



Partner for Life Care

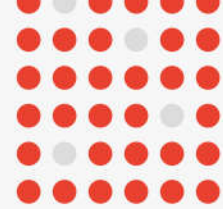
BiobSorb System

PLGA

- BiobSorb 1.6 System
- BiobSorb 2.0 System
- BiobSorb 2.4 System
- Mesh Plate



INTRODUCTION



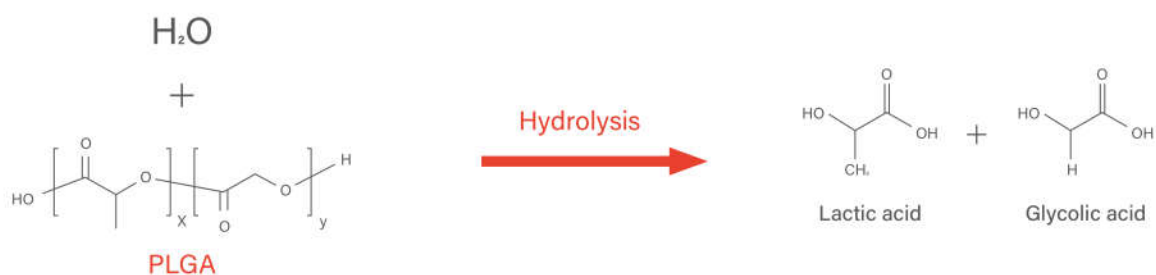
"Bioborb system" is made with 82:18 poly(L-lactide-co-glycolide). This raw material is formed by the co-polymerization of L-lactide and glycolide. This copolymer is biocompatible and absorb-able, and osteoconductive. It provides enough physical strength for the reconstruction of cranio-maxillofacial bone.

● Materials

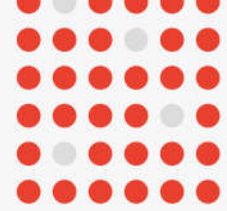
L-lactide + Glycolide PLGA (Poly L-lactide-co-glycolide)

● Mechanisim of Materials Action

"Bioborb system" is designed to retain approximately 80% of its initial strength until 16 weeks after the operation. After that it is gradually absorbed into the body.



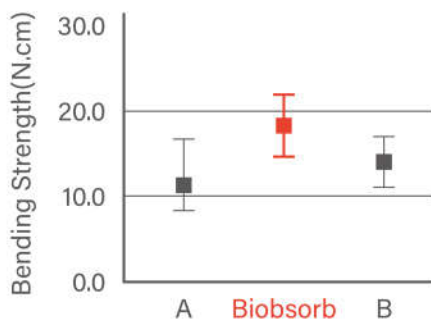
FEATURE



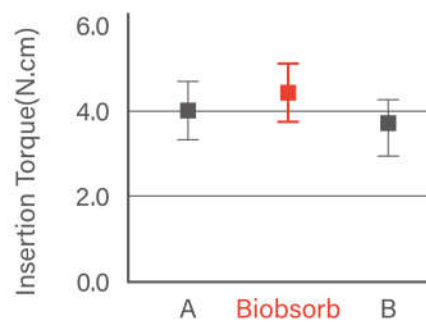
- High Strength maintained at least 16 weeks
- In vivo biodegradable in 12 months
- No need for secondary surgery to remove
- The implant Increase of fixation power (Maximizing contact resistance)

● Plate and Screw Strength

BiobSorb Plate Bending Test

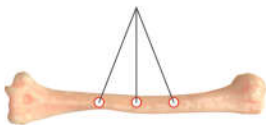


BiobSorb Screw Torque Test



● Pre-clinical Case Study

Implantation sites



- **Animal**
New Zealand White Rabbit
- **Rule**
ISO 10993-6(2007)

Result: Approval

- **Histological evaluation:** 0.00
- **Bio-reactivity rating:** Non-irritant

Implantation Test, 12 weeks (MTK-6835/KTR)

- I(animal No. M2-T3)



