

MODfix
Modular Fixation System

UNIfix
Universal Fixation System

Surgical Manual



Cassettes and organizers



Organizer cassette for storage and sterilization of all **MODfix** and **UNifix** drivers and components.



Organizer wheel for storage and sterilization of **MODfix** screws, **MODfix** abutments and **UNifix** screws.

The **MODfix** abutments are to be screwed on to the titanium plate in each of the positions for B, T or M abutments.



UNifix cassette for storage and sterilization of all drivers and components.

Cleaning & Sterilization Instructions

The fixation screws and abutments are provided clean and **NON-STERILE** (requiring sterilization) and are for **SINGLE USE** only.

The instrumentation (drivers, drills and handles) are provided **NON-STERILE** and need to be sterilized before use. The drivers may be used several times, but need to be cleaned and sterilized before each use. The following steps are recommended:

1. Remove all new components (fixation screws and abutments) out of packaging and place in designation slots in the organizer wheel (**MODfix** / **UNifix** kit) or **UNifix** cassette.
2. Completely disassemble instruments (drivers, swivel handle, latch adaptor, etc)
3. Any components (screws or abutments) that have been contaminated with blood or bodily fluids should be discarded as medical waste.
4. Remove any visible debris from the instruments, using a soft non-metallic bristle brush and an appropriate detergent. Rinse thoroughly.
5. Once cleaned and inspected, the drivers, drills and other instruments should be placed into the **MODfix** / **UNifix** kit or **UNifix** cassette.
6. The drivers should be sterilized with moist heat using the following validated steam sterilization guidelines.

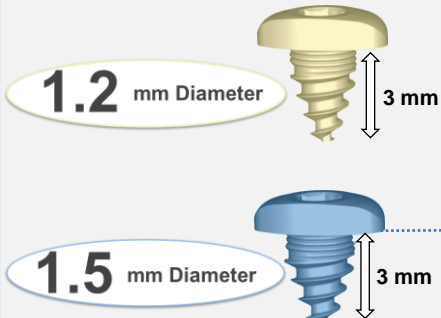
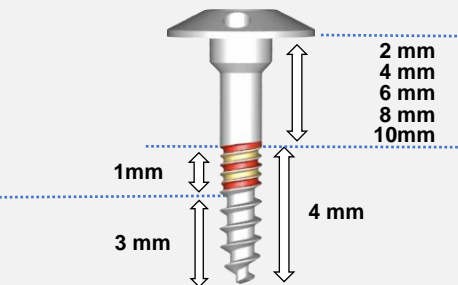
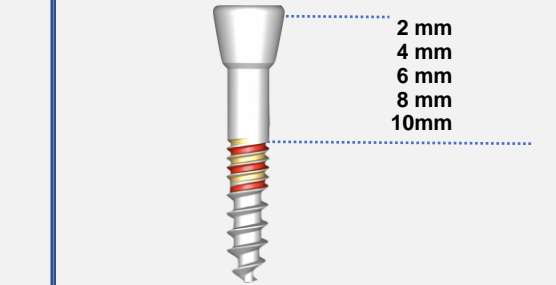
Method	Cycle	Temperature	Exposure Time
Steam	Pre- Vacuum	132°C	4 Minutes Steam Time
		270°F	20 Minutes Dry Time

Note About Stainless Steel Instruments

Stainless steel should not be exposed to the following chemicals: Sodium Hypochlorite (household bleach), Tartaric Acid (stain and tartar remover), Aluminum Chloride, Barium Chloride, Bichloride of Mercury, Calcium Chloride, Carbolic Acid, Chlorinated Lime, Citric Acid, Dakin's Solution, Ferrous Chloride, Lysol, Mercuric Chloride, Mercury Salts, Phenol, Potassium Permanganate, Potassium Thiocyanate or Stannous Chloride, Aqua Regia, Ferric Chloride, Sulfuric Acid, Hydrochloric Acid or iodine.

