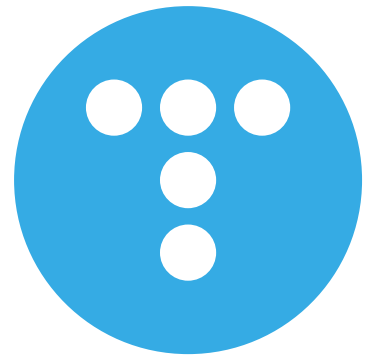
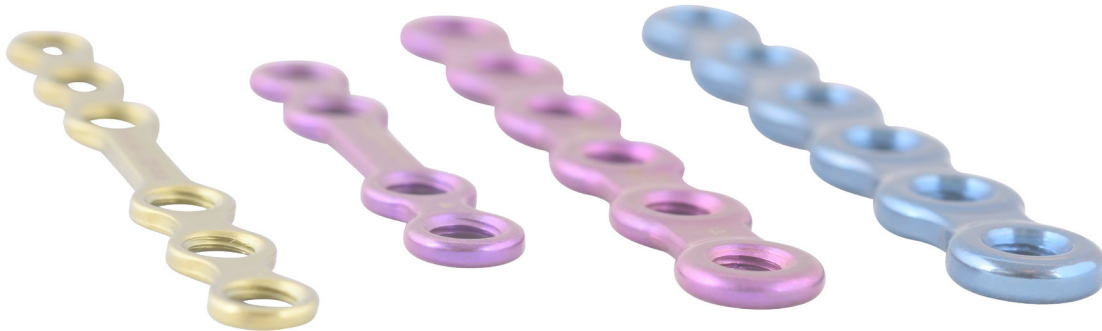




Trauma & Recon of the Mandible

GAMMA System



GAMMA System - Trauma & Recon

INTRODUCTION

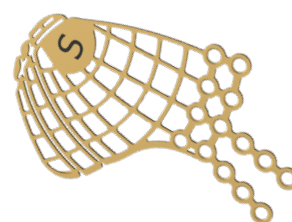


SMART FIX

Titamed's Smart Fixation consists of 3 different systems, each one designed for a specific series of indications:

The **ALFA System** is a complete range of plates and screws intended for Craniofacial and Midface trauma, including:

- Orbita region
- Frontal sinus area
- Nasal region
- Zygoma region
- Lefort 1 fracture area

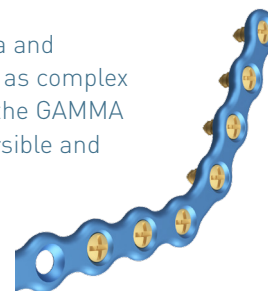


The **BETA System** is specifically designed for orthognatic surgery:

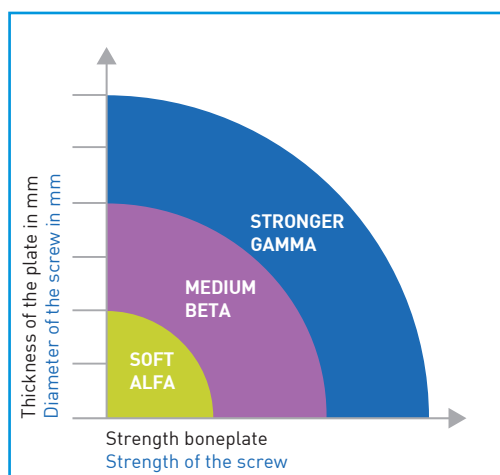
- Lefort I osteotomy
- Chin osteotomy
- Sagital split osteotomy



The **GAMMA System** is specifically designed for trauma and reconstructive surgery of the mandible. Simple as well as complex fractures of the mandible can be easily managed with the GAMMA system. All boneplates of the GAMMA system are reversible and compatible with locking and non-locking screws.



GRADUAL SYSTEM



The Smart Fixation is a gradual system.

Color coding per system:

Yellow: Small screws and plates (ALFA)

Purple: Medium screws and plates (BETA)

Blue: Large screws and plates (GAMMA)

GAMMA System - Trauma & Recon

INTRODUCTION



Screws, boneplates and instruments of the ALFA and BETA system are interchangeable.

