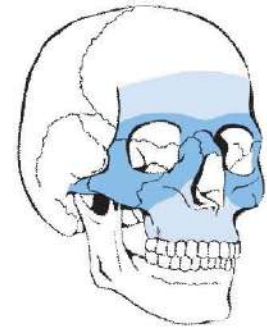


Surgical Technique of Upper Face Plating System for Cranio-Maxillofacial- 1.5mm



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Surgical Technique of Upper Face Plating System for Cranio-Maxillofacial- 1.5mm

AO PRINCIPLES:

In 1958, the AO formulated four basic principles, which have become the guidelines for internal fixation. They are:

1. **Anatomic reduction :-**

Fracture reduction and fixation to restore anatomical relationships. A comprehensive implant and instrument selection offers the ability to address most simple and complex fixation needs.

2. **Stable fixation:-**

Stability by rigid fixation or splintage, as the personality of the fracture and the injury requires. The UPPER FACE Plate and Screw System is optimized to achieve stable bone fixation.

3. **Preservation of blood supply :-**

Preservation of the blood supply to soft tissue and bone by careful handling and gentle reduction techniques.

4. **Early, Active Mobilization :-**

Early and safe mobilization of the part and patient. The UPPER FACE Plate and Screw System provides stable fixation enough to allow a functional aftercare.

Anatomical Region:

Nasal, orbital, and frontal region

Indications:

Upper Face Plate and Screw System is indicated for use in trauma repair and reconstruction of the cranio-maxillofacial skeleton such as:

- Frontal Bone Fractures
- Orbital floor fractures
- Medial orbital wall fractures
- Combined orbital floor and medial wall fractures

Contraindications:

- Acute or Chronic, Local or Systemic infection.
- Allergy to implants materials
- Insufficient Bone quality to secure implants

PLATES FEATURES:



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- Made of Pure Titanium Grade II materials
- Color coded for easy identification of profile
- Smoother edges for less soft tissue irritations
- Optimum counter hole sink for ideal screw head projections
- CAD design profile for uniform shape

SCREW FEATURES:



- Made of Titanium Alloy Grade V (Ti6Al4V)
- Concave screw slot in Cross Drive screws for better purchase and driving comfort
- No slippage in final tightening due to ideal slot depth in single slotted
- Specially designed trocar tip screw point for easy insertion without tapping

*Technique Warning:

This surgical technique is not sufficient for immediate use of the plating system of implants & instrumentation Training, Instructions and supervision by a surgeon well experienced in handling this plating system is highly recommended. We do not take responsibility of wrong or mishandling of any implants or instruments and its consequences.

Surgical Technique



Step 1:

Expose and reduce fracture After completing the preoperative plan, In trauma reduce the fracture as required

Step 2:

Select and prepare the implant

Select the appropriate plate from variety of plate options available in Upper Face System for the nature of the fracture. Ensure that the plate topside is facing out. Cut to length, If necessary.

Precautions:

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*In order to determine the appropriate amount of screws needed to achieve stable construct fixation, the surgeon should consider the fracture size and shape.

*Take care to protect soft tissue from trimmed plate edges.

Step 3:

Contour the plate



Contour the plate to fit to the patient anatomy using the Plate bending pliers and Modelling Lever. Ensure the plate is passively adapted to the bone.

Precautions:

- If contouring is necessary, the surgeon should avoid bending the device at a screw hole.
- Avoid sharp bends, repetitive and reverse bending as it increases the risk of implant breakage.

Step 4:

Position the plate:

Place the plate over the fracture or osteotomy site



Step 5:

Drill the hole



Drill the first hole through Trocar/Drill Sleeve close to the fracture or osteotomy site with 1mm Drill with short flute of screw length.

