stryker

Delta+™ resorbable

implant system

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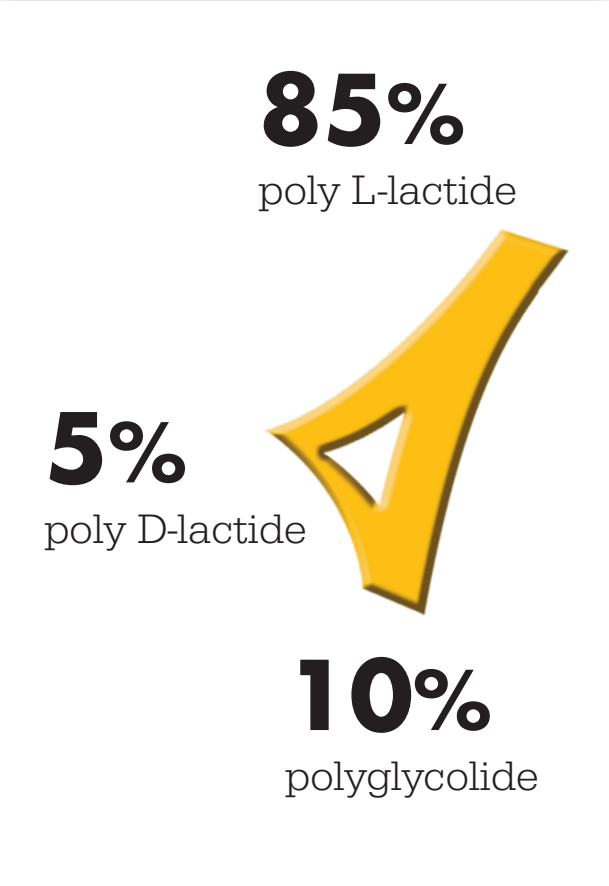
Delta+ Resorbable Implant System

Delta+ Resorbable Implant System is 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 combination[1] of strength, balanced resorption and contourability.



Strength retention

At 12 weeks and 6 months, Delta+ maintains 85% and 75% 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]

Contourability

With the addition of 5% poly D-lactide, Delta+ plates and mesh are more easily shaped to fit your patients' anatomy.[2]

Cutting

Ability to be cut dry

The balanced resorption you need, **the fixation you're familiar with.**

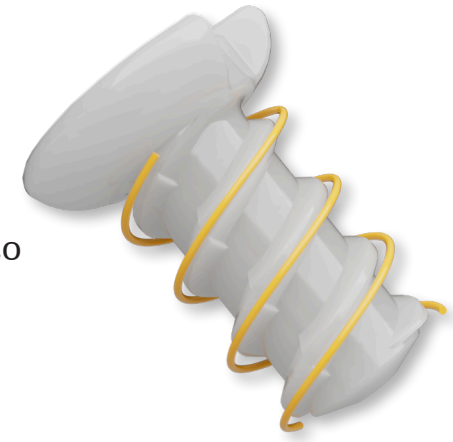
85%
strength retained
at **12** weeks[2]

75%
strength retained
at **6** months[2]

Introducing the first ever CMF self-tapping resorbable screw

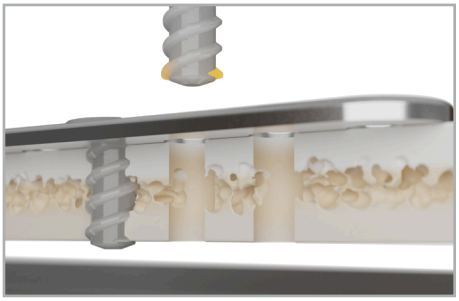
Self-tapping

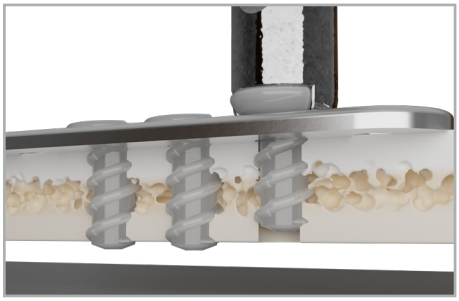
- Featured in 2.2mm (with a 2.6mm low profile emergency screw)
- Compatible with most 1.7mm and 2.2mm plates
- Pediatric indication (older than 29 days and up to two (2) years of age (infants)



Twist drills

- Available in j-latch and hex end
- Compatible with core console, VariSpeed, and F1





Instrumentation

Screwdriver blades, handles, and modules are color-coded and designed to go with their corresponding systems.

Screwdriver blades

Screwdriver blades have flanges at the sides for grasping screws.

