4U® Plates&Screws

Cranio Maxillofacial

product CATALOGUE

www.4umedical.com.tr

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 Titainum)

- 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

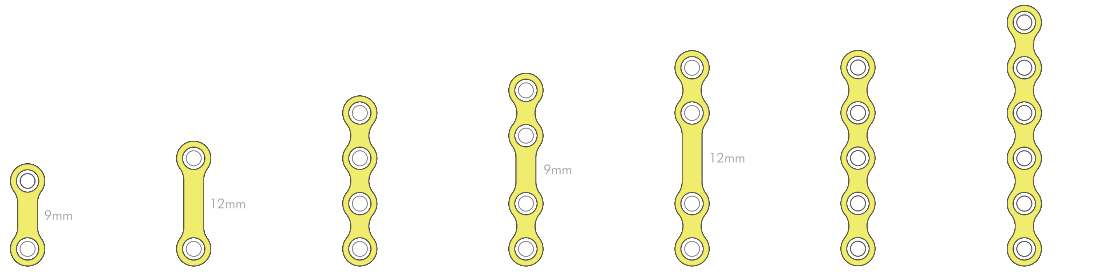
- Because titanium hardness increases and ductility (bendability) decreases due to cold working during the bending process, it is essential to ensure that the desired shape of the implant is reached in as few bends as possible. Excessive bending can lead to postoperative plate fracture.
- Extremely acute 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.

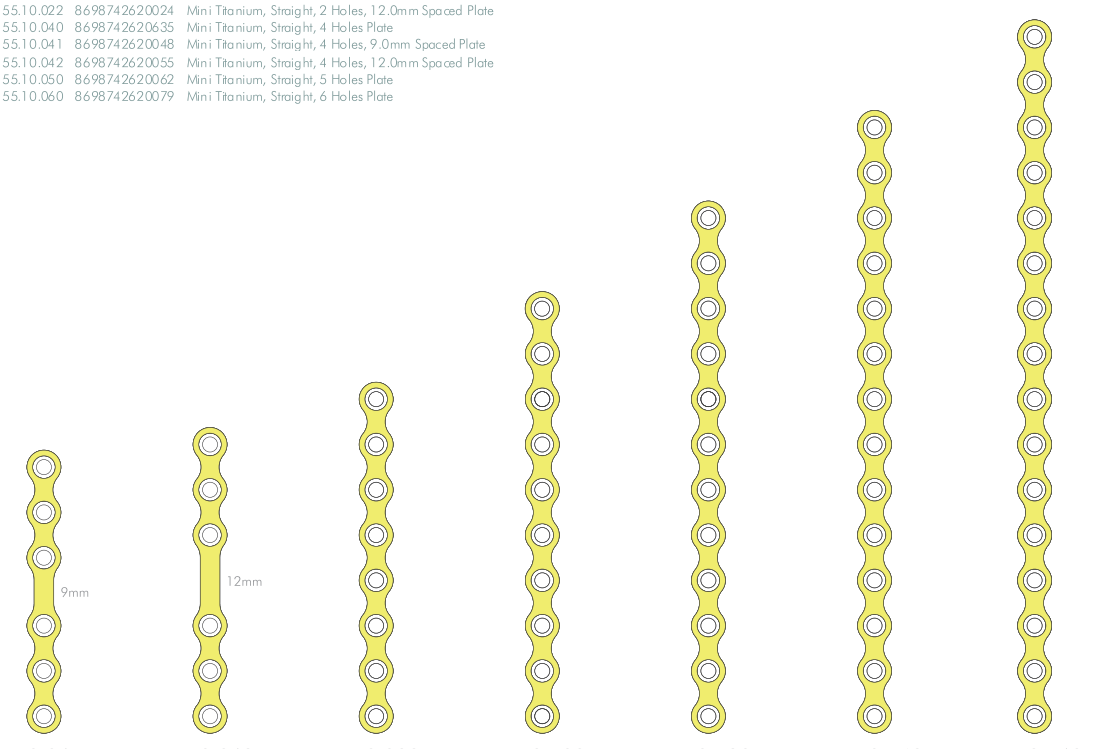
Mini Plates

Scale: 1/1
Thickness :1.0 mm



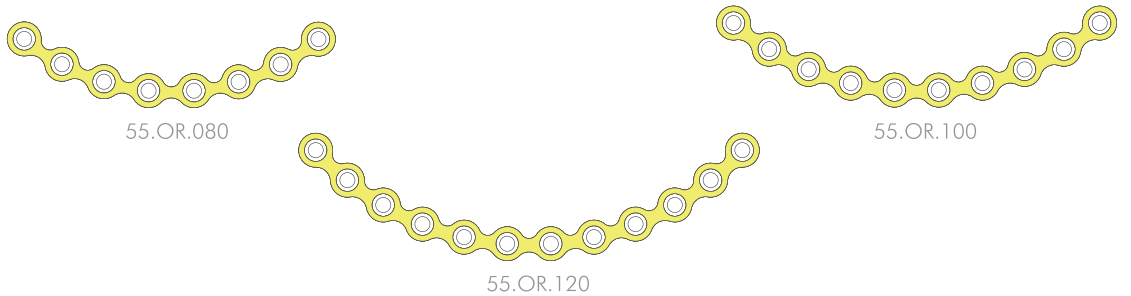
55.10.021 55.10.022 55.10.040 55.10.041 55.10.042 55.10.050 55.10.060

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 55.10.062 55.10.080 55.10.100 55.10.120 55.10.140 55.10.160

