthectic augmentation concepts using Resorb- $X^{\text{\tiny TM}}$ PDLLA implants. PDLLA made up of lactides and is 100% amorphous. The biological degradation process by hydrolysis is predictable and produces no crystalline tissue changes. All constituents are completely discharged through the metabolic channels with no residues left.



Barrier fixation with SonicWeld Rx^m is very simple: Drill a pilot hole (1) and seat the tip of the SonicPin Rx into the hole (2). Place slight forward pressure on the SonicPin Rx then activate the switch and push into the bone (3). Allow the structure to consolidate for a moment, then twist and remove the sonotrode. Subsequently apply the foil or membrane and sonicweld a barrier to the pre-placed SonicPins Rx with similar insertion steps (4).

The SonicWelder Rx, the heart of the system

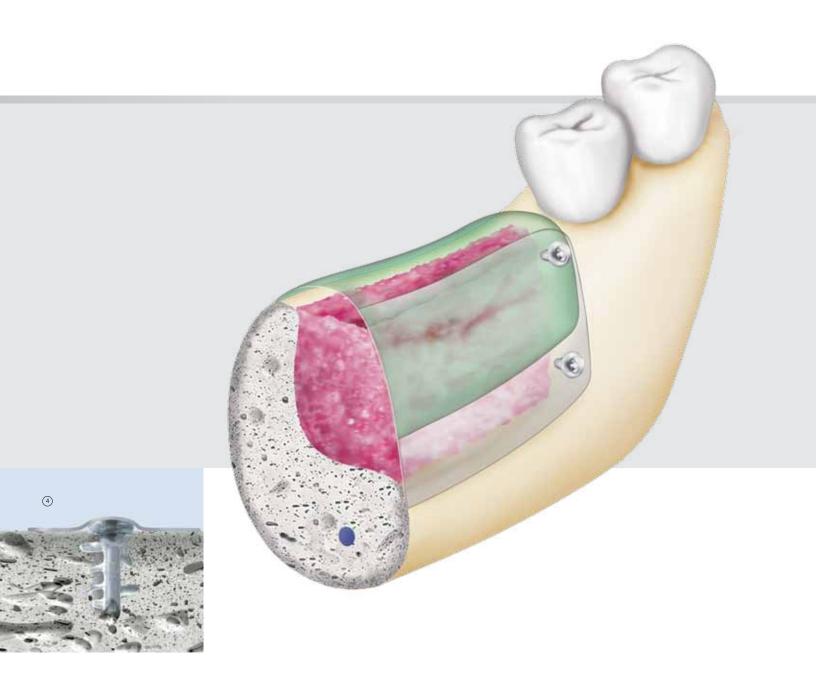
- · Simple setup and operation
- · No maintenance
- · Sterilizable handpiece
- · Footswitch operation



The SonicPins Rx

- · Available in 2 diameters 1.6 mm and 2.1 mm
- · Self-retaining by friction-fit
- · Made from PDLLA resorbable polymer
- · No twisting motion needed for insertion





Shell technique according to Dr. Iglhaut The "shell" technique invented by Dr. Iglhaut is a completely novel approach. It makes use of the rigidity of PDLLA membranes to define a space to pack bone particulate material into.

Shell technique

The required SonicPins Rx are prefixed and the membrane is then welded in place. Particulate autogenous bone and bone substitute materials are used for the bone graft. Crestal barrier and tension free of the alveolar ridge is achieved with diffusion-open collagen membranes. These membranes offer the best soft tissue tolerance and counteract potential dehiscences. The "shell" technique not only avoids time-consuming dissection by bone splitting, but also eliminates the resorption risk associated with the transplantation of small bone grafts.



Original situation of a buccal defect in region 34-36



Laterally supported immediate implantation of the 0.1 mm PDLLA membrane



Complete 3D volume reconstruction



Tension-free wound closure is key



Stable reconstruction result even 6 months after the operation



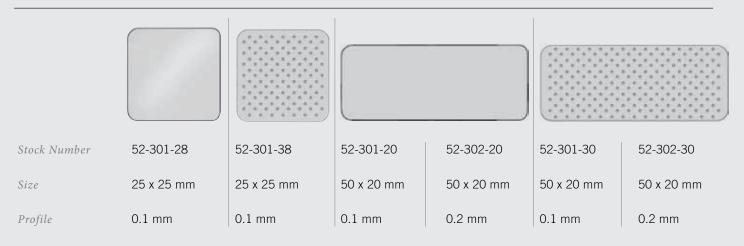
Advancement flap plasty for stable soft tissue structure



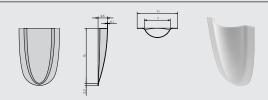
Prosthesis in place



 $\ensuremath{\mathsf{OPG}}\ 1$ year after the operation



3D Foil - Alveolar Protector



Stock Number 52-301-07-04

Size 7 x 2.5 mm

Profile 0.1 mm

SonicPins Rx	Ø 1.6 x 4 mm	Ø 1.6 x 5 mm	Ø 2.1 x 9 mm Ø 2.1 x 11 mm
	Ħ		

Pack of 2







52-521-59-04

Autogenous Bone Grafters mx-grafter® and ebner™ 502 Shave Bone

mx-grafter $^{\circ}$

- · Integrated system cuts, collects, and delivers
- \cdot Provides sterile off the shelf use
- \cdot Simultaniously harvests up to 5 cc of bone and blood



ebner™ 502

- · Integrated system cuts, collects, and delivers
- · Low cost replaceable blade and sterilizable handle
- \cdot Harvests bone and blood mixture
- · Straight, down angle, and up angle handles

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