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双羊®

MAXILLOFACIAL INTERNAL FIXATION SYSTEM

颌面内固定系统

第五代颌面产品

The Fifth Generation

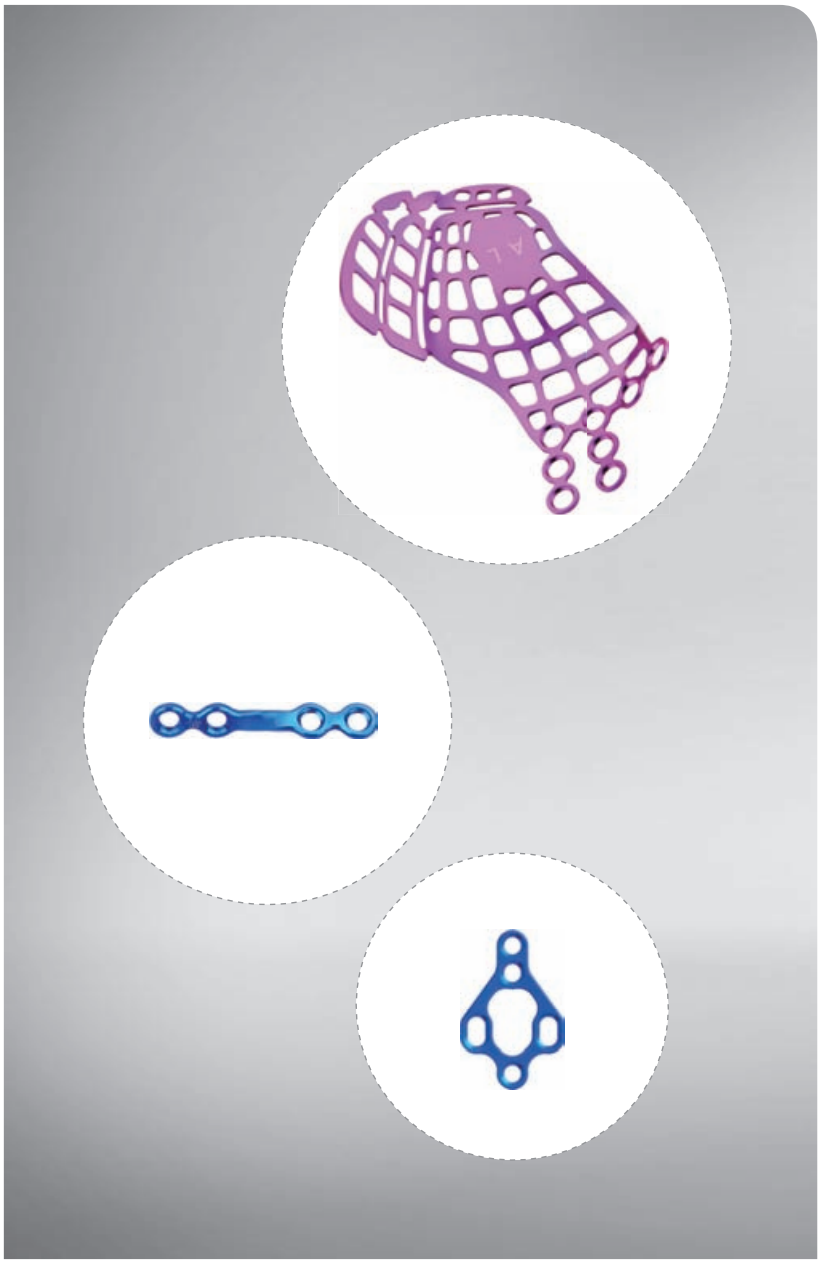
Maxillofacial Product

更注重解剖型设计

提供锁定和非锁定两种固定方式

Pay more attention to anatomical design

Provide locking and non-locking two fixed type



江苏双羊医疗器械有限公司

Jiangsu Shuangyang
Medical Instrument Co., Ltd.

企业简介
Company Introduction

江苏双羊医疗器械有限公司，创建于 2001 年，占地面积 18000 平方米，建筑面积 15000 多平方米，注册资金 2000 万。是一家从事骨科植入物产品的研发、制造、销售和服务的民族企业，获得多项国家级专利。

公司选择钛及钛合金为原材料，严把质量关，选择国内外知名企业宝钛、ZAPP 等作为原材料供应商，并配备世界一流的加工中心、纵切车床、数控铣床、超声波清洗等生产设备和装置，以及万能试验机、电子扭转机、数字投影仪等精密的量具。公司拥有完善的管理体系，先后通过了 ISO9001：2015 质量管理体系认证，ISO13485:2016 医疗器械质量管理体系认证，TUV 的 CE 认证，并于 2007 年率先通过国家局组织的《医疗器械生产质量管理规范植入性医疗器械实施细则（试点）》检查。

公司针对人体各个骨骼部位的特点，在著名骨科专家、教授、临床医师的悉心指导与帮助下，推出众多主导产品：锁定接骨板固定系统、钛质接骨板固定系统、钛质空心接骨螺钉及垫片、钛质胸肋骨系统、锁定颌面内固定系统、颌面内固定系统、钛质捆绑系统、解剖型钛网系统、基础工具系列等，并拥有专业的配套手术器械包，以满足临床不同的需求。公司的产品因设计可靠、加工精细、医生临床使用方便、患者愈合期短而受到了许多临床医师和患者的高度评价。

中国梦，双羊梦！双羊作为一个有使命感、有责任心、有抱负、有人文情怀的公司的初衷不会变，始终以“以人为本，诚信至上，不断创新，追求卓越”的理念不会变，争创医疗器械领域民族品牌领头羊的决心不会变。愿更多有志者与双羊共同创造美好的未来！

Jiangsu Shuangyang Medical Instrument Co., Ltd. was founded in 2001, covers an area of 18,000 m^2, including a floor area of over 15,000 m^2. Its registered capital reaches 20 million Yuan. As a national enterprise dedicated to the R&D, manufacturing, sales and service of orthopaedic implants, we have obtained several national patents.

Titanium and titanium alloys are our raw materials. We perform strict quality control, and select domestic and international famous brands, such as Baoti and ZAPP, as our raw material suppliers. Meanwhile, we are equipped with world class production equipment and devices including machining center, slitting lathe, CNC milling machine, and ultrasonic cleaner, etc., as well as precise measuring implements including universal tester, electronic torsion tester and digital projector, etc. Thanks to a sophisticated management system, we have acquired ISO9001: 2015 Certificate of Quality Management System, ISO13485:2016 Certificate of Quality Management System for Medical Devices, and CE certificate of TUV. We are also the first to pass the inspection according to the *Enforcement Regulation (Pilot) for Implantable Medical Devices of Good Manufacturing Practice for Medical Devices* organized by the National Bureau in 2007.

Thanks to meticulous guidance and supports from distinguished orthopaedic specialists, professors and clinicians, we have launched numerous leading products customized for different human skeletal parts, including locking bone plate fixation system, titanium bone plate fixation system, titanium cannulated bone screw & gasket, titanium sternocostal system, locking maxillofacial internal fixation system, maxillofacial internal fixation system, titanium binding system, anatomic titanium mesh system, and basic tool series, etc. We also have professional supporting surgical instrument sets to meet various clinical needs. Extensive acclaims have been received from clinicians and patients for our easy-to-use products with reliable design and fine machining, which can bring a short healing period.