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



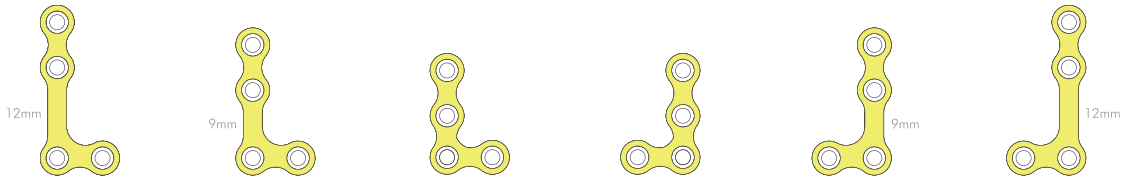
55.OR.080 55.OR.100 55.OR.120

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	

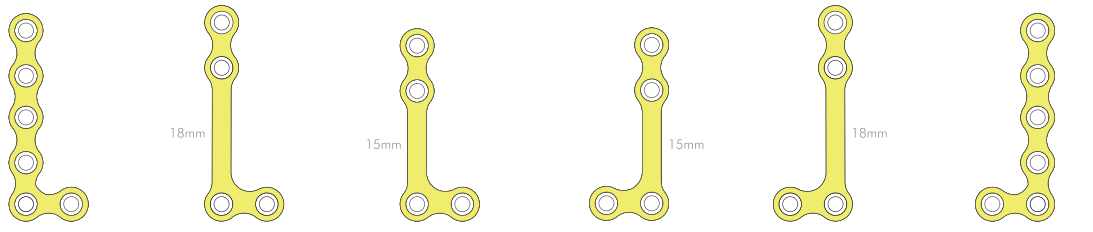
Mini Plates

Scale: 1/1
Thickness :1.0 mm



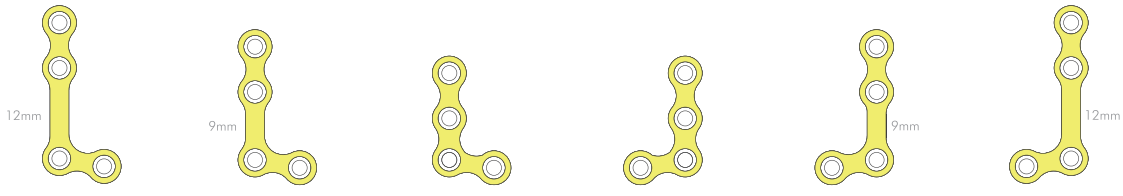
55.RA.042-R 55.RA.041-R 55.RA.040-R 55.RA.040-L 55.RA.041-L 55.RA.042-L

55.RA.040-R	8698742620178	Mini Titanium, -L- Shape, 4 Holes, Right Hand Plate
55.RA.041-R	8698742620192	Mini Titanium, -L- Shape, 4 Holes, 9.0mm Spaced, Right Hand Plate
55.RA.042-R	8698742620215	Mini Titanium, -L- Shape, 4 Holes, 12.0mm Spaced, Right Hand Plate
55.RA.040-L	8698742620161	Mini Titanium, -L- Shape, 4 Holes, Left Hand Plate
55.RA.041-L	8698742620185	Mini Titanium, -L- Shape, 4 Holes, 9.0mm Spaced, Left Hand Plate
55.RA.042-L	8698742620208	Mini Titanium, -L- Shape, 4 Holes, 12.0mm Spaced, Left Hand Plate



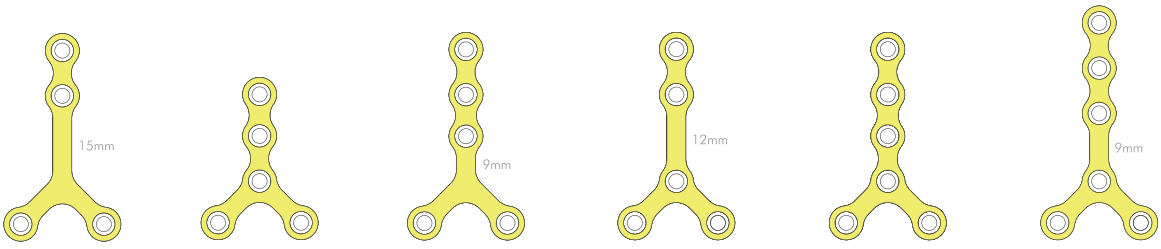
55.RA.061-R 55.RA.044-R 55.RA.043-R 55.RA.043-L 55.RA.044-L 55.RA.061-L

55.RA.043-R	8698742620239	Mini Titanium, -L- Shape, 4 Holes, 15.0mm Spaced, Right Hand Plate
55.RA.044-R	8698742620253	Mini Titanium, -L- Shape, 4 Holes, 18.0mm Spaced, Right Hand Plate
55.RA.061-R	8698742622196	Mini Titanium, -L- Shape, 6 Holes, Right Hand Plate
55.RA.043-L	8698742620222	Mini Titanium, -L- Shape, 4 Holes, 15.0mm Spaced, Left Hand Plate
55.RA.044-L	8698742620246	Mini Titanium, -L- Shape, 4 Holes, 18.0mm Spaced, Left Hand Plate
55.RA.061-L	8698742622189	Mini Titanium, -L- Shape, 6 Holes, Left Hand Plate



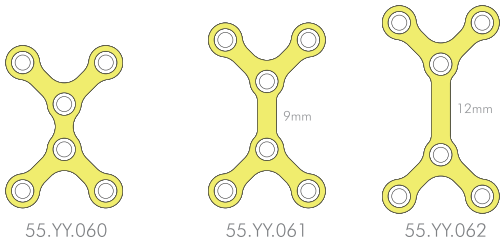
55.AN.042-R 55.AN.041-R 55.AN.040-R 55.AN.040-L 55.AN.041-L 55.AN.042-L

55.AN.040-R	8698742620277	Mini Titanium, -L- Shape, 4 Holes, 100 Degree, Right Hand Plate
55.AN.041-R	8698742620291	Mini Titanium, -L- Shape, 4 Holes, 9.0mm Spaced, 100 Degree, Right Hand Plate
55.AN.042-R	8698742620314	Mini Titanium, -L- Shape, 4 Holes, 12.0mm Spaced, 100 Degree, Right Hand Plate
55.AN.040-L	8698742620260	Mini Titanium, -L- Shape, 4 Holes, 100 Degree, Left Hand Plate
55.AN.041-L	8698742620284	Mini Titanium, -L- Shape, 4 Holes, 9.0mm Spaced, 100 Degree, Left Hand Plate
55.AN.042-L	8698742620307	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

