WalterLorenz™

Surgical Assist Arm

SAT

ZIMMER BIOMET

Your progress. Our promise.®

MAKING **EVERY MOVE** COUNT

The WalterLorenz™ Surgical Assist Arm is a bionic, electromechanical arm impacting surgical retraction and instrument positioning by reducing fatigue, optimizing site exposure, and improving the overall academic experience and O.R. efficiency in the surgical environment.

Features and Benefits

- **Strength and Stability**
- **Simple and Flexible Operation**
- **Maximum Access and Visualization**
- **Multidisciplinary Surgical Use**
- **Innovative O.R. Optimization**

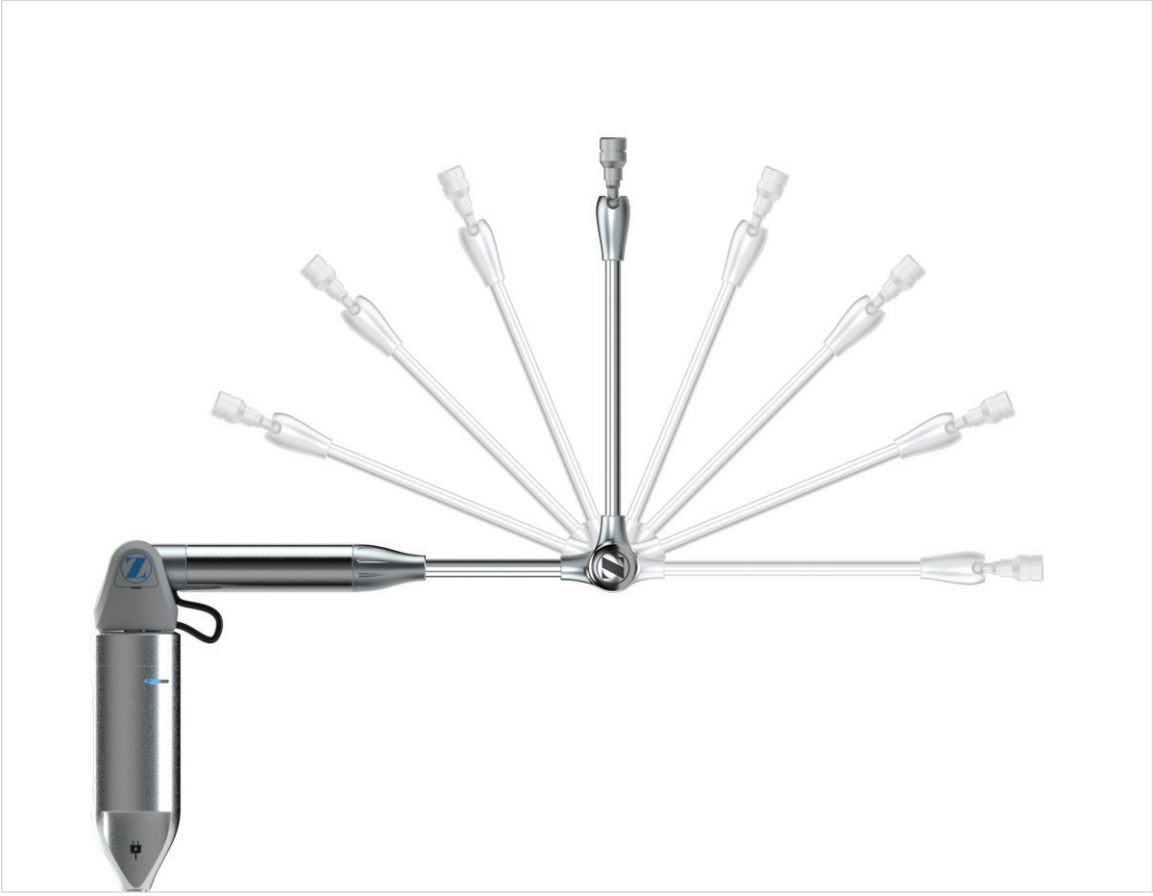
Strength and Stability

- Fatigue-free retraction over long periods of time – no muscle weakness or tremors
- Position instruments and tissue without obstructing the surgical field of view
- Steady holding force for retraction and anatomical positioning
- Eliminates drift of instrumentation and retractors associated with human assistance

Simple and Flexible Operation

6-Degrees of freedom mimicking the human arm	Simple, single-handed instrument positioning at the push of a button
Interchangeable distal arm lengths enable wide range of motion	Rotating table rail clamp allows for advanced flexibility in cases of O.R. table tilting

Simple and Flexible Operation



Long Distal Arm

Short Distal Arm

Maximum Access and Visualization

Position instruments and retract tissue without obstructing the surgical field of view	Minimal shift in field-of-view during unlock/lock cycle
Unique, compact design allows for easy integration into the O.R. team	Steady retraction for up to 8 hours when using the battery

