



Plates&Screws

Cranio Maxillofacial



product
CATALOGUE

OVERVIEW



Thickness of plates:

- Micro Plates: 0.6mm
- Mini Plates: 1.0mm
- Mini Compression Plates: 1.0mm
- Reconstruction Mandibular Plates: 2.0mm
- Reconstruction Compression Plates: 1.7mm
- Mesh Plates: 0.5mm
- Chin Plates: 1.0mm

Used in:

- Craniomaxillofacial surgery
- Orthognatig Surgery
- Trauma
- Neuro Surgery
- Reconstruction of mandible
- Hand Surgery

Material:(the most ideal implant metarial Titanium)

- Titanium and Titanium Alloy
- Excellent Biocompatibility
- High Strength / Easily Formed To Match Bone Contours
- Static Free X-Ray, CT an MRI
- Non-Toxic in Biological Environment
- Corrosionproof
- Low Modules of Elasticity
- Good Piability
- Antimagnatic
- Lightweight

INSTRUCTIONS FOR USE: Bone Plates & Bone Screws

INDICATIONS

These implants and accessories are intended for use in internal fixation of small bones affected by trauma or for reconstruction or arthrodesis.

POSSIBLE ADVERSE EFFECTS

In many instances, adverse results may be clinically related rather than implant related.

1. Osteoporosis, inhibited revascularization, bone resorption and poor bone formation can cause loosening, bending, cracking or fracturing of the device or premature loss of fixation with the bone, leading to nonunion.
2. Delayed union, malunion or nonunion of the fracture site resulting from improper alignment.
3. Increased fibrous tissue response around the fracture site due to unstable comminuted fractures.
4. Early or late infection, both deep and/or superficial.
5. Nerve damage may occur as a result of the surgical trauma.
6. Metal sensitivity reactions in patients following surgical implant have rarely been reported, and their significance awaits further clinical evaluation.

WARNINGS AND PRECAUTIONS

Responsibility for proper selection of patients, adequate training, experience in the choice and placement of implants and the decision to leave or remove implants postoperatively, rests with the surgeon.

The surgeon should discuss the expectations of surgery inherent in the use of the product with the patient. Particular attention should be given to a discussion postoperatively and the necessity for periodic medical follow-up.

The correct selection of the product is extremely important. The product should be used in the correct anatomic location, consistent with accepted standards for internal fixation. Failure to use the appropriate product for the application may result in a premature clinical failure. Failure to use the proper component to maintain adequate blood supply and provide rigid fixation may result in loosening, bending, or fracturing of the product and/or bone.

Careful handling and storage of the product is required. Scratching or damage to the component can significantly reduce the strength and fatigue resistance of the product.

Once applied, the product should never be reused. Although it may appear undamaged, previous stresses may have created imperfections that could reduce its service life.

The patient should be advised to report any unusual changes of the operated site to his surgeon. The patient should be closely monitored if a change at the fixation site has been detected. The surgeon should evaluate the possibility of subsequent clinical failure, and discuss with the patient the need for any measures deemed necessary to aid healing.

In all but mandibular bridging plate applications and for medical attention of arthrodeses, the implants are designed to function only until bony healing (usually 6-10 weeks). Delayed healing, nonunion or subsequent bone resorption or trauma may lead to excessive stress on the implant(s) and result in loosening, bending, cracking or fracturing.

CLEANING

- New products must be carefully cleaned before initial sterilization. Trained personnel must perform cleaning (manual and/or machine cleaning, ultrasound treatment, etc.) along with maintenance and mechanical inspection prior to initial sterilization.

USE OF PRODUCTS

Implants and instruments are produced and designed to be used together. The use of products from other manufacturers along with these products can involve incalculable risks and/or contamination of the material and misalignments of implant to instrument, thereby endangering the patient, user or third parties.

STERILIZATION

- Exact compliance is required with the manufacturers' user instructions for sterilizers.
- It is the responsibility of the user facility to make sure that special cleaning and sterilization methods are used for deactivation of specific pathogens and to validate sterilization cycles to account for differences in sterilization chambers, wrapping methods and load configurations.
- All non-sterile products are sterilizable by steam sterilization (autoclaving). For initial sterilization and resterilization of implant systems, the following parameters can be used:

Cycle Type	Prevac
Cycle Length	15 min
Temperature	270°C
Drying Time	60 min
Steam Pressure	30 PSI(206kPa)

HANDLING INFORMATION

Implants

Bone plates and bone screws may be made of commercially pure (CP) titanium or Ti6Al4V alloy (acc. to ASTM F67, ASTM F136/ISO 5832 2,3) (see package or brochure for material used in the specific implant). Both materials are biocompatible, corrosion-resistant and non-toxic in the biological environment, and produce negligible artifacts by X-ray, CT and MRI.

Bone Plate Precautions

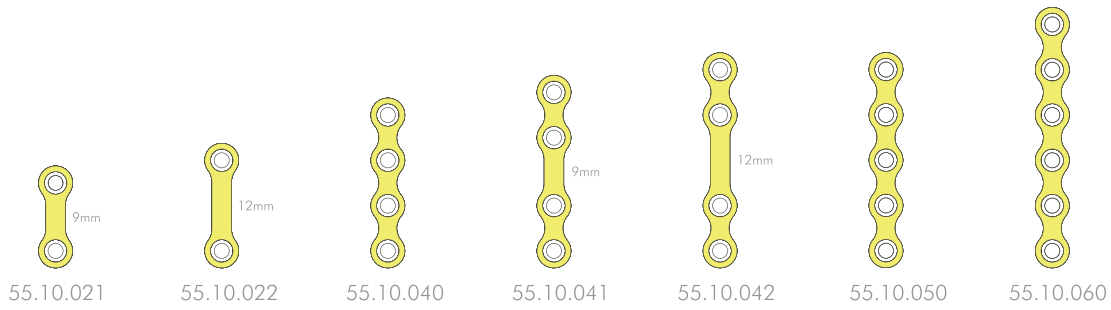
- Because titanium hardness increases and ductility (bendability) decreases due to cold working during the bending process, it is essential to ensure that the desired shape of the implant is reached in as few bends as possible. Excessive bending can lead to postoperative plate fracture.
- Extremely acute angles together with small bending radii must be avoided because of the potential risk for postoperative breakage.
- Excessively aggressive use of bending instruments can cause recognizable macroscopic damage to the implant (indentations, elongated screw holes, etc.). In such cases, the implant must be exchanged for a new, more carefully bent one.
- Deformed screw recesses signify not only an increased risk of breakage in these areas but also impair the accurate fit of the screw head to the plate.
- A cut bone plate segment to be implanted may require deburring (see brochure for suitable deburring instrument) to prevent soft tissue injuries or irritations.

Bone Screw Precautions

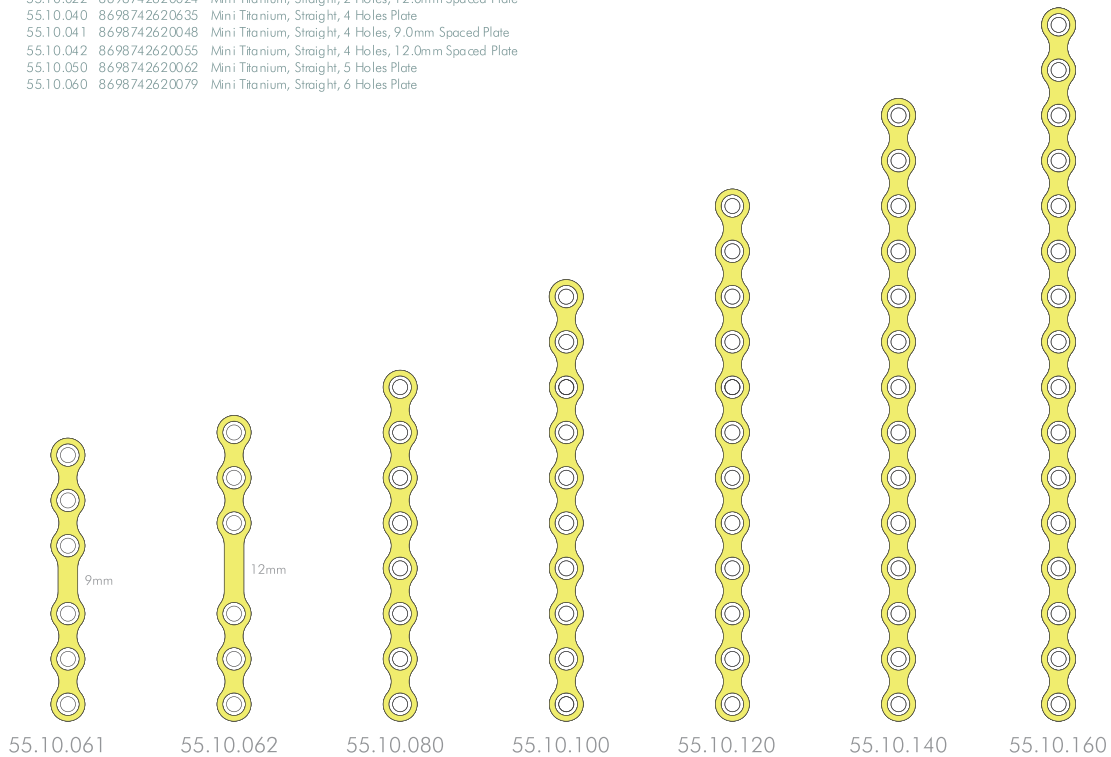
- If not otherwise expressly noted in the brochure, bone screws are self-tapping, obviating the use of a tap before bone screw insertion. Exceptions include (but are not limited to) when bone
- Regardless of the geometry of the screwdriver recess in the head of the bone screw (slot-pin, cross-slot, hex-fit, square-fit, etc.), it is essential to ensure that the screwdriver/screw head connection is exactly aligned in the vertical direction; otherwise there will be an increased risk of mechanical damage to the implant or the screwdriver.
- When engaging the bone screw, axial pressure of the screwdriver into the screw head must be adequately applied to ensure that the blade is fully inserted into the screw head. This results in axial alignment and full contact between driver and screw.
- In the final phase of screw insertion, the underside of the screw head contacts either the bone or the screw head recess of a bone plate, and a steep rise in resistance is clearly perceptible. Sensitive tightening of the screw must be exercised to reduce the risk of mechanical damage to the screw, screwdriver, or bony hole.