China dream and Shuangyang dream! We will stick to our original intention to be a mission-driven, responsible, ambitious and humanistic company, and adhere to our idea of “people orientation, integrity, innovation, and excellence”. We are determined to be a leading national brand in the medical Instrument industry. At Shuangyang, we always welcome aspiring talents to co-create a bright future with us.

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产品介绍
Product Features

- 接骨板采用特殊定制的德国萨普纯钛为原材料，晶粒度分布更均匀，生物相容性好且不影响 MRI/CT 检查
- 接骨板采用表面阳极氧化工艺，提高材料的表面硬度和耐磨性
- 接骨板孔采用下沉孔设计，板钉结合更紧密，切迹更低，减少软组织不适感
- 接骨板边缘设计圆钝，减少对软组织的刺激
- 不同系列产品以不同颜色标记，便于临床医师操作（采用阳极氧化工艺，不同厚度的氧化层折射出不同的颜色）

- Bone plate adopt special customized German ZAPP pure titanium as raw material, with good biocompatibility and more uniform grain size distribution. Don't affect MRI/CT examination
- Bone plate surface adopt anodizing technology, can enhance surface hardness and abrasive resistance
- Plate hole has concave design, plate and screw can combine more closely with lower incisures, reduce the soft tissue discomfort
- Bone plate’s edge is smooth, reduce the stimulation to soft tissue
- Different series products with different colors, convenient for clinician operation (adopt anodizing technology, different thickness of anodized layer will reflect different color)

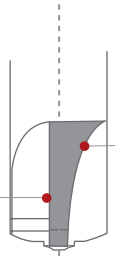
螺 钉 Screws

- 选用进口定制医用钛合金棒料，达到最佳的硬度和最优的柔韧度
- 世界一流的瑞士 TONRNOS 数控自动纵切削车床一次性加工成型
- 表面采用独特氧化工艺，增加螺钉表面硬度和耐磨性
- 各系列螺钉共用一把改锥，改锥采用自抓式设计，有效防止螺钉松脱现象
- 锁定螺钉不会出现螺钉松脱现象，确保固定稳定性

- Select imported customized medical titanium alloy bar, achieve the top hardness and flexibility
- The world-class Swiss CNC automatic longitudinal cutting lathe, one-time machine-shaping
- Screw surface adopt unique anodizing technology, can enhance screw surface hardness and abrasive resistance
- Screws of all series can share one screwdriver. With self-hold design, effectively prevent the screw loose phenomenon
- Locking screw will not loose absolutely, guarantee the stability of fixation

01

创新的锥头直角驱动面设计，确保最优力矩，使上钉轻松容易。
Innovative conical right-angle driven design, to ensure optimal moment and screw in easily.

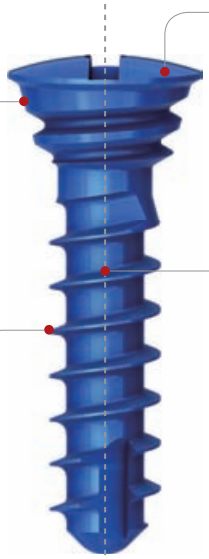


02

创新的斜坡型锥头设计，确保良好的吸钉力。
Innovative slope conical design ensure good self-hold appearance.

03

螺钉根部特有的加强设计有效防止断钉。
Root of the screw has special reinforce design to effectively prevent screw broken.



04

螺钉帽头专利驱动设计，增强螺钉驱动力矩，减少螺钉滑牙现象。
The patent driver design of screw head can enhance the screw driving torque and reduce the screw loose phenomenon.

05

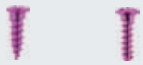
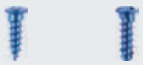
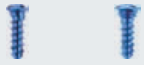
抗拔出螺牙角度设计，确保螺钉的把持力。
Screw teeth have anti-pull angle design, ensure the pullout strength of the screw.

06

特有的同心度控制，确保进钉容易，上钉轻松。
Special concentricity control can ensure screwing in easily.

产品规格表 Product Specification

配套螺钉： Φ1.5 螺钉 Φ2.0 螺钉 Φ2.4 螺钉

系列 Series	型号 Model	部位 Indication	颜色 Color	正反面 Reversible design	板厚 (mm) Thickness	配套螺钉 Matching screw	医用钻头 Medical drill bit
颌面创伤系列 Maxillofacial trauma series	颌面微型 Maxillofacial micro plate			No	0.6	 自钻钉 Self-drilling screw 自攻钉 Self-tapping screw	Φ1.1x8.5x48mm
	颌面小型 Maxillofacial mini plate			No	0.8	 自钻钉 Self-drilling screw 自攻钉 Self-tapping screw	Φ1.6x12x48mm
				No	1.0		
锁定颌面创伤系列 Locking maxillofacial trauma series	锁定颌面微型（一孔双钉） Locking maxillofacial micro plate (one hole select two kinds of screw)			Yes	0.6	自钻钉 Self-drilling screw 自攻钉 Self-tapping screw 锁定钉 Locking screw	Φ1.1x8.5x48mm
	锁定颌面小型（一孔双钉） Locking maxillofacial mini plate (one hole select two kinds of screw)			Yes	0.8	自钻钉 Self-drilling screw 自攻钉 Self-tapping screw 锁定钉 Locking screw	Φ1.6x12x48mm
				Yes	1.0		
				No	1.4	 自攻钉 Self-tapping screw 锁定钉 Locking screw	Φ1.6x20x78mm