Multidisciplinary Surgical Use

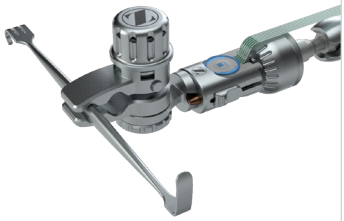
Developed in partnership with a group of leading multidisciplinary surgeons	Versatility in height, arm length, position along table, and angulation accommodates different surgical sites
Ideal for use with semi-dynamic instrumentation in a variety of procedures	Use with Walter-specific instrumentation or Universal Instrument Holders

Universal Instrument Holders

Forceps

Flat/Malleable

Small



Large Inline

Large 90°

Allow staff and residents to focus on critical tasks and skills development

Optimize O.R. Efficiency

Optimize O.R. scheduling	Make staff available to focus on critical O.R. tasks
Afford residents opportunity to practice surgical skills through active participation	

Anatomy of the WalterLorenz™ Surgical Assist Arm

1. End Effector
2. Distal Arm
3. Proximal Arm
4. Control Box with User Interface Keypad

Sterile Drape

Sterile, Disposable Unlock Button

WAL100 - All Inclusive System*

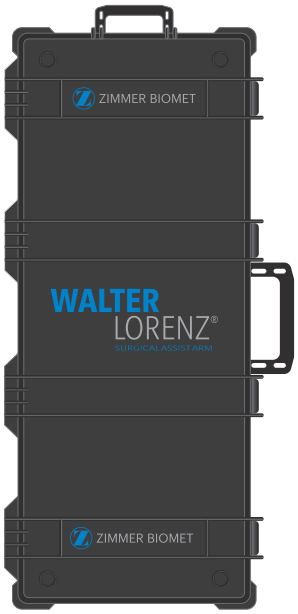
An assembled arm

Base unit with control box
Not Sold Separately

Rotating Table Rail Clamp
WAL109

Short distal arm
WAL105

Long distal arm
WAL106



Pelican Case with Wheels
WAL122

Power Supply Cord (US)
WAL110

Wrench
WAL125

WAL100 - All Inclusive System - Includes only items shown on this page

Items not to scale

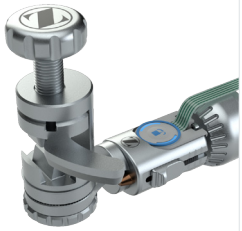
Attachments, Disposables, and Universal Instrument Holders

End Effector
WAL119

Sterile Button and Drape
WAL121

Flat/Malleable Universal
Instrument Holder - **WAL301**

Small Universal
Instrument Holder - **WAL302**



Forceps Universal
Instrument Holder - **WAL304**

Large Inline Universal
Instrument Holder - **WAL317**

Large 90° Universal Instrument
Holder - **WAL316**

Torque Relief Tool
WAL318

Items not to scale

CMF Instruments

Double Pallatal Retractor
WAL401

Minnesota Tongue Depressor &
Cheek Retractor - **WAL402**

Dingman Bone Holding Forceps,
Heavy Pattern - **WAL403**

Wieder Retractor, Serrated,
Small Blade - **WAL404**

Wieder Retractor, Serrated,
Large Blade - **WAL405**

Senn Retractor, Blade Only
WAL406

Senn Retractor, Prongs Only
WAL407

Obwegeser Alveolar
Retractor - **WAL409**

Items not to scale

General and Multi-Specialty Instruments

Freer Double Hook, Sharp
WAL306

Army Navy Retractor, Set of 4 (2 Small & 2 Large)
WAL310

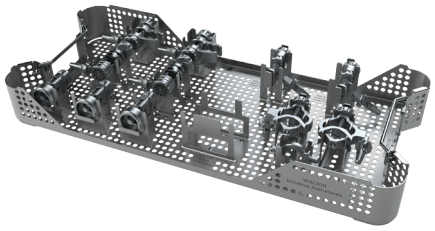
Ribbon Retractor, 17/25mm
WAL311

Richardson Retractor, Small
WAL313

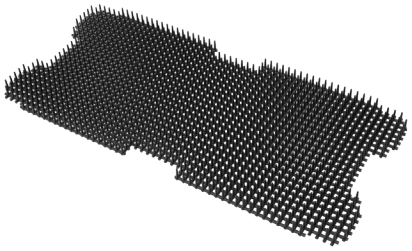
Items not to scale

Instrument Trays

A completely customizable solution for system attachments and instrumentation



Universal Instrument Tray
WAL300



Finger Mat (only**)
WAL321

*Tray sold separately

Tray Lid (only**)
WAL322

***WAL300** - Includes all items shown on this page. ** Additional parts can be purchased separatrely

Items not to scale

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1520 Tradeport Drive • Jacksonville, FL 32218-2480