Mini Plates

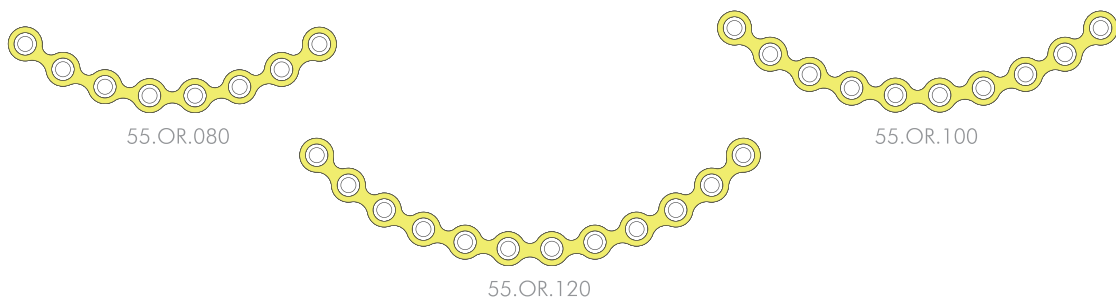
Scale: 1/1
Thickness : 1.0 mm



55.10.021 8698742620017 Mini Titanium, Straight, 2 Holes, 9.0mm Spaced Plate
 55.10.022 8698742620024 Mini Titanium, Straight, 2 Holes, 12.0mm Spaced Plate
 55.10.040 8698742620635 Mini Titanium, Straight, 4 Holes Plate
 55.10.041 8698742620048 Mini Titanium, Straight, 4 Holes, 9.0mm Spaced Plate
 55.10.042 8698742620055 Mini Titanium, Straight, 4 Holes, 12.0mm Spaced Plate
 55.10.050 8698742620062 Mini Titanium, Straight, 5 Holes Plate
 55.10.060 8698742620079 Mini Titanium, Straight, 6 Holes Plate



55.10.061 8698742620086 Mini Titanium, Straight, 6 Holes, 9.0mm Spaced Plate
 55.10.062 8698742620093 Mini Titanium, Straight, 6 Holes, 12.0mm Spaced Plate
 55.10.080 8698742620109 Mini Titanium, Straight, 8 Holes Plate
 55.10.100 8698742620116 Mini Titanium, Straight, 10 Holes Plate
 55.10.120 8698742620123 Mini Titanium, Straight, 12 Holes Plate
 55.10.140 8698742620130 Mini Titanium, Straight, 14 Holes Plate
 55.10.160 8698742620147 Mini Titanium, Straight, 16 Holes Plate



55.OR.80 8698742620512 Mini Titanium, Orbital, 8 Holes Plate
 55.OR.100 8698742620529 Mini Titanium, Orbital, 10 Holes Plate
 55.OR.120 8698742620536 Mini Titanium, Orbital, 12 Holes Plate

55.10.250 8698742622172 Mini Titanium, Straight, 25 Holes Plate } are available in stock.
 55.10.400 8698742620154 Mini Titanium, Straight, 40 Holes Plate }

Mini Plates

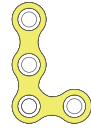
Scale: 1/1
Thickness : 1.0 mm



55.RA.042-R



55.RA.041-R



55.RA.040-R



55.RA.040-L



55.RA.041-L



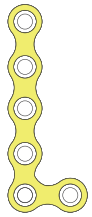
55.RA.042-L

55.RA.040-R 8698742620178
55.RA.041-R 8698742620192
55.RA.042-R 8698742620215

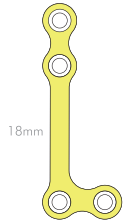
Mini Titanium, -L- Shape, 4 Holes, Right Hand Plate
Mini Titanium, -L- Shape, 4 Holes, 9.0mm Spaced, Right Hand Plate
Mini Titanium, -L- Shape, 4 Holes, 12.0mm Spaced, Right Hand Plate

55.RA.040-L 8698742620161
55.RA.041-L 8698742620185
55.RA.042-L 8698742620208

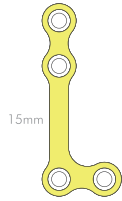
Mini Titanium, -L- Shape, 4 Holes, Left Hand Plate
Mini Titanium, -L- Shape, 4 Holes, 9.0mm Spaced, Left Hand Plate
Mini Titanium, -L- Shape, 4 Holes, 12.0mm Spaced, Left Hand Plate



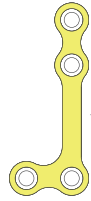
55.RA.061-R



55.RA.044-R



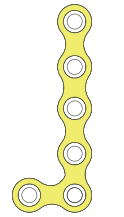
55.RA.043-R



55.RA.043-L



55.RA.044-L



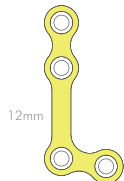
55.RA.061-L

55.RA.043-R 8698742620239
55.RA.044-R 8698742620253
55.RA.061-R 8698742622196

Mini Titanium, -L- Shape, 4 Holes, 15.0mm Spaced, Right Hand Plate
Mini Titanium, -L- Shape, 4 Holes, 18.0mm Spaced, Right Hand Plate
Mini Titanium, -L- Shape, 6 Holes, Right Hand Plate

55.RA.043-L 8698742620222
55.RA.044-L 8698742620246
55.RA.061-L 8698742622189

Mini Titanium, -L- Shape, 4 Holes, 15.0mm Spaced, Left Hand Plate
Mini Titanium, -L- Shape, 4 Holes, 18.0mm Spaced, Left Hand Plate
Mini Titanium, -L- Shape, 6 Holes, Left Hand Plate



55.AN.042-R



55.AN.041-R



55.AN.040-R



55.AN.040-L



55.AN.041-L



55.AN.042-L

55.AN.040-R 8698742620277
55.AN.041-R 8698742620291
55.AN.042-R 8698742620314

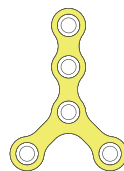
Mini Titanium, -L- Shape, 4 Holes, 100 Degree, Right Hand Plate
Mini Titanium, -L- Shape, 4 Holes, 9.0mm Spaced, 100 Degree, Right Hand Plate
Mini Titanium, -L- Shape, 4 Holes, 12.0mm Spaced, 100 Degree, Right Hand Plate

55.AN.040-L 8698742620260
55.AN.041-L 8698742620284
55.AN.042-L 8698742620307

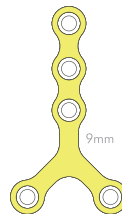
Mini Titanium, -L- Shape, 4 Holes, 100 Degree, Left Hand Plate
Mini Titanium, -L- Shape, 4 Holes, 9.0mm Spaced, 100 Degree, Left Hand Plate
Mini Titanium, -L- Shape, 4 Holes, 12.0mm Spaced, 100 Degree, Left Hand Plate



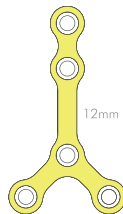
55.Y.041



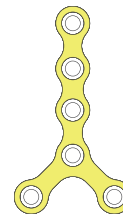
55.Y.050



55.Y.051



55.Y.061



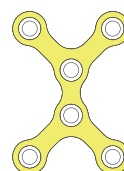
55.Y.062



55.Y.063

55.Y.041 8698742620321
55.Y.050 8698742620338
55.Y.051 8698742620345
55.Y.061 8698742620352
55.Y.062 8698742622202
55.Y.063 8698742625111
55.YY.060 8698742620369
55.YY.061 8698742620376
55.YY.062 8698742620383

Mini Titanium, -Y- Shape, 4 Holes, 15.0mm Spaced Plate
Mini Titanium, -Y- Shape, 5 Holes Plate
Mini Titanium, -Y- Shape, 5 Holes, 9.0mm Spaced Plate
Mini Titanium, -Y- Shape, 5 Holes, 12.0mm Spaced Plate
Mini Titanium, -Y- Shape, 6 Holes Plate
Mini Titanium, -Y- Shape, 6 Holes, 9.0mm Spaced Plate
Mini Titanium, Double -Y- Shape, 6 Holes Plate
Mini Titanium, Double -Y- Shape, 6 Holes, 9.0mm Spaced Plate
Mini Titanium, Double -Y- Shape, 6 Holes, 12.0mm Spaced Plate