X50, H&E



X400, H&E

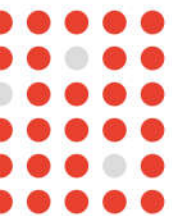
- I(animal No. M4-T2)



X50, H&E



X50, H&E



Contents

Biobsorb System

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BiobSorb CMF

Plate Line-up

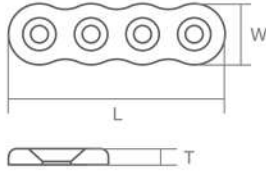


Type	Product Image	System	Thickness	L x W
Straight		1.6 MICRO	0.8T	21.0 x 6.0
		2.0 MINI	1.2T	21.0 x 5.5
		2.4 RECON	1.4T	25.0 x 8.0
		1.6 MICRO	0.8T	24.0 x 6.0
		2.0 MINI	1.2T	24.0 x 6.0
		1.6 MICRO	0.8T	29.0 x 6.0
		2.0 MINI	1.2T	29.0 x 6.0
		1.6 MICRO	0.8T	31.0 x 6.0
		2.0 MINI	1.2T	31.0 x 5.5
		2.4 RECON	1.4T	37.0 x 8.0
Curved		1.6 MICRO	0.8T	35.3 x 7.5
		1.6 MICRO	0.8T	38.0 x 9.1
		2.0 MINI	1.2T	40.0 x 9.0
L-Type		1.6 MICRO	0.8T	16.0 x 31.0
		2.0 MINI	1.2T	16.0 x 31.0
		1.6 MICRO	0.8T	21.0 x 26.0
		2.0 MINI	1.2T	20.7 x 25.4
Square -Type		2.0 MINI	1.2T	18.2 x 14.2
		2.0 MINI	1.2T	25.0 x 15.0

BiobSorb CMF System

BiobSorb 1.6 (Micro)

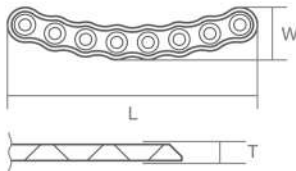
• Straight 0.8T



L x W	21.0x6.0	24.0x6.0	29.0x6.0
Description	4 Hole	4 Hole, Long	4 Hole, Long
Order.No	PLT10-0621-04ST	PLT10-0624-04ST	PLT10-0629-04ST
Scale 1:1			

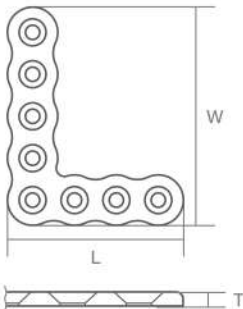
L x W	31.0x6.0
Description	6 Hole
Order.No	PLT10-0631-06ST
Scale 1:1	

• Curved 0.8T



L x W	35.3 x 7.5	38.0x9.1
Description	8 Hole	6 Hole, Long
Order.No	PLT08-0735-08CC	PLT10-0938-06CC
Scale 1:1		

• L-Type 0.8T



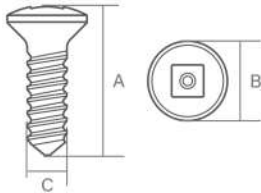
L x W	16.0 x 31.0	21.0x26.0
Description	6 Hole, Long	8 Hole
Order.No	PLT10-3116-06LL (Right) PLT10-3116-06LR (Left)	PLT10-2621-08LL (Right) PLT10-2621-08LR (Left)
Scale 1:1		

BiobSorb CMF System

BiobSorb 1.6 (Micro)



• Screw



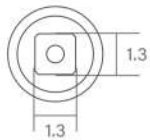
	4	5	6	8
A	4	5	6	8
B	3	3	3	3
C	∅1.6	∅1.6	∅1.6	∅1.6
Order.No	BSR1604-SQ14	BSR1605-SQ15	BSR1606-SQ	BSR1608-SQ
Scale 1:1	(x1ea)	(x1ea)	(x1ea)	(x1ea)
	BSR1604-SQ14	BSR1605-SQ15	BSR1606-SQ	BSR1608-SQ
	(x4ea)	(x4ea)	(x4ea)	(x4ea)

