

Delta

Resorbable implant system



System overview

Delta is a resorbable plating system designed for the use in the fixation of bones of the craniofacial and midfacial skeleton affected by trauma, or for reconstruction.

Delta has a copolymer composition of poly L-lactide (PLLA), polyglycolide (PGA) and poly D-lactide (PDLA) in a ratio of 85:10:5. It has an attractive combination¹ of strength, balanced resorption and contourability.

Strength retention:

At 2 and 6 months, Delta maintains 78% and 50% of its initial strength respectively,² which can help facilitate structural fixation and reinforcement during osteosynthesis.

Resorption rate:

Delta has a gradual resorption time, depending on the patient anatomy and metabolism, of approximately 8-13 months.^{3,4}

Contourability:

With the addition of 5% poly D-lactide, Delta plates and mesh are more easily shaped to fit your patients' anatomy.⁴



1.7mm Partial countersink plates and mesh

Partial countersinks may allow for a tighter, more stable interface between the plate and screw, minimizing micro movement between the bone-screw-plate construct. Unused countersinks may add to the rigidity and strength of the construct.

Partial countersink plates



70-92055 - 1x21, 0.50mm
70-92056 - 1x21, 0.75mm

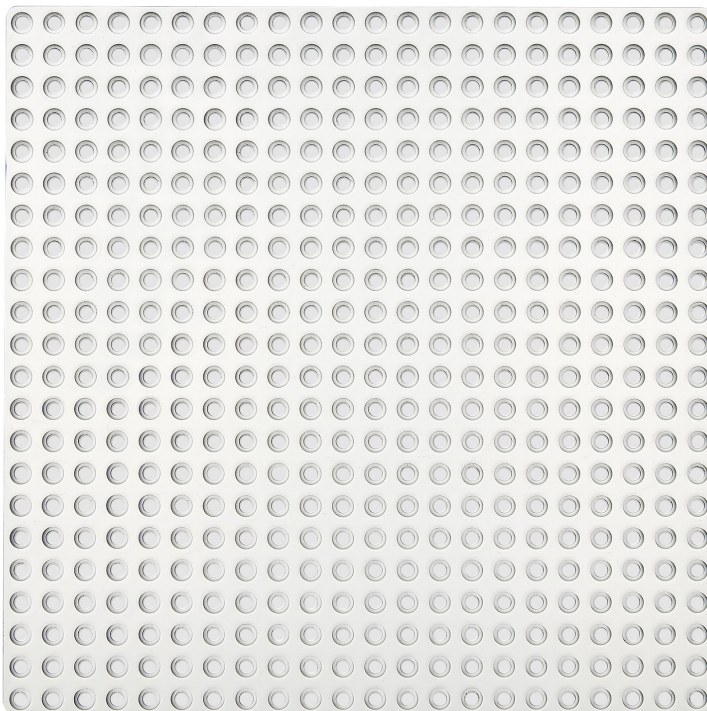


70-92046 - 2x21, 0.50mm
70-92044 - 2x21, 0.75mm



70-92047 - 3x21, 0.50mm
70-92045 - 3x21, 0.75mm

Mesh



70-92052 - 122x122x0.5mm
70-92053 - 122x122x0.75mm

1.7mm Plates

Hybrid partial countersink plates



Staggered hole plates



70-92058 - 2x21, 0.50mm
70-92060 - 2x21, 0.75mm

70-92059 - 3x21, 0.50mm
70-92061 - 3x21, 0.75mm

70-92050 - 3 row plate, 0.5mm **70-92049** - 2 row plate, 0.5mm

Strut plates



70-92003 - 1x21, 0.50mm
70-92006 - 1x21, 0.75mm

70-92004 - 2x21, 0.50mm
70-92007 - 2x21, 0.75mm

70-92005 - 3x21, 0.50mm
70-92008 - 3x21, 0.75mm

1.7mm Plates

Strut plates

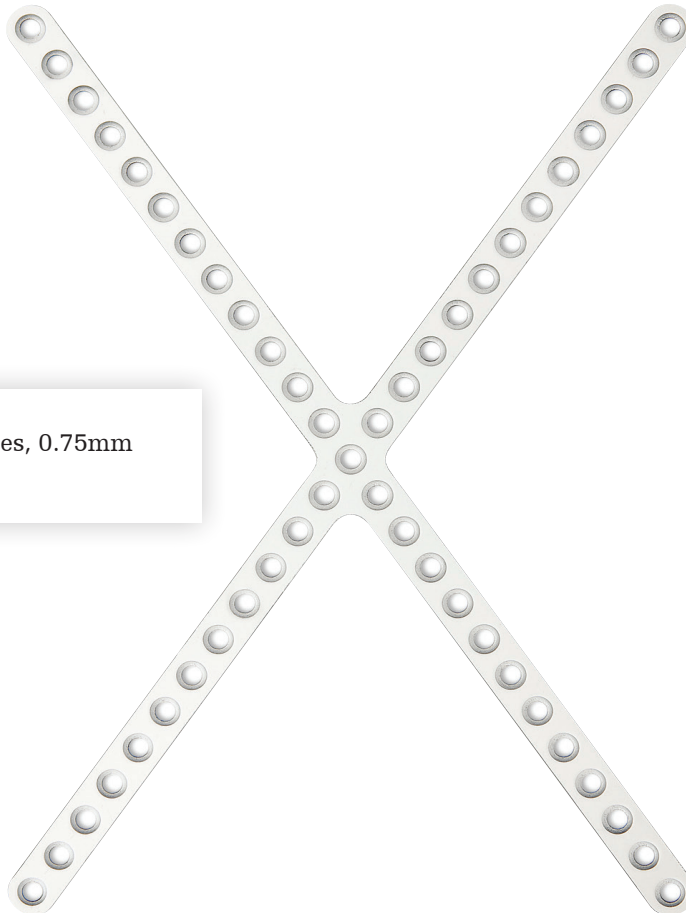


70-92001 - 144x12x0.75mm



70-05365 - 8 holes, 150x15x0.75mm

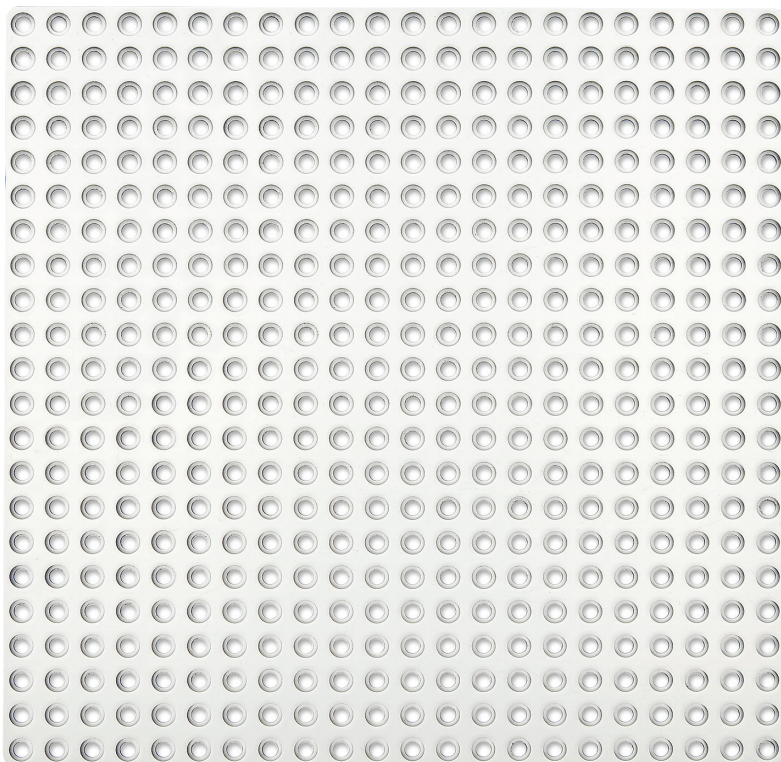