55.YY.060



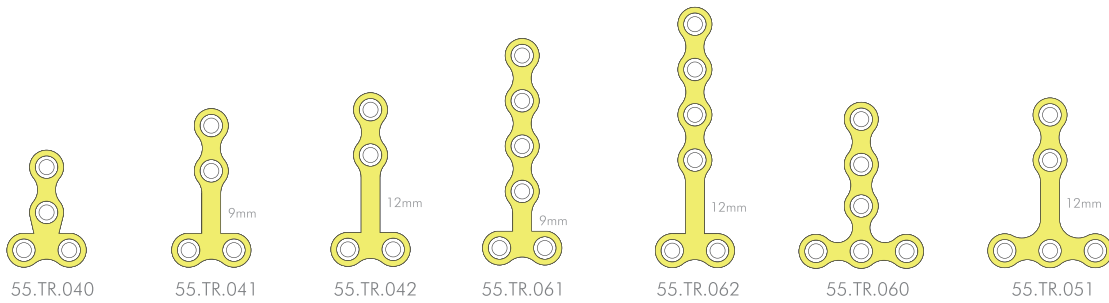
55.YY.061



55.YY.062

Mini Plates

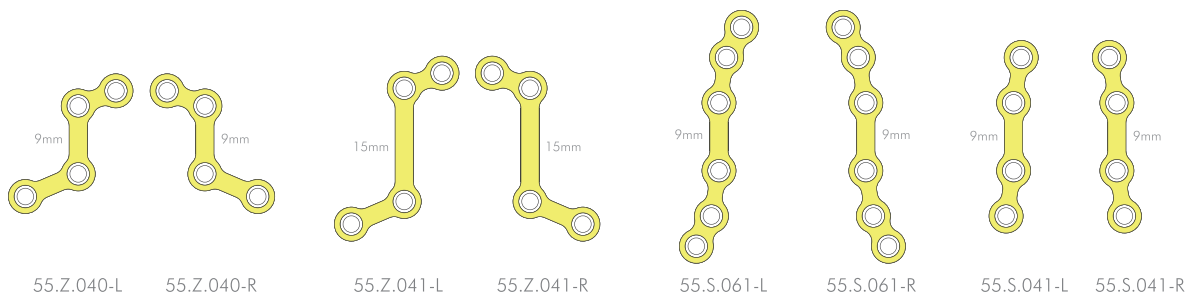
Scale: 1/1
Thickness : 1.0 mm



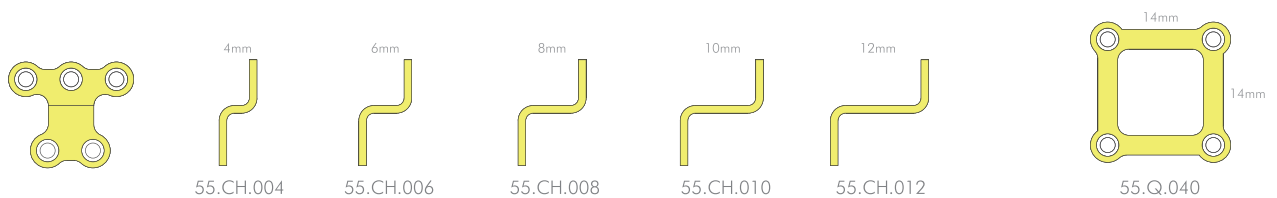
55.TR.040 8698742620390 Mini Titanium, -T- Shape, 4 Holes Plate
 55.TR.041 8698742620444 Mini Titanium, -T- Shape, 4 Holes, 9.0mm Spaced Plate
 55.TR.042 8698742620420 Mini Titanium, -T- Shape, 4 Holes, 12.0mm Spaced Plate
 55.TR.051 8698742620451 Mini Titanium, -T- Shape, 5 Holes, 12.0mm Spaced Plate
 55.TR.060 8698742620437 Mini Titanium, -T- Shape, 6 Holes Plate
 55.TR.061 8698742620406 Mini Titanium, -T- Shape, 6 Holes, 9.0mm Spaced Plate
 55.TR.062 8698742620413 Mini Titanium, -T- Shape, 6 Holes, 12.0mm Spaced Plate



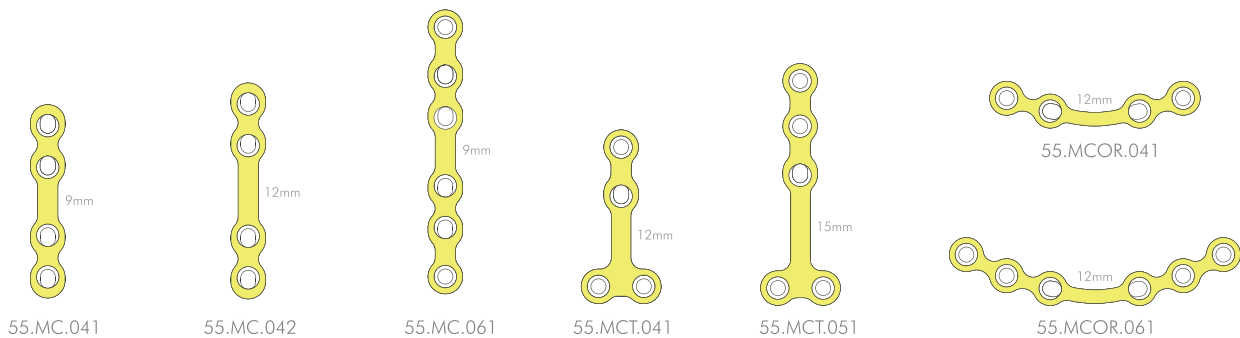
55.TA.051-L 8698742620468 Mini Titanium, -T- Shape, 5 Holes, 12.0mm Spaced, 100 Degree, Left Hand Plate
 55.TA.051-R 8698742620475 Mini Titanium, -T- Shape, 5 Holes, 12.0mm Spaced, 100 Degree, Right Hand Plate
 55.TT.060 8698742620482 Mini Titanium, Double -T- Shape, 6 Holes Plate
 55.TT.061 8698742620499 Mini Titanium, Double -T- Shape, 6 Holes, 9.0mm Spaced Plate
 55.H.070 8698742620505 Mini Titanium, -H- Shape, 7 Holes Plate



55.Z.040-L 8698742620598 Mini Titanium, -Z- Shape, 4 Holes, 9.0mm Spaced, Left Hand Plate
 55.Z.040-R 8698742620604 Mini Titanium, -Z- Shape, 4 Holes, 9.0mm Spaced, Right Hand Plate
 55.Z.041-L 8698742620611 Mini Titanium, -Z- Shape, 4 Holes, 15.0mm Spaced, Left Hand Plate
 55.Z.041-R 8698742620628 Mini Titanium, -Z- Shape, 4 Holes, 15.0mm Spaced, Right Hand Plate
 55.S.041-L 8698742620550 Mini Titanium, -S- Shape, 4 Holes, 9.0mm Spaced, Left Hand Plate
 55.S.041-R 8698742620567 Mini Titanium, -S- Shape, 4 Holes, 9.0mm Spaced, Right Hand Plate
 55.S.061-L 8698742620574 Mini Titanium, -S- Shape, 6 Holes, 9.0mm Spaced, Left Hand Plate
 55.S.061-R 8698742620581 Mini Titanium, -S- Shape, 6 Holes, 9.0mm Spaced, Right Hand Plate



55.CH.004 8698742620703 Mini Titanium, Chin, 5 Holes, 4.0mm Offset Plate
 55.CH.006 8698742620710 Mini Titanium, Chin, 5 Holes, 6.0mm Offset Plate
 55.CH.008 8698742620727 Mini Titanium, Chin, 5 Holes, 8.0mm Offset Plate
 55.CH.010 8698742620734 Mini Titanium, Chin, 5 Holes, 10.0mm Offset Plate
 55.CH.012 8698742620741 Mini Titanium, Chin, 5 Holes, 12.0mm Offset Plate
 55.Q.040 8698742620543 Mini Titanium, Quadrant, 4 Holes, 14.0mm Spaced Plate



55.MC.041 8698742622974 Mini Titanium Compression, Straight, 4 Holes, 9.0mm Spaced Plate
 55.MC.042 8698742620642 Mini Titanium Compression, Straight, 4 Holes, 12.0mm Spaced Plate
 55.MC.061 8698742620659 Mini Titanium Compression, Straight, 6 Holes, 9.0mm Spaced Plate
 55.MCOR.041 8698742620680 Mini Titanium Compression, Orbital, 4 Holes, 12.0mm Spaced Plate
 55.MCOR.061 8698742620697 Mini Titanium Compression, Orbital, 6 Holes, 12.0mm Spaced Plate
 55.MCT.041 8698742620666 Mini Titanium Compression, -T- Shape, 4 Holes, 12.0mm Spaced Plate
 55.MCT.051 8698742620673 Mini Titanium Compression, -T- Shape, 5 Holes, 15.0mm Spaced Plate



55.TB.A1 (Complete|Box)
55.TB.B1 (Box)
55.TB.C1 (Cover)
Mini Plate & Screws Box



55.TO.A1
Mini Instruments
Organizer



K3.303
300x290x110mm
(For Instrument Organizer)



K3.309
300x290x140mm
(For Wire Basket)

MINI SYSTEM
STERILIZATION
CONTAINER



D5.914
Bone Clamp



E1.180
Trocart Set



E1.141
Plate Cutter



E1.149
Plate Pincette



E1.140
Mini Plate Bender



E1.135
Depth Gauge



E1.147
Plate Holder



D7.710
Screw Driver



D7.710
Screw Driver
(Holder Type)



D7.810
Angular Screw Driver



K2.491
Wire Basket



K2.521
Silicone Mat



56.Y.140

56.Y.140 8698742621038 Micro Titanium, -Y- Shape, 4 Holes, 8.0mm Spaced Plate
56.Y.141 8698742621045 Micro Titanium, -Y- Shape, 4 Holes, 12.0mm Spaced Plate
56.Y.241 8698742621052 Micro Titanium, -Y- Shape, 4 Holes, 15.0mm Spaced Plate