Tel 904.741.4400 • Toll-Free 800.874.7711 • Fax 904.741.4500 • Order Fax 904.741.3059

www.zimmerbiomet.com

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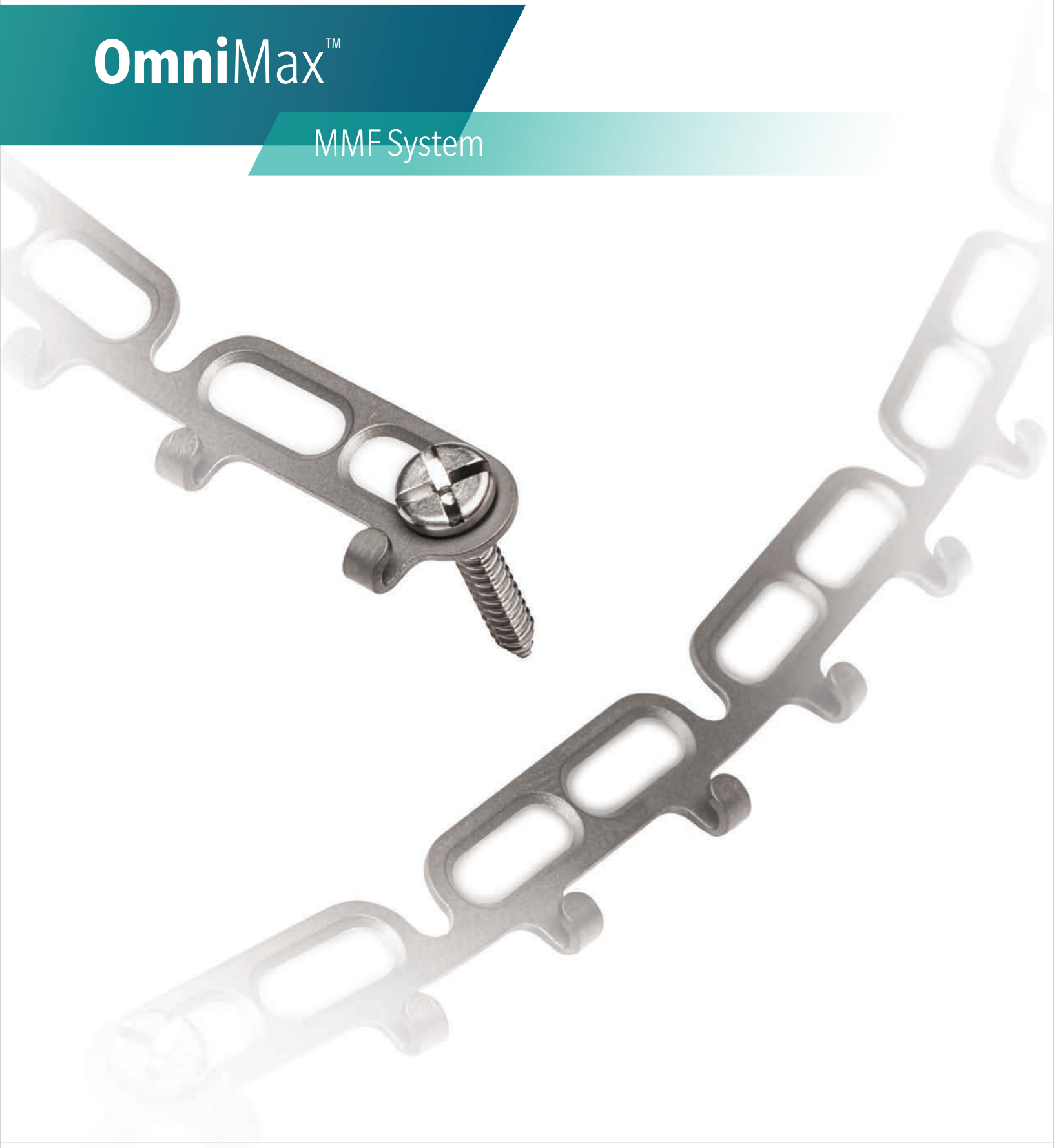
Toermalijnring 600 • 3316 LC Dordrecht • The Netherlands

Tel +31 78 629 29 10 • Fax +31 78 629 29 12

OmniMax™

MMF System



CMF

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We reinvented the bar. Then we raised it.

Bone-borne arch bars offer the strength and stability of Erich arch bars combined with the speed and simplicity of IMF screws. They also provide surgeons, hospital staff and patients with several benefits:

- Reduced need for interdental wiring
- Minimized risk for penetrating wire-stick injury
- Increased OR efficiency may occur due to shortened application/removal time
- Expanded application and removal options – procedure may be performed in a hospital or office setting

It's not just what we make,
It's what we make possible

1 Extended Screw Insertion Slots

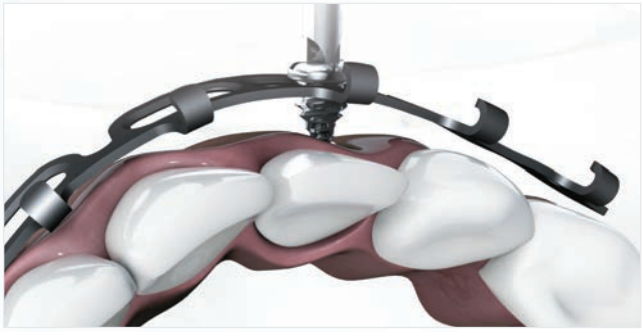
Our elongated, semi-locking slotted arch bar allows for variability in screw placement for tooth root avoidance.