- Positive engagement feedback
- Designed for increased retention

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
- Corresponding handles should be used with color-coded blades
- To activate torque limiting features, slide switch to ON position

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

Modules

Modules

- Minimized sterile field presence
- Easy access to Delta+ instruments

Sterilization container

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

Water bath

- Single non-sterile unit
- Utilizes sterile drape
- Heats water temperature to ~150° F
- Increased working area opening

1.7mm Plates

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

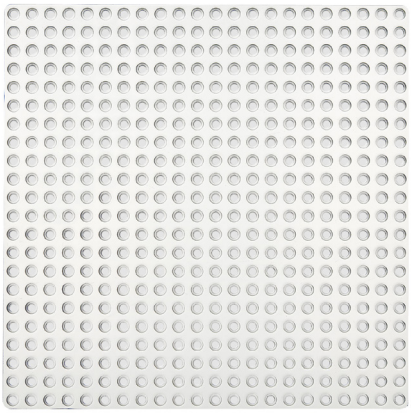
70-92055	1x21, 0.50mm
70-92056	1x21, 0.75mm

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

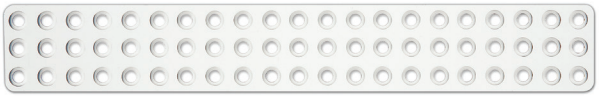
70-92058	2x21, 0.50mm
70-92060	2x21, 0.75mm
70-92059	3x21, 0.50mm
70-92061	3x21, 0.75mm

Staggered hole plates

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

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

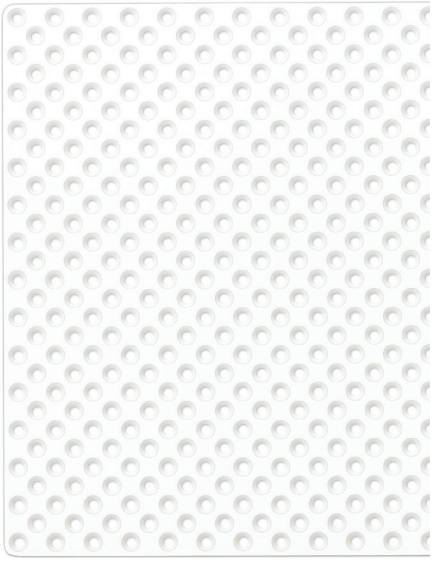
1.7mm Plates

Mesh

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

Staggered hole mesh

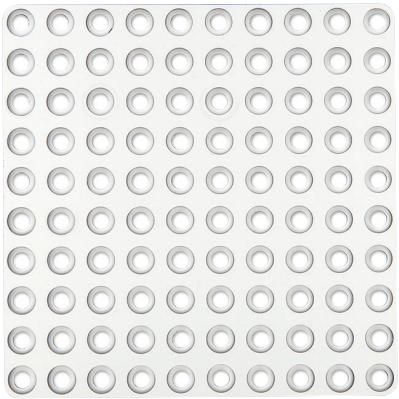
70-92048	116x116x0.5mm



1.7mm Plates

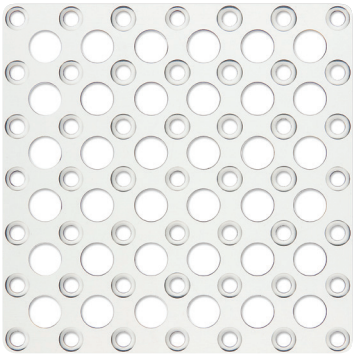
Mesh

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

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

1.7mm Neuro plates

Mesh

70-92024	2 holes, 0.5mm
70-92023	4 holes, 0.5mm

Partial countersink plates

70-92075	2 holes, 0.75mm

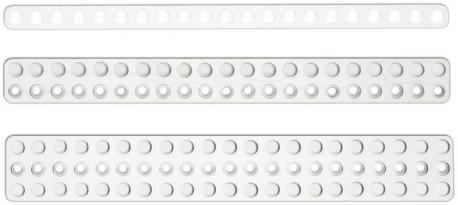
Double Y plates

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

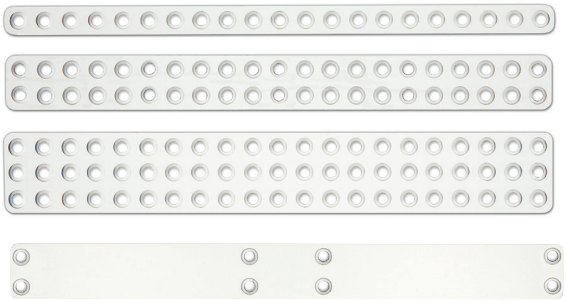


Straight plates

70-06108	8 holes, 1.4mm

Strut plates

70-92009	1x21x1.4mm
70-92010	2x21x1.4mm
70-92011	3x21x1.4mm
70-06365	8 holes, 1.4mm

