

# TECHNOVENT

*Magna-Cap  
Magnetic Attachment System*

Product Catalogue

# MAGNA-CAP

Magna-Cap is a titanium-based Magnetic Attachment System based on a closed-field magnetic attraction between small, split pole prosthesis magnets and magnetisable implant fixtures and root abutments.

The high strength of the S-Range magnet is the result of a unique internal pole splitting slot. The slot more effectively separates the poles of the magnets, reducing the merging of the magnetic fields and thus dramatically increasing the breakaway forces.

The innovative features of the Technovent Magna-Cap system are:-

- Closed field magnetic system - the magnet is in denture/prosthesis not in the patient.
- An innovative lip design with pre-determined movement tolerances, which provides controlled prosthesis stability whilst still allowing the stress-breaking advantages of magnetic attachments to function.
- Simple application technique.
- Components have low profile for optimum bone support and simple patient hygiene control.
- Magnet unit is a split-pole construction design, with proven internal and external corrosion resistance.
- Autoclaveable using normal autoclave cycle.
- CE marked and manufactured to the highest standards of the EC directive.
- FDA approved for the USA (510K).



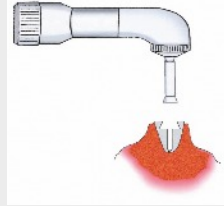
# POST KEEPERS FITTED TO ROOT

## *Root Preparation*

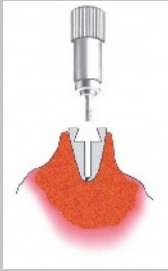
Prepare flat root face just above gingival level.

Prepare a post cavity using Root Face Drill.

Undercut counterbore cavity with an inverted cone bur (#5).



## *Direct Fit Post*



Adjust the post length so that the keeper fully contacts the root face.

## *Cast Post Copings with Insert*



Enlarge the counterbore cavity.

Use an impression technique to prepare a laboratory model.

## *Fitting the Post*



Fit the post keeper in the root with suitable bonding adhesive material.

A Seating Tool is used for safe handling.

Use suitable restorative material to seal exposed root dentine and the outer conditioned surface of the keeper.

The surface element of the Insert Keeper is left exposed above the wax-up for retention in the casting investment.

Use precious metal alloy with casting temperature of 800°C.

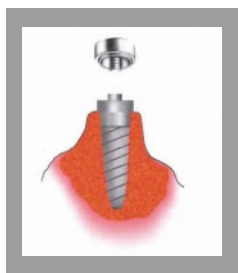
## *Fitting the cast Insert Keeper*



Fit the cast Insert Keeper with a suitable dentine/metal bonding adhesive material.

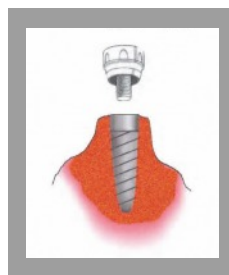
A Seating Tool is used for safe handling.

# MAGNACAP OR MAGNABUTMENT?



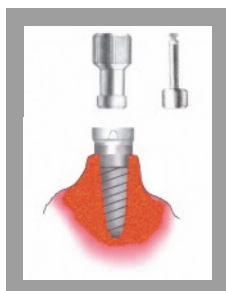
**Magnacap**

Implant has spacer abutment in place.



**Magnabutment**

Fitted direct to implant fixture

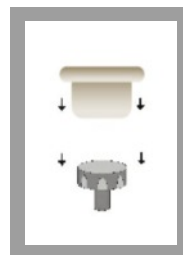


Place the Magnacap/Magnabutment into a matching size Hand/Latch Capfit Tool so that the tool markers coincide with the flats of the keeper.

Screw the Magnacap/Magnabutment into the implant abutment/implant fixture until firmly seated using 10-20 Ncm tightening torque.

## IMPRESSION MAGNET

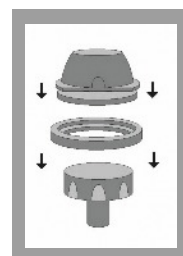
Place the Impression Magnet directly onto the Magnacap/Magnabutment/ Root Keeper during impression. Lip ensures centralisation without the need for the locator ring.



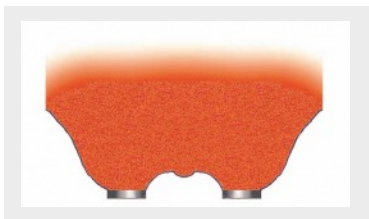
## LOCATOR RING SYSTEM

Place the lip element of the magnet into the recessed side of the magnetic alloy ring.