System	Indication	Screw		Specifications
		Selftapping	Selfdrilling	
 ALFA	Craniofacial & Midface Trauma	Ø 1.3 mm	-	1 screwdriver for ALFA-BETA
		Ø 1.6 mm	Ø 1.6 mm	
 BETA	Orthognatic Surgery	Ø 1.9 mm	Ø 1.9 mm	
		Ø 2.2 mm*	-	
 GAMMA	Trauma & Recon of the mandible	Locking	Non-Locking	1 screwdriver for GAMMA
		Ø 2.1 mm	Ø 2.1 mm	
		Ø 2.4 mm	Ø 2.4 mm	
		Ø 2.7 mm	Ø 2.7 mm	

* Screws of 2.2 mm are not compatible with ALFA-boneplates

BONESCREWS

System	Indication	Plate		Specifications
		Thickness (mm)		
 ALFA	Craniofacial & Midface Trauma	0.3 / 0.4 mm mesh and orbita		Non-reversible**
		0.5 mm		
		0.6 mm		
 BETA	Orthognatic Surgery	0.6 mm		Reversible***
		0.7 /0.8mm		
		0.8 / 1.0 mm		
 GAMMA	Trauma & Recon of the mandible	1.0 mm		Reversible & Locking
		1.3 mm		
		1.5 mm		
		2.0 mm		

** Except for orbita floor plates, they are reversible

*** Except for the prebent and BSSO plates

BONEPLATES



GAMMA System - Trauma & Recon

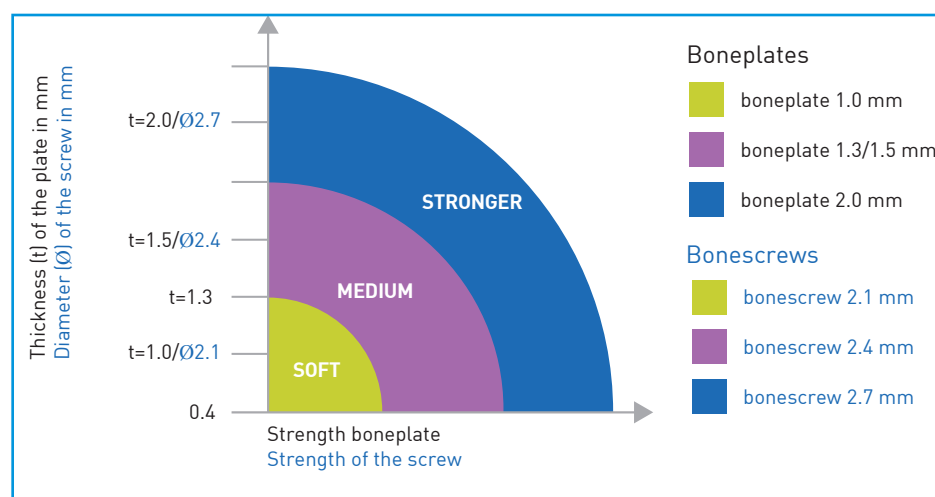
FEATURES



INDICATIONS

The GAMMA System is specifically designed for trauma and reconstructive surgery of the mandible. Simple as well as complex fractures of the mandible can be easily managed with the GAMMA system. All boneplates of the GAMMA system are reversible and compatible with locking and non-locking screws.

GRADUAL SYSTEM



Color coding within the GAMMA System:

- Smallest diameter screws and thinnest boneplates: **Yellow**
- Medium diameter screws and medium boneplates: **Purple**
- Large diameter screws and thickest boneplates: **Blue**

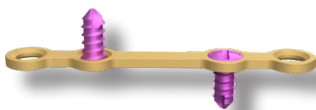
GAMMA System - Trauma & Recon

FEATURES

All boneplates of the GAMMA series are reversible and compatible with locking and non-locking screws. This is a very unique feature: **reversible & locking** all-in-one.

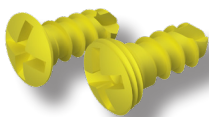
Our large boneplate rang allows the surgeon to choose the optimal boneplate design for each possible indication in the field of trauma en reconstructive surgery of the mandible.

The GAMMA plates provide a balance of a low profile height and a high strength of the boneplate. The screw/plate interface is made as low as possible to provide an optimal patient comfort.



- * Reversible and locking boneplates
- * Low screw/plate interface
- * Optimal balance profile height and strength
- * Large selection of screws and plates
- * Medical grade titanium

The surgeon can choose out of different diameters of selftapping screws in **locking or non-locking versions**. All screws of the GAMMA system fit into all boneplates of the GAMMA system.