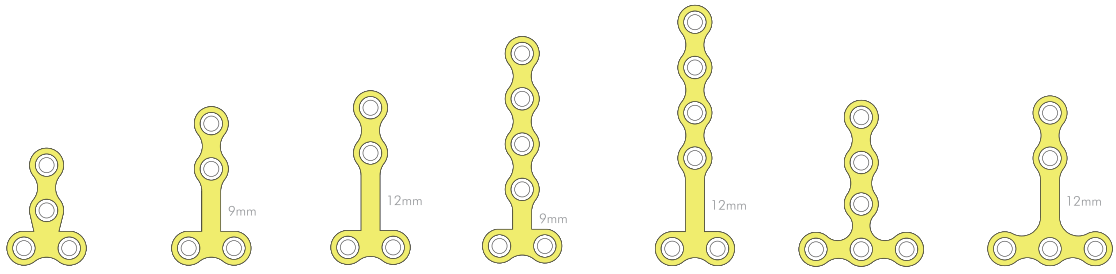
55.Y.041	8698742620321	Mini Titanium, -Y- Shape, 4 Holes, 15.0mm Spaced Plate
55.Y.050	8698742620338	Mini Titanium, -Y- Shape, 5 Holes Plate
55.Y.051	8698742620345	Mini Titanium, -Y- Shape, 5 Holes, 9.0mm Spaced Plate
55.Y.061	8698742620352	Mini Titanium, -Y- Shape, 5 Holes, 12.0mm Spaced Plate
55.Y.062	8698742622202	Mini Titanium, -Y- Shape, 6 Holes Plate
55.Y.063	8698742625111	Mini Titanium, -Y- Shape, 6 Holes, 9.0mm Spaced Plate
55.YY.060	8698742620369	Mini Titanium, Double -Y- Shape, 6 Holes Plate
55.YY.061	8698742620376	Mini Titanium, Double -Y- Shape, 6 Holes, 9.0mm Spaced Plate
55.YY.062	8698742620383	Mini Titanium, Double -Y- Shape, 6 Holes, 12.0mm Spaced Plate



55.YY.060 55.YY.061 55.YY.062

Mini Plates

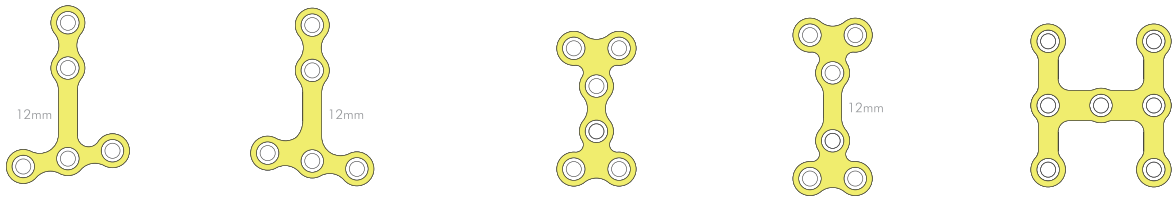
Scale: 1/1
Thickness :1.0 mm



55.TR.040 55.TR.041 55.TR.042 55.TR.061 55.TR.062 55.TR.060 55.TR.051

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

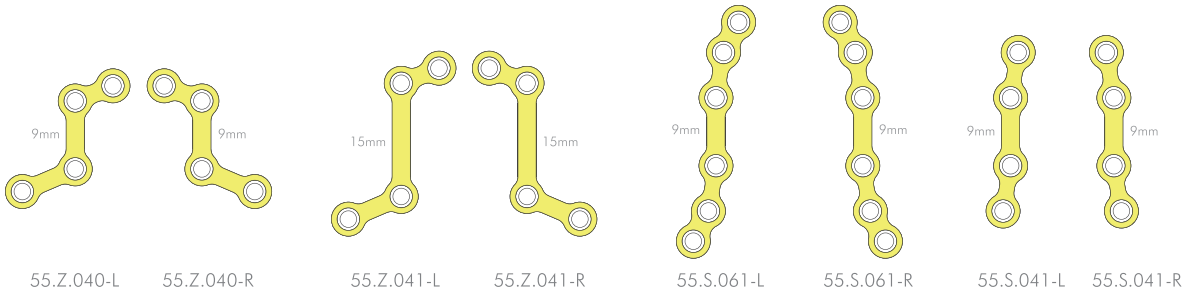
55.TR.060 8698742620437 Mini Titanium, -T- Shape, 6 Holes Plate
55.TR.061 8698742620406 Mini Titanium, -T- Shape, 6 Holes, 9.0mm Spaced Plate
55.TR.062 8698742620413 Mini Titanium, -T- Shape, 6 Holes, 12.0mm Spaced Plate



55.TA.051-L 55.TA.051-R 55.TT.060 55.TT.061 55.H.070

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

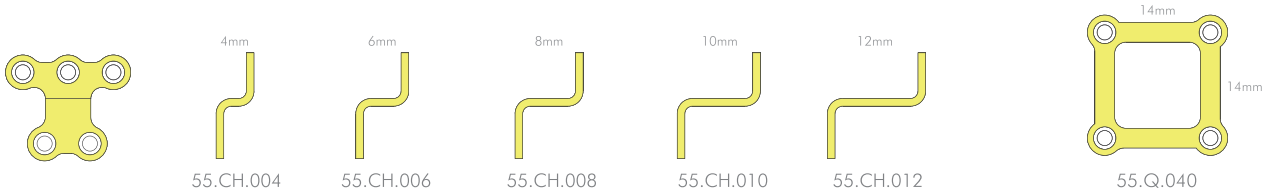
55.TT.061 8698742620499 Mini Titanium, Double -T- Shape, 6 Holes, 9.0mm Spaced Plate
55.H.070 8698742620505 Mini Titanium, -H- Shape, 7 Holes Plate