Precautions:

- Confirm that drill bit length and diameter correspond to selected screw length prior to drilling.
- Drill speed rate should never exceed 1,800 rpm, particularly in dense, hard bone. Higher drill speed rates can result in:
 - thermal necrosis of the bone,

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- soft tissue burns,
- An oversized hole, which can lead to reduced pull-out force, increased ease of the screws strip- ping in bone, suboptimal fixation, and/or the need for emergency screws.
 - Always irrigate during drilling to avoid thermal damage to the bone and ensure drill bit is concentric to plate hole.
 - Avoid drilling over nerve or tooth roots.
 - Take care while drilling as to not damage, entrap, or tear a patient's soft tissue or damage critical structures. Be sure to keep drill clear of loose surgical materials.

Step 6: Screw Insertion



To engage the screw on the Driver's shaft, align the shaft over the cross head by fully pulling back the shaft sleeve and then pushing forward until fully seat it into the screw. Check the grip and rotation of the screw after lifting from tray.

Insert the first screw close to the fracture or osteotomy site, and tighten until secure firmly. Shaft sleeve has to be pulled back for final tightening the remaining last threads of the screw.

Insert the second screw on the opposite side of the fracture or osteotomy site, and then all remaining screws following the outlined procedure.

If the screw is inserted with angulation, verify that the screw is safely retained in the plate hole and that the construct profile is not significantly increased.

Precautions:

- Confirm screw length prior to implantation.

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- In order to determine the appropriate amount of screws needed to achieve stable construct fixation, the surgeon should consider the fracture size and shape.
- Tighten screws in a controlled manner.
- Applying too much torque to the screws may cause screw/ plate deformation or bone stripping.
- If bone becomes stripped, remove the screw from the bone and replace with an emergency screw

Step 7:

Additional screw placement- Fill the remaining plate holes with same screws and procedures.

Orbital Floor Plates- Surgical Technique:

1. Select plate design:



Select the appropriate Orbital Floor plate shape that best suits the bony anatomy and treatment objective.

2. **Cut/Contour and Adapt plate to the bone**

If required, cut and contour the plate to fit to the patient anatomy using the Mesh Cutter and the pliers or mesh bender respectively. Ensure that the plate is passively adapted to the bone.

Precautions:

- Confirm that plate positioning allows for adequate clearance of nerves and any other critical structures.
- If contouring is necessary, the surgeon should avoid bending the device at a screw hole.
- Avoid sharp bends, repetitive and reverse bending as it increases the risk of implant breakage.
- Avoid contouring of the implant in situ that may lead to implant malposition and/or posterior canti-lever effect.
- Take care to protect soft tissue from trimmed edges.

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Drill the hole:



Drill the hole with the appropriate diameter drill bit with short flute of screw length.

Precautions:

Confirm that drill bit length and diameter correspond to selected screw length prior to drilling.

Drill speed rates should never exceed 1800rpm, particularly in dense, hard bone.

Higher drill speed rates can result in:

thermal necrosis of the bone,

soft tissue burns,

An oversized hole, which can lead to reduced pull-out force, increased ease of the screws stripping in bone, suboptimal fixation, and/or the need for emergency screws.

Always irrigate during drilling to avoid thermal damage to the bone and ensure drill bit is concentric to plate hole. Avoid drilling over nerve or tooth roots.

Take care while drilling as to not damage, entrap, or tear a patient's soft tissue or damage critical structures. Be sure to keep drill clear of loose surgical materials.

3. **Fix the plate to the bone:**



Stabilize the implant with screws inserted through selected screw holes in the plate. Insert 1.5mm screws of appropriate length to secure the plate to the bone.

If the screw is inserted with angulation, verify that the screw is safely retained in the plate hole and that the construct profile is not significantly increased.

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Precautions:

Confirm screw length prior to implantation.

- Tighten screws in a controlled manner. Applying too much torque to the screws may cause screw/ plate deformation or bone stripping. If bone becomes stripped, remove the screw from the bone and replace with an emergency screw.
- In order to determine the appropriate amount of screws needed to achieve stable construct fixation, the surgeon should consider the fracture size and shape.

