

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:

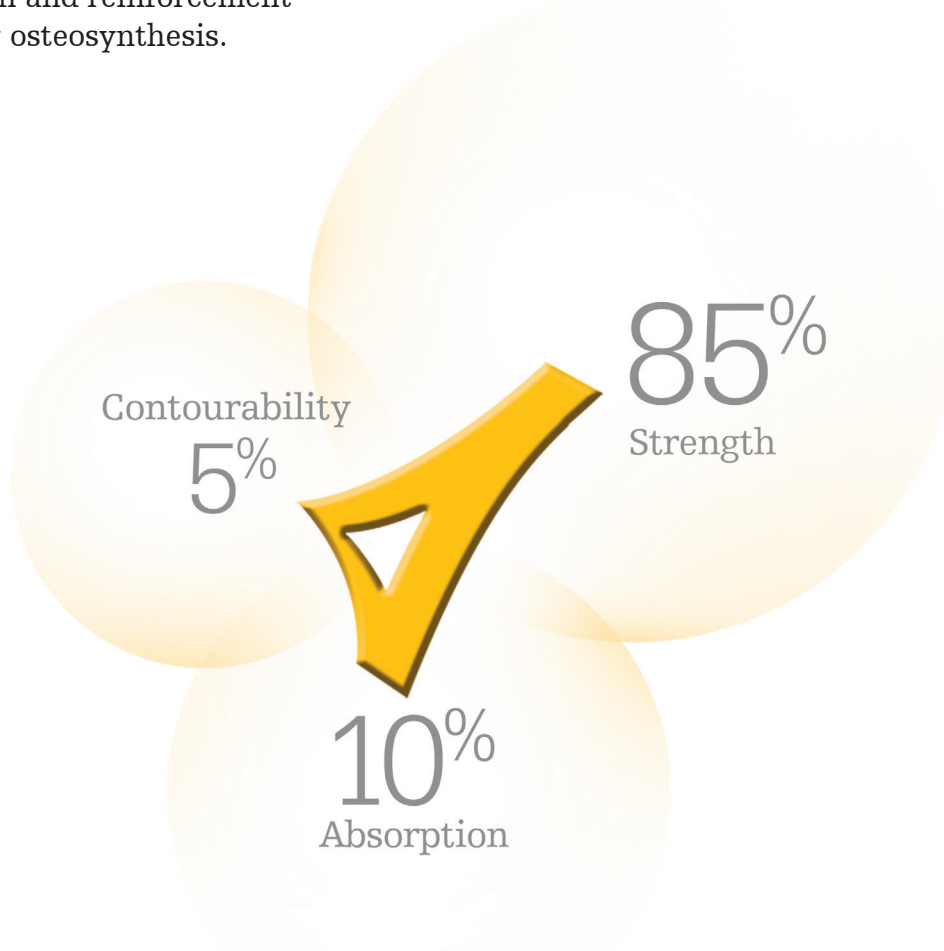
At 2 and 6 months, Delta maintains 78% and 50% of its initial strength respectively,² which can help facilitate structural fixation and reinforcement during osteosynthesis.

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, minimising 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