55.Z.040-L 55.Z.040-R 55.Z.041-L 55.Z.041-R 55.S.061-L 55.S.061-R 55.S.041-L 55.S.041-R

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

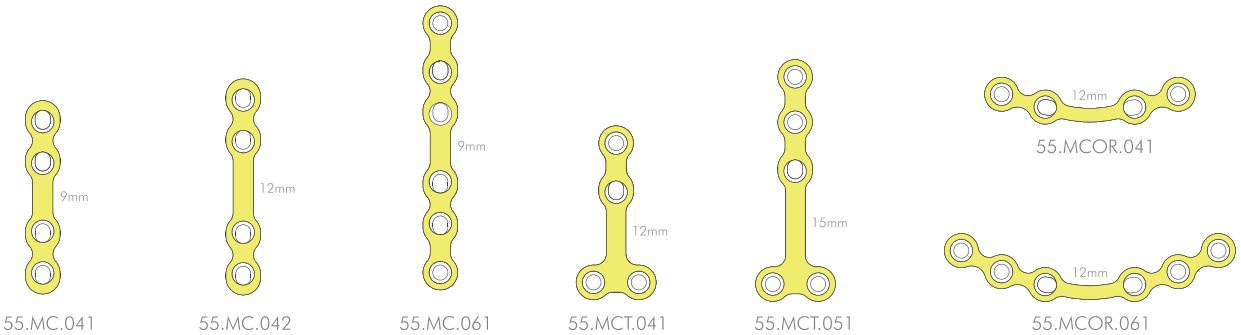
55.S.041-L 8698742620550 Mini Titanium, -S- Shape, 4 Holes, 9.0mm Spaced, Left Hand Plate
55.S.041-R 8698742620567 Mini Titanium, -S- Shape, 4 Holes, 9.0mm Spaced, Right Hand Plate
55.S.061-L 8698742620574 Mini Titanium, -S- Shape, 6 Holes, 9.0mm Spaced, Left Hand Plate
55.S.061-R 8698742620581 Mini Titanium, -S- Shape, 6 Holes, 9.0mm Spaced, Right Hand Plate



55.CH.004 55.CH.006 55.CH.008 55.CH.010 55.CH.012 55.Q.040

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 55.MC.042 55.MC.061 55.MCT.041 55.MCT.051 55.MCOR.041 55.MCOR.061

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 (Complate|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

Micro Plates

Scale: 1/1
Thickness :0.6 mm

56.Y.140

56.Y.141

56.Y.241

56.YY.060

56.YY.070

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

56.TR.140

56.TR.141

56.TR.241

56.TT.040

56.H.091

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

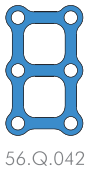
56.OR.060

56.OR.061

56.OR.070

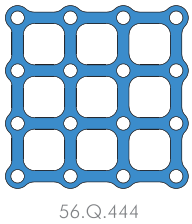
56.OR.060 8698742621090 Micro Titanium, Orbital, 6 Holes, 8.0mm Spaced Plate
56.OR.061 8698742621106 Micro Titanium, Orbital, 6 Holes, 12.0mm Spaced Plate
56.OR.070 8698742621113 Micro Titanium, Orbital, 7 Holes, 2x7.5mm Spaced Plate

56.Q.041

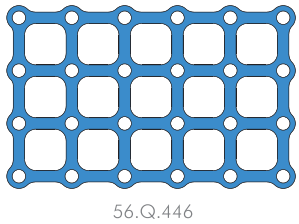


56.Q.042

56.Q.043



56.Q.444

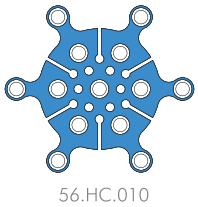


56.Q.446

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

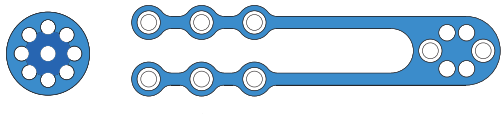
56.Q.446 8698742621168 Micro Titanium, -Q- Square, 24 Holes, 7.0mm Spaced (4x6) Plate
56.Q.444 8698742621151 Micro Titanium, -Q- Square, 16 Holes, 7.0mm Spaced (4x4) Plate

56.HC.007

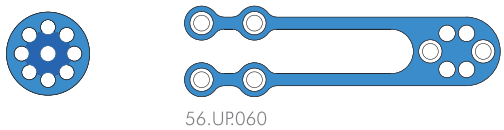


56.HC.010

56.HC.007 8698742623056 Micro Titanium, Bure Hole Cover, 7mm Plate
56.HC.010 8698742624909 Micro Titanium, Bure 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