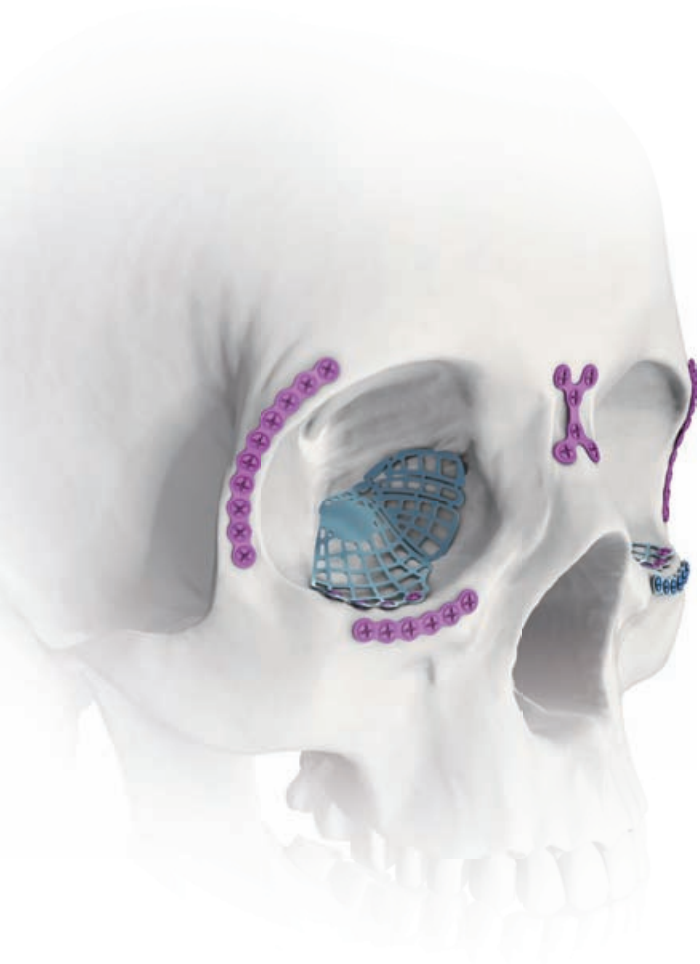
系列 Series	型号 Model	部位 Indication	颜色 Color	正反面 Reversible design	板厚 (mm) Thickness	配套螺钉 Matching screw	医用钻头 Medical drill bit
正颌手术专用固定系列 Orthognathic series	L 形 4 孔 L 形 6 孔 解剖 L 形 6 孔 L-plate 4 holes L-plate 6 holes Anatomical L-plate 6 holes			No	0.6	自钻钉 Self-drilling screw 自攻钉 Self-tapping screw	Φ1.1x8.5x48mm
	L 形 4 孔 L 形 6 孔 解剖 L 形 6 孔 工字形 5 孔 L-plate 4 holes L-plate 6 holes Anatomical L-plate 6 holes Genioplasty 5 holes			Yes	0.8	自钻钉 Self-drilling screw 自攻钉 Self-tapping screw	Φ1.6x12x48mm
	L 形 4 孔 L 形 6 孔 解剖 L 形 6 孔 矢状劈开固定板 4 孔 矢状劈开固定板 6 孔 L-plate 4 holes L-plate 6 holes Anatomical L-plate 6 holes Sagittal split plate 4 holes Sagittal split plate 6 holes			Yes	1.0		
颌面重建系列 Maxillofacial reconstruction series	颌面重建型 Maxillofacial reconstruction plate			No	2.4	自攻钉 Self-tapping screw	Φ1.9x22x58mm
	锁定颌面重建平板型 （螺纹导向） Locking maxillofacial reconstruction plate (thread guide)			No	2.4	锁定钉 Locking screw	Φ1.7x57x82mm
	锁定颌面重建解剖型 （一孔双钉） Locking maxillofacial anatomical plate (one hole select two kinds of screw)			No	2.4	自攻钉 Self-tapping screw 锁定钉 Locking screw	Φ1.9x57x82mm

解剖型眶底网板 Anatomical Orbital Floor Plate

适用部位 Indication

专为颌面部眶周、眶底创伤和修复重建而设计，目的在于恢复正常的外眼形态和眼功能。

Special design for the trauma and reconstruction of orbit, to recover normal eye shape and function



产品特点 Product Features

- 根据眶底和眶内侧壁解剖结构设计而成，有效避开视神经孔等重要结构
- 解剖型、分叶状设计，尽可能减少了塑形工作量，有效恢复眶腔骨质延续性，节省手术时间，降低手术创伤，术后并发症少
- 眼眶内下壁因骨壁薄如纸，故在眶底钛网的后部保留了硬区，有助于使嵌顿的眼球组织和脂肪复位，恢复眶腔体积和眼球活动，改善眼球陷没和复视。
- According to the anatomy of the orbital floor and orbital wall structure design, effectively avoid the optic hole and other important structures
- Anatomy, lobulated design, as far as possible to reduce the workload of shaping, effectively restore the orbital cavity bone continuity, saves the operation time, reduce the surgical trauma, less postoperative complications
- Lower orbital wall is as thin as paper, therefore, retain the hard area in the rear of orbital floor titanium mesh. Help reset the incarcerated eyeball tissue and fat, restore the orbital cavity volume and eye movements, improve eye subsidence and diplopia.

板厚 Thickness	订货编码 Product Code	规格 Specification	
0.4mm	12.09.0411.303041	左 L	30*30mm（小号）
	12.09.0411.303042	右 R	
0.5mm	12.09.0411.303001	左 L	
	12.09.0411.303002	右 R	

板厚 Thickness	订货编码 Item No.	规格 Specification	
0.4mm	12.09.0411.343643	左 L	34*36mm（大号）
	12.09.0411.343644	右 R	
0.5mm	12.09.0411.343603	左 L	
	12.09.0411.343604	右 R	

Φ1.5 自钻钉 Self-drilling screw

订货编码 Item No.	规格 Specification
11.07.0115.004114	1.5x4mm
11.07.0115.005114	1.5x5mm
11.07.0115.006114	1.5x6mm

颌面创伤系列 Maxillofacial Trauma Series

颌面微型 Maxillofacial micro plate

适用部位：额部、鼻部、眶部、颧部、上颌区域、小儿颅面骨
Indication: Frontal part, nasal part, pars orbitalis, pars zygomatica, maxilla region, pediatric craniofacial bone

钛板厚度 Plate thickness
0.6mm / 纯钛 Pure titanium

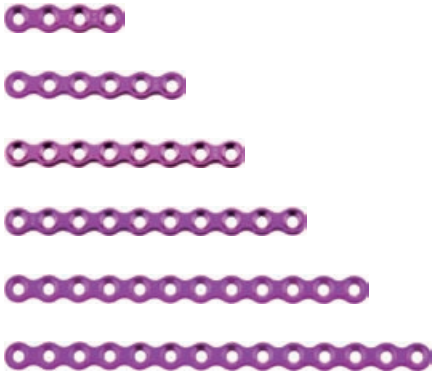
10.01.01.04021000
X 形 4 孔　14mm
X-plate 4 holes

10.01.01.04023000
矩形 4 孔　14*14mm
Rectangular plate 4 holes

10.01.01.04011020
直形桥 4 孔　20mm
Straight bridge 4 holes

直形 Straight

订货编码 Item No.	规格 Specification	
10.01.01.04011015	4 孔	16mm
10.01.01.06011000	6 孔	24mm
10.01.01.08011000	8 孔	32mm
10.01.01.10011000	10 孔	40mm
10.01.01.12011000	12 孔	48mm
10.01.01.14011000	14 孔	56mm



弧形 Arc plate

订货编码 Item No.	规格 Specification	
10.01.01.06013000	6 孔	23mm
10.01.01.08013000	8 孔	30mm
10.01.01.10013000	10 孔	37mm
10.01.01.12013000	12 孔	43mm

90° L 形 (L-plate)

订货编码 Item No.	规格 Specification		
10.01.01.04115000	左 L	4 孔	16mm
10.01.01.04215000	右 R	4 孔	16mm

110° L 形 (L-plate)

订货编码 Item No.	规格 Specification		
10.01.01.04116000	左 L	4 孔	16mm
10.01.01.04216000	右 R	4 孔	16mm
10.01.01.05116000	左 L	5 孔	20mm
10.01.01.05216000	右 R	5 孔	20mm

双 Y 形 Double Y-plate

订货编码 Item No.	规格 Specification	
10.01.01.06021000	6 孔	17mm

T 形 T-plate

订货编码 Item No.	规格 Specification	
10.01.01.05019000	5 孔	16mm
10.01.01.07019000	7 孔	24mm

Y 形 Y-plate

订货编码 Item No.	规格 Specification	
10.01.01.06020000	6 孔	24mm
10.01.01.07020000	7 孔	28mm

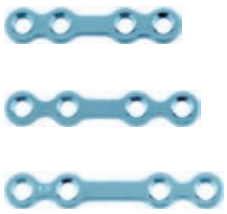
颌面小型 Maxillofacial mini plate

适用部位： 鼻部、眶部、颧部、上颌区域
Indication: Nasal part, pars orbitalis, pars zygomatica, maxilla region