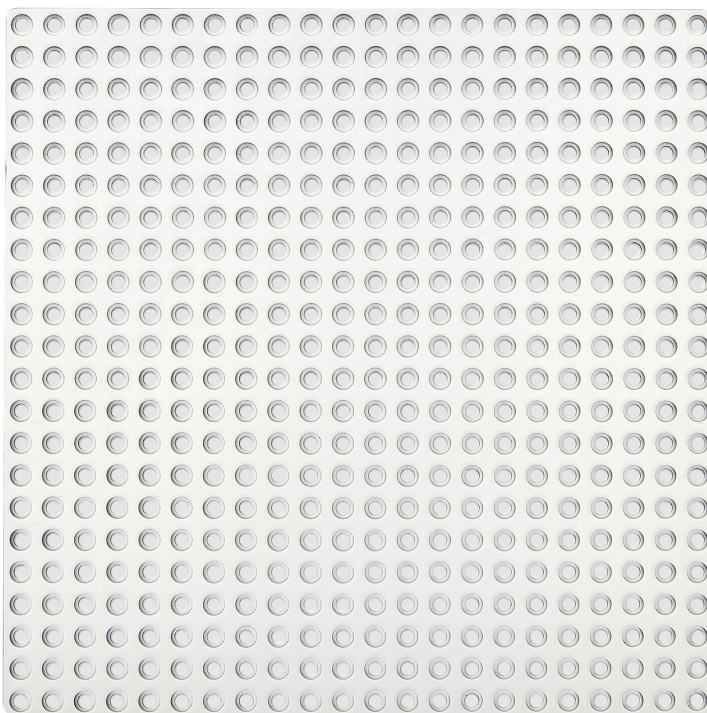


70-92046 - 2x21, 0.50mm
70-92044 - 2x21, 0.75mm



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

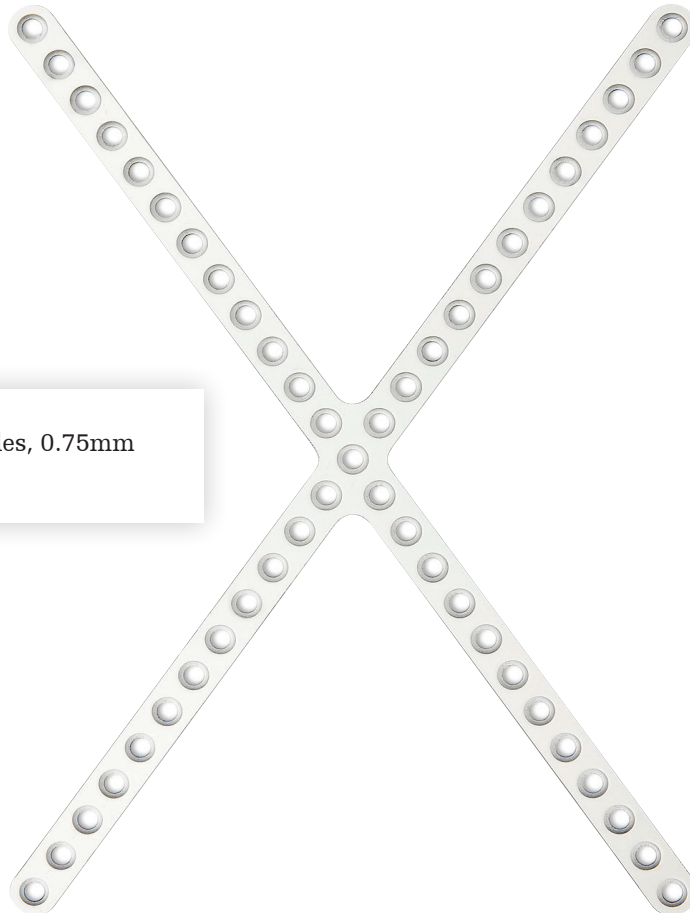


70-92001 - 144x12x0.75mm



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

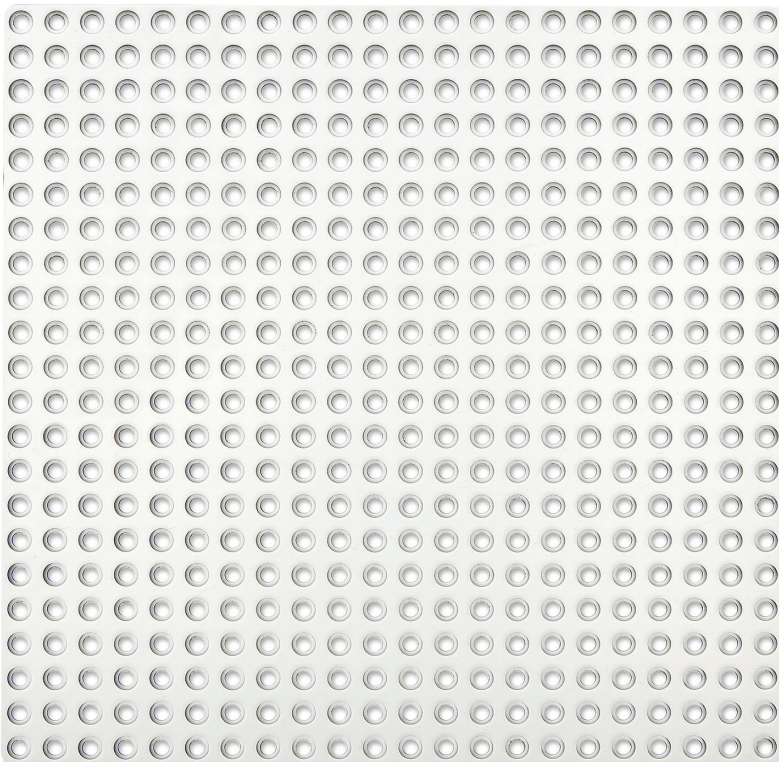
X plate



70-05356 - 49 holes, 0.75mm

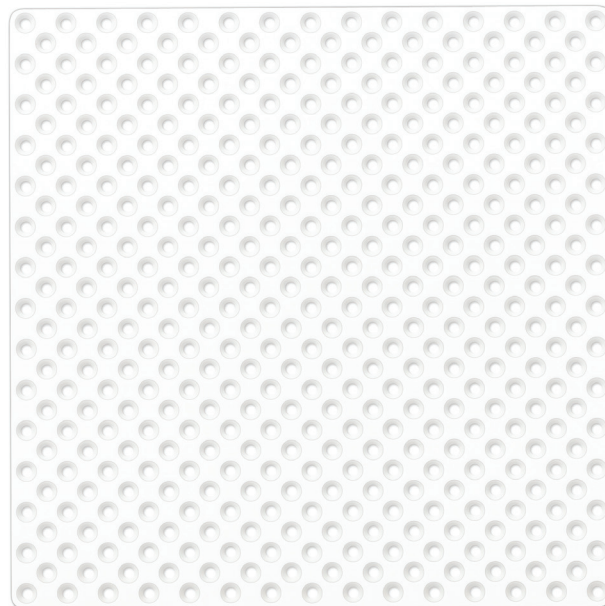
1.7mm Mesh

Mesh



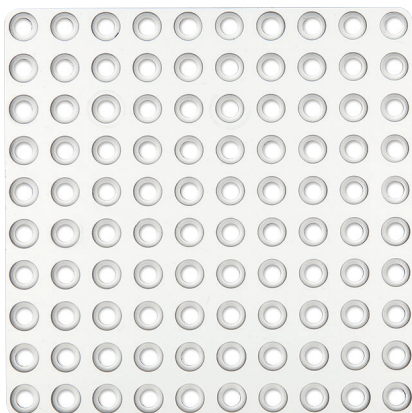
70-05150 - 122x122x0.5mm
70-05350 - 122x122x0.75mm

Staggered hole mesh



70-92048 - 116x116x0.5mm

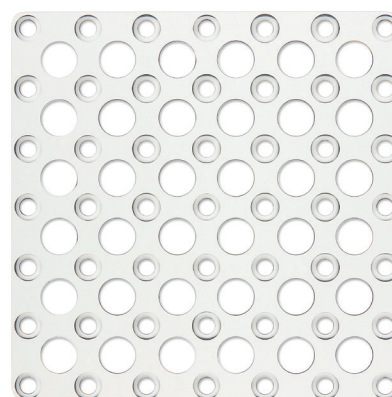
Mesh



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



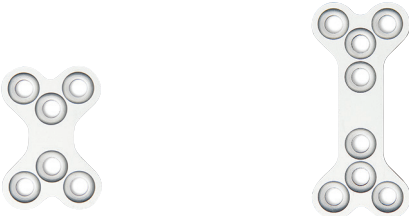