56.Y.141

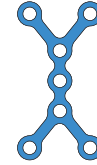


56.Y.241



56.YY.060

56.YY.060 8698742621069 Micro Titanium, Double -Y- Shape, 6 Holes Plate
56.YY.070 8698742621076 Micro Titanium, Double -Y- Shape, 7 Holes Plate



56.YY.070



56.TR.140

56.TR.140 8698742620994 Micro Titanium, -T- Shape, 4 Holes, 7.5mm Spaced Plate
56.TR.141 8698742621007 Micro Titanium, -T- Shape, 4 Holes, 9.0mm Spaced Plate
56.TR.241 8698742621014 Micro Titanium, -T- Shape, 4 Holes, 12.0mm Spaced Plate



56.TR.141



56.TR.241



56.TT.040

56.TT.040 8698742621021 Micro Titanium, Double -T- Shape, 6 Holes Plate
56.H.091 8698742621083 Micro Titanium, -H- Shape, 9 Holes Plate



56.H.091



56.OR.060



56.OR.061



56.OR.070

56.OR.060 8698742621090 Micro Titanium, Orbital, 6 Holes, 8.0mm Spaced Plate
56.OR.061 8698742621106 Micro Titanium, Orbital, 6 Holes, 12.0mm Spaced Plate
56.OR.070 8698742621113 Micro Titanium, Orbital, 7 Holes, 2x7.5mm Spaced Plate



56.Q.041

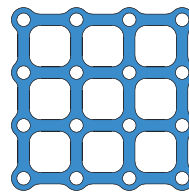


56.Q.042

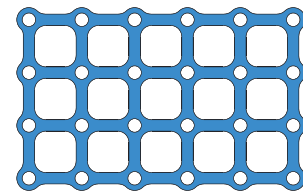


56.Q.043

56.Q.041 8698742621120 Micro Titanium, -Q- Square, 4 Holes, 7.0mm Spaced (2x2) Plate
56.Q.042 8698742621137 Micro Titanium, -Q- Square, 6 Holes, 7.0mm Spaced (2x3) Plate
56.Q.043 8698742621144 Micro Titanium, -Q- Square, 8 Holes, 7.0mm Spaced (2x4) Plate

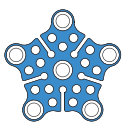


56.Q.444

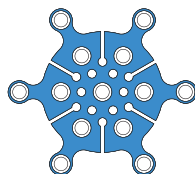


56.Q.446

56.Q.446 8698742621168 Micro Titanium, -Q- Square, 24 Holes, 7.0mm Spaced (4x6) Plate
56.Q.444 8698742621151 Micro Titanium, -Q- Square, 16 Holes, 7.0mm Spaced (4x4) Plate

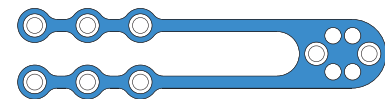


56.HC.007

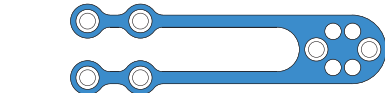


56.HC.010

56.HC.007 8698742623056 Micro Titanium, Bore Hole Cover, 7mm Plate
56.HC.010 8698742624909 Micro Titanium, Bore Hole Cover, 10mm Plate
56.UP.080 8698742625050 Micro Titanium, -U- Shape, 8 Holes Plate
56.UP.060 8698742625067 Micro Titanium, -U- Shape, 6 Holes Plate



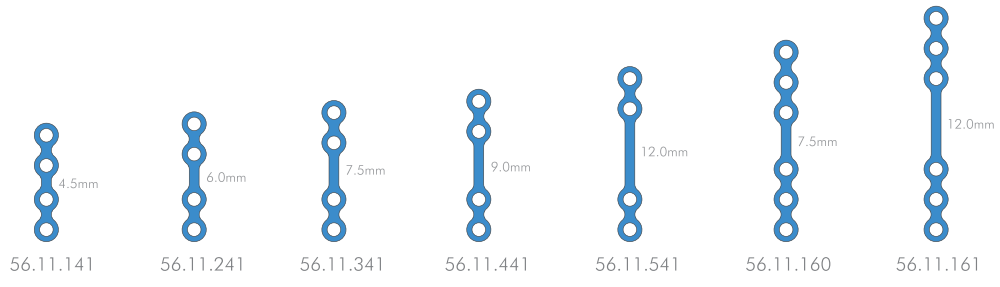
56.UP.080



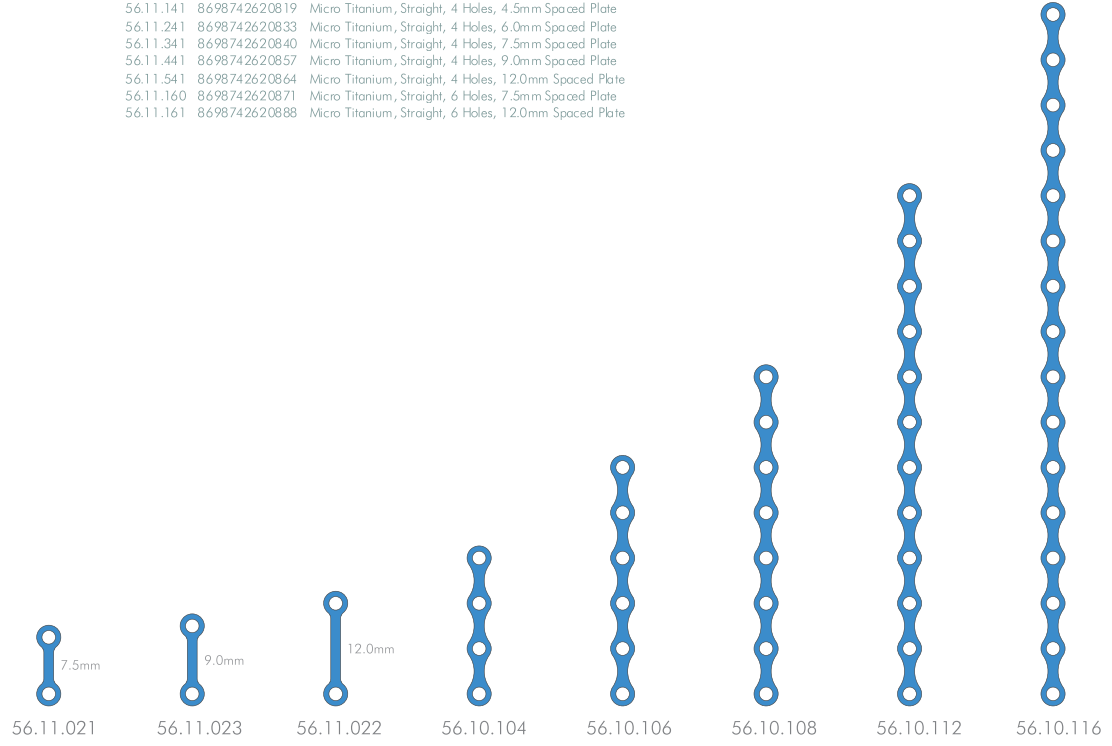
56.UP.060

Micro Plates

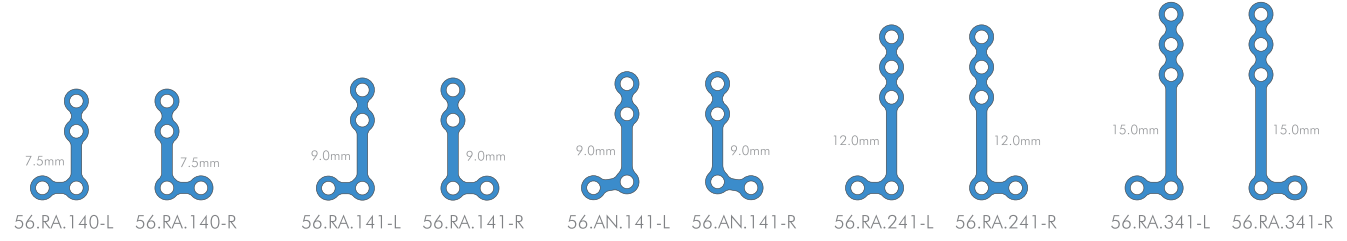
Scale: 1/1
Thickness :0.6 mm



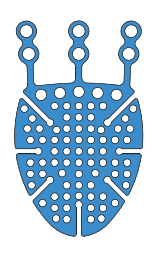
56.11.141 8698742620819 Micro Titanium, Straight, 4 Holes, 4.5mm Spaced Plate
 56.11.241 8698742620833 Micro Titanium, Straight, 4 Holes, 6.0mm Spaced Plate
 56.11.341 8698742620840 Micro Titanium, Straight, 4 Holes, 7.5mm Spaced Plate
 56.11.441 8698742620857 Micro Titanium, Straight, 4 Holes, 9.0mm Spaced Plate
 56.11.541 8698742620864 Micro Titanium, Straight, 4 Holes, 12.0mm Spaced Plate
 56.11.160 8698742620871 Micro Titanium, Straight, 6 Holes, 7.5mm Spaced Plate
 56.11.161 8698742620888 Micro Titanium, Straight, 6 Holes, 12.0mm Spaced Plate