2 Type II Anodization

OmniMax Arch Bars are Type II anodized to increase fatigue strength and offer a smooth surface that minimizes sharp edges which may reduce patient irritation.

3 Adjustable, Semi-Locking Technology

The unique arch bar and screw engage together to elevate the arch bar off of the soft tissue and to help prevent gingival compression.



4 An All-Inclusive, Adaptable MMF System

- The OmniMax MMF System includes bone-borne arch bars, Erich Arch Bars and uniquely-designed IMF screws.
- The system can be used as a stand-alone tray and is also compatible with the TraumaOne™ system for MMF procedures.
- The outer container can be easily customized to house additional surgical instrumentation or implants - adapting to your surgical preferences.

Step 1. Determine Arch Bar Length

Deburr area on adjustment tool.

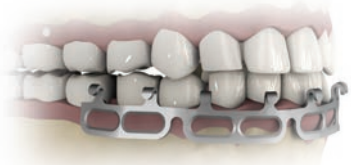
Determine length of arch bar required and cut to appropriate length, if required.

TIP: A deburr area can found on the side of the Adjustment Tool, item #01-0292, for smoothing of rough edges after cutting.

Step 2. Contour The Arch Bar

Fig. 1

Fig. 2

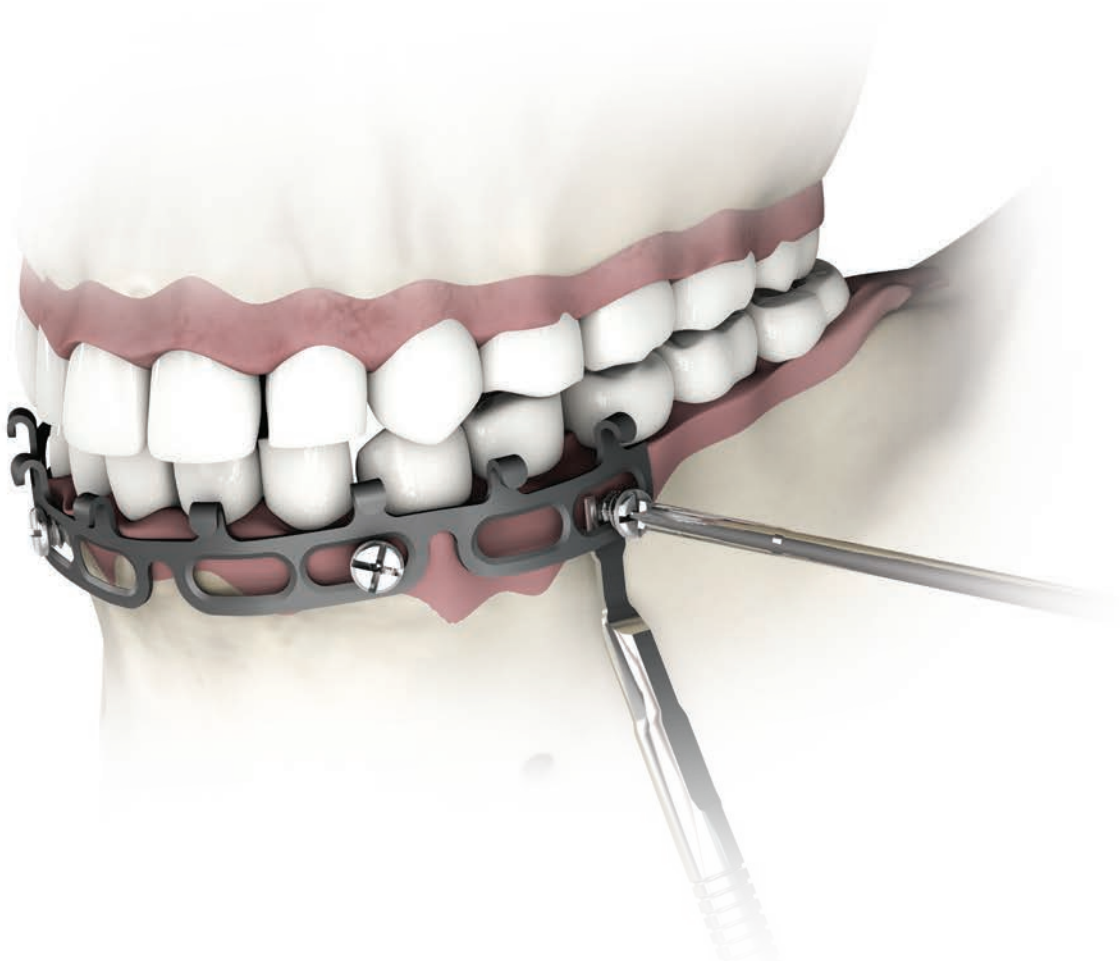


Manually contour the arch bar to approximate the shape of the maxilla or the mandible.