- * An excellent grip on the bone
- * Locking and non-locking screws
- * Ideal diameters of screws
- * Longer step for longer screws
- * Medical grade titanium



BONEPLATES

BONESCREWS



GAMMA System - Trauma & Recon

BONEPLATES



STRAIGHT PLATES



G10-90-003



G10-90-004



G10-90-006



G10-90-008



G10-90-010



G10-90-016

Cat. No.	Description	Holes	Thickness
G10-90-003	Straight plate	3	1.0
G10-90-004	Straight plate	4	1.0
G10-90-006	Straight plate	6	1.0
G10-90-008	Straight plate	8	1.0
G10-90-010	Straight plate	10	1.0
G10-90-016	Straight plate	16	1.0



G13-90-004



G13-90-006



G13-90-008



G13-90-010



G13-90-016

Cat. No.	Description	Holes	Thickness
G13-90-003	Straight plate	3	1.3
G13-90-004	Straight plate	4	1.3
G13-90-006	Straight plate	6	1.3
G13-90-008	Straight plate	8	1.3
G13-90-010	Straight plate	10	1.3
G13-90-016	Straight plate	16	1.3

GAMMA System - Trauma & Recon

BONEPLATES

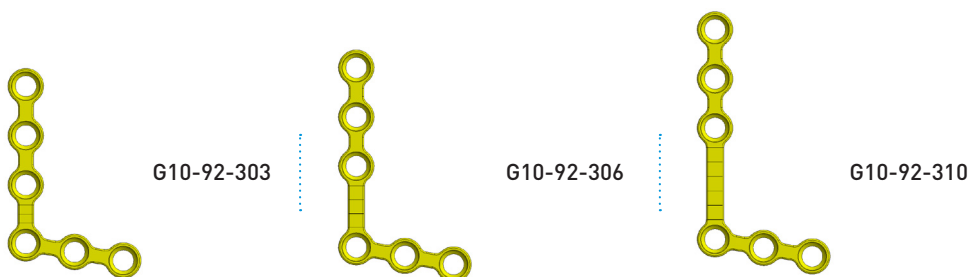


STRAIGHT PLATES



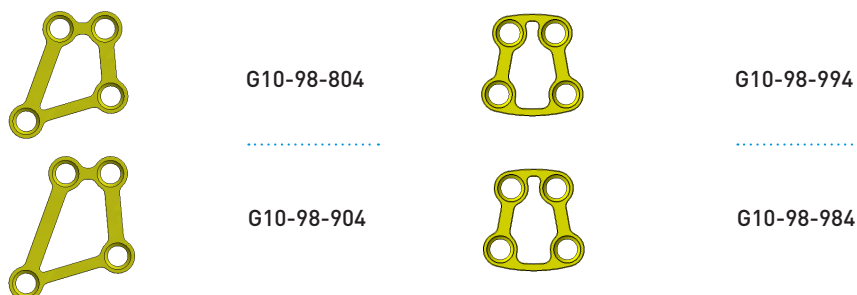
Cat. No.	Description	Holes	Thickness
G10-90-104	Straight plate 2+2	4	1.0
G10-90-106	Straight plate 3+3	6	1.0
G13-90-104	Straight plate 2+2	4	1.3
G13-90-106	Straight plate 3+3	6	1.3

L PLATES



Cat. No.	Description	Holes	Thickness
G10-92-303	L plate 3 + 3 - 3 mm	6	1.0
G10-92-306	L plate 3 + 3 - 6 mm	6	1.0
G10-92-310	L plate 3 + 3 - 10 mm	6	1.0

CONDYLE PLATES



Cat. No.	Description	Holes	Thickness
G10-98-804	Assymetric condyle plate small	4	1.0
G10-98-904	Assymetric condyle plate large	4	1.0
G10-98-984	Condyle plate, prebent	4	1.0
G10-98-994	Condyle plate	4	1.0



GAMMA System - Trauma & Recon

BONEPLATES



STRAIGHT PLATES



G15-90-004



G15-90-006



G15-90-012



G15-90-016



G15-90-020

Cat. No.	Description	Holes	Thickness
G15-90-004	Straight plate	4	1.5
G15-90-006	Straight plate	6	1.5
G15-90-012	Straight plate	12	1.5
G15-90-016	Straight plate	16	1.5
G15-90-020	Straight plate	20	1.5