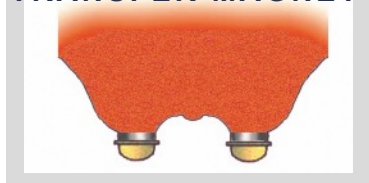
Seat the assembly on the Magnacap/Magnabutment/Root Keeper to ensure that the prosthesis magnet does not move and remains centralised on the Keeper during lab processing of the prosthesis or direct pickup technique. Remove after curing. Clean and autoclave sterilise after use.



# LABORATORY FABRICATED OVERDENTURES WITH MAGNETS IN-SITU

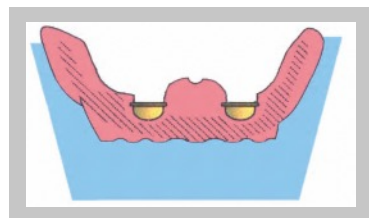


## TRANSFER MAGNET

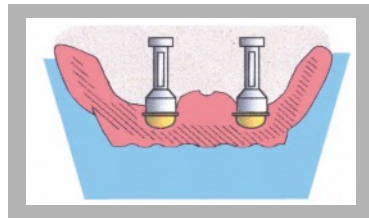
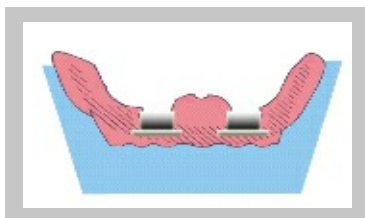


Place a Mini/Maxi Transfer or Impression Magnet on the matching size Magnacap/Magnabutment/Root Keeper.

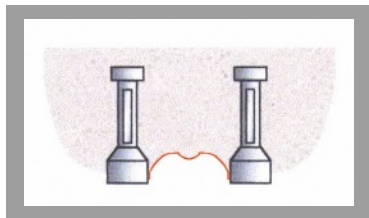
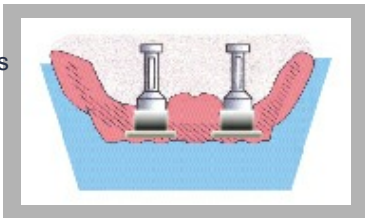
## IMPRESSION MAGNET



Take an impression with Transfer/Impression Magnets in place.

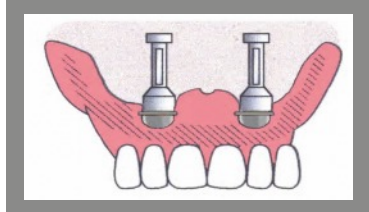


Seat Lab Analogue Abutments onto the Transfer/Impression Magnets and cast a model using hard stone plaster.



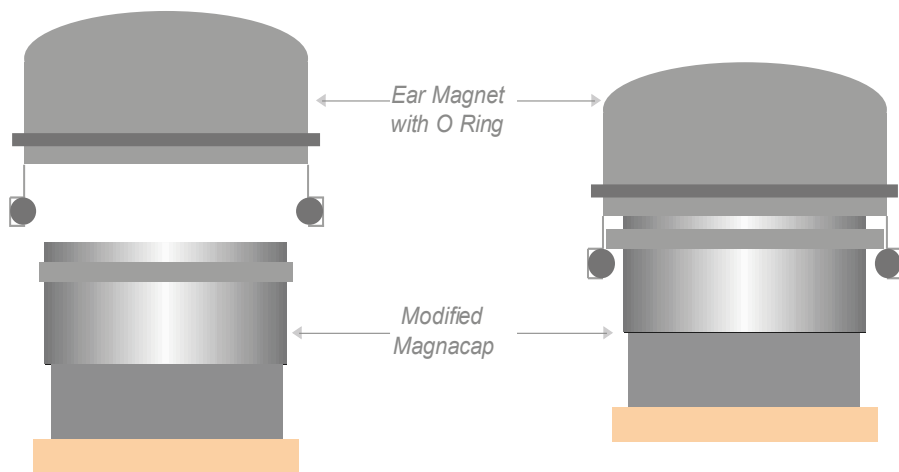
When the model is set remove the Transfer/Impression Magnets from the impression. Clean, disinfect and autoclave sterilise for re-use.

If using the Locator Ring System, place this and the prosthesis magnet on the replica keeper in the



Remove the Locator Ring after processing. Check that there is no resin on the magnet surface.