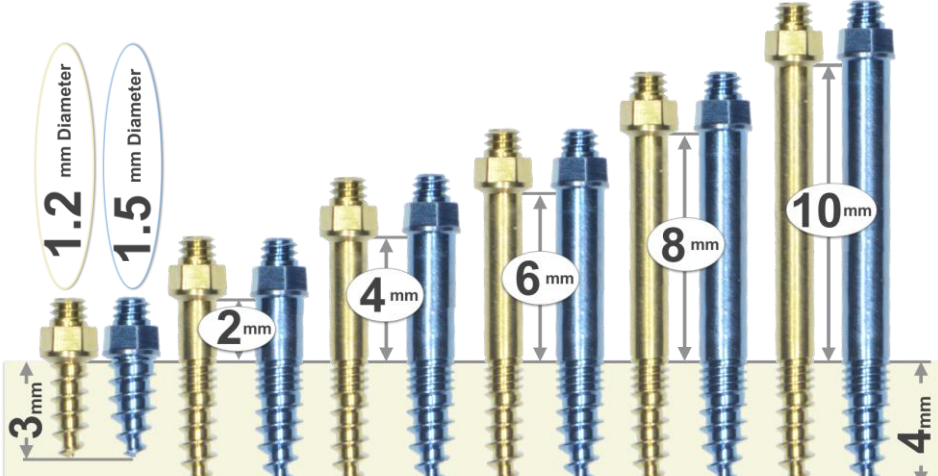
Unifix Universal Fixation system

The **Unifix** systems is comprised of titanium alloy Ti6Al4V fixation screws designed for oral and maxillofacial bone regeneration. Screws are composed of macro- and micro-threads for optimal primary stability. The screws are installed and removed using a hex driver, providing a very stable user interface.

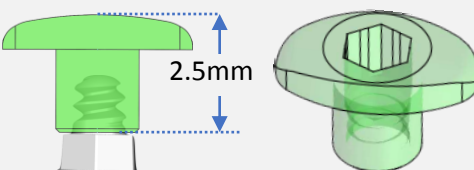
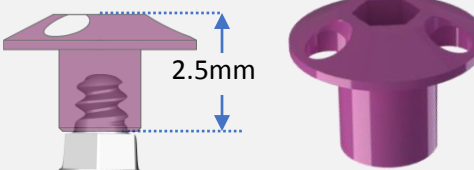
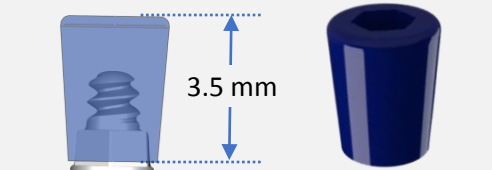
Membrane fixation (M)	Tenting (T)	Block fixation (B)																																								
<p>Unifix Membrane Fixation Screw is intended for stabilization of barrier membrane against host bone. It is 3 mm in length and is available in two diameters.</p> 	<p>This is used to create a tent-pole effect under barrier membrane in guided bone regeneration (GBR). The 4-mm wide head is optimal for creation of a stable space. The eyelets can be used for passage of suture to stabilize a flap or membrane to the screw.</p> 	<p>This screw is used to fixate a block bone graft to host bone. The narrow flared head can stabilize block bone and press donor block against host bone.</p> 																																								
<table border="1"> <thead> <tr> <th>1.2mm Diameter Reference</th> <th>1.5mm Diameter Reference</th> </tr> </thead> <tbody> <tr> <td>1201123001</td> <td>1201153001</td> </tr> </tbody> </table>	1.2mm Diameter Reference	1.5mm Diameter Reference	1201123001	1201153001	<table border="1"> <thead> <tr> <th>Tent (mm)</th> <th>1.2mm Diam Reference</th> <th>1.5mm Diam Reference</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>1201124021</td> <td>1201154021</td> </tr> <tr> <td>4</td> <td>1201124041</td> <td>1201154041</td> </tr> <tr> <td>6</td> <td>1201124061</td> <td>1201154061</td> </tr> <tr> <td>8</td> <td>1201124081</td> <td>1201154081</td> </tr> <tr> <td>10</td> <td>1201124101</td> <td>1201154101</td> </tr> </tbody> </table>	Tent (mm)	1.2mm Diam Reference	1.5mm Diam Reference	2	1201124021	1201154021	4	1201124041	1201154041	6	1201124061	1201154061	8	1201124081	1201154081	10	1201124101	1201154101	<table border="1"> <thead> <tr> <th>Tent (mm)</th> <th>1.2mm Diam Reference</th> <th>1.5mm Diam Reference</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>1202124021</td> <td>1202154021</td> </tr> <tr> <td>4</td> <td>1202124041</td> <td>1202154041</td> </tr> <tr> <td>6</td> <td>1202124061</td> <td>1202154061</td> </tr> <tr> <td>8</td> <td>1202124081</td> <td>1202154081</td> </tr> <tr> <td>10</td> <td>1202124101</td> <td>1202154101</td> </tr> </tbody> </table>	Tent (mm)	1.2mm Diam Reference	1.5mm Diam Reference	2	1202124021	1202154021	4	1202124041	1202154041	6	1202124061	1202154061	8	1202124081	1202154081	10	1202124101	1202154101
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MODfix Modular Fixation System

The **MODfix** systems is comprised of titanium alloy Ti6Al4V fixation screws and complementary titanium alloy Ti6Al4V abutments, designed for oral and maxillofacial bone regeneration. **MODfix** screws are available in two diameters with color-coding. The 1.2mm diameter screws are gold-shaded and 1.5mm diameter screws are blue-shaded. The self-tapping macro-threaded length is 3mm for all screws. Additional 1mm of microthreads is present on all screws, except 3mm-long screw. The threaded portion of the screws are intended for anchorage in bone, while the non-threaded portions is intended to extend outside of the bone and provide tenting effect for bone augmentation.