- **End of Surgical Technique**

Intended Use, Indications, Contraindications, Warnings, Precautions, General Adverse Events:

Warnings:

- Using an internal fixation system on patients with active or latent infection may cause potential risks which may include construct failure and deterioration of infection. It is at the physician's discretion to evaluate the patient's medical conditions and select a fixation device most appropriate for the individual patient. It is also at the physician's discretion to consider all other necessary treatment methods to effectively manage the infection.
- Confirm the quality of bone at the selected plate position. Using an internal fixation system on patients with insufficient quantity or quality of bone may cause potential risks which may include device loosening and construct failure. It is at the physician's discretion to evaluate the patient's Medical conditions and select a fixation device most appropriate for the individual patient.

- These devices can break during use (when subjected to excessive forces or outside the recommended surgical technique). While the surgeon must make the final decision on removal of the broken part based on associated risk in doing so, we recommend that whenever possible and practical for the individual patient, the broken part should be removed. Be aware that implants are not as strong as native bone. Implants subjected to substantial loads may fail.
- Instruments, screws and cut plates may have sharp edges or moving joints that may pinch or tear user's glove or skin.
- Take care to remove all fragments that are not fixated during the surgery.

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- While the surgeon must make the final decision on implant removal, we recommend that whenever possible and practical for the individual patient, fixation devices should be removed once their service as an aid to healing is accomplished. Implant removal should be followed by adequate post-operative management to avoid re-fracture.

Precautions:

- Confirm functionality of instruments and check for wear during reprocessing. Replace worn or damaged instruments prior to use.
- It is recommended to only use the instruments identified for use within the Upper Face or Upper Face system of Ortho Max based on the surgical techniques recommended for implants.
- Always irrigate and apply suction for removal of debris potentially generated during implantation or removal.

General Adverse Events

As with all major surgical procedures, risks, side effects and adverse events can occur. While many possible reactions may occur, some of the most common include: Problems resulting from anesthesia and patient positioning (e.g. nausea, vomiting, dental injuries, neurological impairments, etc.), thrombosis, embolism, infection, nerve and/or tooth root damage or injury of other critical structures including blood vessels, excessive bleeding, damage to soft tissues incl. swelling, abnormal scar formation, functional impairment of the musculoskeletal system, pain, discomfort or abnormal sensation due to the presence of the device, allergy or hypersensitivity reactions, side effects associated with hardware prominence, loosening, bending, or breakage of the device, mal-union, non-union or delayed union which may lead to break age of the implant, reoperation.

Device-specific Adverse Events

Device-specific adverse events include but are not limited to:

- Malunion/ non-union that may be associated with:
- Implant inappropriately dimensioned for the intended use
- Hole deformation due to plate bending
- Construct failure due to inadequate strength design
- Construct strength too weak for post-operative loading forces
- Plate/mesh hole diameter too large or screw head too small
- Wrong implant material/design
- Misleading/incorrect label
- Information provided to the end-user (i.e. IFU) is insufficient, incorrect or imprecise

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- Insufficient screw holes left after plate has been cut
- Reverse and repeated bending applied
- Adverse Tissue Reaction that may be associated with:
 - Instruments debris/particle created during cutting
 - Instruments debris/particle created during implantation and/or removal
 - Incorrect label i.e. wrong data provided on the LMD i.e. wrong text, missing symbols, wrong Mfg. date
- Damage to vital organs / surrounding structures that may be associated with:
 - Premature plate/mesh failure
 - Plate/mesh does not offer enough options for screw placement
 - Plate/mesh too thick for anatomical area
 - Fixation holes do not allow for appropriate fixation
 - Insufficient mesh structure
 - Screw placement into nerve, tooth buds/roots and or any other critical structures
 - Screw core diameter is too small leading to screw breakage post-operatively
 - Screw deforms or breaks during insertion with generation of fragments that the surgeon is unaware of or unable to retrieve, potentially resulting in fragment migration
 - Screw recess strips due to blade cam-out
 - Burrs/sharp edges on edge of plate
 - Plate/mesh inadequately contoured resulting in inadequate reduction
 - Screw breaks during insertion and fragments are not retrieved
 - Screw break age post-operatively
 - Blade comes-out of screw recess
 - Screw passes completely through plate
 - Generation of particle debris during surgical procedure
 - Screw strips bone post-operatively
 - Screw not safely retained resulting in loss of screw intra-operatively
 - Screw or plate migrates or deforms post-operatively
 - Plate hole does not hold screw head
 - Implant loses functionality post-operatively
 - Improper use of implant resulting in treatment failure
 - Wrong plate selection
 - Incorrect plate/screw position resulting in irreversible damage
 - Inappropriate use of screws or drill bits
 - Overheating of drill bit causing thermal necrosis of bone
- Injury to user that may be associated with:
 - Sharp edges caused during cutting of plates punctures surgical glove/hand