70-92013 - 25x25x0.5mm
70-92014 - 30x30x0.5mm
70-92015 - 36x36x0.5mm

Curved plate



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

Double Y plates



70-05166 -
6 holes, 1.0mm

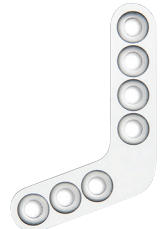


70-05168 -
8 holes, 1.0mm

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



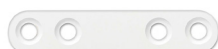
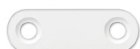
70-05348 - 24mm, 0.75mm

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



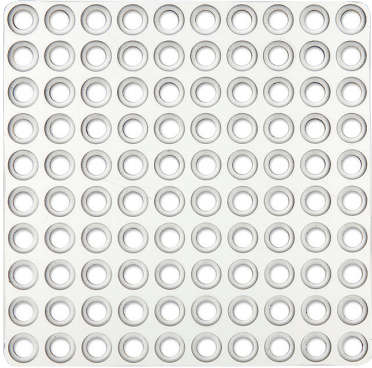
70-92011 -
3x21x1.4mm



70-06365 -
8 holes, 1.4mm

2.2mm Mesh and plates

Mesh



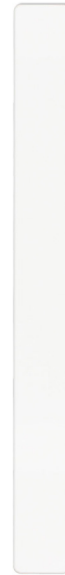
70-06345 - 55x55x1.0mm
70-06350 - 55x55x1.4mm