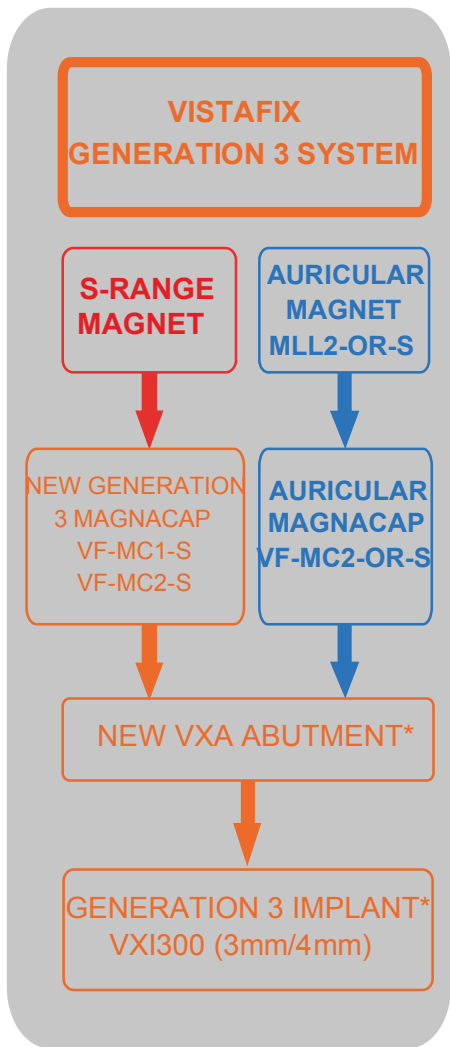
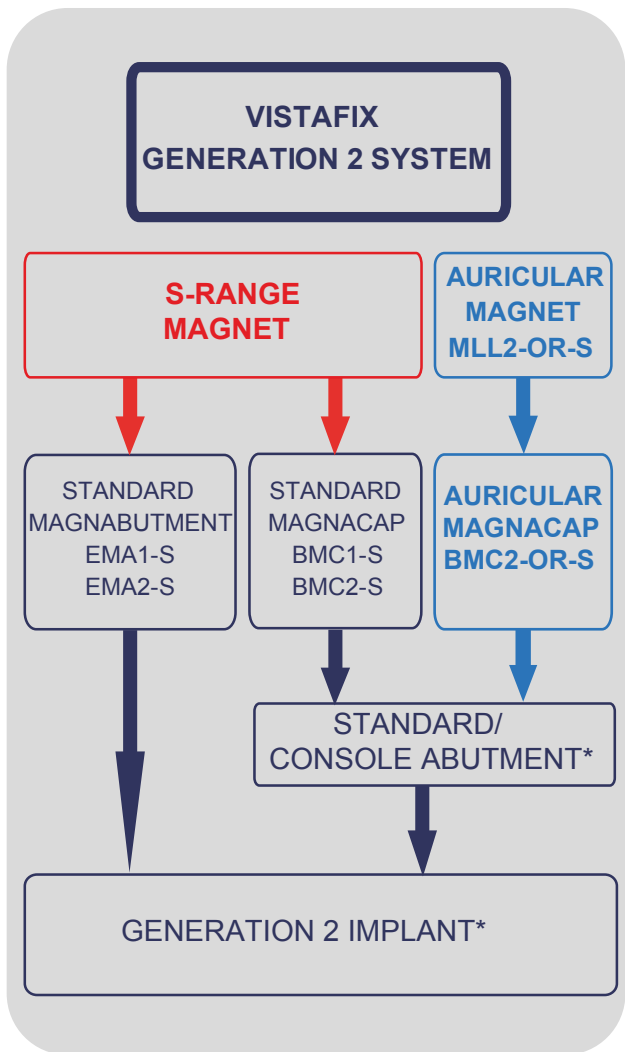
# SRANGE AURICULAR MAGNET SYSTEM



Technovents' new and innovative Auricular Magnet System retains all of the outstanding features of the original Magnacap System but also has the following additional benefits giving it distinct advantages in comparison to conventional mechanical retention:

- S-Range strength magnet retention coupled with a mechanical safety lock which overcomes the problems of lateral displacement.
- Ease of positioning due to magnetic location.
- Low impact forces on implant due to the retention of stress breaking tolerance.
- Reduced height (2.7mm) prosthesis magnet.
- Novel new Magnacap design ensures O-Ring safety lock engages closer to fitting surface of the magnet.
- In normal use prosthesis held in place solely by magnetic retention with mechanical retention only activated if needed.