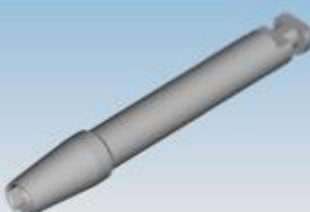

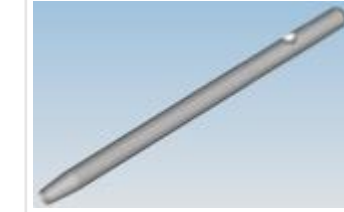
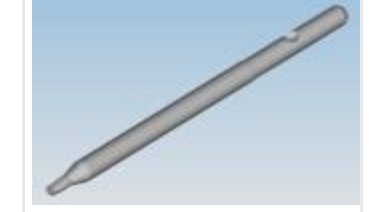






Tent (mm)	1.2mm Diam Reference	1.5mm Diam Reference
0	2201123001	2201153001
2	2201123021	2201153021
4	2201123041	2201153041
6	2201123061	2201153061
8	2201123081	2201153081
10	2201123101	2201153101

MODfix Membrane fixation (M)	MODfix Tenting Abutment (T)	MODfix Block fixation (B)
		
<p>The M abutment is used in conjunction with MODfix™ screw for stabilization of barrier membrane against host bone. The low profile fixates membrane against bone. This can also be used for tenting.</p>	<p>The T abutment plus MODfix™ screw creates a tent-pole effect under barrier membrane. The 4-mm wide head is optimal for creation of a stable space. The eyelets can be used for passage of suture to stabilize a flap or membrane to the screw.</p>	<p>The B abutment plus MODfix™ screw to fixate a block bone graft to host bone. The narrow flared head can stabilize block bone intimately against host bone by pressing the block graft as the abutment is progressively connected to the screw.</p>

UNifix screw and MODfix instrumentation.

The **MODfix** screws may be inserted, using specially designed internal hex drivers. The **MODfix** abutments may be inserted, using external hex drivers. **UNifix** screws may be inserted, using external hex drivers. Both internal and external hex drivers are made of surgical grade stainless steel and are available with two types of connections. Swivel drivers are to be connected to a swivel handle to manually insert screws or abutments. There is also a latch-type driver, which may be used in a contra-angle handpiece, connected to a micromotor. The latch-type external hex driver may also be placed in an adaptor for manual connection of **MODfix** abutments.

 <p>Latch internal hex driver for insertion of MODfix screws.</p>	 <p>Latch external hex driver for insertion of MODfix abutments or UNifix screws.</p>	 <p>Swivel internal hex driver for insertion of MODfix screws.</p>	 <p>Swivel external hex driver for insertion of MODfix abutments or UNifix screws.</p>
 <p>Swivel handle for attachment of swivel drivers <i>Caution: Do NOT insert latch-type drivers in swivel handle. It may be irretrievably stuck.</i></p>		 <p>Latch-type pilot drill</p>	 <p>Swivel pilot drill</p>
 <p>Latch adaptor for attachment of latch-type drivers</p>		<p>In high-density bone, it is required to use a pilot drill to pre-drill the osteotomy followed by insertion of the screw.</p>	

To fixate a barrier membrane using **MODfix** screw and Membrane fixation or tenting abutments, the membrane has to be perforated using the membrane punch. With the membrane draped over **MODfix** screw, the head of the screw is located by the punch, which is pressed against the screw for perforation.



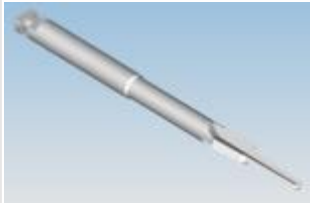
Membrane punch for perforating barrier membrane to allow for connection between **MODfix** screws and Membrane fixation (M) or Tenting (T) abutments.

*Tip: The membrane may be pre-punched extra-orally and then positioned over the terminal threads of **MODfix** screw.*

UNIfix and MODfix Block Fixation installation protocol



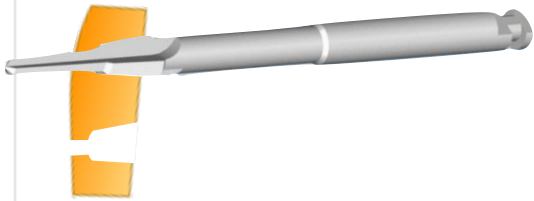
Atrophic jaw may be prepared to create an appropriate recipient bed for the block bone graft. This may entail making an osteotomy in a shape complementary to the intaglio of the block bone graft. If the host bone is dense, pilot osteotomies may be made in positions corresponding to the intended positions of the **UNIfix** Block fixation (B) screws. The recipient bed may also be decorticated by making perforations into the cortical bone to facilitate circulation between bone marrow and block bone graft.