X plate



70-05356 - 49 holes, 0.75mm

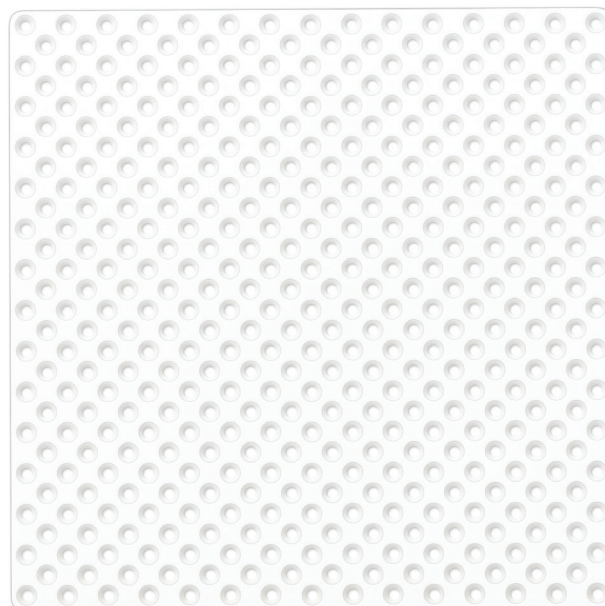
1.7mm Mesh

Mesh



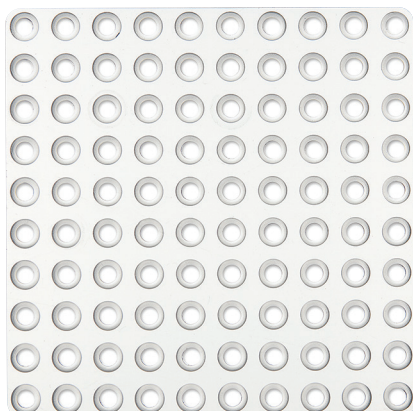
70-05150 - 122x122x0.5mm
70-05350 - 122x122x0.75mm

Staggered hole mesh



70-92048 - 116x116x0.5mm

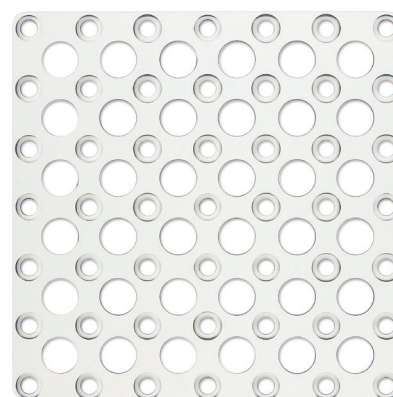
Mesh



70-05145 - 55x55x0.5mm
70-05345 - 55x55x0.75mm



70-05355 - 55x55x1.0mm
70-92012 - 122x122x0.75mm



70-92016 - 55x55x0.5mm
70-92017 - 122x122x0.5mm

1.7mm Plates

Y plates



70-05156 - 6 holes, 1.0mm

Triangle plate



70-92013 - 25x25x0.5mm
70-92014 - 30x30x0.5mm
70-92015 - 36x36x0.5mm

Curved plate



70-92018 - 8 hole, 0.5mm
70-05188 - 10 hole, 1.0mm

Double Y plates



70-05166 -
6 holes, 1.0mm

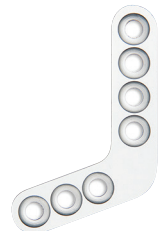


70-05168 -
8 holes, 1.0mm

L plates



70-05140 -
7 holes, 110° right, 1.0mm



70-05141 -
7 holes, 110° left, 1.0mm

1.7mm Neuro plates

Burr hole covers



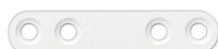
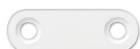
70-05348 - 24mm, 0.75mm