钛板厚度 Plate thickness
0.8mm / 纯钛 Pure titanium

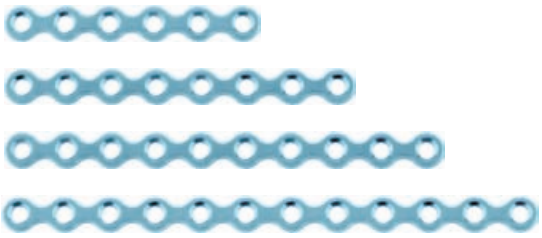
直形桥 Straight bridge

订货编码 Item No.	规格 Specification	
10.01.09.04011023	4 孔	23mm
10.01.09.04011026	4 孔	26mm
10.01.09.04011029	4 孔	29mm



直形 Straight

订货编码 Item No.	规格 Specification	
10.01.09.06011000	6 孔	35mm
10.01.09.08011000	8 孔	47mm
10.01.09.10011000	10 孔	59mm
10.01.09.12011000	12 孔	71mm

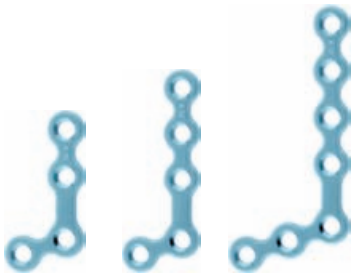


弧形 Arc plate

订货编码 Item No.	规格 Specification	
10.01.09.06013000	6 孔	34mm
10.01.09.08013000	8 孔	44mm

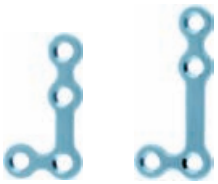
110° L 形 (L-plate)

订货编码 Item No.	规格 Specification		
10.01.09.04116000	左 L	4 孔	19mm
10.01.09.04216000	右 R	4 孔	19mm
10.01.09.05116000	左 L	5 孔	25mm
10.01.09.05216000	右 R	5 孔	25mm
10.01.09.07116000	左 L	7 孔	31mm
10.01.09.07216000	右 R	7 孔	31mm



90° L 形 (L-plate)

订货编码 Item No.	规格 Specification		
10.01.09.04115020	左 L	4 孔	19mm
10.01.09.04215020	右 R	4 孔	19mm
10.01.09.04115024	左 L	4 孔	23mm
10.01.09.04215024	右 R	4 孔	23mm



双 Y 形 Double Y-plate

订货编码 Item No.	规格 Specification	
10.01.09.06021000	6 孔	22mm

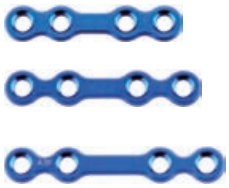
颌面小型 Maxillofacial mini plate

适用部位：鼻部、眶部、颧部、上颌区域、下颌骨（简单和稳定的创伤）
Indication: Nasal part, pars orbitalis, pars zygomatica, maxilla region, mandible (simple and stable trauma)

钛板厚度 Plate thickness
1.0mm / 纯钛 Pure titanium

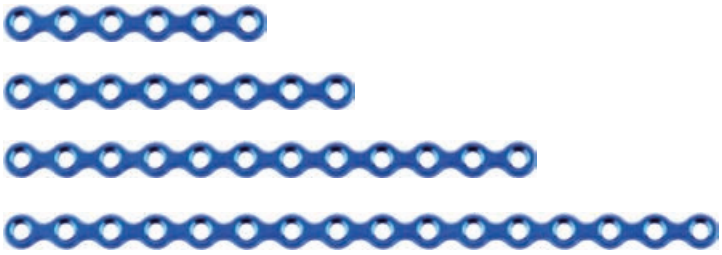
直形桥 Straight bridge

订货编码 Item No.	规格 Specification	
10.01.03.04011023	4 孔	23mm
10.01.03.04011026	4 孔	26mm
10.01.03.04011029	4 孔	29mm



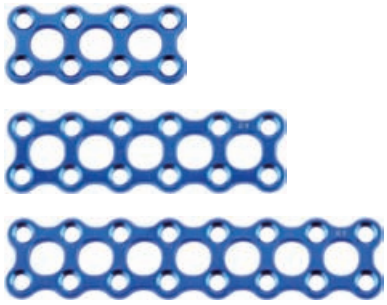
直形 Straight

订货编码 Item No.	规格 Specification	
10.01.03.06011000	6 孔	35mm
10.01.03.08011000	8 孔	47mm
10.01.03.12011000	12 孔	71mm
10.01.03.16011000	16 孔	95mm



矩形 Rectangle

订货编码 Item No.	规格 Specification	
10.01.03.08023000	8 孔	24mm
10.01.03.12023000	12 孔	37mm
10.01.03.16023000	16 孔	50mm

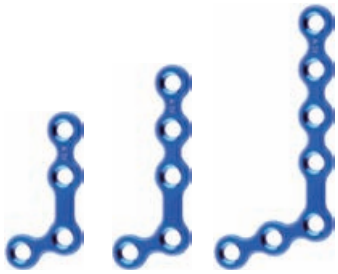


双 Y 形 Double Y-plate

订货编码 Item No.	规格 Specification	
10.01.03.06021000	6 孔	22mm

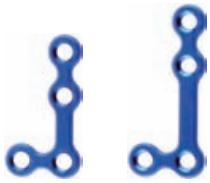
110° L 形 (L-plate)

订货编码 Item No.	规格 Specification		
10.01.03.04116000	左 L	4 孔	19mm
10.01.03.04216000	右 R	4 孔	19mm
10.01.03.05116000	左 L	5 孔	25mm
10.01.03.05216000	右 R	5 孔	25mm
10.01.03.07116000	左 L	7 孔	31mm
10.01.03.07216000	右 R	7 孔	31mm



90° L 形 (L-plate)

订货编码 Item No.	规格 Specification		
10.01.03.04115020	左 L	4 孔	19mm
10.01.03.04215020	右 R	4 孔	19mm
10.01.03.04115024	左 L	4 孔	23mm
10.01.03.04215024	右 R	4 孔	23mm



10.01.03.04013000
弧形桥 4 孔 24mm
Arc bridge plate 4 holes

10.01.03.07013000
弧形 7 孔 39mm
Arc plate 7 holes

120° 弧形 (Arc plate)

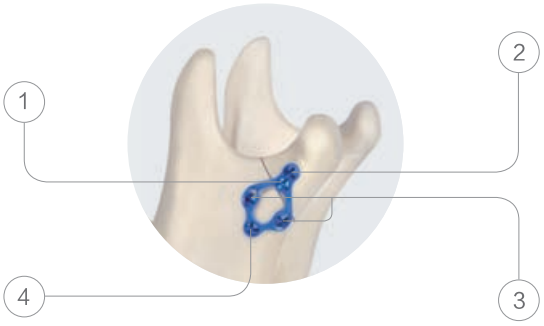
订货编码 Item No.	规格 Specification	
10.01.03.06017000	6 孔	32mm
10.01.03.08017000	8 孔	41mm

颌面小型（解剖型） Maxillofacial mini plate (Anatomical)

适用部位：下颌骨髁突骨折
Indication: mandibular condylar fracture

钛板厚度 Plate thickness
1.0mm / 纯钛 Pure titanium

10.01.03.05022000
钩形 5 孔　20 × 13mm
Hook-plate 5 holes



配套螺钉 Screws

钛合金 Titanium Alloy

Φ1.5mm 螺钉 Screw

自钻型
Self-drilling

订货编码 Item No.	规格 Specification
11.07.0115.004114	1.5x4mm
11.07.0115.005114	1.5x5mm
11.07.0115.006114	1.5x6mm