• Screw carrier



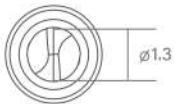
• Instrument for BiobSorb 1.6 Micro System Scale 1:1

- Screw Driver Shaft(□)



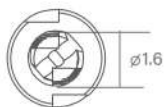
CMF-1440-DV		57mm
CMF-1460-LDV		77mm

- Drill Bit



CMF-1604-DR		70mm
CMF-1606-DR		70mm
CMF-1608-DR		70mm

- Tap

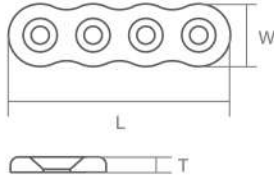


CMF-1606-STA		70mm
CMF-1608-STA-1		70mm
CMF-1608-STA-2		100mm

BiobSorb CMF System

BiobSorb 2.0 (Mini)

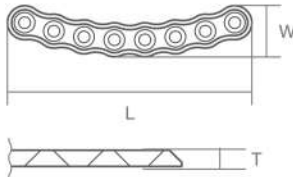
• Straight 1.2T



L x W	21.0 x 5.5	24.0 x 6.0	29.0 x 6.0
Description	4 Hole	4 Hole, Long	4 Hole, Long
Order.No	PLT15-0521-04ST	PLT15-0624-04ST	PLT15-0629-04ST
Scale 1:1			

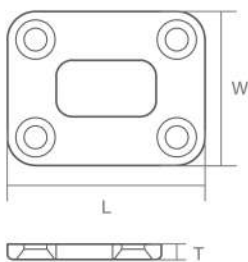
L x W	31.0 x 5.5
Description	6 Hole
Order.No	PLT15-0531-06ST
Scale 1:1	

• Curved 1.2T



L x W	40.0 x 9.0
Description	6 Hole
Order.No	PLT15-0940-06CC
Scale 1:1	

• Square 1.2T



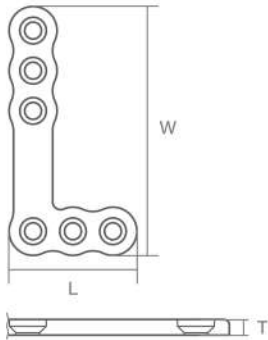
L x W	18.2 x 14.2	25.0 x 15.0
Description	4 Hole	8 Hole
Order.No	PLT15-1418-04ST	PLT15-1525-08ST
Scale 1:1		

BiobSorb CMF System

BiobSorb 2.0 (Mini)

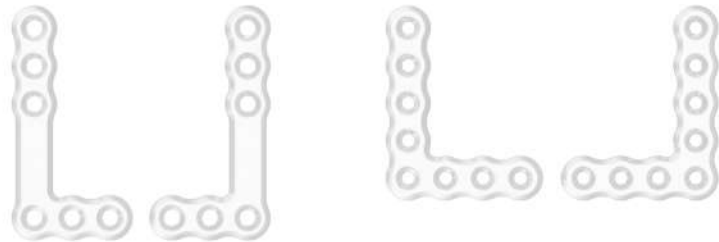


• L-Type 1.2T

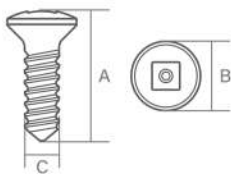


L x W	16.0 x 31.0	20.7 x 25.4
Description	6 Hole, Long	8 Hole
Order.No	PLT15-3116-06LL(Right) PLT15-3116-06LR(Left)	PLT15-2520-08LL(Right) PLT15-2520-08LR(Left)