Countersink drill for preparation of block bone graft to accommodate **MODfix** screws plus B (Block fixation) abutments or **UNIfix** B (Block fixation) screws.



Block bone graft (autologous, allogenic or xenogenic) may be fixated using **MODfix** screws plus B abutment or **UNIfix** B screws.



Countersink drill is used to prepare osteotomies through the block bone graft to accommodate **UNIfix** B (Block fixation) screws. The screws need to fit passively through the osteotomies.



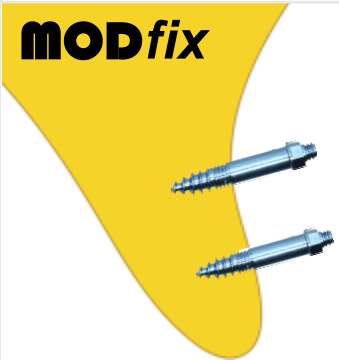
UNIfix B screws are inserted through the perforated block bone graft and anchored into the recipient host bone.

Appropriate diameter and length of **UNIfix** B screws are selected. The thickness of the block bone graft is measured and a **UNIfix** B screw with a non-threaded neck + head, which approximates the graft thickness may be selected. Prepared block bone graft is positioned over the prepared recipient site.

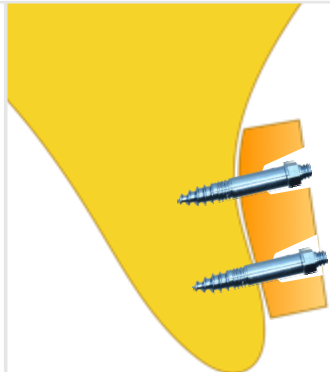
MODfix Block fixation protocol: Appropriate diameter and length of **MODfix** screws are selected. The thickness of the block bone graft is measured and a **MODfix** screw with a non-threaded neck length, which approximates the graft thickness may be selected.



MODfix internal hex driver fits over the **MODfix** screws in a stable manner for efficient installation and removal



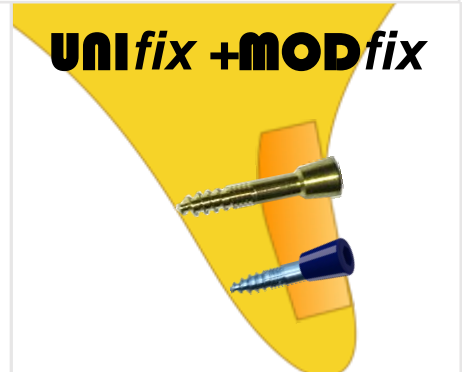
MODfixTM screws are installed in locations corresponding to positions where the block bone graft has been perforated.



The perforated block bone graft is inserted over the installed **MODfix** screws.

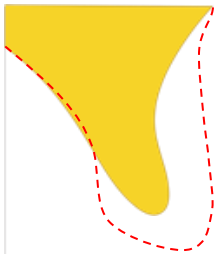


MODfix Block fixation (B) abutments are connected to the **MODfix** screws.

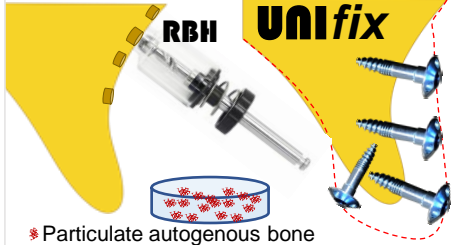


UNIfix + MODfix
*Tip: It is possible to 1) install a **MODfix** screw, 2) position the block over the screw 3) insert a **UNIfix** screw through the second block perforation, 4) attach a **MODfix** B abutment.*

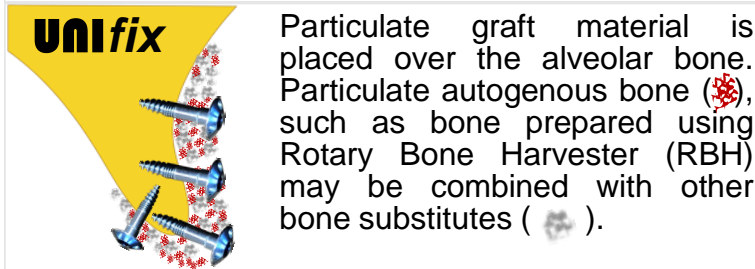
UNIfix and MODfix Tenting (T) and Membrane Fixation (M) protocol