Curved plate



70-06188 - 8 holes,
1.4mm

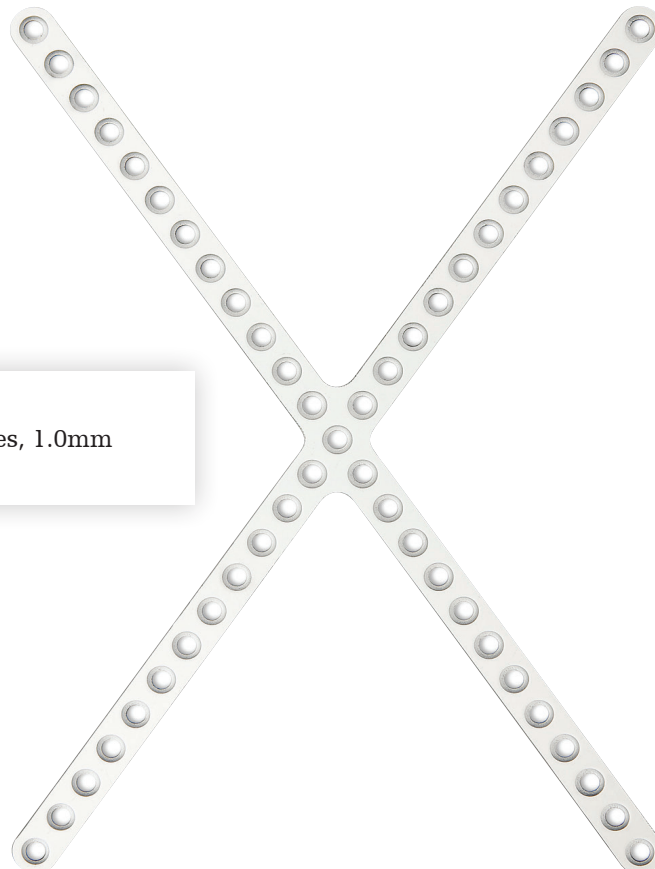
Panel



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 minimise 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

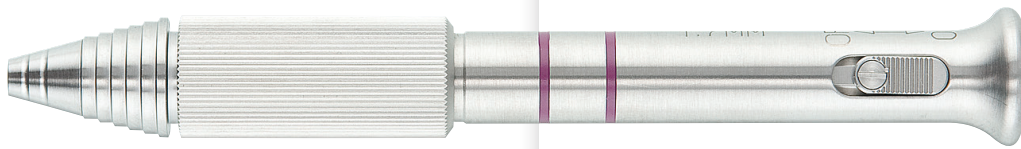
- Maximum speed of 400rpm
- Maximum torque of 1.0Nm
- Sensors allow for regulation of both speed and torque
- Robust design offering enhanced grip and hand positioning



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

- Minimised sterile field presence
- Easy access to Delta instruments



Sterilisation **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 sterilisation container
- Lightweight and fully autoclavable
- Heats water to $\sim 65^{\circ}\text{C}$



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, 122x122mm, 0.5mm
70-92053	Partial countersink mesh, 122x122mm, 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
70-17103	1.7x3mm, Package 10
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 sterilisation 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 sterilisation tray

Bath system

70-76201	Delta Water Bath 2.0
70-76203	Power supply
70-76213	Power cord

Craniomaxillofacial

A surgeon must always rely on his or her own professional clinical judgment when deciding whether to use a particular product when treating a particular patient. Stryker does not dispense medical advice and recommends that surgeons be trained in the use of any particular product before using it in surgery.

The information presented is intended to demonstrate the breadth of Stryker product offerings. A surgeon must always refer to the package insert, product label and/or instructions for use before using any Stryker product. Products may not be available in all markets because product availability is subject to the regulatory and/or medical practices in individual markets. Please contact your Stryker representative if you have questions about the availability of Stryker products in your area.

Stryker Corporation or its divisions or other corporate affiliated entities own, use or have applied for the following trademarks or service marks: Delta, Stryker, VariSpeed. All other trademarks are trademarks of their respective owners or holders.

Devices may not have been licensed in accordance with Canadian Law.

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.

Distributed by:
Stryker Australia
8 Herbert Street,
St Leonards NSW 2065
T: +61 2 9467 1000
F: +61 2 9467 1010

Stryker New Zealand Limited
PO Box 17-136
Greenlane, Auckland 1546
T: 64 9 573 1894
F: 64 9 5731895

www.StrykerMedEd.com