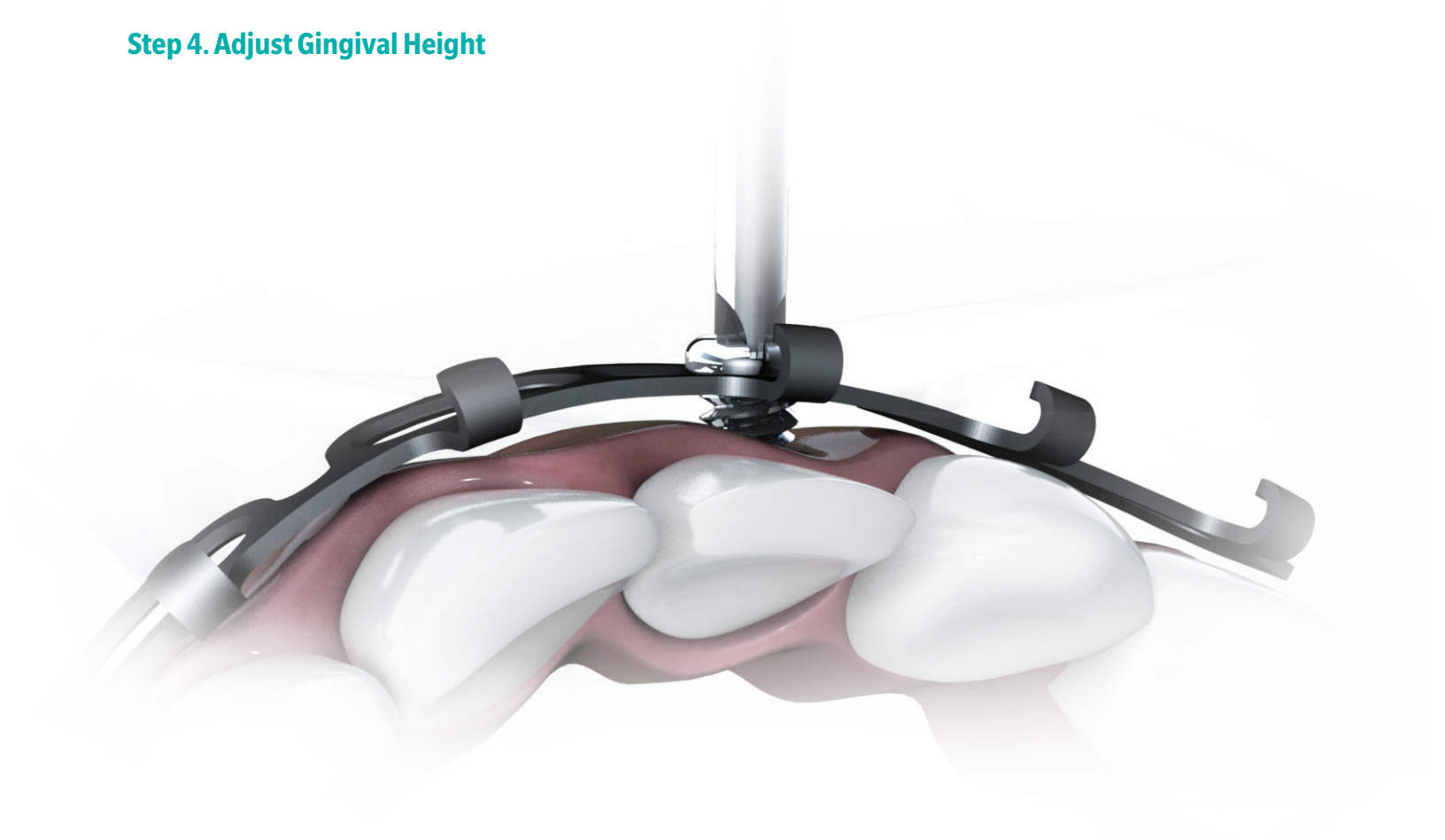
TIP: The arch bar may require additional contouring in the mandible to accommodate patient anatomy. See image for guidance. Perform slight in-plane bend to most posterior segment on each side (**Fig. 1**). Perform slight twist to most posterior segment on each side (**Fig. 2**).

Step 3. Insert Screws

Insert the self-drilling screw into the bone through a single slot of the arch bar, in between tooth roots, until the bar is seated in the retention groove.
Tip: For screw insertion at angles in excess of 10 degrees, the Adjustment Tool helps to enable proper engagement into the bar.



Step 4. Adjust Gingival Height



As screw engages with the arch bar, the bar is pulled towards the head of the screw until seated in the retention groove (Fig. 1, Fig. 2). Upon seating in the retention groove, the final soft tissue stand off can be adjusted by inserting the screw closer to or further away from the gingiva (Fig. 3, Fig. 4).