G20-90-004



G20-90-006



G20-90-012



G20-90-016



G20-90-020

Cat. No.	Description	Holes	Thickness
G20-90-004	Straight plate	4	2.0
G20-90-006	Straight plate	6	2.0
G20-90-012	Straight plate	12	2.0
G20-90-016	Straight plate	16	2.0
G20-90-020	Straight plate	20	2.0

GAMMA System - Trauma & Recon

BONEPLATES



CURVED PLATES



G15-96-004



G15-96-006



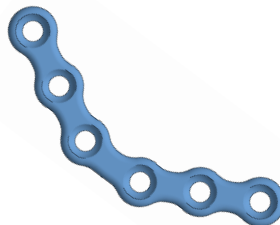
G20-96-004



G20-96-006



G15-96-106



G20-96-106

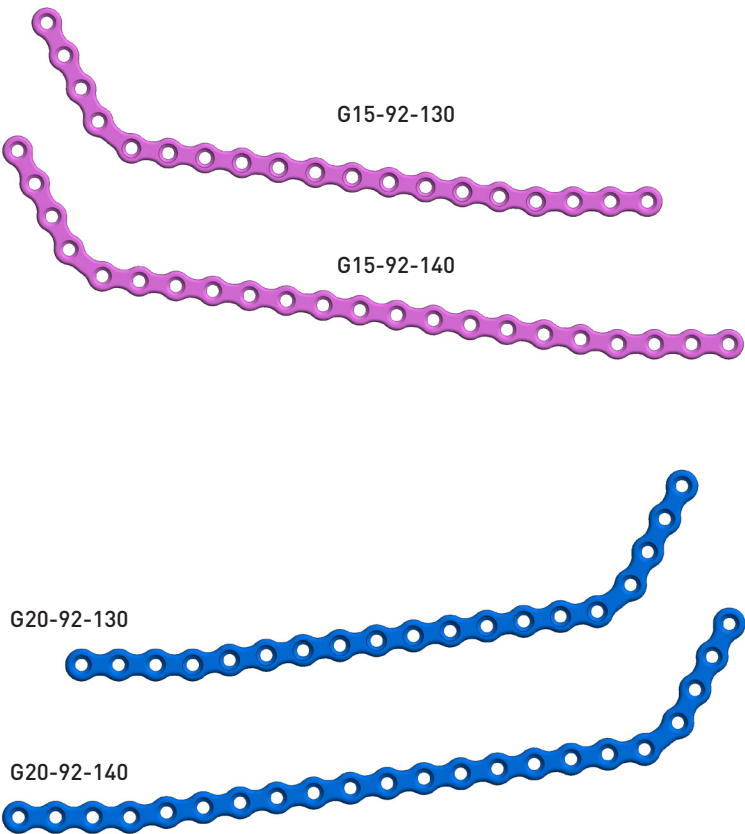
Cat. No.	Description	Holes	Thickness
G15-96-004	Curved 2+2	4	1.5
G15-96-006	Curved 3+3	6	1.5
G20-96-004	Curved 2+2	4	2.0
G20-96-006	Curved 3+3	6	2.0
G15-96-106	Curved 3+3	6	1.5
G20-96-106	Curved 3+3	6	2.0