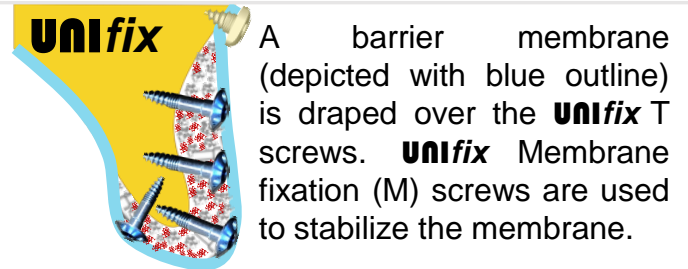
Atrophic jaw may be prepared for guided bone regeneration. If the host bone is dense, pilot osteotomies may be made in positions corresponding to the intended positions of the **UNIfix** and **MODfix** screws. The recipient bed may also be decorticated by making perforations into the cortical bone to facilitate circulation between bone marrow and block bone graft. The bone perforations may be made with Rotary Bone Harvester (RBH), in the process of harvesting autogenous bone chips from the recipient bed. The desired augmentation contour is envisioned (dotted red outline).



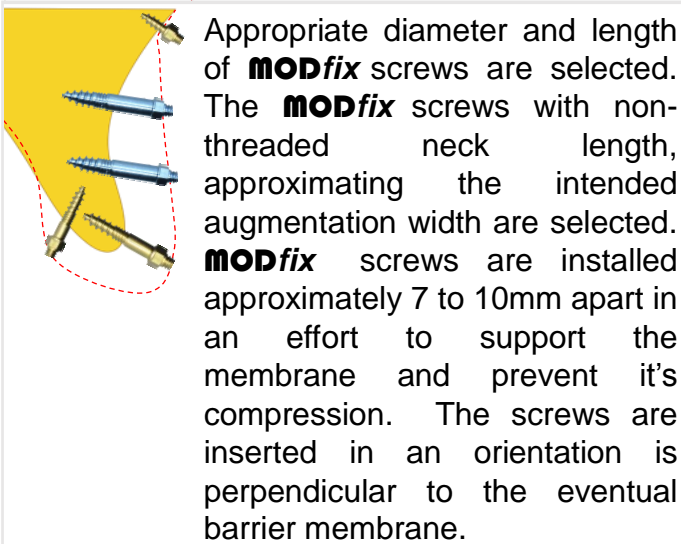
Appropriate diameter and length of **UNIfix** screws are selected. The **UNIfix** T screws with non-threaded neck length, which approximates the intended augmentation width are selected. **UNIfix** T screws are installed approximately 7 to 10mm apart in an effort to support the membrane and prevent its compression. The screws are inserted in an orientation is perpendicular to the eventual barrier membrane.



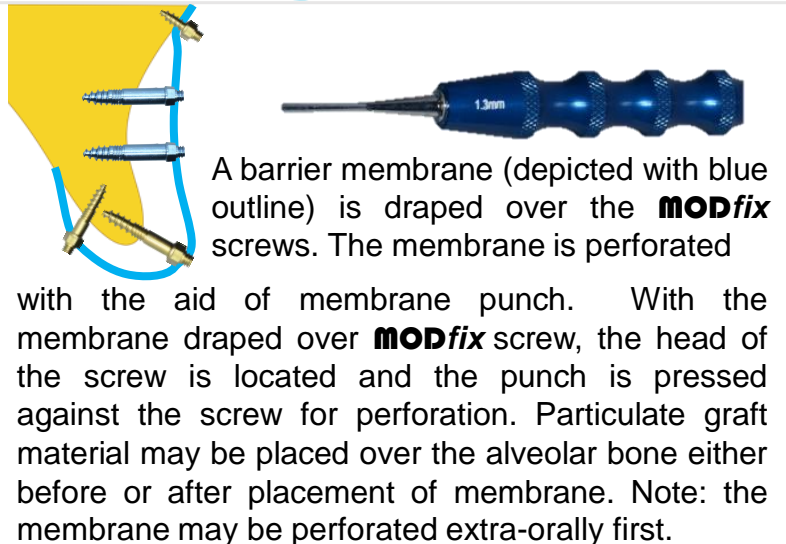
UNIfix Particulate graft material is placed over the alveolar bone. Particulate autogenous bone (★), such as bone prepared using Rotary Bone Harvester (RBH) may be combined with other bone substitutes (■).



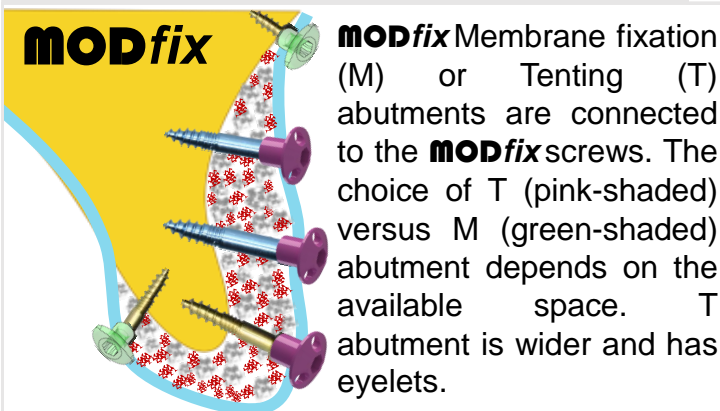
UNIfix A barrier membrane (depicted with blue outline) is draped over the **UNIfix** T screws. **UNIfix** Membrane fixation (M) screws are used to stabilize the membrane.