70-92022 - 14mm, 0.5mm

70-92021 - 10mm, 0.5mm

70-92068 - 7mm, 0.5mm

Straight plates



70-92024 - 2 holes, 0.5mm

70-92023 - 4 holes, 0.5mm

Double Y plates



70-92025 - 8 holes, 0.5mm

70-92026 - 6 holes, 0.5mm

2.2mm Plates

Partial countersink plates



70-92057 -
1x21x1.4mm



70-92042 -
2x21x1.4mm



70-92043 -
3x21x1.4mm

Straight plates



70-06108 -
8 holes, 1.4mm



70-06121 -
21 holes, 1.4mm

Strut plates



70-92009 -
1x21x1.4mm



70-92010 -
2x21x1.4mm



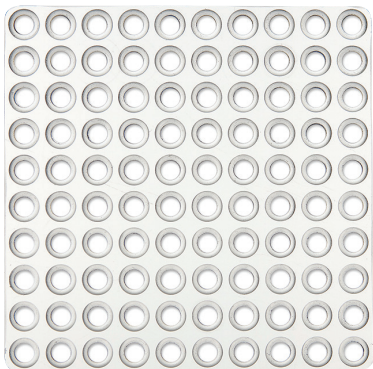
70-92011 -
3x21x1.4mm



70-06365 -
8 holes, 1.4mm

2.2mm Mesh and plates

Mesh



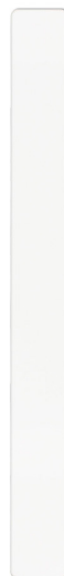
70-06345 - 55x55x1.0mm
70-06350 - 55x55x1.4mm

Curved plate



70-06188 - 8 holes,
1.4mm

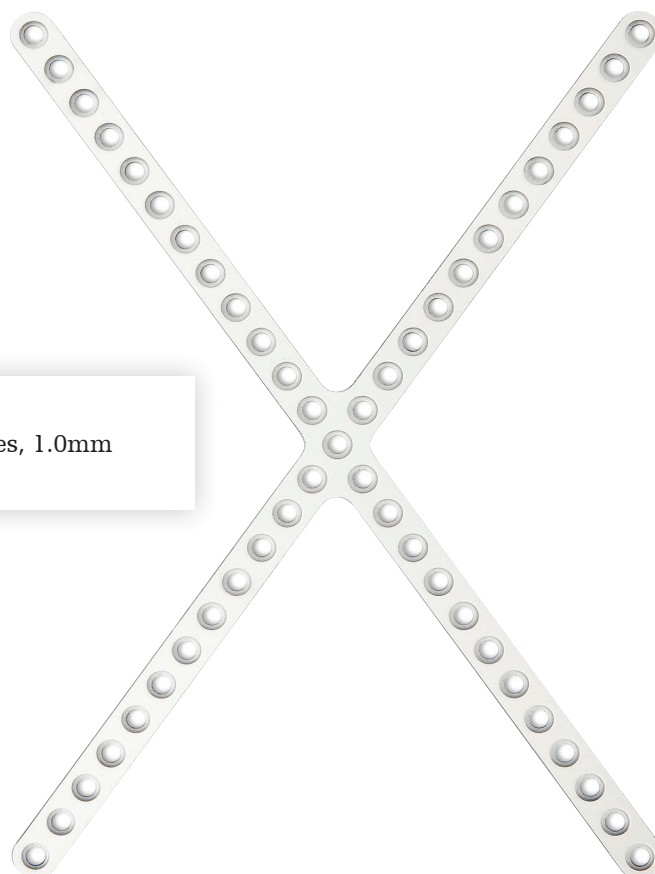
Panel



70-92019 - 116x11x1.4mm
70-92020 - 116x17x1.4mm

70-06355 - 55x55x1.4mm

X plate



70-06356 - 49 holes, 1.0mm

Instruments and blades

Screwdriver blades

Screwdriver blades have flanges at the sides for grasping screws.

- Positive engagement feedback
- Designed for increased retention
- Has greater blade/screw head contact and shorter shaft to minimize screw insertion instability



Self-drilling taps

- Allow for drilling and tapping in a single step
- Comes in various fixed lengths
- SD taps have dental and hex coupling options



VariSpeed

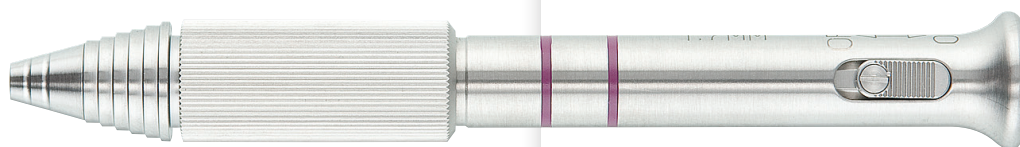
- Maximum speed of 400rpm
- Maximum torque of 1.0Nm
- Sensors allow for regulation of both speed and torque
- Robust design offering enhanced grip and hand positioning