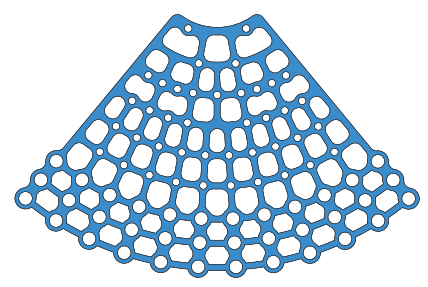
56.11.021 8698742620758 Micro Titanium, Straight, 2 Holes, 7.5mm Spaced Plate
 56.11.022 8698742620765 Micro Titanium, Straight, 2 Holes, 12.0mm Spaced Plate
 56.11.023 8698742622233 Micro Titanium, Straight, 2 Holes, 9.0mm Spaced Plate
 56.10.104 8698742620772 Micro Titanium, Straight, 4 Holes Plate
 56.10.106 8698742620789 Micro Titanium, Straight, 6 Holes Plate
 56.10.108 8698742620796 Micro Titanium, Straight, 8 Holes Plate
 56.10.112 8698742620802 Micro Titanium, Straight, 12 Holes Plate
 56.10.116 8698742620826 Micro Titanium, Straight, 16 Holes Plate



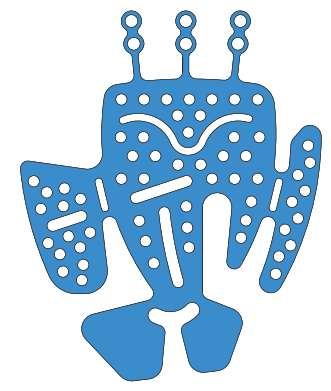
56.RA.140-L 8698742620918 Micro Titanium, -L Shape, 4 Holes, 7.5mm Spaced, Left Hand Plate
 56.RA.140-R 8698742620925 Micro Titanium, -L Shape, 4 Holes, 7.5mm Spaced, Right Hand Plate
 56.RA.141-L 8698742620932 Micro Titanium, -L Shape, 4 Holes, 9.0mm Spaced, Left Hand Plate
 56.RA.141-R 8698742620949 Micro Titanium, -L Shape, 4 Holes, 9.0mm Spaced, Right Hand Plate
 56.RA.241-L 8698742620956 Micro Titanium, -L Shape, 5 Holes, 12.0mm Spaced, Left Hand Plate
 56.RA.241-R 8698742620963 Micro Titanium, -L Shape, 5 Holes, 12.0mm Spaced, Right Hand Plate
 56.RA.341-L 8698742620970 Micro Titanium, -L Shape, 5 Holes, 15.0mm Spaced, Left Hand Plate
 56.RA.341-R 8698742620987 Micro Titanium, -L Shape, 5 Holes, 15.0mm Spaced, Right Hand Plate
 56.AN.141-L 8698742620895 Micro Titanium, -L Shape, 4 Holes, 9.0mm Spaced, 100 Degree, Left Hand Plate
 56.AN.141-R 8698742620901 Micro Titanium, -L Shape, 4 Holes, 9.0mm Spaced, 100 Degree, Right Hand Plate



56.OFP001



56.OFP002



56.OFP003

56.OFP.001 8698742625135 Orbita Floor Plate, Small
 56.OFP.002 8698742625142 Orbita Floor Plate, Large
 56.OFP.003 8698742625203 Orbita Floor Plate, Large, Anatomic



55.TB.A1 (Complete Box)
55.TB.B1 (Box)
55.TB.C1 (Cover)
Micro Plate & Screws Box



56.TO.A1
Micro Instruments
Organizer



K3.303
300x290x110mm
(For Instrument Organizer)



MICRO SYSTEM
STERILIZATION
CONTAINER



E1.141-1
Plate Cutter



E1.142
Plate Bender



D7.720
Screw Driver



D7.721
Screw Driver
(Holder Type)



E1.135
Depth Gauge



E1.147
Plate Holder



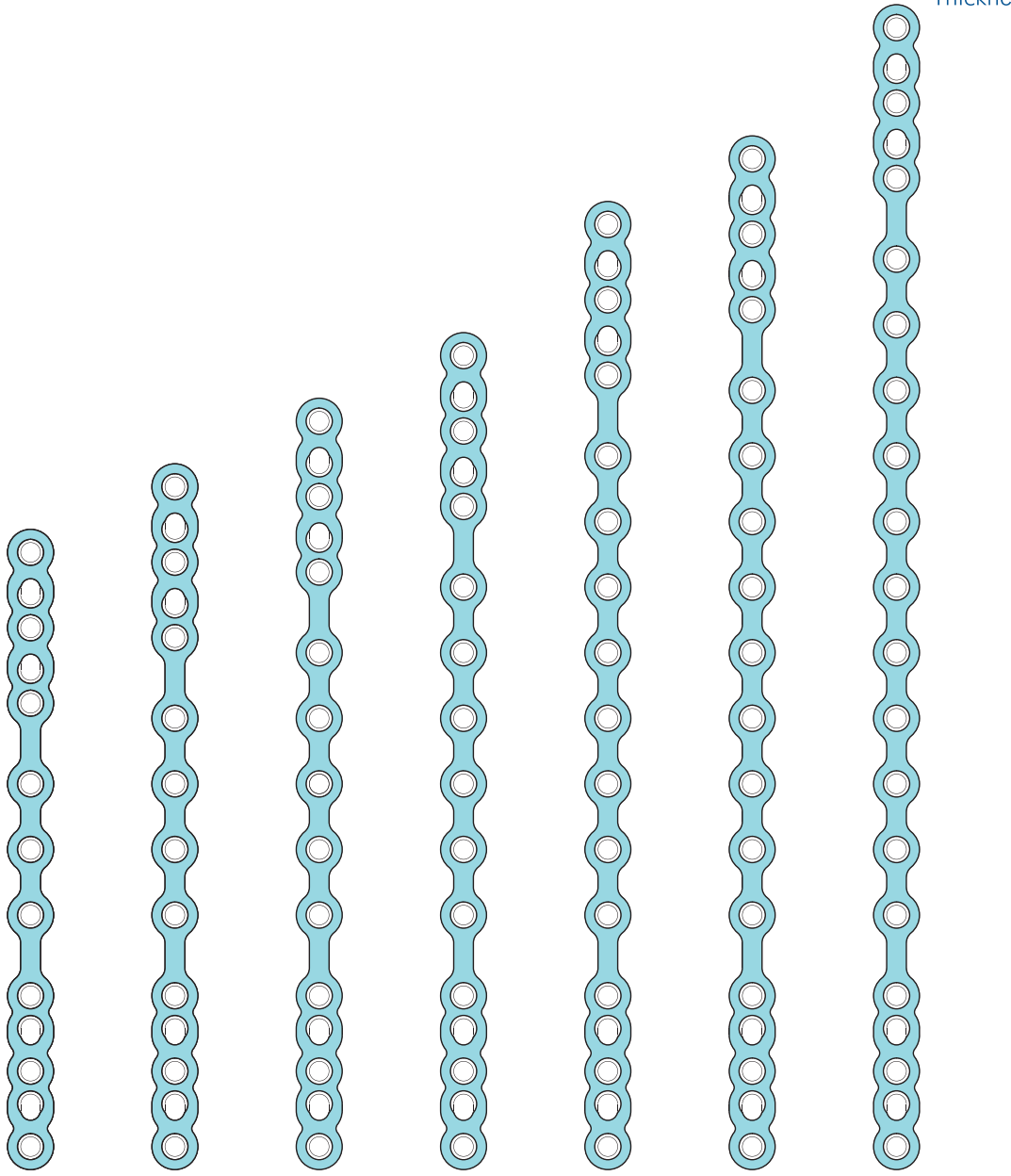
K2.521
Silicone Mat



K2.491
Wire Basket

Reconstruction Plates

Scale: 1/1
Thickness :2.0 mm



50.ST.100

50.ST.110

50.ST.120

50.ST.130

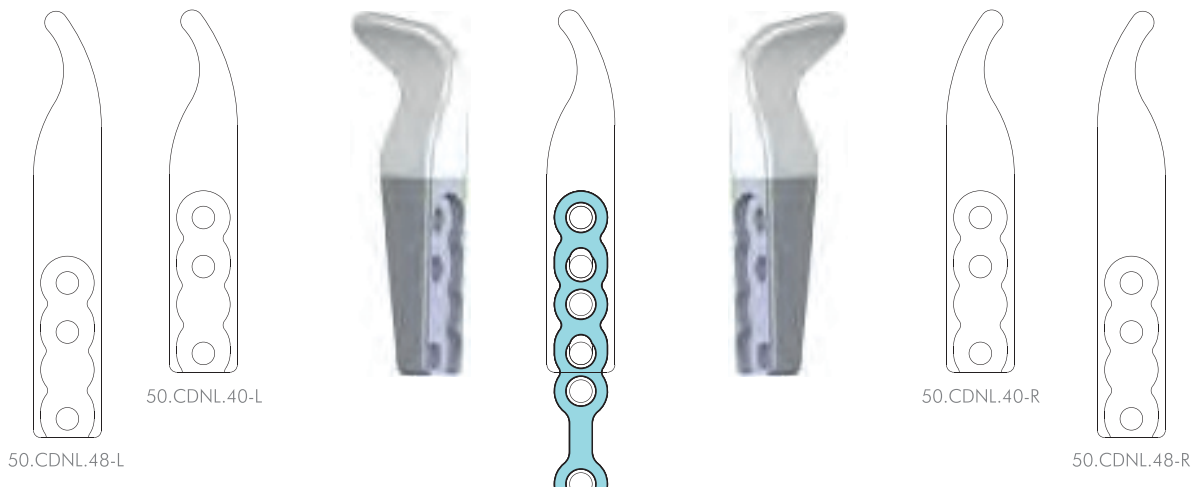
50.ST.150

50.ST.160

50.ST.180

50.ST.100 8698742621175 Reconstruction Mandibular Titanium, Straight, 13 Holes, 100mm Plate
 50.ST.110 8698742621182 Reconstruction Mandibular Titanium, Straight, 14 Holes, 110mm Plate
 50.ST.120 8698742621199 Reconstruction Mandibular Titanium, Straight, 15 Holes, 120mm Plate
 50.ST.130 8698742621205 Reconstruction Mandibular Titanium, Straight, 16 Holes, 130mm Plate