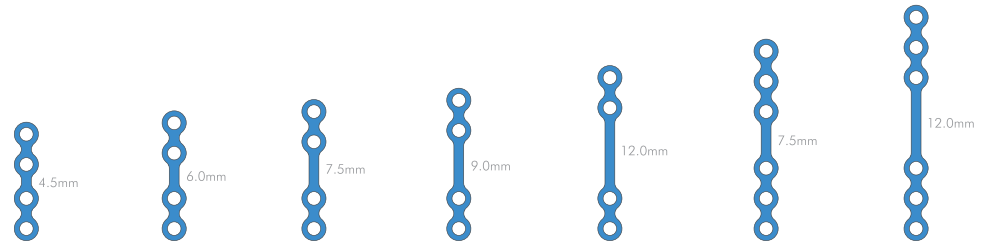
56.UP.080



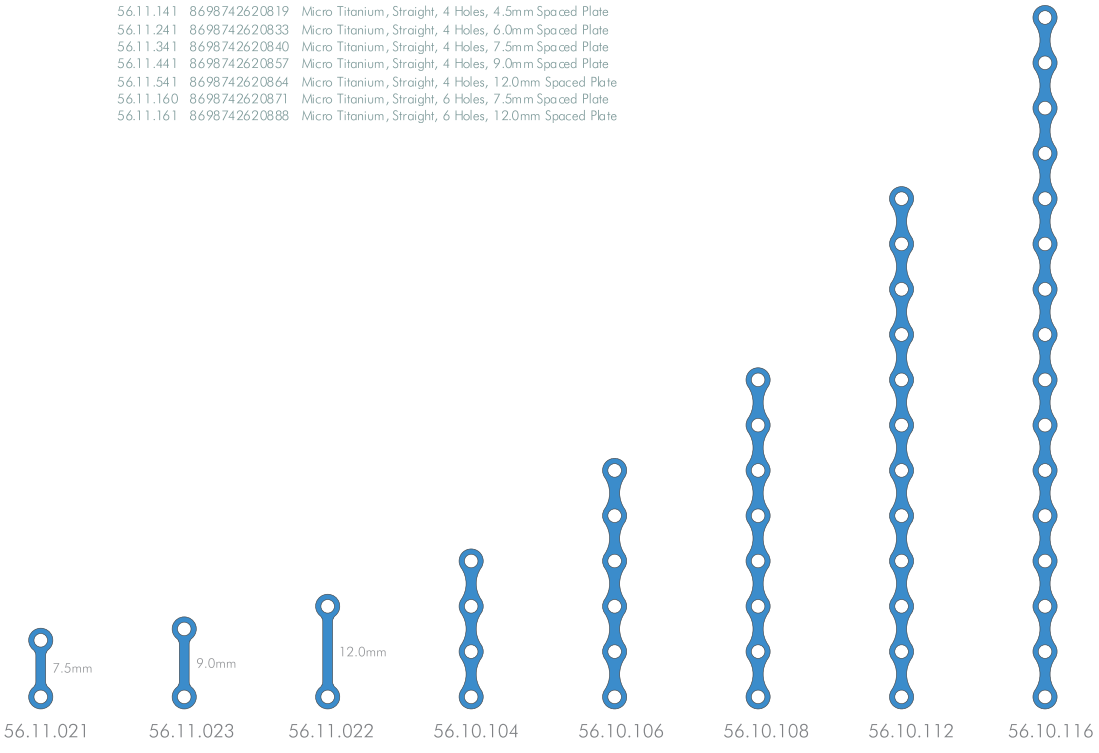
56.UP.060

Micro Plates

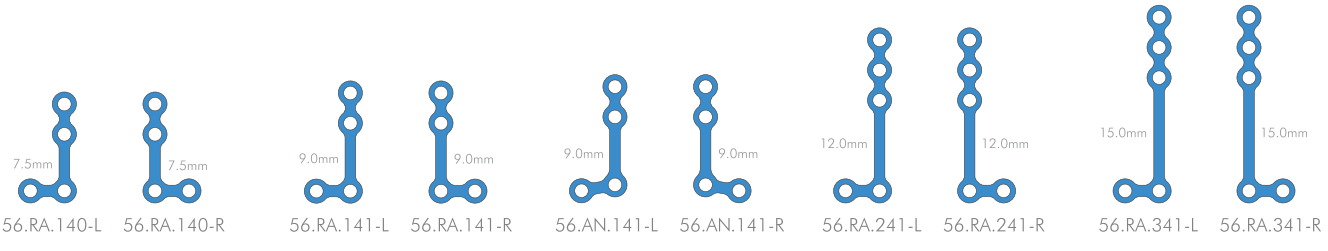
Scale: 1/1
Thickness :0.6 mm



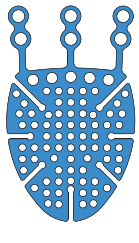
56.11.141	8698742620819	Micro Titanium, Straight, 4 Holes, 4.5mm Spaced Plate
56.11.241	8698742620833	Micro Titanium, Straight, 4 Holes, 6.0mm Spaced Plate
56.11.341	8698742620840	Micro Titanium, Straight, 4 Holes, 7.5mm Spaced Plate
56.11.441	8698742620857	Micro Titanium, Straight, 4 Holes, 9.0mm Spaced 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



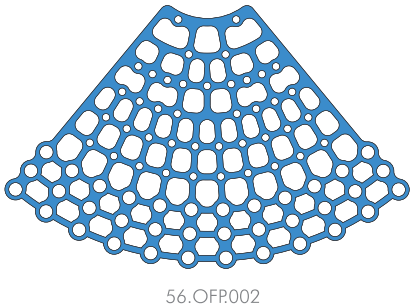
56.11.021	8698742620758	Micro Titanium, Straight, 2 Holes, 7.5mm Spaced Plate
56.11.022	8698742620765	Micro Titanium, Straight, 2 Holes, 12.0mm Spaced Plate
56.11.023	8698742622233	Micro Titanium, Straight, 2 Holes, 9.0mm Spaced Plate
56.10.104	8698742620772	Micro Titanium, Straight, 4 Holes Plate
56.10.106	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



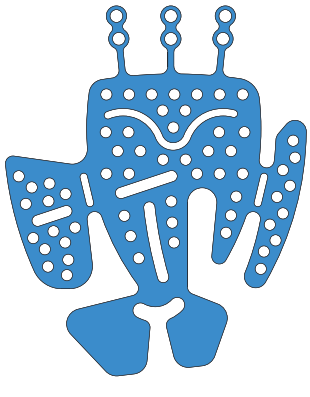
56.RA.140-L	8698742620918	Micro Titanium, -L- Shape, 4 Holes, 7.5mm Spaced, Left Hand Plate
56.RA.140-R	8698742620925	Micro Titanium, -L- Shape, 4 Holes, 7.5mm Spaced, Right Hand Plate
56.RA.141-L	8698742620932	Micro Titanium, -L- Shape, 4 Holes, 9.0mm Spaced, Left Hand Plate
56.RA.141-R	8698742620949	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.OFP.001



56.OFP.002



56.OFP.003

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 (Complate 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)