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Surgical Technique of Upper Face Plating System for Cranio-Maxillofacial- 1.5mm

- Loosening that may be associated with:
 - Insufficient implant fixation
 - Screw breakage post-operatively
 - Inappropriate screw used
- Peripheral Nerve that may be associated with:
 - Screws inserted into nerve, tooth buds/roots and or any other critical structures
- Soft Tissue Damage that may be associated with:
 - Premature plate/mesh failure
 - Screw breakage post-operatively
 - Burrs/sharp edges on edge of plate
 - Implant loses its function post-operatively
- Systemic Infection that may be associated with:
 - Incomplete/incorrect processing leading to implantation of a non-sterile product
 - Sterile barrier compromised leading to implantation of a non-sterile product
 - Implantation of non-sterile product
 - Implantation of non-sterile unclean product due to incorrect label
 - Reuse of single use implant

IMPLANTS REMOVAL:

The Upper Face Plates should first be removed by following screw removal technique of cortical screws. Take care while removing the screws, first unlock all screws from the plate with respective Screw Driver of single slotted or Cross Drive recess of 1.5mm then remove the screws completely from the bone. This prevents rotation of the plate when removing the last screw. Ensure that the tip of the screw driver sits fully into the head of the screws. Partial engagement may lead to wear out of screw head or screw driver tip. Don't use high torque while removing the screws.

Note: The final decision of removing the implants shall be taken by the operating surgeon only. It is recommended that the implant used as an aid for healing should be removed once its service is over after proper consultation and examination by the operating surgeon in final follow up, particularly in younger and more active patients. Implant removal should be followed by adequate post-operative management to avoid re-fracture.

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MRI Information:

It is recommended to pay particular attention to the following points:

- It is recommended to thoroughly monitor patients undergoing MR scanning for perceived temperature and/or pain sensations.
- Patients with impaired thermoregulation or temperature sensation should be excluded from MR scanning procedures.
- Generally, it is recommended to use an MRI system with low field strength in the presence of conductive implants. The employed specific absorption rate (SAR) should be reduced as far as possible.
- Using the ventilation system may further contribute to reduce temperature increase in the body

CAUTION:

Used Implants:

Used implants which appear un-damaged may have internal and/or external defects. It is possible that individual stress analysis of each part fail to reveal the accumulated stress on the metals as a result of use within the body. This may lead ultimately to implant failure after certain point of time due to metal fatigue. Therefore the reuse of implants are strictly not recommended.

Disposal of Used Implants:

Every used or removed implant must be discarded after use and must never be re- used. It should be bent or scratched & then disposed off properly so that it becomes unfit for reuse. While disposing it off, it should be ensured that the discarded implant does not pose any threat to children, stray animals and environment. Dispose off the implants as per applicable medical practices and local, state and country specific regulatory requirement of Bio Medical Waste rules.

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PACKAGING MATERIAL DISPOSAL:

The packaging material of this device is made of LDPE and therefore if swallowed, may cause choking Hazards. Therefore, it should be disposed of in such a way that keeps out of reach of children and stray animals.