50.ST.150 8698742621212 Reconstruction Mandibular Titanium, Straight, 18 Holes, 150mm Plate
 50.ST.160 8698742621229 Reconstruction Mandibular Titanium, Straight, 19 Holes, 160mm Plate
 50.ST.180 8698742621236 Reconstruction Mandibular Titanium, Straight, 21 Holes, 180mm Plate



50.CDNL.40-L

50.CDNL.40-R

50.CDNL.48-L

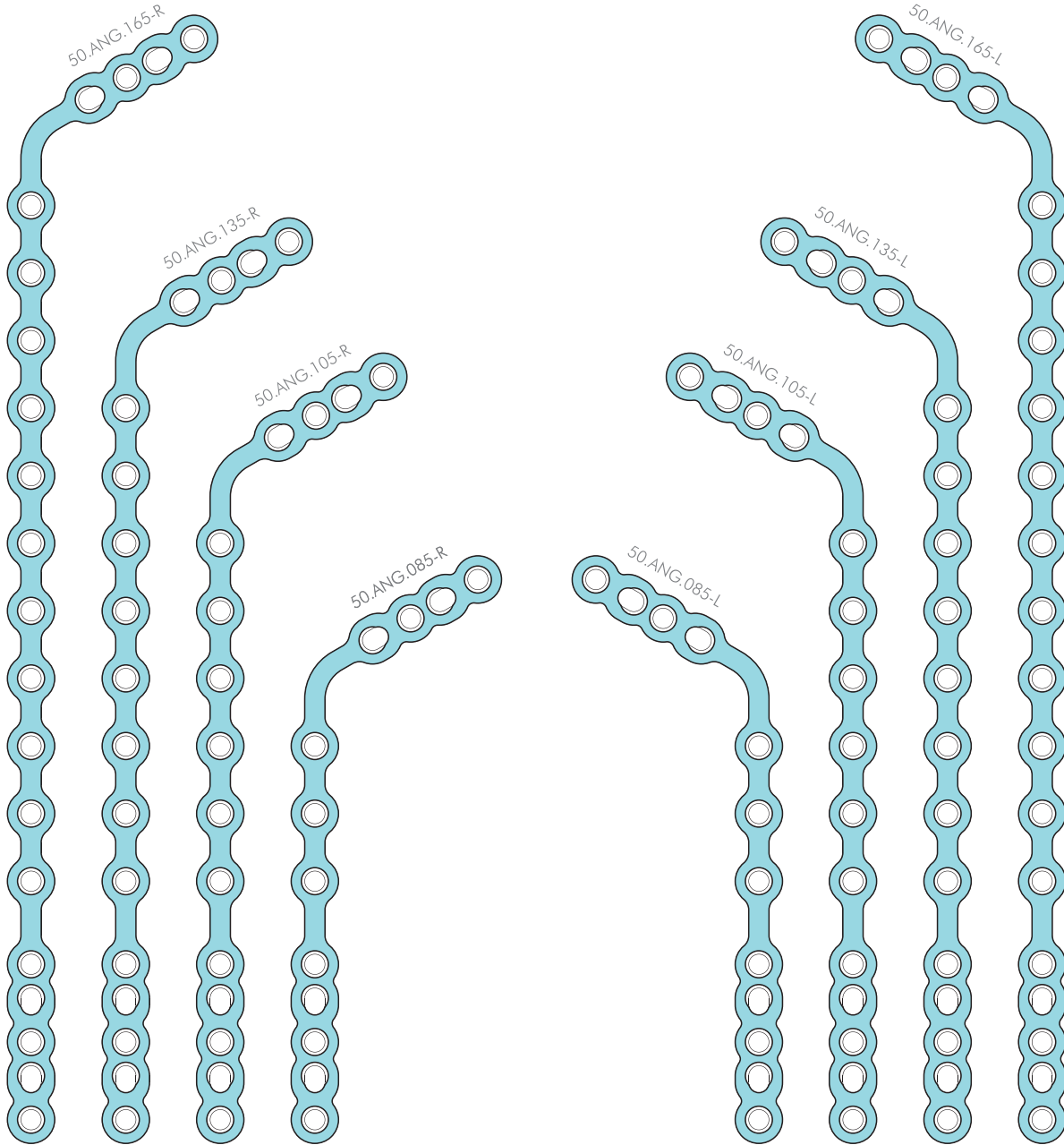
50.CDNL.48-R

50.CDNL40-L 8698742625210 Condylar Implant, Short, 40mm, Left Hand
 50.CDNL48-L 8698742625234 Condylar Implant, Long, 48mm, Left Hand

50.CDNL40-R 8698742625227 Condylar Implant, Short, 40mm, Right Hand
 50.CDNL48-R 8698742625241 Condylar Implant, Long, 48mm, Right Hand

Reconstruction Plates

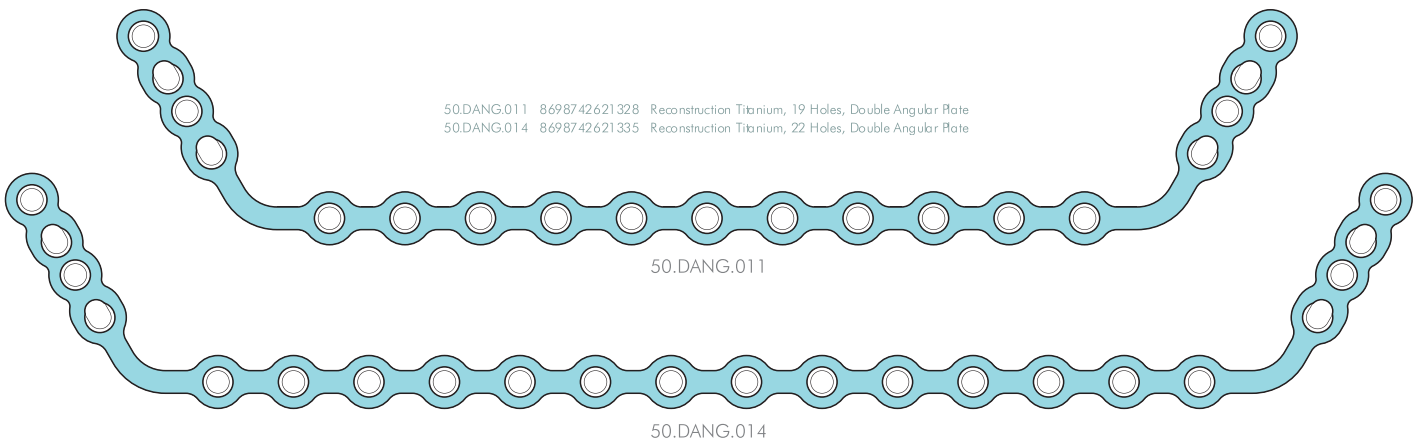
Scale: 1/1
Thickness :2.0 mm



50.ANG.105-R 8698742621267 Reconstruction Mandibular Titanium, 15 Holes, Angled, 105mm, Right Hand Plate
 50.ANG.135-R 8698742621281 Reconstruction Mandibular Titanium, 17 Holes, Angled, 135mm, Right Hand Plate
 50.ANG.165-R 8698742621304 Reconstruction Mandibular Titanium, 20 Holes, Angled, 165mm, Right Hand Plate
 50.ANG.85-R 8698742621243 Reconstruction Mandibular Titanium, 12 Holes, Angled, 85mm, Right Hand Plate

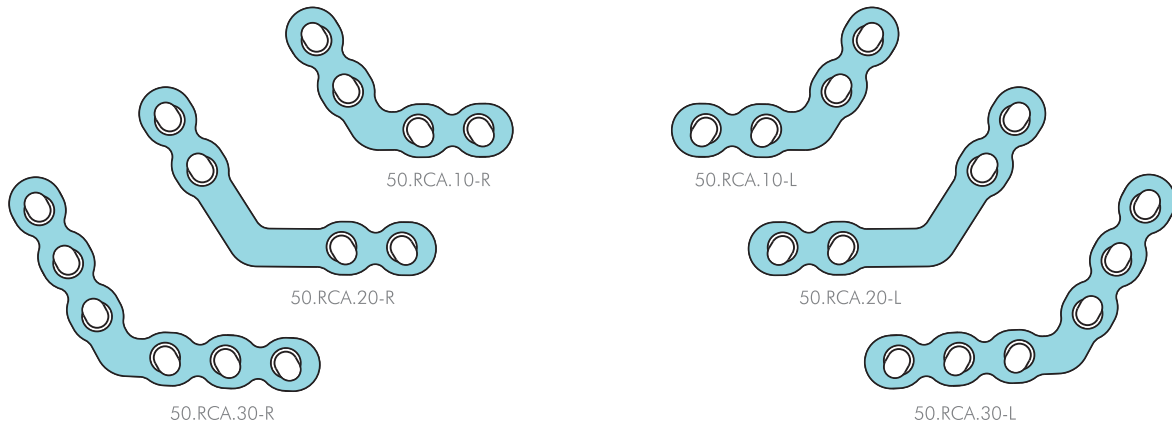
50.ANG.105-L 8698742621274 Reconstruction Mandibular Titanium, 15 Holes, Angled, 105mm, Left Hand Plate
 50.ANG.135-L 8698742621298 Reconstruction Mandibular Titanium, 17 Holes, Angled, 135mm, Left Hand Plate
 50.ANG.165-L 8698742621311 Reconstruction Mandibular Titanium, 20 Holes, Angled, 165mm, Left Hand Plate
 50.ANG.85-L 8698742621250 Reconstruction Mandibular Titanium, 12 Holes, Angled, 85mm, Left Hand Plate