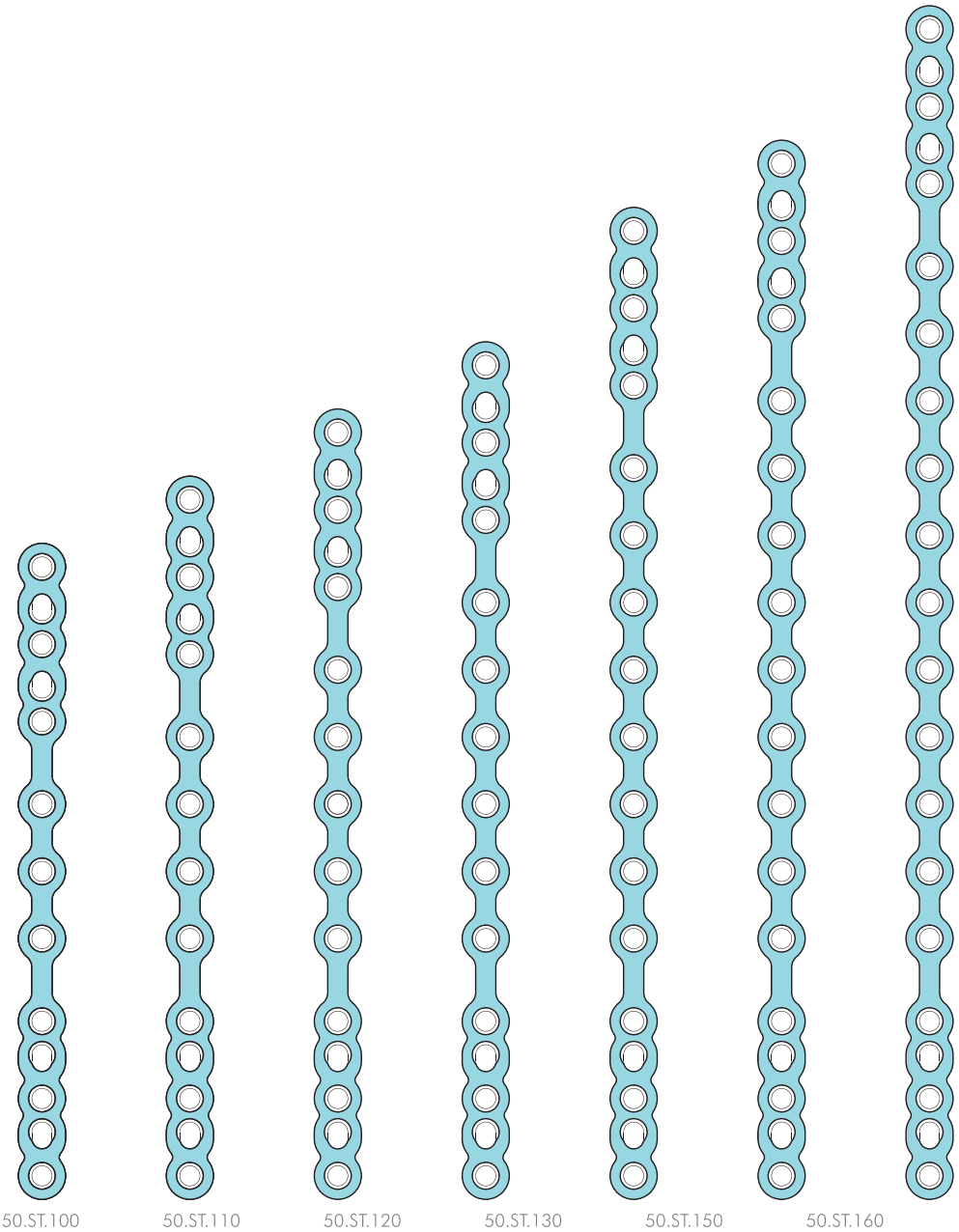
E1.135
Depth Gauge

E1.147
Plate Holder

K2.521
Silicone Mat

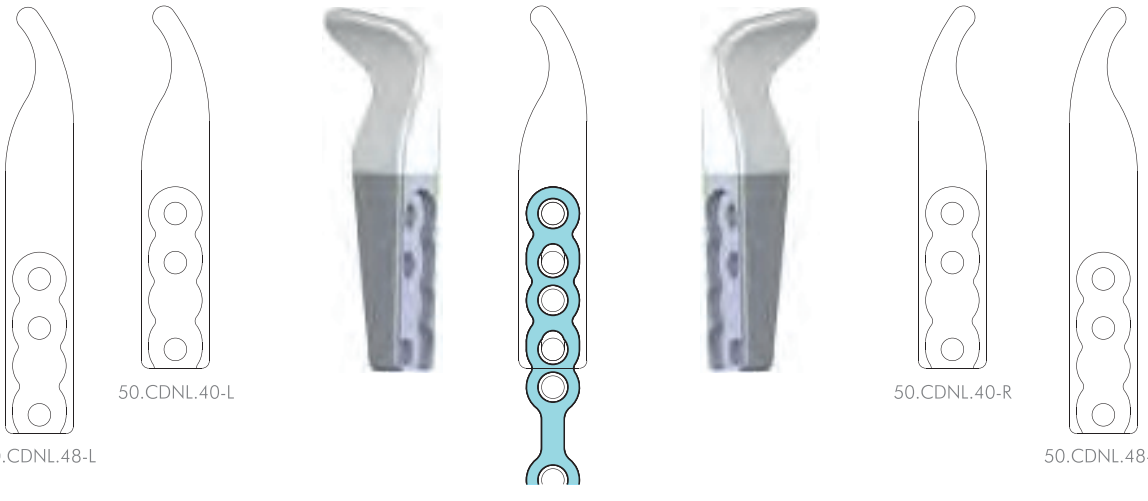
K2.491
Wire Basket

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

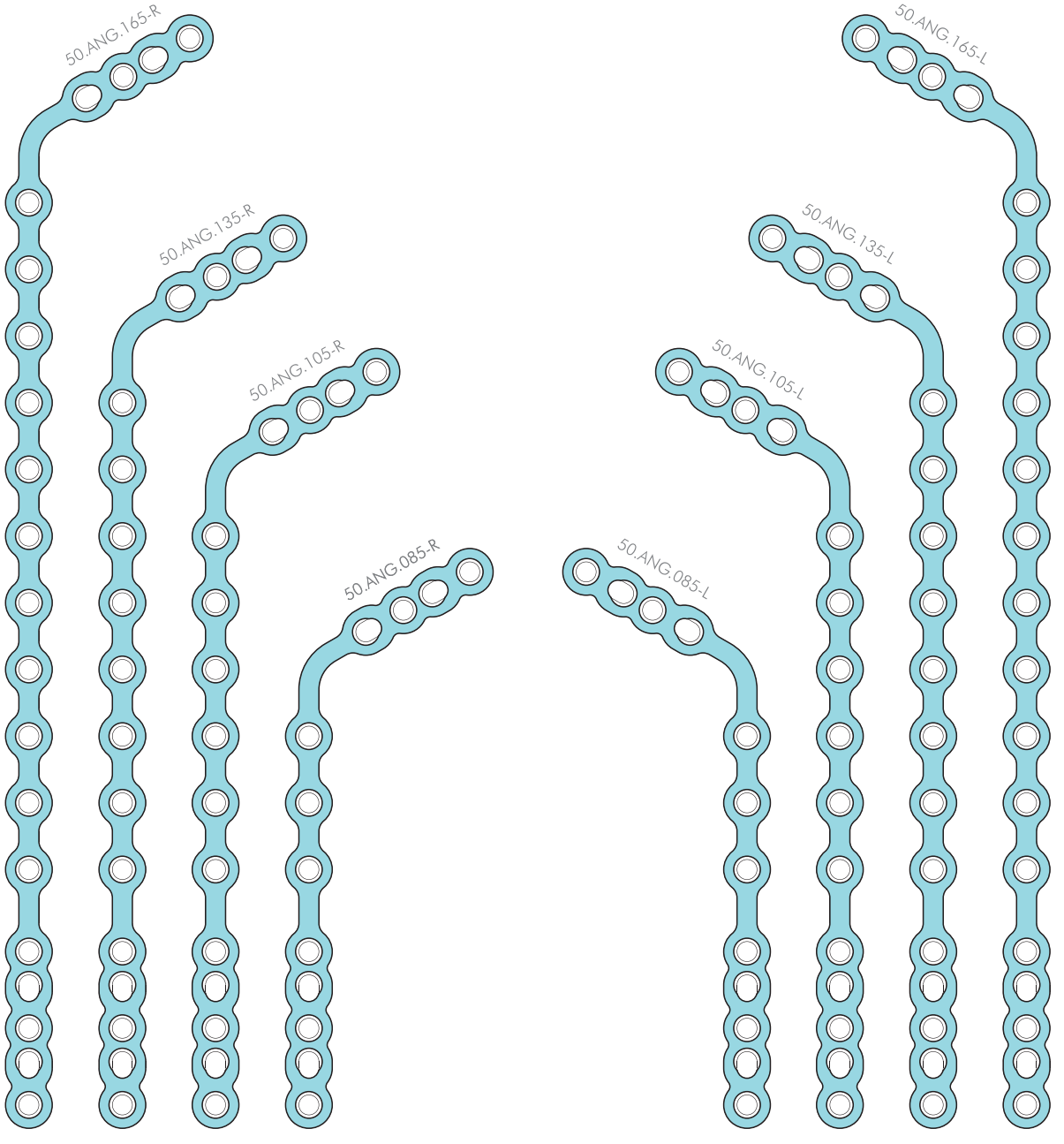
50.CDNL.48-L

50.CDNL.48-R

50.CDNL.40-L	8698742625210	Condylar Implant, Short, 40mm, Left Hand
50.CDNL.48-L	8698742625234	Condylar Implant, Long, 48mm, Left Hand
50.CDNL.40-R	8698742625227	Condylar Implant, Short, 40mm, Right Hand
50.CDNL.48-R	8698742625241	Condylar Implant, Long, 48mm, Right Hand

Reconstruction Plates

Scale: 1/1
Thickness :2.0 mm