# SRANGE AURICULAR MAGNET SYSTEM COMPATABILITY GUIDE



# SRANGE AURICULAR MAGNET SYSTEM

## AURICULAR MAGNACAPS FOR VISTAFIX GENERATION 2 & 3 IMPLANT SYSTEMS (A)

Auricular Maxi Magnacaps to fit on the Abutment fixture of both Vistafix 2 and Vistafix 3 Implant Abutments. Must be used in conjunction with Auricular Magnet (MLL2-OR-S). Non-sterile.

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
B-MC2-OR-S	Maxi Magnacap for Vistafix 2	2.7mm	5.26mm
VF-MC2-OR-S	Maxi Magnacap for Vistafix 3	3.2mm	5.26mm

## AURICULAR MAGNET (B)

Excellent magnetic strength coupled with a mechanical backup reduces lateral displacement. Use in conjunction with either B-MC2-OR-S or VF-MC2-OR-S. Non-sterile.

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
MLL2-OR-S	Auricular Magnet	2.7mm	Fitting surface 5.5mm External (widest)

NOTE: COMPATIBLE WITH CORRESPONDING LAB ANALOGUE CAPS (VF-LAC2-OR AND B-LAC2-OR). NO LOCATOR RING NEEDED.

(A)



(B)





# SRANGE MAGNACAPS

ABUTMENT KEEPER THAT FITS DIRECTLY ONTO AN IMPLANT ABUTMENT

## NOBEL BIOCARE EXTERNAL HEX (BRANEMARK)/ COCHLEAR VISTAFIX GENERATION 2 MAGNACAP (A)

Non-sterile.

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
B-MC1-S	Mini Magnacap	2.1mm	4.4mm
B-MC2-S	Maxi Magnacap	2.1mm	5.1mm

## COCHLEAR VISTAFIX GENERATION 3 MAGNACAP

Non-sterile.

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
VF-MC1-S	Mini Magnacap	2.1mm	4.4mm
VF-MC2-S	Maxi Magnacap	2.1mm	5.1mm

## NOBEL BIOCARE MULTIUNIT MAGNACAP (B)

Non-sterile.

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
B-MUMC1-S	Mini Magnacap	2.1mm	4.4mm
B-MUMC2-S	Maxi Magnacap	2.1mm	5.1mm

## ASTRA 45° UNI-ABUTMENT MAGNACAP (C)

Non-sterile.

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
A-MC1-S	Mini Magnacap	2.1mm	4.4mm
A-MC2-S	Maxi Magnacap	2.1mm	5.1mm

## STRAUMANN MAGNACAP (RC PILAR MULTIBASE) (D)

Non-sterile.

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
S-MC2-S	Maxi Magnacap	2.1mm	5.1mm

## MEDICON BASIC POST MAGNACAP

Non-sterile.

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
P-MC1-S	Mini Magnacap	1.9mm	4.4mm
P-MC2-S	Maxi Magnacap	1.9mm	5.1mm



(A)



(B)



(C)



(D)

# SRANGE MAGNABUTMENTS

ABUTMENT KEEPER THAT FITS DIRECTLY ONTO AN IMPLANT FIXTURE

NOBEL BIOCARE EXTERNAL HEX(BRANEMARK) MAGNABUTMENT (A)  
Sterile

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
B-MA1-S	Mini Magnabutment	3.6mm	4.4mm
B-MA2-S	Maxi Magnabutment	3.6mm	5.1mm

STRAUMANN MAGNABUTMENT ITI (B)

Non-sterile

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
S-MA1-S	Mini Magnabutment	2.1mm	4.4mm
S-MA2-S	Maxi Magnabutment	2.1mm	5.1mm

COCHLEAR VISTAFIX GENERATION 2 MAGNABUTMENT

Non-sterile

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
E-MA1-S	Mini Magnabutment	3.6mm	4.4mm
E-MA2-S	Maxi Magnabutment	3.6mm	5.1mm

SOUTHERN IMPLANTS MAGNABUTMENT FOR IE, IT AND  
EXTERNAL HEX (HX) IMPLANT FIXTURES.