Instruments and screws

Torque-limiting drivers

- Roller bearing cam is designed to produce smooth, accurate and consistent performance
- At maximum torque, the cam mechanism is designed to protect against over-tightening and screw head shearing



Screws

- Screw thread is designed to provide purchase and functional stability
- Excellent fit between screw head and blade allows for easy pickup, insertion and removal
- Head sits flush within the plate to ensure a true low profile



Containers

Modules

- Minimized sterile field presence
- Easy access to Delta instruments



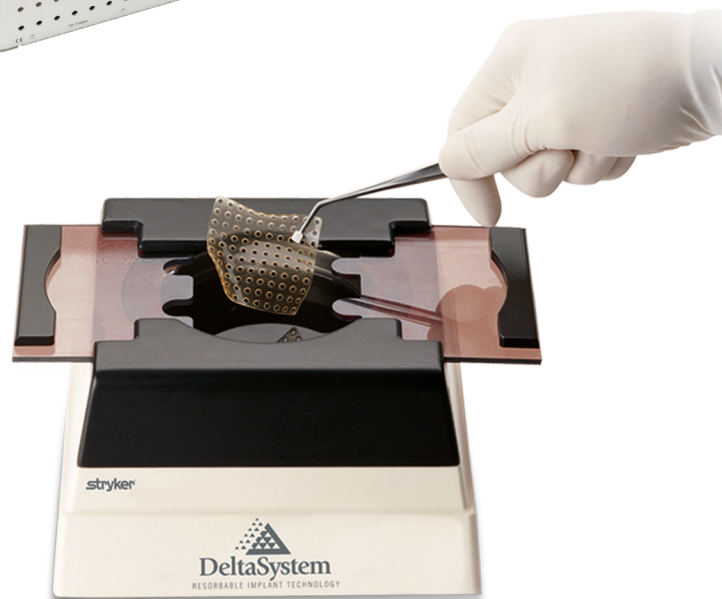
Sterilization **container**

- Conveniently stores the modules, instrument trays and the water bath
- Contains all components required for the sterile field



Water **bath**

- Stores conveniently in the sterilization container
- No sterile drape required
- Lightweight and fully autoclavable
- Heats water to 155°F



Delta system ordering information

1.7mm Plates

70-05114	Straight plate, 14 holes, 1.0mm
70-05140	L plate, 7 holes, 110° right, 1.0mm
70-05141	L plate, 7 holes, 110° left, 1.0mm
70-05156	Y plate, 6 holes, 1.0mm
70-05166	Double Y plate, 6 holes, 1.0mm
70-05168	Double Y plate, 8 holes, 1.0mm
70-05188	Curved plate, 8 holes, 1.0mm
70-92018	Curved plate, 10 holes, 0.5mm
70-05310	Box plate, 2x2 holes, 1.0mm
70-05330	Ladder plate, 2x5 holes, 1.0mm
70-05145	Mesh, 55x55x0.5mm
70-05345	Mesh, 55x55x0.75mm
70-05150	Mesh, 122x122x0.5mm
70-05350	Mesh, 122x122x0.75mm
70-92016	Flexible mesh, 55x55x0.5mm
70-92017	Flexible mesh, 122x122x0.5mm
70-92048	Staggered hole mesh, 116x116x0.5mm
70-92049	Staggered hole 2 row plate, 0.5mm
70-92050	Staggered hole 3 row plate, 0.5mm
70-05355	Panel, 55x55x1.0mm
70-92012	Panel, 122x122x0.75mm
70-05356	X plate, 49 holes, 0.75mm
70-92001	Curved strut plate, 144x12mm 0.75mm
70-05365	Strut plate, 150x15x0.75mm, 8 holes
70-92003	Strut plate, 1x21 holes, 0.5mm
70-92004	Strut plate, 2x21 holes, 0.5mm
70-92005	Strut plate, 3x21 holes, 0.5mm
70-92006	Strut plate, 1x21 holes, 0.75mm
70-92007	Strut plate, 2x21 holes, 0.75mm
70-92008	Strut plate, 3x21 holes, 0.75mm
70-92013	Triangle plate, 25x25mm, 0.5mm
70-92014	Triangle plate, 30x30mm, 0.5mm
70-92015	Triangle plate, 36x36mm, 0.5mm