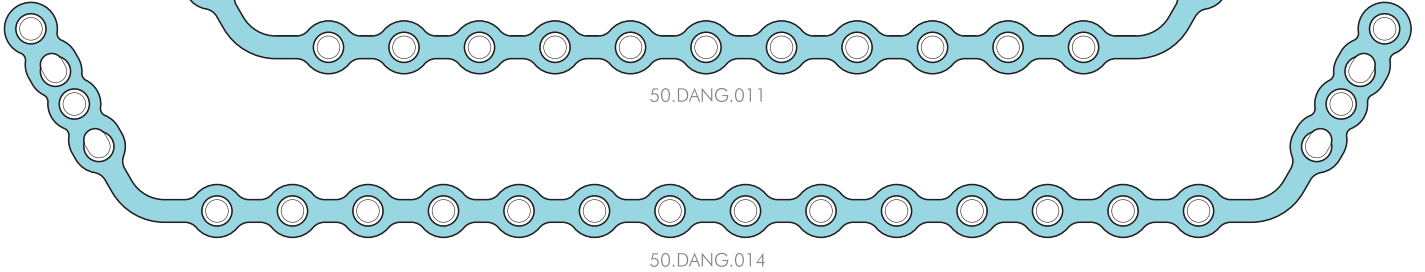


50.ANG.105-R	8698742621267	Reconstruction Mandibular Titanium, 15 Holes, Angled, 105mm, Right Hand Plate
50.ANG.135-R	8698742621281	Reconstruction Mandibular Titanium, 17 Holes, Angled, 135mm, Right Hand Plate
50.ANG.165-R	8698742621304	Reconstruction Mandibular Titanium, 20 Holes, Angled, 165mm, Right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

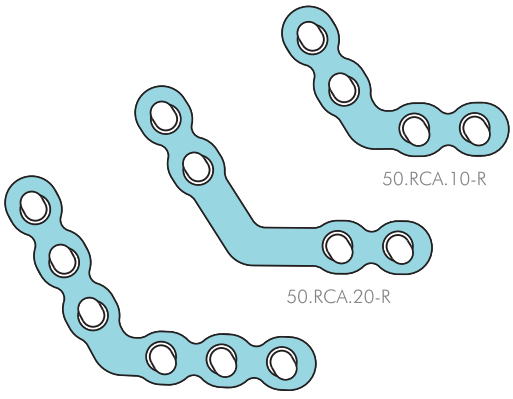
50.DANG.011	8698742621328	Reconstruction Titanium, 19 Holes, Double Angular Plate
50.DANG.014	8698742621335	Reconstruction Titanium, 22 Holes, Double Angular Plate