Non-sterile

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
IE-MA1-S	Mini Magnabutment	3.6mm	4.4mm
IE-MA2-S	Maxi Magnabutment	3.6mm	4.4mm
IT-MA1-S	Mini Magnabutment	2.1mm	5.1mm
IT-MA2-S	Maxi Magnabutment	2.1mm	4.4mm
HX-MA1-S	Mini Magnabutment	3.6mm	5.1mm
HX-MA2-S	Maxi Magnabutment	3.6mm	4.4mm

STRAUMANN EXTRA ORAL MAGNABUTMENT

Non-sterile

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
SE-MA1-S-3.5	Mini Magnabutment	3.5mm	4.4mm
SE-MA1-S-5.5	Mini Magnabutment	5.5mm	4.4mm
SE-MA2-S-3.5	Maxi Magnabutment	3.5mm	5.1mm
SE-MA2-S-5.5	Maxi Magnabutment	5.5mm	5.1mm

(A)



(B)



# S-RANGE PROSTHESIS MAGNETS

## NON-LIPPED PROSTHESIS MAGNET

Non-lipped Magnets are ideal for Denture applications. Split-pole design with an airtight corrosion seal. Non-sterile.

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>	<b>Breakaway</b>
MM0-S	Mini Micro Magnet	1.85mm	4.5mm	3.8N
M0-S	Micro Magnet	1.99mm	4.5mm	4.2N
M1-S	Mini Magnet	3.20mm	4.5mm	6.5N
M2-S	Midi Magnet	3.20mm	5.5mm	10.5N
M3-S	Maxi Magnet	3.90mm	5.5mm	11.5N

### MINI MICRO MAGNET (MM0-S) MICRO MAGNET (M0-S)



MM0-S HEIGHT 1.85MM  
M0-S HEIGHT 1.99MM  
DIAMETER 4.5MM

### MINI MAGNET (M1-S)



M1-S HEIGHT 3.2MM  
DIAMETER 4.5MM

### MIDI MAGNET (M2-S)



M2-S HEIGHT 3.2MM  
DIAMETER 5.5MM

### MAXI MAGNET (M3-S)



M3-S HEIGHT 3.9MM  
DIAMETER 5.5MM

# S-RANGE PROSTHESIS MAGNETS

## PROSTHESIS LIP MAGNET (A)

Lip Magnets provide controlled prosthesis stability (lip additional 0.6mm height). Split-pole design with an airtight corrosion seal. Non-sterile.

Code	Description	Height	Diameter	Breakaway Force
MML0-S	Mini Micro Lip Magnet	1.85mm	4.5mm	3.8N
ML0-S	Micro Lip Magnet	1.99mm	4.5mm	4.2N
ML1-S	Mini Lip Magnet	3.20mm	4.5mm	6.5N
ML2-S	Midi Lip Magnet	3.20mm	5.5mm	10.5N
ML3-S	Maxi Lip Magnet	3.90mm	5.5mm	11.5N

## PROSTHESIS LONG LIP MAGNET (B)

Long Lip Magnets provide extra stability against external displacement forces (lip additional 1.2mm height). Split-pole design with an airtight corrosion seal. Non-sterile.

Code	Description	Height	Diameter	Breakaway Force
MLL3-S	Maxi Long Lip Magnet	3.90mm	5.5mm	11.5N

## SILICONE RETENTIVE MAGNET (C)

Prosthesis Magnet with a retentive ring. Split-pole design with an airtight corrosion seal. Non-sterile.

Code	Description	Height	Diameter	Breakaway Force
ML3-SR	Maxi Lip SR Magnet	3.90mm	5.5mm	11.5N
MLL3-SR	Maxi Long Lip SR Magnet	3.90mm	5.5mm	11.5N



# OTHER SPECIALISED MAGNET SYSTEMS

## MULTI-PURPOSE MAGNET

Extremely powerful attachment for multicomponent assemblies. Attachment comprises of two paired magnets. Each magnet has a flange for retention within the prosthesis. Non-sterile.

Code	Description	Height	Diameter	Breakaway Force
MPMS	Multi-Purpose Magnet	2.6mm each	9.4mm	6.5N



# DENTAL ATTACHMENTS AND ACCESSORIES

## POST KEEPER

Fits directly to a root abutment prepared with a Root Face Drill.

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
PK1	Mini Post Keeper	1.1mm	4.4mm
PK2	Maxi Post Keeper	1.1mm	5.1mm



## INSERT KEEPER

For cast-on techniques, soldering and multi-component assemblies. Non-sterile.