自攻型
Self-tapping

订货编码 Item No.	规格 Specification
11.07.0115.004113	1.5x4mm
11.07.0115.005113	1.5x5mm
11.07.0115.006113	1.5x6mm
11.07.0115.007113	1.5x7mm
11.07.0115.008113	1.5x8mm *

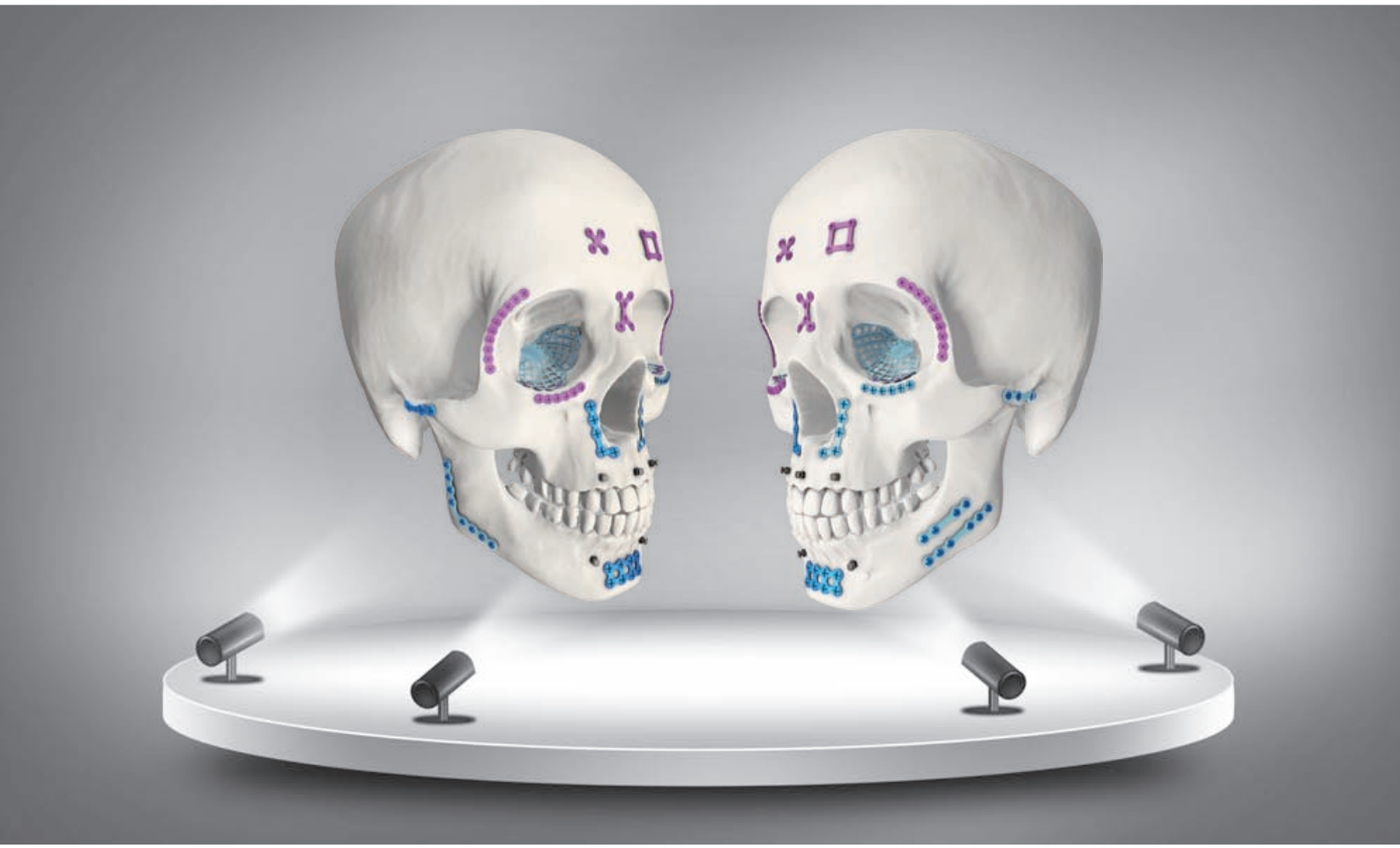
Φ2.0mm 螺钉 Screw

自钻型
Self-drilling

订货编码 Item No.	规格 Specification
11.07.0120.005114	2.0x5mm
11.07.0120.055114	2.0x5.5mm *
11.07.0120.007114	2.0x7mm
11.07.0120.009114	2.0x9mm *

自攻型
Self-tapping

订货编码 Item No.	规格 Specification
11.07.0120.055113	2.0x5.5mm
11.07.0120.007113	2.0x7mm
11.07.0120.009113	2.0x9mm
11.07.0120.011113	2.0x11mm



锁定颌面创伤系列

Locking Maxillofacial Trauma Series

产品特点 Product Features

- 锁定颌面微型和小型接骨板无正反面之分，左右可通用
- 锁定机制：挤压锁定技术
- 一孔双钉：可实现锁定与非锁定两种固定方式，为钉板之间的自由搭配提供可能，更好的满足临床需求，适应症更加广泛。

- Locking maxillofacial micro and mini plate can be used reversibly
- Locking mechanism: Squeeze locking technology
- One hole select two kinds of screw: locking and non-locking are all available, probabilize the free collocation of plates and screws, meet the demand of clinical indications better and more extensive indication

挤压锁定技术
Squeeze the embedded locking technology

锁定颌面微型 Locking maxillofacial micro plate

适用部位： 额部、鼻部、眶部、颧部、上颌区域、小儿颅面骨
Indication: Frontal part, nasal part, pars orbitalis, pars zygomatica, maxilla region, pediatric craniofacial bone

钛板厚度 Plate thickness
0.6mm / 纯钛 Pure titanium

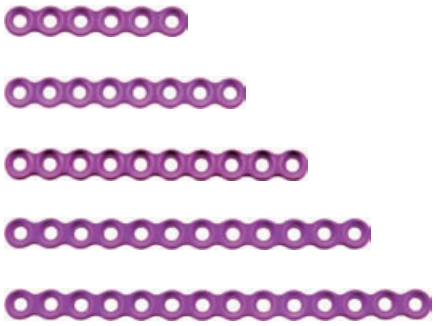
10.01.02.04021000
X 形 4 孔 14mm
X-plate 4 holes

10.01.02.04023000
矩形 4 孔 14*14mm
Rectangular plate 4 holes

10.01.02.04011000
直形桥 4 孔 20mm
Straight bridge 4 holes

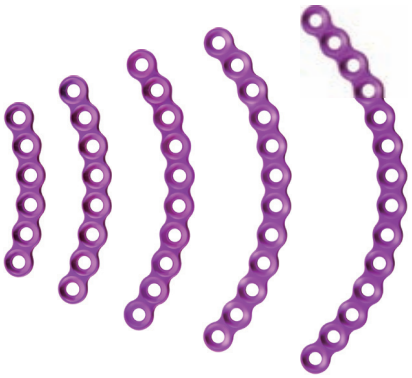
直形 Straight

订货编码 Item No.	规格 Specification	
10.01.02.06011000	6 孔	24mm
10.01.02.08011000	8 孔	32mm
10.01.02.10011000	10 孔	40mm
10.01.02.12011000	12 孔	48mm
10.01.02.14011000	14 孔	56mm