50.DANG.011



50.DANG.014

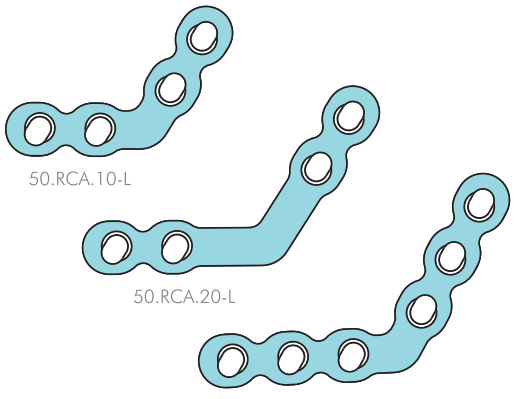
Scale: 1/1
Thickness :1.7 mm



50.RCA.10-R

50.RCA.20-R

50.RCA.30-R



50.RCA.10-L

50.RCA.20-L

50.RCA.30-L

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

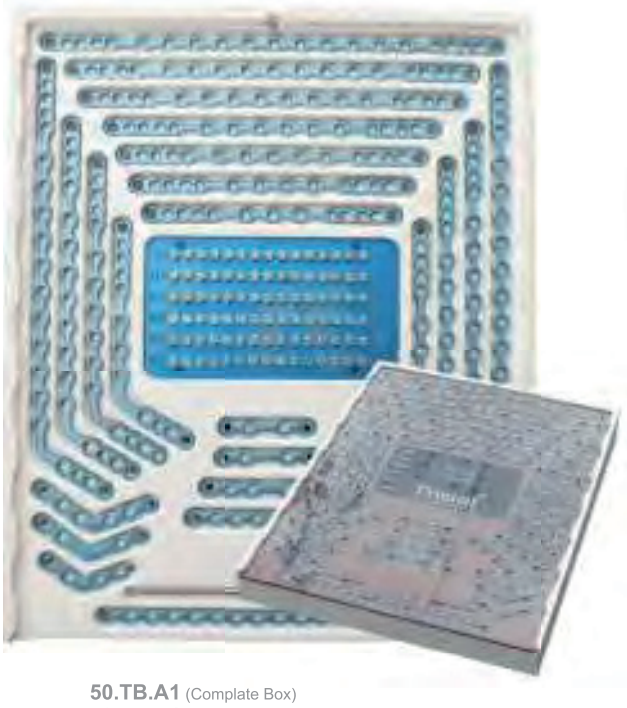
50.RCS.40

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)

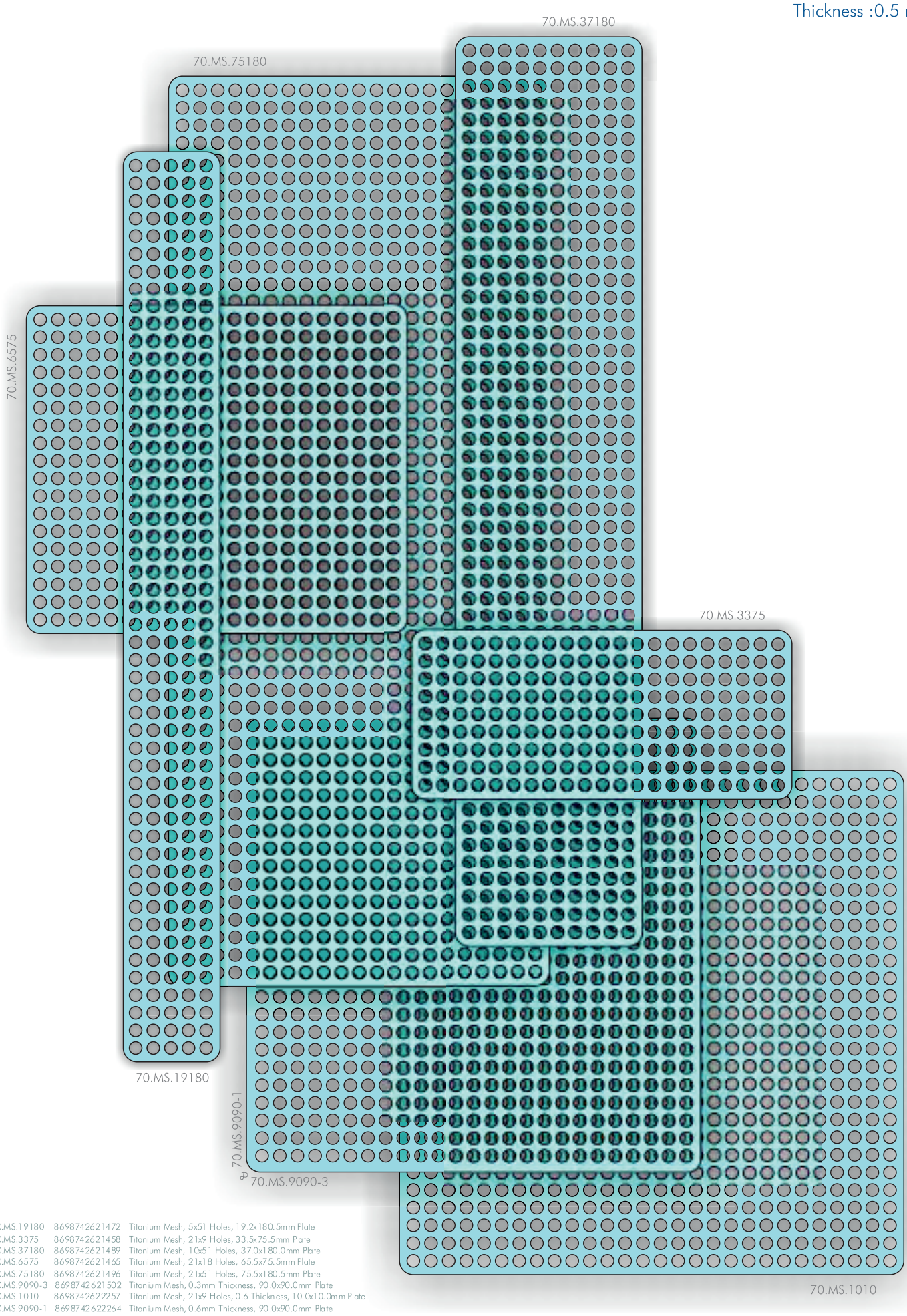
E1.147
Plate Holder

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

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

	COMMERCIALLY PURE TITANIUM					TITANIUM ALLOY		
GRADE ALLOY	GRADE 1	GRADE 2	GRADE 3	GRADE 4			Ti-6Al-4V ELI	Ti-6Al-4V (Standard)
Condition	Annealed	Annealed	Annealed	Annealed	Cold Drawn	Annealed	Annealed	Cold Drawn
0.2% P.S. (Mpa)	170	230	300	440	520	780	828	
U.T.S. (Mpa)	240	345	450	550	680	860	895	>1150
ELONGN. (%)	24	20	18	15	10	8	10	5
R.A. (%)	30	30	30	25	18	25	25	
BEND TEST DIA (SHEET/STRIP)	3t	4t	4t	5t		10t	10t	
TYPICAL HARDNESS (HB)	120	180	220	260		320	330	
ELASTIC MODULUS (Gpa)	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 4B			SPECIAL
	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 4B			
	ASTM F67 Gr 1	ASTM F67 Gr 2	ASTM F67 Gr 3	ASTM F67 Gr 14				
	*ASTM F1341 Gr1	*ASTM F1341 Gr2	*ASTM F1341 Gr 3	*ASTM F1341 Gr 4	*ASTM F1341 (SPECIAL)			
PROPERTY SUMMARY	INCREASING STRENGTH / DECREASING DUCTILITY							

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

*** Bu katalogda 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

www.4umedical.com.tr