SINGLE BRAND USAGE:






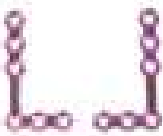
Implant components from one manufacture should not be used with those of another. Implants from each manufacture may have metal, dimensions and design differences so that the use in conjunction with different brands of devices may lead to inadequate fixation or adverse performances of the devices

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Surgical Technique of Upper Face Plating System for Cranio-Maxillofacial- 1.5mm

Product Details:

1.5mm system all Implants and Instruments set

UPPER FACE PLATING SYSTEM 1.5 mm																									
Titanium Rods - Without Bar																									
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Titanium "L" Shape Plates 90°																									
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Surgical Technique of Upper Face Plating System for Cranio-Maxillofacial- 1.5mm

UPPER FACE PLATING SYSTEM 1.5 mm

Profile Thickness : 0.8 mm

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Titanium "L" Shape Plate 120°



Reference	Size
054.15SR	Small - Right
054.15SL	Small - Left

Reference	Size
054.15BR	Big - Right
054.15BL	Big - Left

Material : Titanium Grade II & S.S. 316L

Titanium "T" Shape Plates

Material : Titanium Grade II & S.S. 316L



Reference	Size
055.15S	Small

Reference	Size
055.15B	Big

Reference	Size
055.15X	Extra Big

Titanium "Y" Shape Plates

Material : Titanium Grade II & S.S. 316L



Reference	Size
057.15S	Small

Reference	Size
057.15B	Big

Titanium Double "Y" Shape Plates



Material : Titanium Grade II & S.S. 316L

Reference	Size
058.150	6 Holes

Titanium "I" Shape Plates



Material : Titanium Grade II & S.S. 316L

Reference
056.150

Titanium "H" Shape Plates




Material : Titanium Grade II & S.S. 316L

Reference
059.150

Surgical Technique of Upper Face Plating System for Cranio-Maxillofacial- 1.5mm

Profile Thickness: 1.5mm **UPPER FACE PLATING SYSTEM 1.5 mm**


Titanium "X" Shape Plates



Material: Titanium Grade 2 & 3, 1.5mm

Reference: 100-110 Size: 4mm


Titanium "Z" Shape Plates



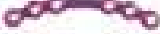
Material: Titanium Grade 2 & 3, 1.5mm

Reference: 100-110 Size: 4mm


Titanium Orbital Plates - With Bar



Reference: 100-110 Size: 4mm




Reference: 100-110 Size: 4mm




Reference: 100-110 Size: 4mm


Titanium Orbital Plates - Without Bar



Reference: 100-110 Size: 4mm




Reference: 100-110 Size: 4mm




Reference: 100-110 Size: 4mm


Titanium Orbital Floor Plates



Reference: 100-110 Size: 4mm



Reference: 100-110 Size: 4mm



Reference: 100-110 Size: 4mm

Profile Thickness: 1.5mm
Material: Titanium Grade 2

Surgical Technique of Upper Face Plating System for Cranio-Maxillofacial- 1.5mm

UPPER FACE PLATING SYSTEM 1.5 mm

Profile Thickness: 1.5 mm

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Titanium Square Shape Plates



Reference	Size
080.1522	5 x 10 mm
080.1523	5 x 20 mm
080.1524	5 x 30 mm

Material : Titanium Grade II

Titanium 3D Plates



Reference	Size
080.1525	5 x 10 mm
080.1526	5 x 20 mm
080.1527	5 x 30 mm

Material : Titanium Grade II

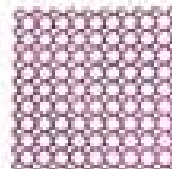
Titanium Micro Burr Holes Cover Plates



Reference	Size
1100.120	12mm

Profile Thickness: 0.4 mm
Material : Titanium Grade II

Titanium Wire Mesh



Reference	Size
070.2101	25 x 25 mm
070.2102	50 x 50 mm
070.2103	75 x 75 mm
070.2104	100 x 100 mm
070.2105	125 x 125 mm
070.2106	150 x 150 mm
070.2107	175 x 175 mm
070.2108	200 x 200 mm

Profile Thickness: 0.4 mm
Material : Titanium Grade II & SS 316L

Surgical Technique of Upper Face Plating System for Cranio-Maxillofacial- 1.5mm

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UPPER FACE PLATING SYSTEM 1.5 mm