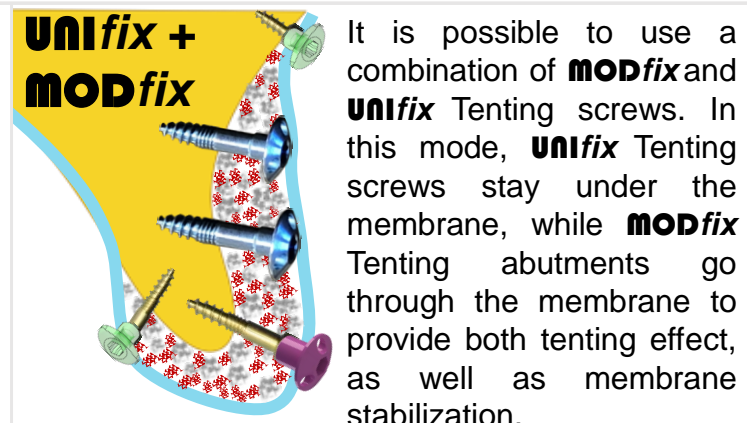
Appropriate diameter and length of **MODfix** screws are selected. The **MODfix** screws with non-threaded neck length, approximating the intended augmentation width are selected. **MODfix** screws are installed approximately 7 to 10mm apart in an effort to support the membrane and prevent its compression. The screws are inserted in an orientation is perpendicular to the eventual barrier membrane.



A barrier membrane (depicted with blue outline) is draped over the **MODfix** screws. The membrane is perforated with the aid of membrane punch. With the membrane draped over **MODfix** screw, the head of the screw is located and the punch is pressed against the screw for perforation. Particulate graft material may be placed over the alveolar bone either before or after placement of membrane. Note: the membrane may be perforated extra-orally first.



MODfix **MODfix** Membrane fixation (M) or Tenting (T) abutments are connected to the **MODfix** screws. The choice of T (pink-shaded) versus M (green-shaded) abutment depends on the available space. T abutment is wider and has eyelets.

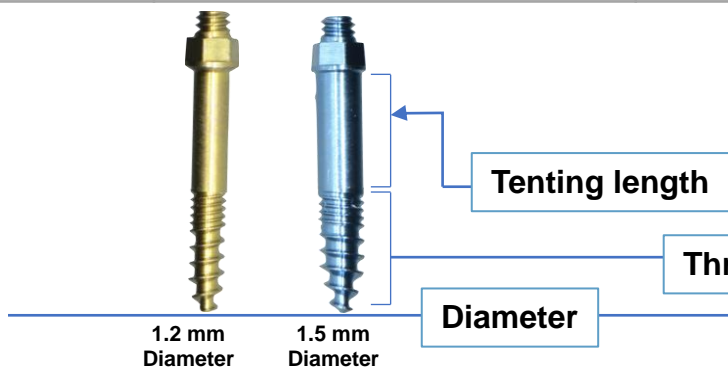


UNIfix + MODfix It is possible to use a combination of **MODfix** and **UNIfix** Tenting screws. In this mode, **UNIfix** Tenting screws stay under the membrane, while **MODfix** Tenting abutments go through the membrane to provide both tenting effect, as well as membrane stabilization.

*Note: Install all screws with occlusal inclination to facilitate placement and, more importantly, screw removal. When the **MODfix** M or T abutments are first connected, the membrane will be located at the junction between the **MODfix** screw hex and the base of the abutment. The membrane can be pulled up to be positioned beneath the dome of the abutment.*