Fig. 1

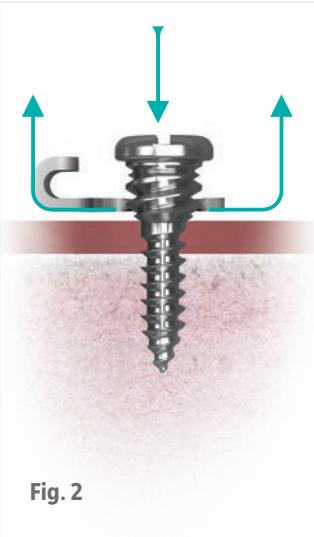


Fig. 2

Fig. 3

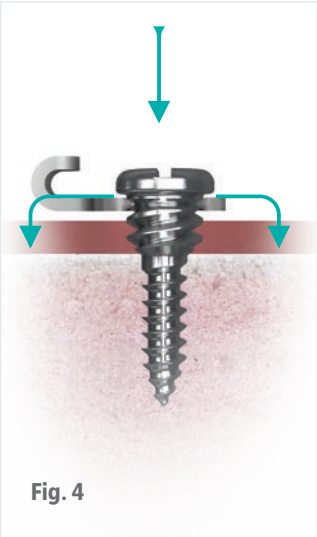
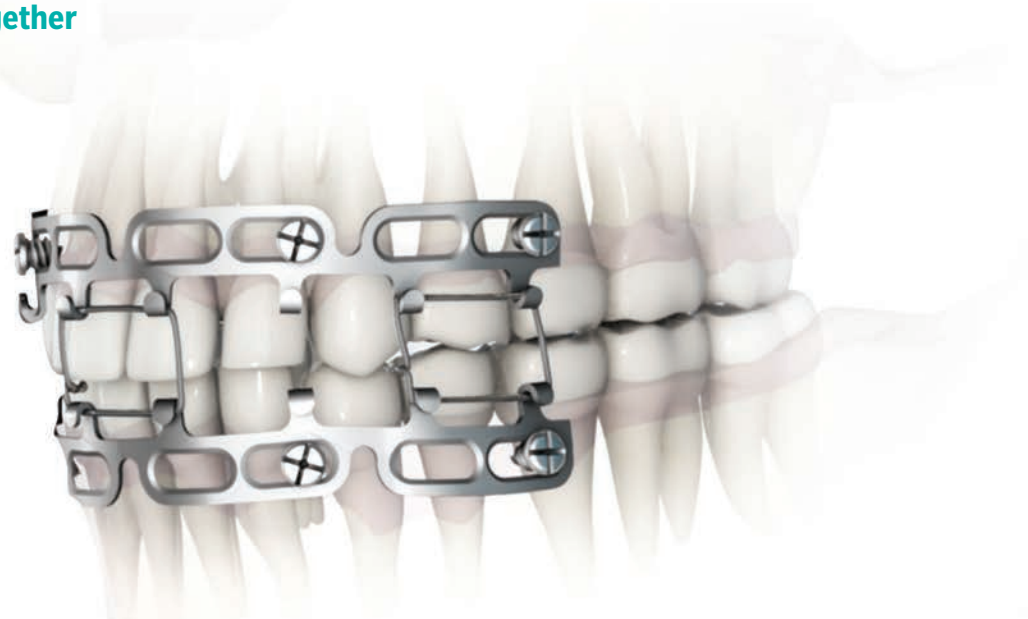


Fig. 4

Step 5. Repeat Screw Insertion

Repeat screw insertion along the arch bars, ensuring that a minimum of three screws are used per bar and no more than two consecutive slots remain empty. Four screws per bar may be required depending on the length of the arch bar used.

Step 6. Wire Bars Together



A minimum of two, 24-gauge ligature wires should be wrapped around the arch bar hooks between the maxilla and mandible to achieve MMF. Different gauges (up to 18 gauge wire) of wires or elastics may be used to achieve MMF. **Arch Bar Removal**: The OmniMax MMF System can be removed in the office or clinic with local anesthesia or local anesthesia with sedation at 4 to 6 weeks postoperative.

Implants and Instruments

2.0mm OmniMax and IMF Screws

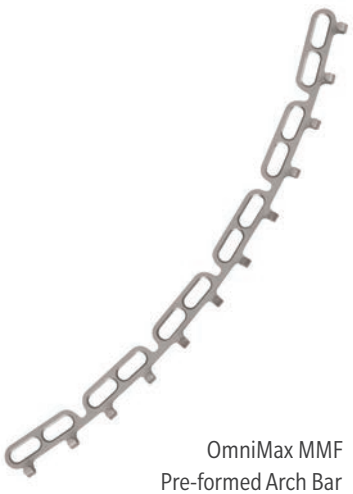
Self-drilling OmniMax MMF Screws

Part No.	Description
91-5707	2.0 x 7.0mm
91-5709	2.0 x 9.0mm
91-5711	2.0 x 11.0mm