50.DANG.011 8698742621328 Reconstruction Titanium, 19 Holes, Double Angular Plate
 50.DANG.014 8698742621335 Reconstruction Titanium, 22 Holes, Double Angular Plate



Reconstruction Plates

Scale: 1/1
Thickness :1.7 mm



50.RCA.10-R 8698742621403 Compression Reconstruction Titanium, 4 Holes, Angled, Short, Right Hand Plate
50.RCA.20-R 8698742621427 Compression Reconstruction Titanium, 4 Holes, Angled, Long, Right Hand Plate
50.RCA.30-R 8698742621441 Compression Reconstruction Titanium, 6 Holes, Angled, Right Hand Plate

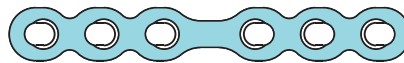
50.RCA.10-L 8698742621397 Compression Reconstruction Titanium, 4 Holes, Angled, Short, Left Hand Plate
50.RCA.20-L 8698742621410 Compression Reconstruction Titanium, 4 Holes, Angled, Long, Left Hand Plate
50.RCA.30-L 8698742621434 Compression Reconstruction Titanium, 6 Holes, Angled, Left Hand Plate



50.RCS.10



50.RCS.20



50.RCS.30



50.RCS.40



50.RCS.50

50.RCS.10 8698742621342 Compression Reconstruction Titanium, Straight, 4 Holes, 12.0mm Spaced Plate
50.RCS.20 8698742621359 Compression Reconstruction Titanium, Straight, 4 Holes, 15.0mm Spaced Plate
50.RCS.30 8698742621366 Compression Reconstruction Titanium, Straight, 6 Holes, 12.0mm Spaced Plate

50.RCS.40 8698742621373 Compression Reconstruction Titanium, Straight, 8 Holes Plate
50.RCS.50 8698742621380 Compression Reconstruction Titanium, Straight, 16 Holes Plate

Reconstruction Plates



50.TB.A1 (Complate Box)
50.TB.B1 (Box)
50.TB.C1 (Cover)
Reconstruction Plate & Screws Box



50.TO.A1
Reconstruction
Instruments
Organizer



K3.303
300x290x110mm
(For Instrument Organizer)

K3.309
300x290x140mm
(For Wire Basket)



RECONSTRUCTION
SYSTEM
STERILIZATION
CONTAINER



D4-13
Plate Cutter



D2.27
Reconstruction Plate Bender



D7.730
Screw Driver



D7.731
Screw Driver
(Holder Type)



E1.147
Plate Holder



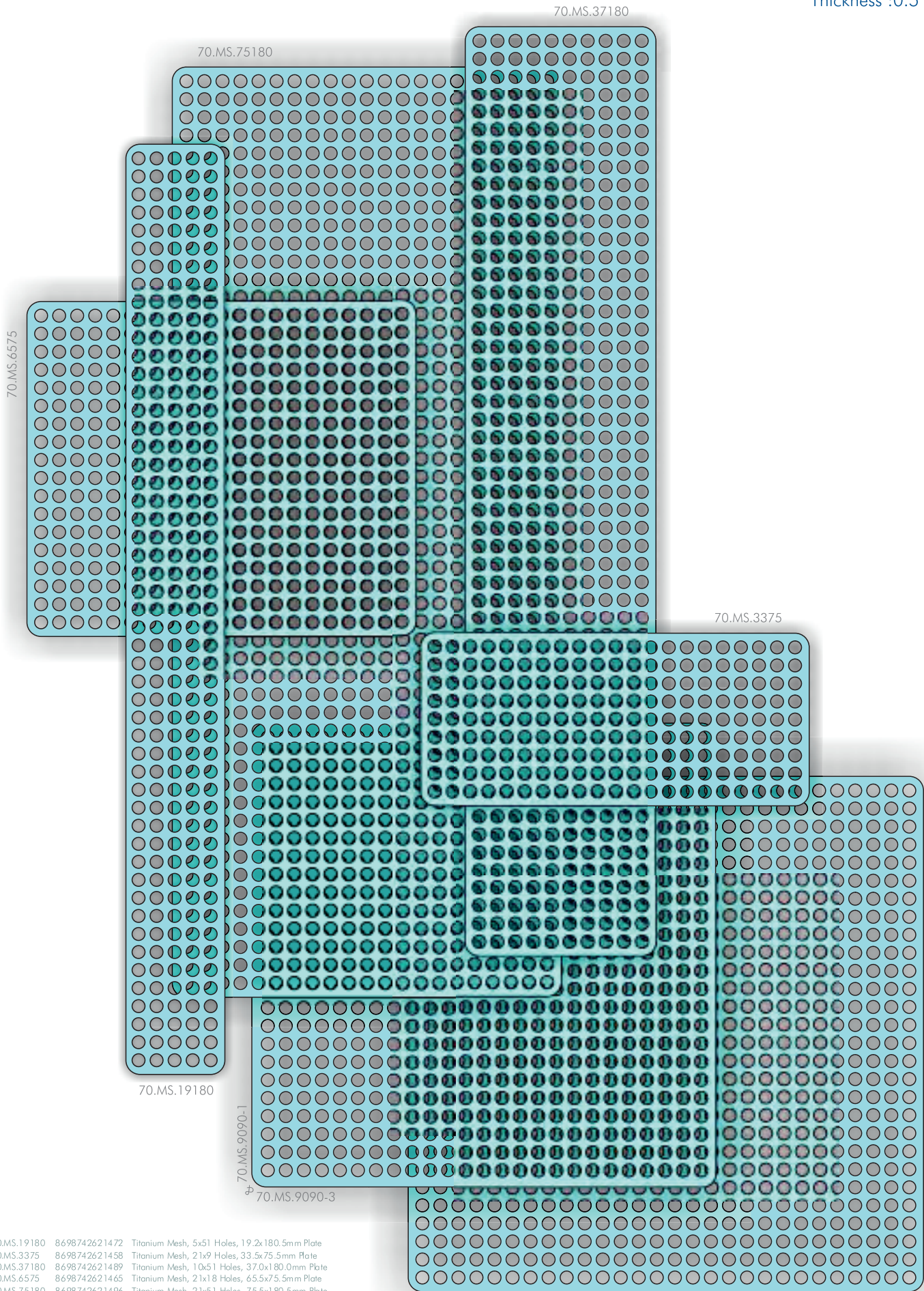
K2.521
Silicone Mat



K2.491
Wire Basket

Mesh Plates

Scale: 1/1
Thickness :0.5 mm



70.MS.19180	8698742621472	Titanium Mesh, 5x51 Holes, 19.2x180.5mm Plate
70.MS.3375	8698742621458	Titanium Mesh, 21x9 Holes, 33.5x75.5mm Plate
70.MS.37180	8698742621489	Titanium Mesh, 10x51 Holes, 37.0x180.0mm Plate
70.MS.6575	8698742621465	Titanium Mesh, 21x18 Holes, 65.5x75.5mm Plate
70.MS.75180	8698742621496	Titanium Mesh, 21x51 Holes, 75.5x180.5mm Plate
70.MS.9090-3	8698742621502	Titanium Mesh, 0.3mm Thickness, 90.0x90.0mm Plate
70.MS.1010	8698742622257	Titanium Mesh, 21x9 Holes, 0.6 Thickness, 10.0x10.0mm Plate
70.MS.9090-1	8698742622264	Titanium Mesh, 0.6mm Thickness, 90.0x90.0mm Plate

70.MS.1010

TITANIUM MINI BONE SCREWS

Ordering Number	UBB Code	Diameter of Screw Head	Diameter of Screw	Length for Cross Slot
60.SCR-5.0	8698742621519	3.0 mm	2.0 mm	5.0 mm
60.SCR-7.0	8698742621526		2.0 mm	7.0 mm
60.SCR-9.0	8698742621533		2.0 mm	9.0 mm
60.SCR-11.0	8698742621540		2.0 mm	11.0 mm
60.SCR-13.0	8698742621557		2.0 mm	13.0 mm
60.SCR-15.0	8698742621564		2.0 mm	15.0 mm
60.SCR-17.0	8698742621571		2.0 mm	17.0 mm
60.EMG-5.0	8698742625043		2.3 mm	5.0 mm
60.EMG-7.0	8698742621588		2.3 mm	7.0 mm
60.EMG-9.0	8698742622981		2.3 mm	9.0 mm
60.EMG-11.0	8698742625005		2.3 mm	11.0 mm