REF	DESCRIPTION	UNITS/ PACK
2603000001	MODfix/UNIfix Surgical cassette	1
2101000002	Basic package: MODfix/UNIfix surgical cassette + 5 MODfix screws + 5 MODfix abutments + 10 UNIfix screws	1
2603000003	Professional package: MODfix/UNIfix surgical cassette + 20 MODfix screws + 20 MODfix abutments + 20 UNIfix screws	1
2102000001	Autoclavable tray	1
2103000001	Organizer wheel for storage and sterilization of MODfix and UNIfix Screws and abutments	1
2401000001	Swivel driver handle	1
2402000001	Swivel bone screw driver-50mm	1
2402100001	Swivel bone screw driver-75mm	1
2403000001	Swivel bone screw driver-90mm	1
2404000001	Swivel abutment 0.05 hex driver-50mm	1
2404100001	Swivel abutment 0.05 hex driver-75mm	1
2405000001	Swivel abutment 0.05 hex driver-90mm	1
2406000001	Latch-type MODfix bone screw driver-20mm	1
2407000001	Latch-type MODfix bone screw driver-30mm	1
2408000001	Latch-type MODfix bone screw driver-50mm	1
2409000001	Latch-type abutment 0.05 hex driver-20mm	1
2410000001	Latch-type abutment 0.05 hex driver-30mm	1
2411000001	Latch-type abutment 0.05 hex driver-50mm	1
2502000001	Counter-sink drill	1
2412000001	Adaptor for latch drivers	1
2502000002	Pilot drill - swivel	1
2501000001	Pilot drill - latch-type	1
2501000003	Pilot drill - latch-type	3
2601000001	Membrane punch	1

REF	DESCRIPTION	UNITS/ PACK
2201123001	MODfix 1.2mm x 3mm screw	1
2201123002	MODfix 1.2mm x 3mm screw	5
2201123003	MODfix 1.2mm x 3mm screw	20
2201123021	MODfix 1.2 x 4 (+2) mm screw	1
2201123022	MODfix 1.2 x 4 (+2) mm screw	5
2201123023	MODfix 1.2 x 4 (+2) mm screw	20
2201123041	MODfix 1.2 x 4 (+4) mm screw	1
2201123042	MODfix 1.2 x 4 (+4) mm screw	5
2201123043	MODfix 1.2 x 4 (+4) mm screw	20
2201123061	MODfix 1.2 x 4 (+6) mm screw	1
2201123062	MODfix 1.2 x 4 (+6) mm screw	5
2201123063	MODfix 1.2 x 4 (+6) mm screw	20
2201123081	MODfix 1.2 x 4 (+8) mm screw	1
2201123082	MODfix 1.2 x 4 (+8) mm screw	5
2201123083	MODfix 1.2 x 4 (+8) mm screw	20
2201123101	MODfix 1.2 x 4 (+10) mm screw	1
2201123102	MODfix 1.2 x 4 (+10) mm screw	5
2201123063	MODfix 1.2 x 4 (+10) mm screw	20
2201153001	MODfix 1.5 mm x 3mm screw	1
2201153002	MODfix 1.5 mm x 3mm screw	5
2201153003	MODfix 1.5 mm x 3mm screw	20
2201153021	MODfix 1.5 x 4 (+2) mm screw	1
2201153022	MODfix 1.5 x 4 (+2) mm screw	5
2201153023	MODfix 1.5 x 4 (+2) mm screw	20
2201153041	MODfix 1.5 x 4 (+4) mm screw	1
2201153042	MODfix 1.5 x 4 (+4) mm screw	5
2201153043	MODfix 1.5 x 4 (+4) mm screw	20
2201153061	MODfix 1.5 x 4 (+6) mm screw	1
2201153062	MODfix 1.5 x 4 (+6) mm screw	5
2201153063	MODfix 1.5 x 4 (+6) mm screw	20
2201153081	MODfix 1.5 x 4 (+8) mm screw	1
2201153082	MODfix 1.5 x 4 (+8) mm screw	5
2201153083	MODfix 1.5 x 4 (+8) mm screw	20
2201153101	MODfix 1.5 x 4 (+10) mm screw	1
2201153102	MODfix 1.5 x 4 (+10) mm screw	5
2201153103	MODfix 1.5 x 4 (+10) mm screw	20
2301000001	Membrane Fixation Abutment	1
2301000002	Membrane Fixation Abutment	5
2301000003	Membrane Fixation Abutment	20
2302000001	Bone block Fixation Abutment	1
2302000002	Bone block Fixation Abutment	5
2302000003	Bone block Fixation Abutment	20
2303000001	Tenting Abutment	1
2303000002	Tenting Abutment	5
2303000003	Tenting Abutment	20