1.7mm Neuro plates

70-92068	Burr hole cover 7mm, 0.5mm
70-92021	Burr hole cover 10mm, 0.5mm
70-92022	Burr hole cover 14mm, 0.5mm
70-92023	4 hole straight plate, 0.5mm
70-92024	2 hole straight plate, 0.5mm
70-92025	Double Y-plate 8 hole, 0.5mm
70-92026	Double Y-plate 6 hole, 0.5mm
70-05348	Burr hole cover 24mm, 0.75mm

1.7mm Partial countersink plates

70-92046	Partial countersink plate, 2x21, 0.50mm
70-92044	Partial countersink plate, 2x21, 0.75mm
70-92047	Partial countersink plate, 3x21, 0.50mm
70-92045	Partial countersink plate, 3x21, 0.75mm
70-92055	Partial countersink plate, 1x21, 0.50mm
70-92056	Partial countersink plate, 1x21, 0.75mm

1.7mm Partial countersink mesh

70-92052	Partial countersink mesh, 22x22mm, 0.5mm
70-92053	Partial countersink mesh, 22x22mm, 0.75mm

1.7mm Screws

70-17203	1.7x3mm, Package 2
70-17204	1.7x4mm, Package 2
70-17205	1.7x5mm, Package 2
70-17206	1.7x6mm, Package 2
70-17403	1.7x3mm, Package 4
70-17404	1.7x4mm, Package 4
70-17405	1.7x5mm, Package 4
70-17406	1.7x6mm, Package 4
70-17104	1.7x4mm, Package 10
70-17105	1.7x5mm, Package 10

2.2mm Plates

70-06108	Straight plate, 8 holes, 1.4mm
70-06121	Straight plate, 21 holes, 1.4mm
70-06188	Curved plate, 8 holes, 1.4mm
70-06345	Mesh, 55x55x1.0mm
70-06350	Mesh, 55x55x1.4mm
70-06355	Panel, 55x55x1.4mm
70-92019	Panel, 116x11x1.4mm
70-92020	Panel, 116x17x1.4mm
70-06356	X plate, 49 holes, 1.0mm
70-06365	Strut plate, 150x15x1.4mm, 8 holes
70-92009	Strut plate, 1x21 holes, 1.4mm
70-92010	Strut plate, 2x21 holes, 1.4mm
70-92011	Strut plate, 3x21 holes, 1.4mm

2.2mm Partial countersink plates

70-92042	Partial countersink plate, 2x21, 1.4mm
70-92043	Partial countersink plate, 3x21, 1.4mm
70-92057	Partial countersink plate, 1x21, 1.4mm

2.2mm Screws

70-22004	2.2x4mm, Package 1
70-22006	2.2x6mm, Package 1
70-22204	2.2x4mm, Package 2
70-22206	2.2x6mm, Package 2
70-22208	2.2x8mm, Package 2
70-22210	2.2x10mm, Package 2
70-22404	2.2x4mm, Package 4
70-22406	2.2x6mm, Package 4
70-22408	2.2x8mm, Package 4
70-22104	2.2x4mm, Package 10
70-22106	2.2x6mm, Package 10

2.6mm Emergency screws

70-26006	2.6x6mm, Package 1
70-26008	2.6x8mm, Package 1
70-26010	2.6x10mm, Package 1
70-92069	2.6x4mm, Package 2
70-26206	2.6x6mm, Package 2
70-26208	2.6x8mm, Package 2
70-26210	2.6x10mm, Package 2

Twist drills

70-71304	1.3mm, 3 & 4mm Screws, Stryker end
70-71306	1.3mm, 5 & 6mm Screws, Stryker end
70-71804	1.8mm, 3 & 4mm Screws, Stryker end
70-71806	1.8mm, 5 & 6mm Screws, Stryker end
70-71812	1.8mm, 12mm Length, Stryker end
70-72204	2.2mm, 4mm Screws, Stryker end
70-72206	2.2mm, 6mm Screws, Stryker end
70-72212	2.2mm, 12mm Length, Stryker end