Scale 1:1



• Screw

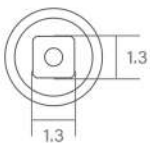


A	5	6	8	10
B	3	3	3	3
C	∅2.0	∅2.0	∅2.0	∅2.0
Order.No	BSR2005-SQ (x1ea) BSR2005-SQ (x4ea)	BSR2006-SQ (x1ea) BSR2006-SQ (x4ea)	BSR2008-SQ (x1ea) BSR2008-SQ (x4ea)	BSR2010-SQ (x1ea) BSR2010-SQ (x4ea)

• Instrument for BiobSorb 2.0 Mini System

Scale 1:1

- Screw Driver Shaft(□)



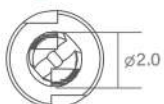
CMF-1440-DV		57mm
CMF-1460-LDV		77mm

- Drill Bit



CMF-2006-DR		70mm
CMF-2008-DR		70mm
CMF-2010-DR-1		70mm
CMF-2010-DR-2		100mm

- Tap

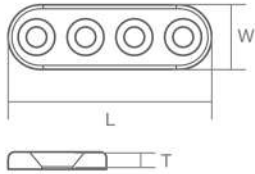


CMF-2010-STA-1		70mm
CMF-2010-STA-2		100mm

BiobSorb CMF System

BiobSorb 2.4 (Mini)

• Straight 1.4T

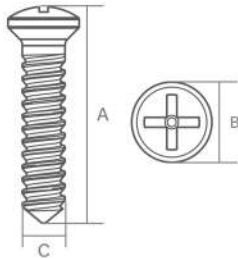


L x W	25.0 x 8.0	37.0 x 8.0
Description	4 Hole	6 Hole
Order.No	PLT14-0825-04ST	PLT14-0837-06ST

Scale 1:1



• Screw



A	6	8	12	14
B	4	4	4	4
C	Ø2.4	Ø2.4	Ø2.4	Ø2.4
Order.No	BSR2406-PG	BSR2408-PG	BSR2412-PG	BSR2414-PG

Scale 1:1



• Instrument for BiobSorb 2.4 Recon System

Scale 1:1

- Screw Driver Shaft(+)

CMF-1620-DV 90mm



- Drill Bit

CMF-2406-DR 70mm



CMF-2408-DR 70mm



CMF-2416-DR 70mm



- Tap

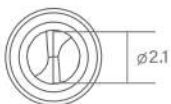
CMF-2406-STA 70mm



CMF-2408-STA 70mm



CMF-2416-STA 70mm



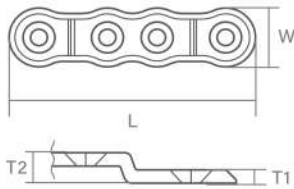
BiobSorb CMF System

BiobSorb Customazing Plate



• Prebent-S/T

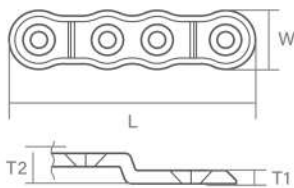
T1-0.8 T2-1.8



L x W	20.6 x 6.0	24.8 x 6.0
Description	4 Hole	4 Hole
Order.No	PBP08-2006-04SB	PBP08-2406-04SB
Scale 1:1		

• Prebent-S/T

T1-0.8 T2-3.1



L x W	26.5 x 6.0
Description	4 Hole
Order.No	PBP08-2606-04SB
Scale 1:1	

• Nasal-Square

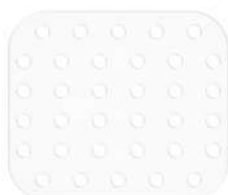
L x W	30.0 x 7.0
Description	120 Hole / \varnothing 0.8
Order.No	NST05-0730-120RE NST10-0730-120RE