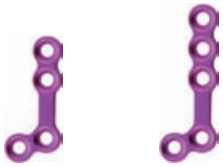
弧形 Arc plate

订货编码 Item No.	规格 Specification	
10.01.02.06013000	6 孔	24mm
10.01.02.08013000	8 孔	31mm
10.01.02.10013000	10 孔	38mm
10.01.02.12013000	12 孔	44mm
10.01.02.14013000	14 孔	49mm



110° L 形 (L-plate)

订货编码 Item No.	规格 Specification	
10.01.02.04016000	4 孔	16mm
10.01.02.05016000	5 孔	20mm



10.01.02.04015000

90° L 形 4 孔 16mm

90° L- plate 4 holes

10.01.02.06021000

双 Y 形 6 孔 17mm

Double Y- plate 6 holes

T 形 (T- plate)

订货编码 Item No.	规格 Specification	
10.01.02.05019000	5 孔	16mm
10.01.02.07019000	7 孔	24mm

Y 形 (Y- plate)

订货编码 Item No.	规格 Specification	
10.01.02.06020000	6 孔	24mm
10.01.02.07020000	7 孔	28mm

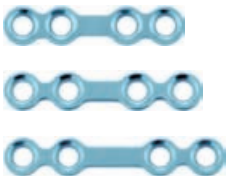
锁定颌面小型 Locking maxillofacial mini plate

适用部位： 鼻部、眶部、颧部、上颌区域
Indication: Nasal part, pars orbitalis, pars zygomatica, maxilla region

钛板厚度 Plate thickness
0.8mm / 纯钛 Pure titanium

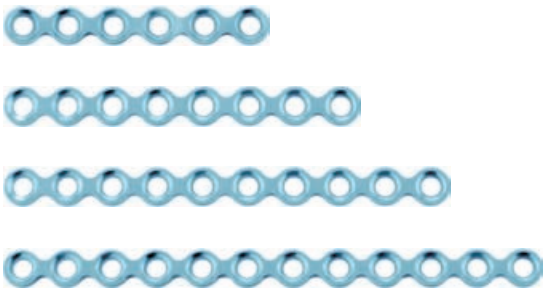
直形桥 Straight bridge

订货编码 Item No.	规格 Specification	
10.01.10.04011024	4 孔	24mm
10.01.10.04011026	4 孔	26mm
10.01.10.04011029	4 孔	29mm



直形 Straight

订货编码 Item No.	规格 Specification	
10.01.10.06011000	6 孔	35mm
10.01.10.08011000	8 孔	47mm
10.01.10.10011000	10 孔	59mm
10.01.10.12011000	12 孔	71mm

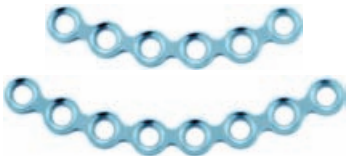


双 Y 形 Double Y-plate

订货编码 Item No.	规格 Specification	
10.01.10.06021000	6 孔	23mm

弧形 Arc-plate

订货编码 Item No.	规格 Specification	
10.01.10.06013000	6 孔	34mm
10.01.10.08013000	8 孔	45mm

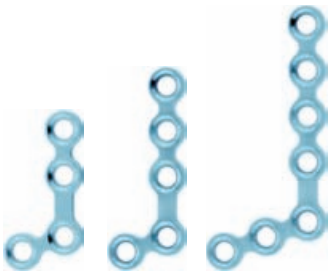


90° L 形 (L-plate)

订货编码 Item No.	规格 Specification	
10.01.10.04015020	4 孔	20mm
10.01.10.04015024	4 孔	24mm

110° L 形 (L-plate)

订货编码 Item No.	规格 Specification	
10.01.10.04016000	4 孔	19mm
10.01.10.05016000	5 孔	25mm
10.01.10.07016000	7 孔	31mm



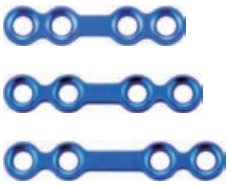
锁定颌面小型 Locking maxillofacial mini plate

适用部位： 鼻部、眶部、颧部、上颌区域、下颌骨（简单和稳定的创伤）
Indication: Nasal part, pars orbitalis, pars zygomatica, maxilla region, mandible (simple and stable trauma)

钛板厚度 Plate thickness
1.0mm / 纯钛 Pure titanium

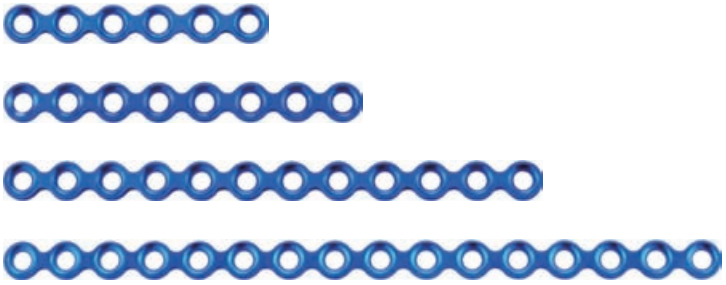
直形桥 Straight bridge

订货编码 Item No.	规格 Specification	
10.01.04.04011024	4 孔	24mm
10.01.04.04011026	4 孔	26mm
10.01.04.04011029	4 孔	29mm



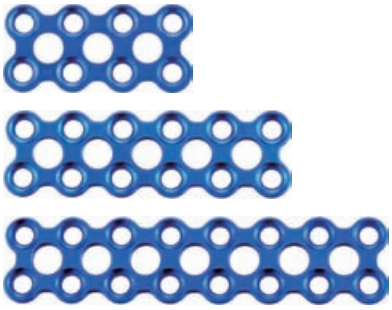
直形 Straight

订货编码 Item No.	规格 Specification	
10.01.04.06011000	6 孔	35mm
10.01.04.08011000	8 孔	47mm
10.01.04.12011000	12 孔	71mm
10.01.04.16011000	16 孔	95mm



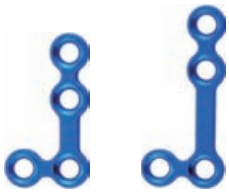
矩形 Rectangle

订货编码 Item No.	规格 Specification	
10.01.04.08023000	8 孔	25mm
10.01.04.12023000	12 孔	38mm
10.01.04.16023000	16 孔	51mm



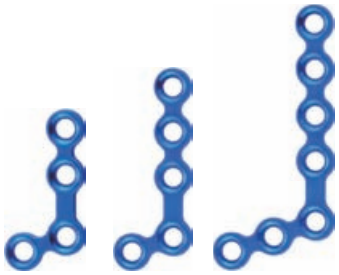
90° L 形 (L-plate)

订货编码 Item No.	规格 Specification	
10.01.04.04015020	4 孔	20mm
10.01.04.04015024	4 孔	24mm



110° L 形 (L-plate)

订货编码 Item No.	规格 Specification	
10.01.04.04016000	4 孔	19mm
10.01.04.05016000	5 孔	25mm
10.01.04.07016000	7 孔	31mm



10.01.04.06021000

双 Y 形 6 孔 23mm

Double Y-plate 6 holes

10.01.04.04013000

弧形桥 4 孔 24mm

Arc bridge 4 holes

10.01.04.07013000

弧形 7 孔 40mm

Arc plate 7 holes

120° 弧形 (Arc plate)