Self-drilling IMF Screws

Part No.	Description
91-5607	2.0 x 7.0mm
91-5609	2.0 x 9.0mm
91-5611	2.0 x 11.0mm

Bars and Wires

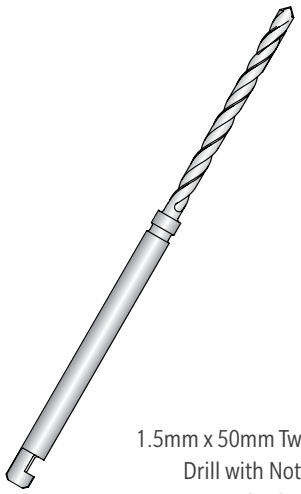


OmniMax MMF
Pre-formed Arch Bar
01-0298

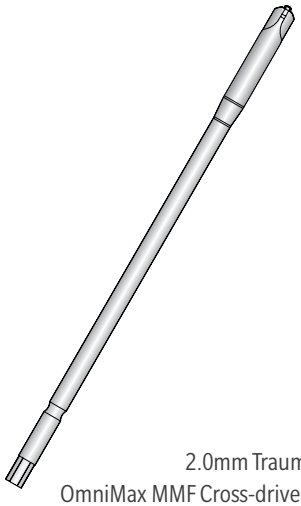
24-Gauge Ligature Wire,
Pre-stretched, 10 Pack
01-5824

Erich Arch Bar, 13cm , 12 Pack
01-0295

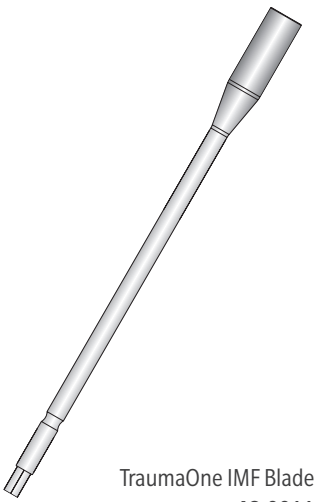
Blades and Drills



1.5mm x 50mm Twist
Drill with Notch
01-9196



2.0mm TraumaOne
OmniMax MMF Cross-drive Blade
46-1005



TraumaOne IMF Blade
46-0011

Items not to scale

Instruments

OmniMax MMF Adjustment Tool
with Deburr
01-0292

Wire Cutter
51-0928

Wire Twister
51-6705

U of M Tongue Depressor
and Cheek Retractor
09-0103*

Wieder Retractor
09-0105*

Black Ratcheting Handle
46-0008*

Items not to scale

*Optional instrumentation may be included in Outer Container. A second ratcheting handle may be included in Outer Container.

Containers and Tray Components

OmniMax MMF Tray
46-2462

OmniMax MMF Outer Container
46-2463

OmniMax MMF Auxiliary Tray
46-2464

The OmniMax MMF System is compatible with the TraumaOne system for MMF procedures.

Items not to scale

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Toermalijnring 600 • 3316 LC Dordrecht • The Netherlands