0.5T, 0.8T
Scale 1:1



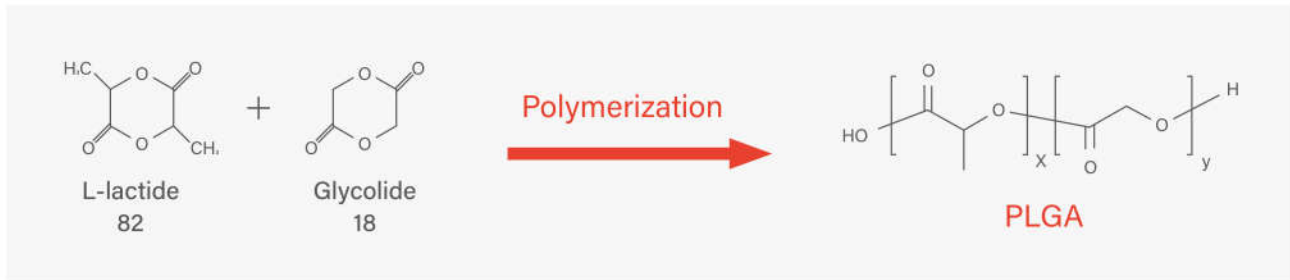
L x W	29.0 x 25.0	29.0 x 25.0
Description	34 Hole / \varnothing 1.7	460 Hole / \varnothing 0.8
Order.No	NST03-2925-34RE	NST03-2925-460RE