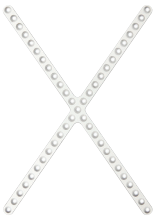


Curved plate

70-06188	8 holes, 1.4mm

X Plate

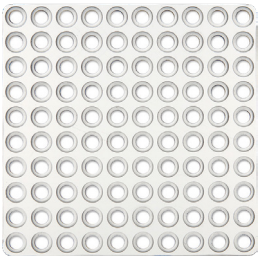
70-06356	49 holes, 1.0mm



2.2mm Mesh

Mesh

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



Panel

70-92020	116x17x1.4mm
70-06355	55x55x1.4mm

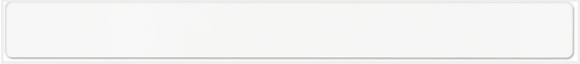


Plate configurations

1.7mm Plates

70-05114	**Straight plate, 14 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**
70-05355	**Panel, 55x55x1.0mm**
70-92012	**Panel, 122x122x0.75mm**
70-05356	**X plate, 49 holes, 0.75mm**
70-92001	**Curved strut plate, 144x12mm 0.75mm**
70-92003	**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**
70-92046	**Partial countersink plate, 2x21, 0.5mm**
70-92044	**Partial countersink plate, 2x21, .75mm**
70-92047	**Partial countersink plate, 3x21, 0.5mm**
70-92045	**Partial countersink plate, 3x21, 0.75mm**
70-92055	**Partial countersink plate, 1x21, .50mm**
70-92056	**Partial countersink plate, 1x21, 0.75mm**
70-92075	**Partial countersink plate, 2 hole, 0.75mm**
70-92052	**Partial countersink mesh, 122x122mm, 0.5mm**
70-92053	**Partial countersink mesh, 122x122mm, 0.75mm**

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**

2.2mm Plates

70-06108	**Straight plate, 8 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**
70-92020	**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**
70-92042	**Partial countersink plate, 2x21, 1.4mm**
70-92043	**Partial countersink plate, 3x21, 1.4mm**
70-92057	**Partial countersink plate, 1x21, 1.4mm**

1.7mm system*

1.7mm screws

75-17403	**1.7x3mm, 4 pack**
75-17044	**1.7x4mm, 4 pack**
75-17405	**1.7x5mm, 4 pack**
75-17604	**1.7x6mm, 4 pack**
75-17123	**1.7x3mm, 12 pack**
75-17124	**1.7x4mm, 12 pack**
75-17125	**1.7x5mm, 12 pack**
75-17203	**1.7x3mm, 20 pack**
75-17420	**1.7x4mm, 20 pack**
75-17205	**1.7x5mm, 20 pack**

1.7mm Instrumentation

75-71770	**1.7 wide-fit blade 50mm**
75-71728	**1.7 wide-fit blade 80mm**
70-76271	**1.7mm Screwdriver handle**
70-71784	**Self-drilling tap 1.7mmx3 & 4mm, dent**
70-71786	**Self-drilling tap 1.7mmx5 & 6mm, dent**
70-71794	**Self-drilling tap 1.7mmx3 & 4mm, hex**
70-71796	**Self-drilling tap 1.7mmx5 & 6mm, hex**
70-92030	**Self-drilling tap 1.7mmx3 & 4mm, hex, 95mm**
70-92031	**Self-drilling tap 1.7mmx5 & 6mm, hex, 95mm**
70-92037	**Self-drilling tap 1.7mmx3 & 4mm, hex, 130mm**
70-92038	**Self-drilling tap 1.7mmx5 & 6mm, hex, 130mm**
70-92062	**Self-drilling tap 1.7mmx3 & 4mm, hex, 43mm (Short)**
70-92063	**Self-drilling tap 1.7mmx5 & 6mm, hex, 43mm (Short)**

Standard 2.2mm system*

2.2mm Standard screws

75-22404	**2.2x4mm, 4 pack**
75-22408	**2.2x8mm, 4 pack**
75-22410	**2.2x10mm, 4 pack**
75-22124	**2.2x4mm, 12 pack**
75-22126	**2.2x6mm, 12 pack**
75-22204	**2.2x4mm, 20 pack**

2.6mm Emergency screws

75-26404	**2.6x4mm, 4 pack**
75-26406	**2.6x6mm, 4 pack**
75-26408	**2.6x8mm, 4 pack**
75-26410	**2.6x10mm, 4 pack**

2.6mm Instrumentation

75-72670	**2.6 wide-fit blade 50mm**
75-72630	**2.6 wide-fit blade 80mm**
70-76274	**2.6mm Screwdriver handle**