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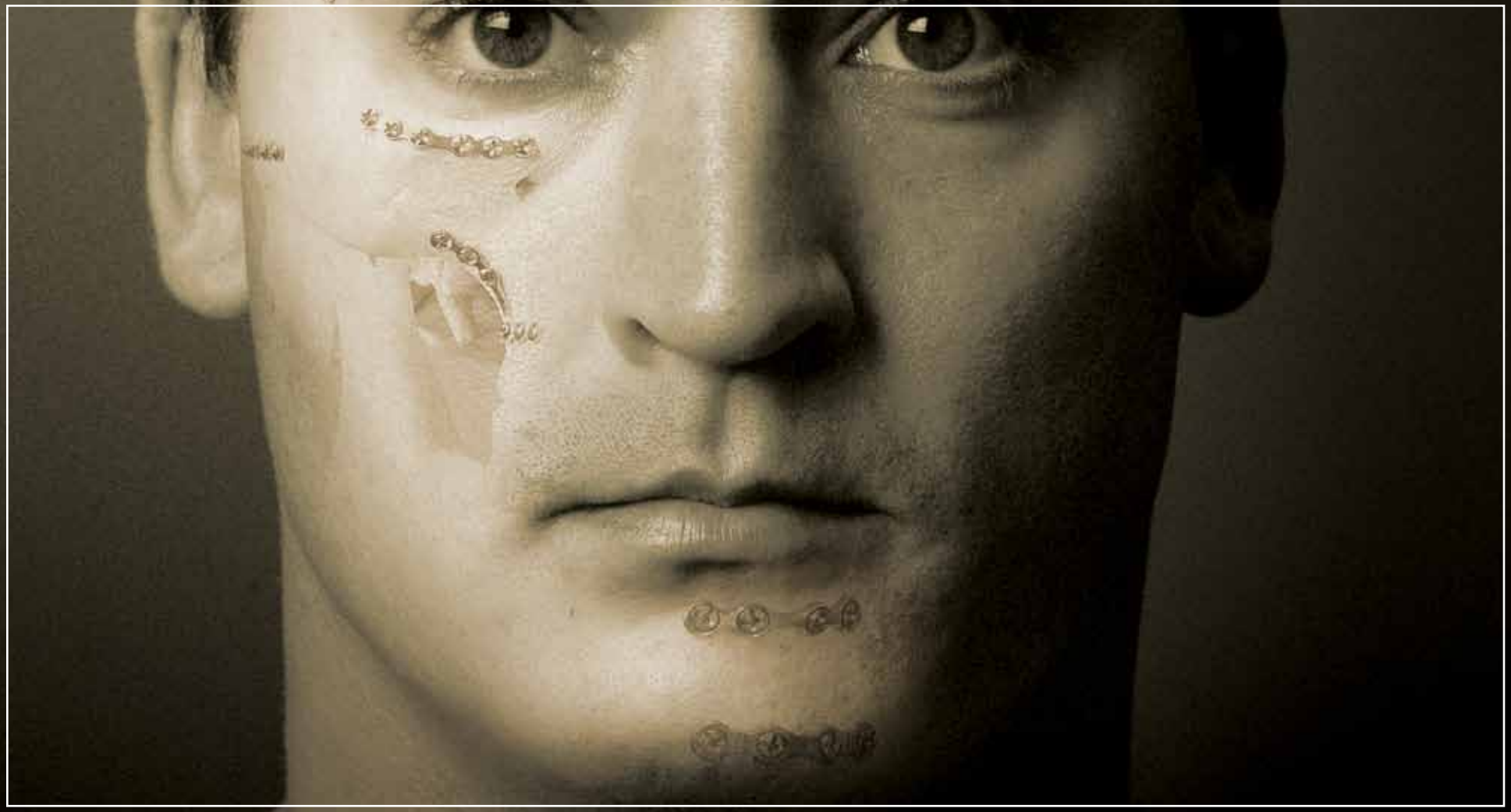
Lorenz® Plating System TraumaOne™

1.5mm/2.0mm/2.3mm



BIOMET® MICROFIXATION

Anticipate. Innovate.™

TraumaOne™**:** The streamlined, all-in-one plating system.

Versatile

Interchangeable plates and screws

Comprehensive

One set contains all implants and instrumentation

Streamlined

Dedicated plate and screw implant containers

Customizable

Extra container pockets and specialized areas for set customization

Clinical Advantages

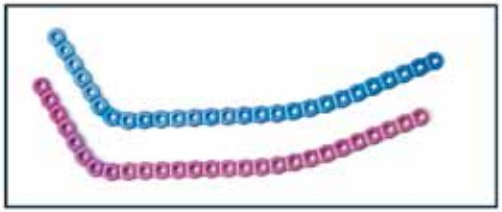
Trocar System

Easy-to-use system features a built-in drill guide and fiber-optic cheek retractor. Screw legend for calibrated drills located on the underside of lid.

IMF Technology

Specialized blade provides enhanced stability during screw insertion.

Reversible Angle Plates



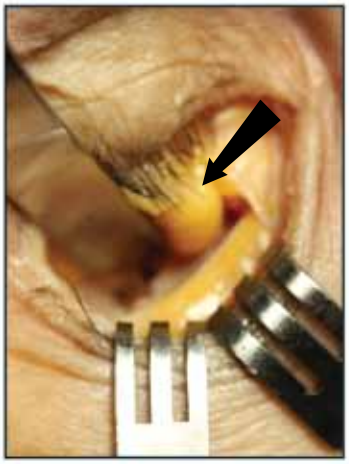
Simplifies plate selection and reduces hospital inventory.

Bone Reduction Blade

Clinical photo courtesy of Herman Kao, DDS, MD

Instrument allows for simple reduction of bony fragments. A T-handle is provided for added control.

Fernandes Orbital Retractor (SP-2243)



The working end provides anatomical landmark positions and is easily adjusted to accommodate different orbital volumes. This versatile instrument provides improved retraction of the orbital fat in comparison to a malleable retractor.

Full Guard (SP-2244)

Clinical photo courtesy of Jason Potter, DDS, MD

A guard aids in the protection of the vascular pedicle while the cutting guide provides saw control. The instrument provides for enhanced accuracy when performing osteotomies for free fibula reconstruction.

What fascinates you about the body is also what drives us. That's why we're always pushing the boundaries of engineering to make products that help you keep the human form as glorious as it was intended. To learn more about our breadth of products, call 800-874-7711 or visit us online at biometmicrofixation.com. We'd love to join you in a conversation about the future.

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www.biometmicrofixation.com

EUROPE
Toermalijnring 600 • 3316 LC Dordrecht • The Netherlands
Tel +31 78 629 29 10 • Fax 31 78 629 29 12

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