TITANIUM MICRO BONE SCREWS

Ordering Number	UBB Code	Diameter of Screw Head	Diameter of Screw	Length for Cross Slot
61.SCR-4.0	8698742621595	2.5 mm	1.6 mm	4.0 mm
61.SCR-5.0	8698742621601		1.6 mm	5.0 mm
61.SCR-6.0	8698742621618		1.6 mm	6.0 mm
61.SCR-7.0	8698742621625		1.6 mm	7.0 mm
61.SCR-9.0	8698742621632		1.6 mm	9.0 mm
61.SCR-11.0	8698742621649		1.6 mm	11.0 mm
61.SCR-13.0	8698742621656		1.6 mm	13.0 mm
61.SCR-15.0	8698742622998		1.6 mm	15.0 mm
61.EMG-5.0	8698742623063		1.9 mm	5.0 mm
61.EMG-6.0	8698742622271		1.9 mm	6.0 mm
61.EMG-7.0	8698742621663		1.9 mm	7.0 mm
61.EMG-9.0	8698742622288		1.9 mm	9.0 mm



TITANIUM RECONSTRUCTION BONE SCREWS

Ordering Number	UBB Code	Diameter of Screw Head	Diameter of Screw	Length for Cross Slot
62.SCR-7.0	8698742624916	4.0 mm	2.7 mm	7.0 mm
62.SCR-9.0	8698742621670		2.7 mm	9.0 mm
62.SCR-11.0	8698742621687		2.7 mm	11.0 mm
62.SCR-13.0	8698742621694		2.7 mm	13.0 mm
62.SCR-15.0	8698742621700		2.7 mm	15.0 mm
62.SCR-17.0	8698742621717		2.7 mm	17.0 mm
62.SCR-19.0	8698742621724		2.7 mm	19.0 mm
62.EMG-9.0	8698742623087		3.0 mm	9.0 mm



TITANIUM MINI BONE AUTO DRIVE SELF DRILLING SCREWS

Ordering Number	UBB Code	Diameter of Screw Head	Diameter of Screw	Length for Cross Slot
60.ADS-5.0	8698742623025		1.8 mm	5.0 mm
60.ADS-7.0	8698742623032		1.8 mm	7.0 mm



TWIST DRILL - MICRO

56.DR.32/4 8698742621779 Ø1,2x32mm 4mm Stop



56.DR.32/6 8698742621779 Ø1,2x32mm 6mm Stop



56.DR.32/8 8698742621779 Ø1,2x32mm 8mm Stop



56.DR.50/18 8698742621779 Ø1,2x50mm 18mm Stop



56.DR.60/25 8698742621779 Ø1,2x60mm 25mm Stop



TWIST DRILL - MINI

55.DR.44/12 8698742621779 Ø1,6x44mm 12mm Stop



55.DR.50/18 8698742621779 Ø1,6x50mm 18mm Stop



55.DR.70/18 8698742621779 Ø1,6x70mm 18mm Stop



55.DR.105/18 8698742621779 Ø1,6x105mm 18mm Stop



TWIST DRILL - RECONSTRUCTION

50.DR.105/25 8698742621779 Ø2,1x105mm 25mm Stop



LIPOPLASTY CANNULAS



EXTERNAL DISTRACTOR



INTRAORAL DISTRACTOR



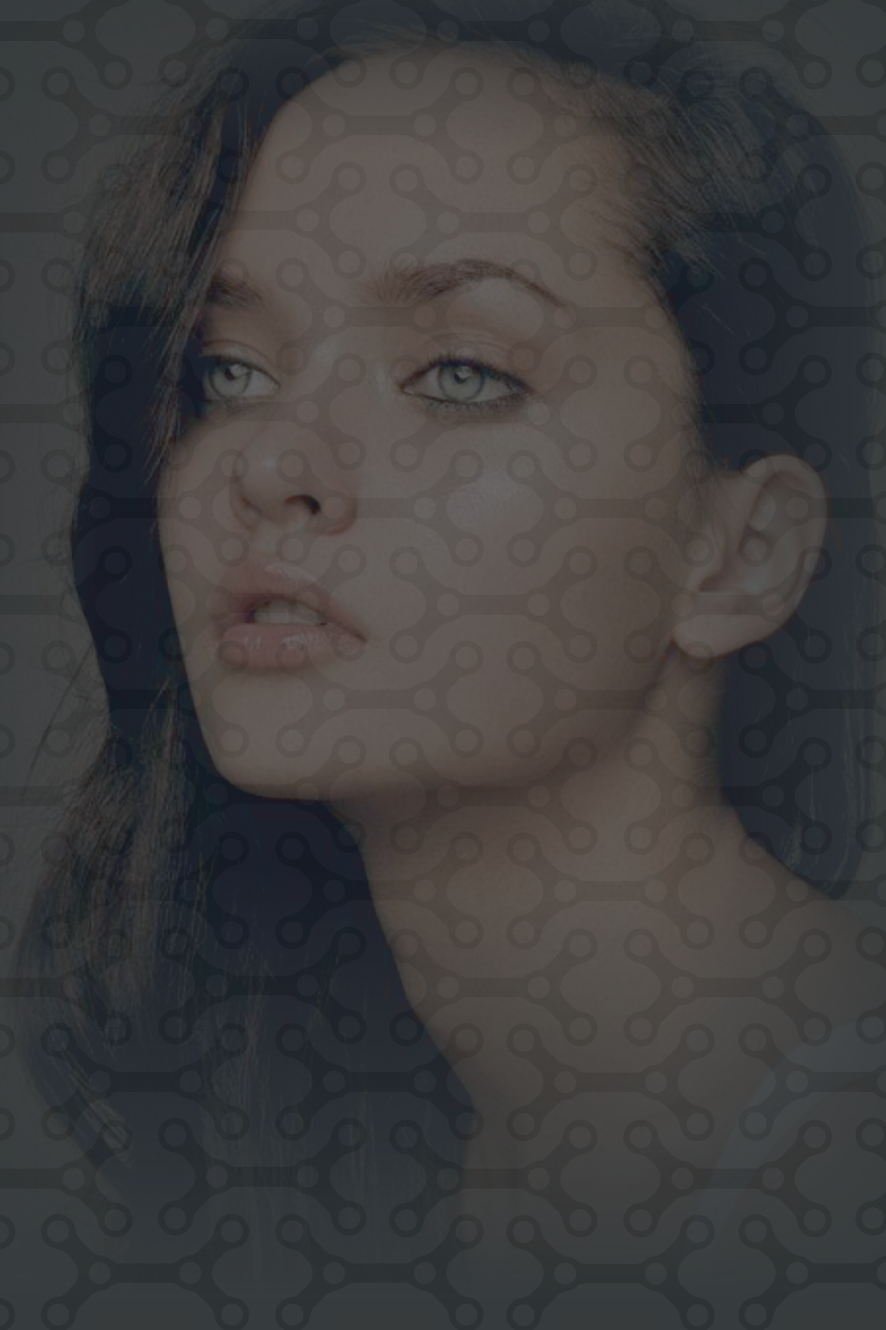
SUMMARY OF MOST COMMON TITANIUM GRADES / ALLOYS FOR BIOMEDICAL USE

GRADE ALLOY	COMMERCIALLY PURE TITANIUM						TITANIUM ALLOY	
	GRADE 1	GRADE 2	GRADE 3	GRADE 4	Grade 4	Grade 4	Ti-6Al-4V ELI	Ti-6Al-4V (Standard)
Condition	Annealed	Annealed	Annealed	Annealed	Annealed	Cold Drawn	Annealed	Cold Drawn
0.2% P.S. (Mpa)	170	230	300	440	440	520	780	828
U.T.S. (Mpa)	240	345	450	550	550	680	860	895
ELONGN. (%)	24	20	18	15	15	10	8	10
R.A. (%)	30	30	30	25	25	18	25	25
BEND TEST DIA (SHEET/STRIP)	3t	4t	4t	5t	5t		10t	10t
TYPICAL HARDNESS (HB)	120	180	220	260	260		320	330
ELASTIC MODULUS (Gpa)	105	105	105	105	105		106	106
APPLICABLE SPECS * < 8mm Dia.	ISO 5832 Pt 2 Gr 1	ISO 5832 Pt 2 Gr 2	ISO 5832 Pt 2 Gr 3	ISO 5832 Pt 2 Gr 4A	ISO 5832 Pt 2 Gr 4A	ISO 5832 Pt 2 Gr 4B		
	BS 7252 Pt 2 Gr 1	BS 7252 Pt 2 Gr 2	BS 7252 Pt 2 Gr 3	BS 7252 Pt 2 Gr 4A	BS 7252 Pt 2 Gr 4A	BS 7252 Pt 2 Gr 4B		
	ASTM F67 Gr 1	ASTM F67 Gr 2	ASTM F67 Gr 3	ASTM F67 Gr 4	ASTM F67 Gr 4			
	*ASTM F1341 Gr1	*ASTM F1341 Gr2	*ASTM F1341 Gr 3	*ASTM F1341 Gr 4	*ASTM F1341 Gr 4	*ASTM F1341 (SPECIAL)		SPECIAL
PROPERTY SUMMARY	INCREASING STRENGTH / DECREASING DUCTILITY							

Data is intended for guidance only - reference should be made to the applicable specifications for precise information

*** Bu katalogta bulunan ürünler için Distribütör olarak hizmet vermekteyiz.

*** We serve as Distributor for the products in this catalog.



4U[®]

Plates & Screws
Cranio Maxillofacial

**4U MAKİNA MEDİKAL OTOMOTİV SANAYİ
VE TİCARET LİMİTED ŞİRKETİ**

Turgut Özal Mahallesi, 2118. Cd. No: 6/A, 06370
Yenimahalle/Ankara - TURKEY

+90 312 566 0 655

info@4umedical.com.tr



2292



www.4umedical.com.tr