订货编码 Item No.	规格 Specification	
10.01.04.06014000	6 孔	32mm
10.01.04.08014000	8 孔	41mm

锁定颌面小型（解剖型） Locking maxillofacial mini plate (Anatomical)

适用部位： 磨牙后三角区牙槽嵴
Indication: Retromolar triangle alveolar ridge

钛板厚度 Plate thickness
1.0mm / 纯钛 Pure titanium

10.01.04.04111000

直形桥 4 孔左 29mm
Straight bridge left 4 holes

10.01.04.04211000

直形桥 4 孔右 29mm
Straight bridge right 4 holes

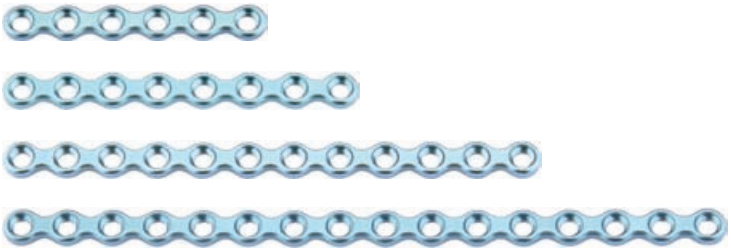
锁定颌面小型 Locking maxillofacial mini plate

适用部位： 下颌骨（稳定性较差的创伤）
Indication: Mandible (trauma with poor stability)

钛板厚度 Plate thickness
1.4mm / 纯钛 Pure titanium

直形 Straight

订货编码 Item No.	规格 Specification	
10.01.04.06011235	6 孔	35mm
10.01.04.08011200	8 孔	47mm
10.01.04.12011200	12 孔	71mm
10.01.04.16011200	16 孔	95mm



直形桥 Straight bridge

订货编码 Item No.	规格 Specification	
10.01.04.04011229	4 孔	29mm
10.01.04.06011241	6 孔	41mm

弧形桥 Arc bridge

订货编码 Item No.	规格 Specification	
10.01.04.04013200	4 孔	29mm
10.01.04.06013200	6 孔	40mm

120° 弧形 (Arc plate)

订货编码 Item No.	规格 Specification	
10.01.04.06014200	6 孔	32mm
10.01.04.08014200	8 孔	41mm

配套螺钉 Screws

Φ1.5 螺钉 Φ 1.5mm screw

钛合金 Titanium Alloy

自钻型
Self-drilling

订货编码 Item No.	规格 Specification
11.07.0115.004114	1.5x4mm
11.07.0115.005114	1.5x5mm
11.07.0115.006114	1.5x6mm

自攻型
Self-tapping

订货编码 Item No.	规格 Specification
11.07.0115.004113	1.5x4mm
11.07.0115.005113	1.5x5mm
11.07.0115.006113	1.5x6mm
11.07.0115.007113	1.5x7mm
11.07.0115.008113	1.5x8mm *

锁定钉
Locking screw

订货编码 Item No.	规格 Specification
11.06.0115.004113	1.5x4mm
11.06.0115.005113	1.5x5mm
11.06.0115.006113	1.5x6mm
11.06.0115.007113	1.5x7mm

配用 Matching: Φ1.1 医用钻头 , SW0.5 十字改锥 Φ1.1 medical drill bit, SW0.5 cross head screwdriver

Φ2.0 螺钉 Φ 2.0mm screw

钛合金 Titanium Alloy

自钻型
Self-drilling

订货编码 Item No.	规格 Specification
11.07.0120.005114	2.0x5mm
11.07.0120.055114	2.0x5.5mm*
11.07.0120.007114	2.0x7mm
11.07.0120.009114	2.0x9mm *

自攻型
Self-tapping

订货编码 Item No.	规格 Specification
11.07.0120.055113	2.0x5.5mm
11.07.0120.007113	2.0x7mm
11.07.0120.009113	2.0x9mm
11.07.0120.011113	2.0x11mm

锁定钉
Locking screw

订货编码 Item No.	规格 Specification
11.06.0120.055113	2.0x5.5mm
11.06.0120.007113	2.0x7mm
11.06.0120.009113	2.0x9mm
11.06.0120.011113	2.0x11mm

配用 Matching: Φ1.6 医用钻头 , SW0.5 十字改锥 Φ1.6 medical drill bit, SW0.5 cross head screwdriver

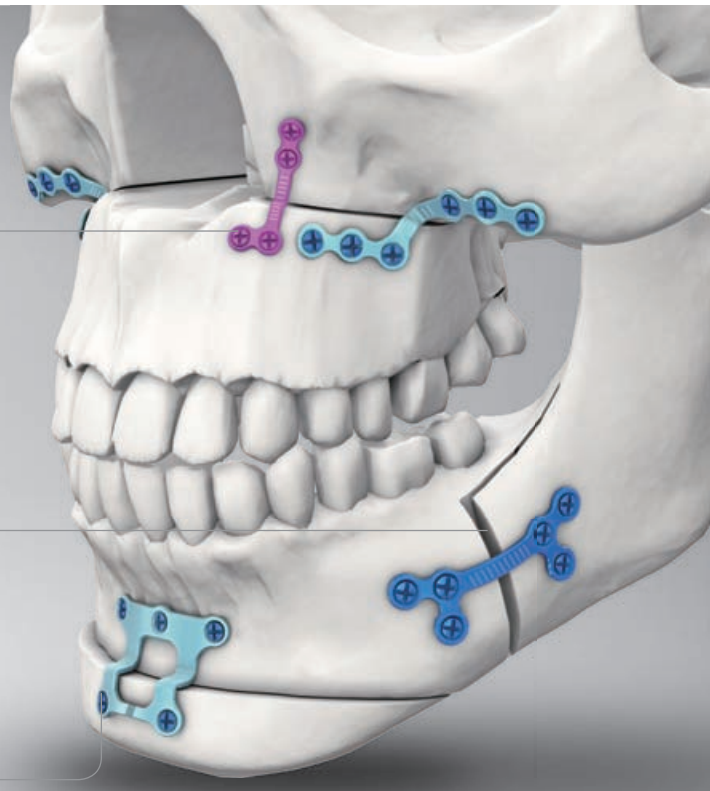
正颌手术专用固定系列
Orthognathic Series

产品特点 Product Features

- 固定板连接杆部位每隔 1mm 蚀刻有标记线，方便塑形
- 不同系列产品以不同颜色标记，便于临床医师操作

- Connect rod part of plate has line etching in every 1mm, easy moulding
- Different product with different color, convenient for clinician operation

适用部位 Indication



Lefort I 截骨术 Lefort I Osteotomy

适用于：	Apply to :
脸过长	long face
脸过短	short face
牙开合	open bite
上颌水平发育不足	hypoplasia of the maxilla
上颌水平突出	maxillary protrusion

矢状劈开截骨术 Sagittal Split Osteotomy

适用于：	Apply to :
反颌	underbite
下颌发育不足	hypoplasia of the mandible

颏成形术 Genioplasty

适用于：	Apply to :
改善控制上下唇的能力	improve the ability to conrtol lips
改善下巴外观	improve the appearance of jaw
改善阻塞性睡眠呼吸暂停综合症	improve obstructive sleep apnea syndrome(OSAS)