Instruments

70-71770	1.7mm Screwdriver blade
70-92028	1.7mm Screwdriver blade, 80mm
70-92035	1.7mm Screwdriver blade, 125mm
70-76271	1.7mm Screwdriver handle
70-71784	Self-drilling tap 1.7mm, 3 & 4mm, dent
70-71786	Self-drilling tap 1.7mm, 5 & 6mm, dent
70-71794	Self-drilling tap 1.7mm, 3 & 4mm, hex
70-71796	Self-drilling tap 1.7mm, 5 & 6mm, hex
70-92030	Self-drilling tap 1.7mm, 3 & 4mm, hex, 95mm
70-92031	Self-drilling tap 1.7mm, 5 & 6mm, hex, 95mm
70-92037	Self-drilling tap 1.7mm, 3 & 4mm, hex, 130mm
70-92038	Self-drilling tap 1.7mm, 5 & 6mm, hex, 130mm
70-71780	1.7mm Bone tap
70-72270	2.2mm Screwdriver blade
70-92029	2.2mm Screwdriver blade, 80mm
70-92036	2.2mm Screwdriver blade, 125mm
70-76273	2.2mm Screwdriver handle
70-72284	Self-drilling tap 2.2mm, 4mm, dent
70-72286	Self-drilling tap 2.2mm, 6mm, dent
70-72288	Self-drilling tap 2.2mm, 8 & 10mm, dent
70-72294	Self-drilling tap 2.2mm, 4mm, hex
70-72296	Self-drilling tap 2.2mm, 6mm, hex
70-72298	Self-drilling tap 2.2mm, 8 & 10mm, hex
70-92032	Self-drilling tap 2.2mm, 3 & 4mm, hex, 95mm
70-92033	Self-drilling tap 2.2mm, 5 & 6mm, hex, 95mm
70-92034	Self-drilling tap 2.2mm, 8 & 10mm, hex, 95mm
70-92039	Self-drilling tap 2.2mm, 3 & 4mm, hex, 130mm
70-92040	Self-drilling tap 2.2mm, 5 & 6mm, hex, 130mm
70-92041	Self-drilling tap 2.2mm, 8 & 10mm, hex, 130mm
70-72280	2.2mm Bone tap
70-72670	2.2/2.6mm Screwdriver blade
70-76274	2.6mm Screwdriver handle
70-72680	2.6mm Bone tap
70-71817	Plate forceps
70-73736	Plate/Mesh cutter
70-76270	Tap handle
62-50200	VariSpeed battery powered screwdriver
62-50201	VariSpeed battery pack

Countersinks

70-71324	1.3mm, 3 & 4mm Screws, Stryker end
70-71326	1.3mm, 5 & 6mm Screws, Stryker end
70-71822	1.8mm Countersink, Stryker end

Containers and instrument modules

70-70002	Delta System sterilization container
70-71702	1.7mm Instruments module
70-72202	2.2mm Instruments module
29-13022	Instrument tray
29-53000	CMF Inventory management cart
29-15200	VariSpeed sterilization tray

Bath system

70-76001	Water bath
70-76002	Console
70-76003	Bath sterilization cord

Craniomaxillofacial

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1. Laughlin, R.M., Block, M.S., Wilk, R., Malloy, R.B., Kent, J.N.: Resorbable plates for the Fixation of Mandibular Fractures: A Prospective Study, 2007
2. Posnick, J.C., and Ricalde, P.: Degradation Rate of Delta (Resorbable) Internal Fixation: Report of 2 Cases, 2004.
3. Ignatius, A.A. and Claes, L.E.: In Vitro Biocompatibility of Bioresorbable Polymers: Poly (L, DL-lactide) and Poly (L-lactide-co-glycolide), 1995.
4. Losken, H.W., Aalst, J.A., Mooney, M.P., Godfrey, V.L., Burt, T., Teotia, S., Dean, S.B., Moss, J.R. and Rahbar, R.: Biodegradation of Inion Fast-Absorbing Biodegradable Plates and Screws, 2008.

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