2.2 Standard instrumentation

75-72270	**2.2 wide-fit blade 50mm**
75-72229	**2.2 wide-fit blade 80mm**
70-76273	**2.2 mm Screwdriver handle**
70-72284	**Self-drilling tap 2.2 mm x 3&4 mm Screws, Stryker end**
70-72286	**Self-drilling tap 2.2 mm x 5&6 mm Screws, Stryker end**
70-72288	**Self-drilling tap 2.2 mm, 12 mm Length, Stryker end**
70-72294	**Self-drilling tap 2.2 mm, 4 mm, hex**
70-72296	**Self-drilling tap 2.2 mm, 6mm, hex**
70-72298	**Self-drilling tap 2.2 mm x 8 & 10 mm, hex**
70-92032	**Self-drilling tap 2.2 mm, 3 & 4 mm, hex, 95 mm**
70-92033	**Self-drilling tap 2.2 mm x 5 & 6 mm, hex, 95mm**
70-92034	**Self-drilling tap 2.2 mm x 8 & 10 mm, hex, 95 mm**
70-92039	**Self-drilling tap 2.2 mm x 3 & 4 mm, hex, 130 mm**
70-92040	**Self-drilling tap 2.2 mm x 5 & 6 mm, hex, 130 mm**
70-92041	**Self-drilling tap 2.2 mm x 8 & 10 mm, hex, 130 mm**
70-92064	**Self-drilling tap 2.2 mm x 4 mm, hex, 43 mm (Short)**
70-92065	**Self-drilling tap 2.2 mm x 6 mm, hex, 43 mm (Short)**
70-92065	**Self-drilling tap 2.2 mm x 8 & 10mm, hex, 43mm (Short)**

*Requires self-drilling tap

DualStart self-tapping 2.2mm system

Screws

For use in conjunction with 1.7 and 2.2 plates

77-22043	**DualStart self-tapping screw 2.2x3mm 4 pack**
77-22044	**DualStart self-tapping screw 2.2x4mm 4 pack**
77-22045	**DualStart self-tapping screw 2.2x5mm 4 pack**
77-22046	**DualStart self-tapping screw 2.2x6mm 4 pack**
77-22123	**DualStart self-tapping screw 2.2x3mm 12 pack**
77-22124	**DualStart self-tapping screw 2.2x4mm 12 pack**
77-22125	**DualStart self-tapping screw 2.2x4mm 12 pack**
77-22126	**DualStart self-tapping screw 2.2x5mm 12 pack**
77-22203	**DualStart self-tapping screw 2.2x3mm 20 pack**
77-22204	**DualStart self-tapping screw 2.2x4mm 20 pack**
77-22205	**DualStart self-tapping screw 2.2x5mm 20 pack**
77-22440	**Delta low profile emergency screw 2.6x4mm 4 pack**
77-22640	**Delta low profile emergency screw 2.6x6mm 4 pack**

2.2 DualStart Instrumentation

75-72270	**2.2 wide-fit blade 50mm**
75-72229	**2.2 wide-fit blade 80mm**
70-76273	**2.2 mm Screwdriver handle**
70-71804	**1.8 mm x 3 & 4 mm Screws, Stryker end**
70-71806	**1.8 mm x 5 & 6 mm Screws, Stryker end**
70-92804	**Twist-Drill Hex-Ends 1.8 for 3&4 mm screw**
70-92806	**Twist-Drill Hex-Ends 1.8 for 5&6 mm screw**

Containers and instruments modules

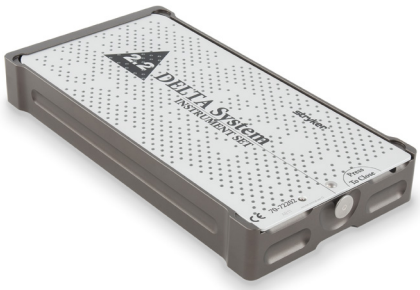
70-70002	**Delta system sterilization container**
70-71702	**1.7 mm Instrument module**
70-72202	**2.2 mm Instrument module**
29-13022	**Instrument tray**
29-15200	**VariSpeed sterilization tray**
29-53000	**CMF Inventory management cart**

Other instruments

62-50200	**VariSpeed battery powered**
62-50201	**VariSpeed battery pack**
70-71817	**Plate forceps**
70-73736	**Plate / Mesh cutter**
70-76270	**Tap handle**

Bath system

70-76201	**Delta water bath 2.0**
70-76203	**1.7 mm Instrument module**
70-76210	**2.2 mm Instrument module**
70-76203	**Power supply**
70-76210	**Power 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. Stryker R&D report, report no. RD-98-004 to RD-98-022
3. Ricalde, P & Posnick, J.C. (2004). Degradation rate of delta (Resorbable) internal fixation: report of 2 cases. J Oral Maxillofac Surg, 62(2), 250-255.

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