GAMMA System - Trauma & Recon

BONEPLATES



RECON L-PLATE



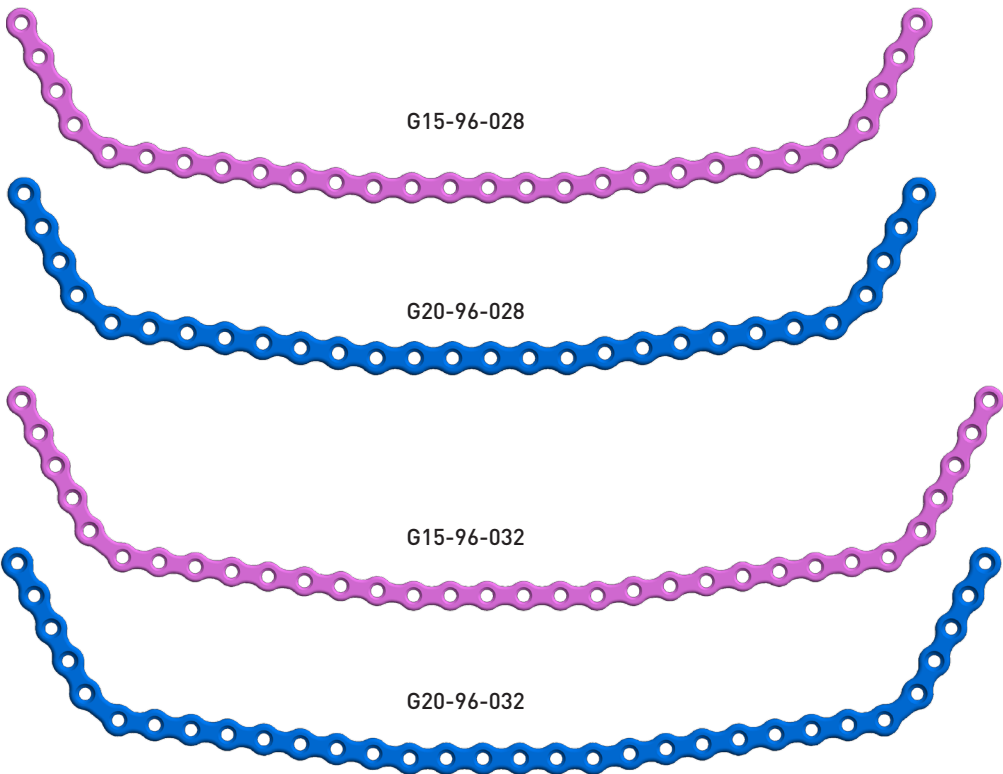
Cat. No.	Description	Holes	Thickness
G15-92-130	L 4 + 15	19	1.5
G20-92-130	L 4 + 15	19	2.0
G15-92-140	L 4 + 18	22	1.5
G20-92-140	L 4 + 18	22	2.0

GAMMA System - Trauma & Recon

BONEPLATES



CURVED RECON



Cat. No.	Description	Holes	Thickness
G15-96-028	Curved 4 + 20 + 4	28	1.5
G20-96-028	Curved 4 + 20 + 4	28	2.0
G15-96-032	Curved 5 + 22 + 5	32	1.5
G20-96-032	Curved 5 + 22 + 5	32	2.0



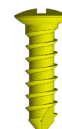
GAMMA System - Trauma & Recon

BONESCREWS



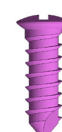
2.1 MM SCREWS SELFTAPPING NON-LOCKING

Cat. No.	Description	Length
S21-10-005	Cross-pin bonescrew, selftapping, non-locking	5
S21-10-006	Cross-pin bonescrew, selftapping, non-locking	6
S21-10-008	Cross-pin bonescrew, selftapping, non-locking	8
S21-10-010	Cross-pin bonescrew, selftapping, non-locking	10
S21-10-012	Cross-pin bonescrew, selftapping, non-locking	12
S21-10-014	Cross-pin bonescrew, selftapping, non-locking	14
S21-10-016	Cross-pin bonescrew, selftapping, non-locking	16
S21-10-018	Cross-pin bonescrew, selftapping, non-locking	18



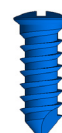
2.4 MM SCREWS SELFTAPPING NON-LOCKING

Cat. No.	Description	Length
S24-10-005	Cross-pin bonescrew, selftapping, non-locking	5
S24-10-006	Cross-pin bonescrew, selftapping, non-locking	6
S24-10-008	Cross-pin bonescrew, selftapping, non-locking	8
S24-10-010	Cross-pin bonescrew, selftapping, non-locking	10
S24-10-012	Cross-pin bonescrew, selftapping, non-locking	12
S24-10-014	Cross-pin bonescrew, selftapping, non-locking	14
S24-10-016	Cross-pin bonescrew, selftapping, non-locking	16
S24-10-018	Cross-pin bonescrew, selftapping, non-locking	18



2.7 MM SCREWS SELFTAPPING NON-LOCKING

Cat. No.	Description	Length
S27-10-005	Cross-pin bonescrew, selftapping, non-locking	5
S27-10-006	Cross-pin bonescrew, selftapping, non-locking	6
S27-10-008	Cross-pin bonescrew, selftapping, non-locking	8
S27-10-010	Cross-pin bonescrew, selftapping, non-locking	10
S27-10-012	Cross-pin bonescrew, selftapping, non-locking	12
S27-10-014	Cross-pin bonescrew, selftapping, non-locking	14
S27-10-016	Cross-pin bonescrew, selftapping, non-locking	16
S27-10-018	Cross-pin bonescrew, selftapping, non-locking	18