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
IK1	Mini Insert Keeper	0.8mm	4.4mm
IK2	Maxi Insert Keeper	0.8mm	5.1mm



## ROOT FACE DRILL

Titanium Drill with 1.2mm diameter lead to prep area precise 2.5mm x 2.0mm recess cavity in a dental root for accurate seating of a mini/maxi Post Keeper. Non-sterile.

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
RFD-0	Root Face Drill	2.5mm	2.5mm



## SEATING TOOL

Hand held tool with surface magnet to sit root keepers and for general handling of Magnacap. Non-sterile.

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
STO	Seating Tool	17.0mm	5.5mm



## HAND CAPFIT TOOL

Hand held insertion tool used to fit Magnacaps and Magnabutments. In-built magnet provides safe handling. Non-sterile.

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
CF1	Mini Hand Capfit Tool	17.0mm	6.0mm
CF2	Maxi Hand Capfit Tool	17.0mm	6.5mm



## LATCH CAPFIT TOOL

Insertion tool for use in torque controlled hand piece to fit Magnacaps and Magnabutments. Non-sterile.

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
CF3	Mini Latch Capfit Tool	17.0mm	6.0mm
CF4	Maxi Latch Capfit Tool	17.0mm	6.5mm



# LABORATORY ACCESSORIES

## TRANSFER MAGNET

A colour coded magnet used with a pick-up impression technique (lip 0.6mm). Non-sterile

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
MT1	Mini Transfer Magnet	3.2mm	4.5mm
MT2	Maxi Transfer Magnet	3.9mm	5.5mm



## LAB ANALOGUE CAP NOBEL BIOCARE EXTERNAL HEX AND COCHLEAR VISTAFIX GENERATION 2

A colour coded Magnacap replica for laboratory models. Non-sterile.

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
B-LAC1	Mini Magnacap	2.1mm	4.4mm
B-LAC2	Maxi Magnacap	2.1mm	5.1mm



## LAB ANALOGUE CAP FOR COCHLEAR VISTAFIX GENERATION 3

A colour coded Magnacap replica for laboratory models. Non-sterile.

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
VF-LAC1	Mini Magnacap	2.1mm	4.4mm
VF-LAC2	Maxi Magnacap	2.1mm	5.1mm



## LAB ANALOGUE CAP FOR AURICULAR SYSTEM

A colour coded Magnacap replica for laboratory models. Non-sterile.

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
B-LAC2-OR	Maxi Magnacap	2.7mm	5.26mm
VF-LAC2-OR	Maxi Magnacap	3.2mm	5.26mm



## LAB ANALOGUE ABUTMENT

An abutment replica for laboratory models. Non-sterile.

<b>Code</b>	<b>Description</b>	<b>Height</b>	<b>Diameter</b>
LAA1	Mini Lab Abutment	2.5mm	4.4mm
LAA2	Maxi Lab Abutment	3.5mm	5.1mm



## LOCATOR RING

Temporary locator used during processing of magnets into a prosthesis. Non-sterile

<b>Code</b>	<b>Description</b>
LR1	Mini Locator Ring
LR2	Maxi Locator Ring
LR-LL2	Long Lip Locator Ring



## IMPRESSION MAGNET

Replaces the use of the Transfer Magnet and Locator Ring. Design ensures greater retention within silicone impression material.

<b>Code</b>	<b>Description</b>
JB-AFK-1	Mini Impression Magnet
JB-AFK-2	Maxi Impression Magnet
JB-AFK-OR	Auricular Impression Magnet



# CUSTOM PARTS AND SPECIAL ORDER ITEMS

Technovent also offers a service to produce custom made attachments for items that do not fall within our stock sizes.

A variety of different height magnacaps and magnabutments can be produced for implant systems in addition to specialised platform systems e.g. Branemark Narrow/Wide platforms.

When ordering custom/special order items, a prescription form must be completed which will require the following information:

- Implant system and platform type
- Abutment diameter (Mini/Maxi)
- Abutment height
- Patient reference for custom device
- Any other relevant information

Please contact us for a copy of the prescription form which can be faxed/emailed/posted to you.

IF YOU NEED FURTHER INFORMATION  
OR ADDITIONAL TECHNICAL HELP  
PLEASE EMAIL:

MARK.WATERS@ TECHNOVENT.COM  
OR  
KATH.LEACH@ TECHNOVENT.COM

Technovent Ltd  
5 York Park  
Bridgend,  
CF31 3TB

Tel: +44 (0)1656 768566

[www.technovent.com](http://www.technovent.com)  
[info@technovent.com](mailto:info@technovent.com)