Titanium Screws - *Cross Drive*®



Reference	Size
088.154	4 mm
088.155	5 mm
088.156	6 mm
088.157	7 mm
088.158	8 mm
088.159	9 mm
088.1510	10 mm

Thd. Dia. : 1.5 mm
 Drill Size : 1.0 mm
 Material : Titanium Grade V

Titanium Screws - Single Slotted



Reference	Size
079.154	4 mm
079.155	5 mm
079.156	6 mm
079.157	7 mm
079.158	8 mm
079.159	9 mm
079.1510	10 mm

Thd. Dia. : 1.5 mm
 Drill Size : 1.0 mm
 Material : Titanium Grade V & S.S. 316L

Titanium Emergency Screws - *Cross Drive*®



Reference	Size
089.186	6 mm
089.187	7 mm
089.188	8 mm
089.189	9 mm
089.1810	10 mm

Thd. Dia. : 1.8 mm
 Core Dia. : 1.3 mm
 Material : Titanium Grade V

Titanium Emergency Screws - Single Slotted



Reference	Size
082.186	6 mm
082.187	7 mm
082.188	8 mm
082.189	9 mm
082.1810	10 mm

Thd. Dia. : 1.8 mm
 Core Dia. : 1.3 mm
 Material : Titanium Grade V & S.S. 316L

S. S. Drill Bits for Micromotor



Reference	Dia. x Flute x Length
411.100	1.0 mm x 12 mm x 65 mm
411.104L	1.0 mm x 12 mm x 100 mm

S. S. Drill Bits for Micromotor - Short Flute



Reference	Dia. x Flute x Length
411.104	1.0 mm x 4 mm x 65 mm
411.106	1.0 mm x 6 mm x 65 mm
411.108	1.0 mm x 8 mm x 65 mm
411.110	1.0 mm x 10 mm x 65 mm

Surgical Technique of Upper Face Plating System for Cranio-Maxillofacial- 1.5mm

All In One Upper Face Kit

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Implants Contents:	Qty
Titanium Plates 1.5 mm	
4H, 6H, 20H Without Bar - 1 each	03 Nos
2H with Long Bar	02 Nos
2H with Bar	01 No
4H with Bar	02 Nos
Y Shape Small, Big - 1 each	02 Nos
X Shape, Double Y Shape - 1 each	02 Nos
Orbita with Bar 4H, 6H	02 Nos
Square Shape 2x2H, 2x3H - 1 each	02 Nos
3 D Shape 2 x 2 Holes	01 No
Burr Hole Cover Plate	01 No
Orbital Floor Plate Medium, Big-1 each	02 Nos
Total	20 Nos
Titanium Ezy Mesh Plate	
0.4 mm - 50 x 50 mm	01 No
0.4 mm - 100 x 100 mm	01 No
0.6 mm Pre Contoured - 50 x 50 mm	01 No
Titanium Screws <i>Cross Drive</i>® - 1.5mm	
4mm, 5mm, 6mm - 20 each	60 Nos
Titanium Emergency Screws	
<i>Cross Drive</i> ® - 1.8mm	
4mm, 5mm, 6mm - 4 each	12 Nos

Instruments Contents:	Qty
<i>Cross Drive</i> ® Screw Driver Quick	
Coupling Handle	01 No
<i>Cross Drive</i> ® Screw Driver Shaft 1.5 mm	02 Nos
S.S. Drill Bits For Micromotor - Short Flute	
1.0 mm x 4 mm, 6 mm - 1 each	02 Nos
Plier	01 No
Modelling Lever	01 No
Screw / Plate Holding Forceps	01 No
Mini Plate Cutter - Vertical	01 No
Mesh Cutter	01 No
Mesh Bender	01 No
All In One Upper Face Container	01 No

Reference
043.003

Surgical Technique of Upper Face Plating System for Cranio-Maxillofacial- 1.5mm

Instruments Certified:



MFG. UNIT & REGD. OFFICE
C-1-B/886/4, G.I.D.C. ESTATE
MAKARPURA,
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