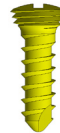


GAMMA System - Trauma & Recon

BONESCREWS

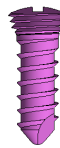


Cat. No.	Description	Length
S21-50-005	Cross-pin bonescrew, selftapping, locking	5
S21-50-006	Cross-pin bonescrew, selftapping, locking	6
S21-50-008	Cross-pin bonescrew, selftapping, locking	8
S21-50-010	Cross-pin bonescrew, selftapping, locking	10
S21-50-012	Cross-pin bonescrew, selftapping, locking	12
S21-50-014	Cross-pin bonescrew, selftapping, locking	14
S21-50-016	Cross-pin bonescrew, selftapping, locking	16
S21-50-018	Cross-pin bonescrew, selftapping, locking	18



2.1 MM SCREWS
SELF TAPPING
LOCKING

Cat. No.	Description	Length
S24-50-005	Cross-pin bonescrew, selftapping, locking	5
S24-50-006	Cross-pin bonescrew, selftapping, locking	6
S24-50-008	Cross-pin bonescrew, selftapping, locking	8
S24-50-010	Cross-pin bonescrew, selftapping, locking	10
S24-50-012	Cross-pin bonescrew, selftapping, locking	12
S24-50-014	Cross-pin bonescrew, selftapping, locking	14
S24-50-016	Cross-pin bonescrew, selftapping, locking	16
S24-50-018	Cross-pin bonescrew, selftapping, locking	18



2.4 MM SCREWS
SELF TAPPING
LOCKING

Cat. No.	Description	Length
S20-90-008	Cross-pin IMF bonescrew, selfdrilling	8
S20-90-010	Cross-pin IMF bonescrew, selfdrilling	10
S20-90-012	Cross-pin IMF bonescrew, selfdrilling	12



2.0 MM SCREWS
SELF DRILLING
IMF-SCREW

Cat. No.	Description	Length
S20-91-008	Cross-pin IMF bonescrew, selfdrilling	8
S20-91-010	Cross-pin IMF bonescrew, selfdrilling	10
S20-91-012	Cross-pin IMF bonescrew, selfdrilling	12



GAMMA System - Trauma & Recon

INSTRUMENTS



PLATE BENDING



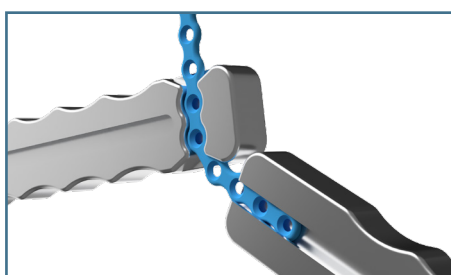
IT01-103

IT01-155

Cat. No.	Description
IT01-103	Plate bending pliers
IT01-155	Plate bending handles G15-G20 (2 pieces)



Out of plane bending with IT01-155



In plane bending with IT01-155

GAMMA System - Trauma and Recon

INSTRUMENTS



PLATE CUTTING



IT02-201

IT02-242

Cat. No.	Description
IT02-201	Plate cutting scissor
IT02-242	Plate cutting plier strong (as from 1,5 mm)



IT03-350

SCREWDRIVER

Cat. No.	Description
IT03-530	Screwdriver cross pin, dia 3



IT03-303



IT03-444



IT03-443

Cat. No.	Description
IT03-303	Handle large
IT03-444	Screwdrivertip gamma - 90mm
IT03-443	Screwdrivertip dental end - 12 mm



GAMMA System - Trauma & Recon

INSTRUMENTS



FORCEPS



Cat. No.	Description
IT04-400	Plate holding forceps, straight, inox, 16 cm
IT04-401	Plate holding forceps, angled