0.3T
Scale 1:1



BiobSorb Mesh Plating System

Materials



BiobSorb α

• General Mesh Plat 0.4T

L x W 40 x 40
Description 36 Hole / ϕ 1.7
Order.No BMP04-4040-36RE

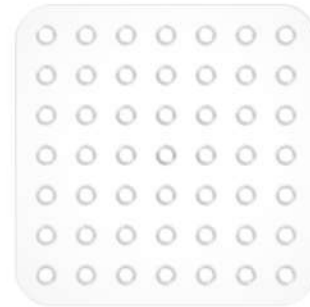
Scale 1:1



• General Mesh Plat 0.5T

L x W 40 x 40
Description 49 Hole / ϕ 1.7
Order.No BMP05-4040-49RE

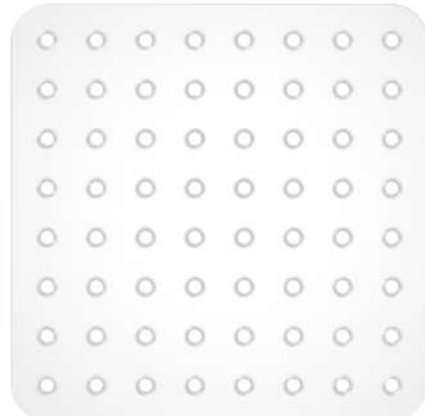
Scale 1:1



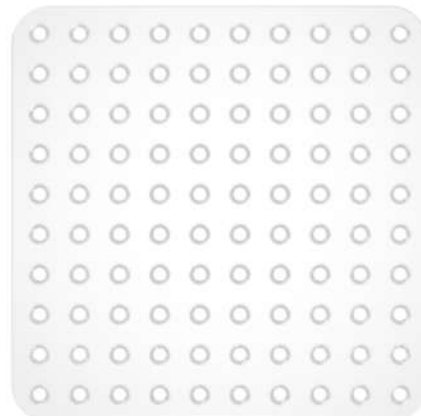
• General Mesh Plat 0.5T

L x W 55 x 55(0.8T)
Description 64 Hole / ϕ 1.7
Order.No BMP08-5555-64RE

Scale 1:1

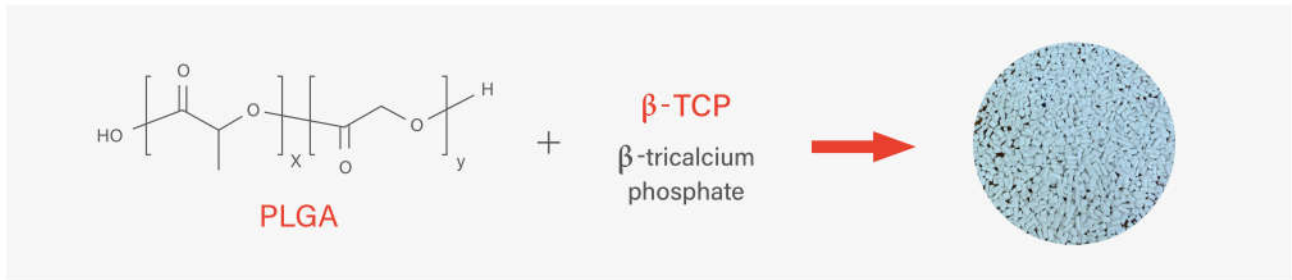


L x W 55 x 55
Description 100 Hole / ϕ 1.7
Order.No BMP05-5555-100RE




BiobSorb Mesh Plating System

Materials

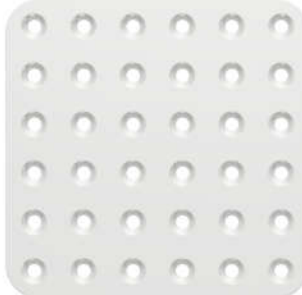


BiobSorb β

• General Mesh Plat 0.4T

	40 x 40	40 x 40	40 x 40
Description	36 Hole / \varnothing 1.7	0 Hole	49 Hole / \varnothing 1.7
Order.No	CMP04-4040-36RE	CMP04-4040-00RE	CMP04-4040-49RE
Scale 1:1			

• General Mesh Plat 0.8T

Description	36 Hole / \varnothing 1.7
Order.No	CMP08-4040-36RE
Scale 1:1	

Instrument

• Hand Body for Driver Shaft

IOC-016
Length : 108.9mm



• Cutter

IOC-040
Length : 110.0mm



• Forcep

Y4K.56010
Length : 156.0mm



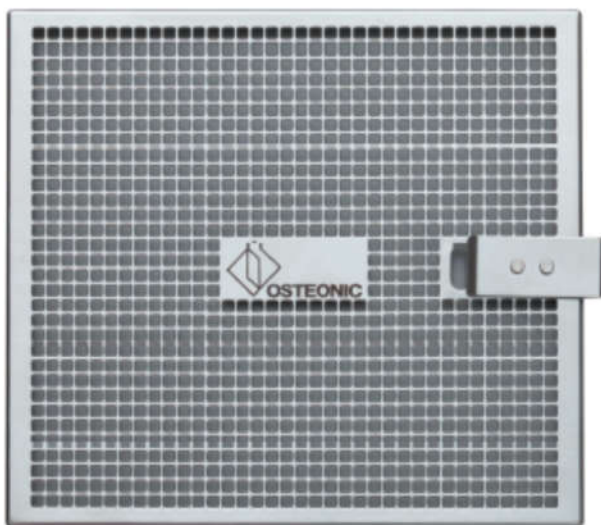
• Bender(2ea/set)

IOC-070
Length : 150.0mm



• Biobsorb Tray

FB-TIA-001 198 x 173



Instrument

• Screw Driver Shaft (+)

CMF-1620-DV



• Screw Driver Shaft (□)

CMF-1440-DV



CMF-1460-LDV



• Shaft & Drill Bit Case

IOC-201 124 x 37



• Drill Bit

L
Ø1.3

4



CMF-1604-DR

6



CMF-1606-DR

8



CMF-1608-DR

L
Ø1.7

6



CMF-2006-DR

8



CMF-2008-DR

10



CMF-2010-DR-1(L:70mm)
CMF-2010-DR-2(L:100mm)

L
Ø2.1

6



CMF-2406-DR

8



CMF-2408-DR

16



CMF-2416-DR

• Tap

L
Ø1.6

6



CMF-1606-STA

8



CMF-1608-STA-1(L:70mm)
CMF-1608-STA-2(L:100mm)

L
Ø2.0

10



CMF-2010-STA-1(L:70mm)
CMF-2010-STA-2(L:100mm)

L
Ø2.4

6



CMF-2406-STA(L:70mm)

8



CMF-2408-STA(L:70mm)

16



CMF-2416-STA(L:70mm)



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