REF 2201123041 **MODfix** 1.5 x 4 (+4) mm screw

REF	DESCRIPTION	UNITS/ PACK
1603000001	UNIfix Surgical cassette	1
1603000002	UNIfix Basic package: UNIfix surgical cassette + 10 screws	1
1603000003	UNIfix Professional package: UNIfix surgical cassette + 20 screws	1
1102000001	UNIfix Autoclavable tray	1
1201123001	UNIfix 1.2x3mm membrane fixation screw	1
1201123002	UNIfix 1.2x3mm membrane fixation screw	5
1201123003	UNIfix 1.2x3mm membrane fixation screw	20
1201124021	UNIfix 1.2x4+(2) mm tenting screw	1
1201124022	UNIfix 1.2x4+(2) mm tenting screw	5
1201124023	UNIfix 1.2x4+(2) mm tenting screw	20
1201124041	UNIfix 1.2x4+ (4) mm tenting screw	1
1201124042	UNIfix 1.2x4+ (4) mm tenting screw	5
1201124043	UNIfix 1.2x4+ (4) mm tenting screw	20
1201124061	UNIfix 1.2x4+ (6) mm tenting screw	1
1201124062	UNIfix 1.2x4+ (6) mm tenting screw	5
1201124063	UNIfix 1.2x4+ (6) mm tenting screw	20
1201124081	UNIfix 1.2x4+ (8) mm tenting screw	1
1201124082	UNIfix 1.2x4+ (8) mm tenting screw	5
1201124083	UNIfix 1.2x4+ (8) mm tenting screw	20
1201124101	UNIfix 1.2x4+ (10) mm tenting screw	1
1201124102	UNIfix 1.2x4+ (10) mm tenting screw	5
1201124103	UNIfix 1.2x4+ (10) mm tenting screw	20
1202124021	UNIfix 1.2x4+ (2) mm block fixation screw	1
1202124022	UNIfix 1.2x4+ (2) mm block fixation screw	5
1202124023	UNIfix 1.2x4+ (2) mm block fixation screw	20
1202124041	UNIfix 1.2x4+ (4) mm block fixation screw	1
1202124042	UNIfix 1.2x4+ (4) mm block fixation screw	5
1202124043	UNIfix 1.2x4+ (4) mm block fixation screw	20
1202124061	UNIfix 1.2x4+ (6) mm block fixation screw	1
1202124062	UNIfix 1.2x4+ (6) mm block fixation screw	5
1202124063	UNIfix 1.2x4+ (6) mm block fixation screw	20
1202124081	UNIfix 1.2x4+ (8) mm block fixation screw	1
1202124082	UNIfix 1.2x4+ (8) mm block fixation screw	5
1202124083	UNIfix 1.2x4+ (8) mm block fixation screw	20
1202124101	UNIfix 1.2x4+ (10) mm block fixation screw	1
1202124102	UNIfix 1.2x4+ (10) mm block fixation screw	5
1202124103	UNIfix 1.2x4+ (10) mm block fixation screw	20

REF	DESCRIPTION	UNITS/ PACK
1201153001	UNIfix 1.5x3mm membrane fixation screw	1
1201153002	UNIfix 1.5x3mm membrane fixation screw	5
1201153003	UNIfix 1.5x3mm membrane fixation screw	20
1201154021	UNIfix 1.5x4+ (2) mm tenting screw	1
1201154022	UNIfix 1.5x4+ (2) mm tenting screw	5
1201154023	UNIfix 1.5x4+ (2) mm tenting screw	20
1201154041	UNIfix 1.5x4+ (4) mm tenting screw	1
1201154042	UNIfix 1.5x4+ (4) mm tenting screw	5
1201154043	UNIfix 1.5x4+ (4) mm tenting screw	20
1201154061	UNIfix 1.5x4+ (6) mm tenting screw	1
1201154062	UNIfix 1.5x4+ (6) mm tenting screw	5
1201154063	UNIfix 1.5x4+ (6) mm tenting screw	20
1201154081	UNIfix 1.5x4+ (8) mm tenting screw	1
1201154082	UNIfix 1.5x4+ (8) mm tenting screw	5
1201154083	UNIfix 1.5x4+ (8) mm tenting screw	20
1201154101	UNIfix 1.5x4+ (10) mm tenting screw	1
1201154102	UNIfix 1.5x4+ (10) mm tenting screw	5
1201154103	UNIfix 1.5x4+ (10)mm tenting screw	20
1202154021	UNIfix 1.5x4+ (2) mm block fixation screw	1
1202154022	UNIfix 1.5x4+ (2) mm block fixation screw	5
1202154023	UNIfix 1.5x4+ (2) mm block fixation screw	20
1202154041	UNIfix 1.5x4+ (4) mm block fixation screw	1
1202154042	UNIfix 1.5x4+ (4) mm block fixation screw	5
1202154043	UNIfix 1.5x4+ (4) mm block fixation screw	20
1202154061	UNIfix 1.5x4+ (6) mm block fixation screw	1
1202154062	UNIfix 1.5x4+ (6) mm block fixation screw	5
1202154063	UNIfix 1.5x4+ (6) mm block fixation screw	20
1202154081	UNIfix 1.5x4+ (8) mm block fixation screw	1
1202154082	UNIfix 1.5x4+ (8) mm block fixation screw	5
1202154083	UNIfix 1.5x4+ (8) mm block fixation screw	20
1202154101	UNIfix 1.5x4+ (10) mm block fixation screw	1
1202154102	UNIfix 1.5x4+ (10) mm block fixation screw	5
1202154103	UNIfix 1.5x4+ (10) mm block fixation screw	20



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