TROCAR



Cat. No.	Description
IT07-740	Transbuccal System Gamma

DRILL GUIDE



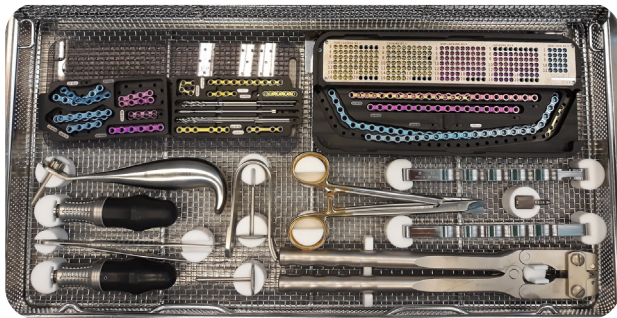
Cat. No.	Description
IT07-800	Drill guide, centric, GAMMA system

GAMMA System - Trauma and Recon

INSTRUMENTS

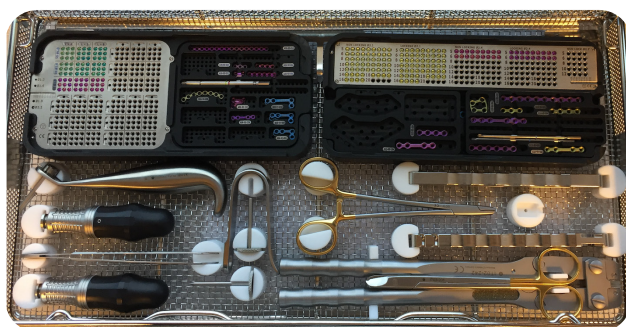


BOX



IT10-350 Organiser for Gamma System, 48 x 24

IT10-350	Cat. No.	Description	System	Max. quantity
➤	IT01-103	Plate bending pliers	Gamma	2
➤	IT01-155	Plate bending handles G15-G20 (2 pieces)	Gamma	1
➤	IT02-201	Plate cutting scissor	Gamma	1
➤	IT02-242	Plate cutting plier strong (as from 1,5 mm)	Gamma	1
➤	IT03-303	Handle large	Gamma	2
➤	IT03-44x	Screwdrivertip gamma	Gamma	2
➤	IT04-401	Plate holding forceps, angled	Gamma	1
➤	IT07-740	Transbuccal System Gamma	Gamma	1
➤	IT07-800	Drill guide, centric, Gamma system	Gamma	1
➤	Implants	To own preferences	Gamma	-
➤	Twist drills	To own preferences	Gamma	-



IT10-351 Organiser for Alfa-Gamma System, 48x24

IT10-351	Cat. No.	Description	System	Max. quantity
➤	IT01-103	Plate bending pliers	Alfa/Gamma	2
➤	IT01-155	Plate bending handles G15-G20 (2 pieces)	Gamma	1
➤	IT02-201	Plate cutting scissor	Alfa/Gamma	1
➤	IT02-242	Plate cutting plier strong (as from 1,5 mm)	Gamma	1
➤	IT03-302	Screwdriver Alfa-Beta	Alfa	2
➤	IT03-530	Screwdriver cross pin, dia 3	Gamma	2
➤	IT04-401	Plate holding forceps, angled	Alfa / Gamma	1
➤	IT07-740	Transbuccal System Gamma	Gamma	1
➤	Twist drills	To own preferences	Alfa / Gamma	-
➤	Implants	To own preferences	Alfa / Gamma	-



GAMMA System - Trauma & Recon

TWIST DRILLS



Cat. No.	Description
ITG145005	Twist drill, ø1.4 mm, L=50 mm, stop 5 mm
ITG145007	Twist drill, ø1.4 mm, L=50 mm, stop 7 mm



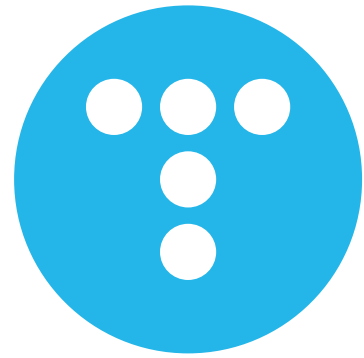
Cat. No.	Description
ITG166000	Twist drill, ø1.6 mm, L=60 mm
ITG169500	Twist drill transbuccal, ø1.6 mm, L=95 mm, without stop



Cat. No.	Description
ITG175005	Twist drill, ø1.7 mm, L=50 mm, stop 5 mm
ITG175007	Twist drill, ø1.7 mm, L=50 mm, stop 7 mm



Cat. No.	Description
ITG196000	Twist drill, ø1.9 mm, L=60 mm
ITG199500	Twist drill transbuccal, ø1.9 mm, L=95 mm, without stop



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