L 形 6 孔 L-plate 6 holes

钛板厚度 Plate thickness

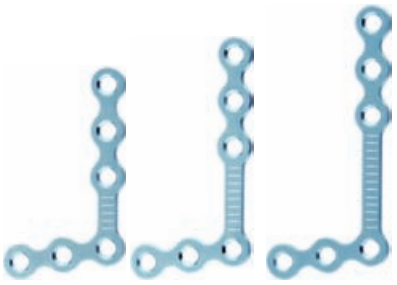
0.6mm / 纯钛 Pure titanium

订货编码 Item No.	规格 Specification		
10.01.07.06116004	左 L	S	22mm
10.01.07.06216004	右 R	S	22mm
10.01.07.06116008	左 L	M	26mm
10.01.07.06216008	右 R	M	26mm
10.01.07.06116012	左 L	L	30mm
10.01.07.06216012	右 R	L	30mm

钛板厚度 Plate thickness

0.8mm / 纯钛 Pure titanium

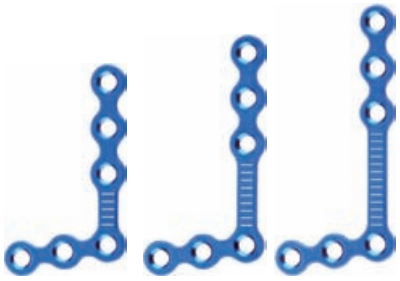
订货编码 Item No.	规格 Specification	
10.01.08.06016004	S	28mm
10.01.08.06016008	M	32mm
10.01.08.06016012	L	36mm



钛板厚度 Plate thickness

1.0mm / 纯钛 Pure titanium

订货编码 Item No.	规格 Specification	
10.01.08.06016104	S	28mm
10.01.08.06016108	M	32mm
10.01.08.06016112	L	36mm



解剖 L 形 6 孔 Anatomical L-plate 6 holes

钛板厚度 Plate thickness

0.6mm / 纯钛 Pure titanium

订货编码 Item No.	规格 Specification		
10.01.07.06113004	左 L	S	18mm
10.01.07.06213004	右 R	S	18mm
10.01.07.06113008	左 L	M	20mm
10.01.07.06213008	右 R	M	20mm
10.01.07.06113012	左 L	L	22mm
10.01.07.06213012	右 R	L	22mm

钛板厚度 Plate thickness

0.8mm / 纯钛 Pure titanium

订货编码 Item No.	规格 Specification	
10.01.08.06013004	S	22mm
10.01.08.06013008	M	24mm
10.01.08.06013012	L	25mm

钛板厚度 Plate thickness

1.0mm / 纯钛 Pure titanium

订货编码 Item No.	规格 Specification	
10.01.08.06013104	S	22mm
10.01.08.06013108	M	24mm
10.01.08.06013112	L	25mm

L 形 4 孔 L-plate 4 holes

订货编码 Item No.	规格 Specification		
10.01.07.04115004	左 L	S	16mm
10.01.07.04215004	右 R	S	16mm
10.01.07.04115008	左 L	M	20mm
10.01.07.04215008	右 R	M	20mm
10.01.07.04115012	左 L	L	24mm
10.01.07.04215012	右 R	L	24mm

钛板厚度 Plate thickness

0.6mm / 纯钛 Pure titanium

钛板厚度 Plate thickness

0.8mm / 纯钛 Pure titanium

订货编码 Item No.	规格 Specification	
10.01.08.04015004	S	20mm
10.01.08.04015008	M	24mm
10.01.08.04015012	L	28mm

钛板厚度 Plate thickness

1.0mm / 纯钛 Pure titanium

订货编码 Item No.	规格 Specification	
10.01.08.04015104	S	20mm
10.01.08.04015108	M	24mm
10.01.08.04015112	L	28mm

工字形 Genioplasty plate

钛板厚度 Plate thickness

0.8mm / 纯钛 Pure titanium

订货编码 Item No.	规格 Specification	
10.01.08.05024004	5 孔	4mm
10.01.08.05024006	5 孔	6mm
10.01.08.05024008	5 孔	8mm
10.01.08.05024010	5 孔	10mm

矢状劈开固定板 Sagittal split fixed plate

钛板厚度 Plate thickness
1.0mm / 纯钛 Pure titanium

订货编码 Item No.	孔数 Holes	连接杆 Bridge Length	长度 Total Length
10.01.08.04011106	4 孔	6mm	28mm
10.01.08.04011108	4 孔	8mm	30mm
10.01.08.04011110	4 孔	10mm	32mm
10.01.08.04011112	4 孔	12mm	34mm

订货编码 Item No.	孔数 Holes	连接杆 Bridge Length	长度 Total Length
10.01.08.06021106	6 孔	6mm	27mm
10.01.08.06021108	6 孔	8mm	29mm
10.01.08.06021110	6 孔	10mm	31mm
10.01.08.06021112	6 孔	12mm	33mm

配套螺钉 Screws

钛合金 Titanium Alloy

Φ1.5mm 螺钉 Screw

自钻型
Self-drilling

订货编码 Item No.	规格 Specification
11.07.0115.004114	1.5x4mm
11.07.0115.005114	1.5x5mm
11.07.0115.006114	1.5x6mm

自攻型
Self-tapping

订货编码 Item No.	规格 Specification
11.07.0115.004113	1.5x4mm
11.07.0115.005113	1.5x5mm
11.07.0115.006113	1.5x6mm
11.07.0115.007113	1.5x7mm
11.07.0115.008113	1.5x8mm *

配用 Matching: Φ1.1 医用钻头，SW0.5 十字改锥 Φ1.1 medical drill bit, SW0.5 cross head screwdriver

Φ2.0mm 螺钉 Screw

自钻型
Self-drilling

订货编码 Item No.	规格 Specification
11.07.0120.005114	2.0x5mm
11.07.0120.055114	2.0x5.5mm*
11.07.0120.007114	2.0x7mm
11.07.0120.009114	2.0x9mm*

自攻型
Self-tapping

订货编码 Item No.	规格 Specification
11.07.0120.055113	2.0x5.5mm
11.07.0120.007113	2.0x7mm
11.07.0120.009113	2.0x9mm
11.07.0120.011113	2.0x11mm

配用 Matching: Φ1.6 医用钻头，SW0.5 十字改锥 Φ1.6 medical drill bit, SW0.5 cross head screwdriver

颌面重建系列

Maxillofacial Reconstruction Series

产品特点 Product Features

- 重建接骨板孔距专为方便重建手术中的固定而设计，改善了特殊区域应力集中现象，提高了抗疲劳强度
- 锁定重建接骨板犹如内置的外固定支架，降低了下颌骨所承受的咬合力，使较为疏松的下颌骨也能得到理想的固定
- 一孔双钉：锁定颌面重建解剖型板可实现锁定与非锁定两种固定方式，锁定螺钉在固定骨块的同时和重建板牢固锁定，犹如内置的外固定支架，非锁定螺钉可成角及加压固定。

- Pitch-row of reconstruction plate is a specialized design for fixation during operation, improve the stress concentration phenomenon in the specific area and fatigue strength.
- Locking reconstruction plate is like built-in external fixation support,reduce mandible bite force, get an ideal fixation even on osteoporotic mandible.
- One hole select two kinds of screw: Locking maxillofacial reconstruction anatomical plate can realize two fixed methods: locked and non-locked. Locking screw fixed bone block and at the same time firm lock the plate,like built-in external fixation support. Non-locking screw can make an angle and compression fixation.

适用部位 Indication

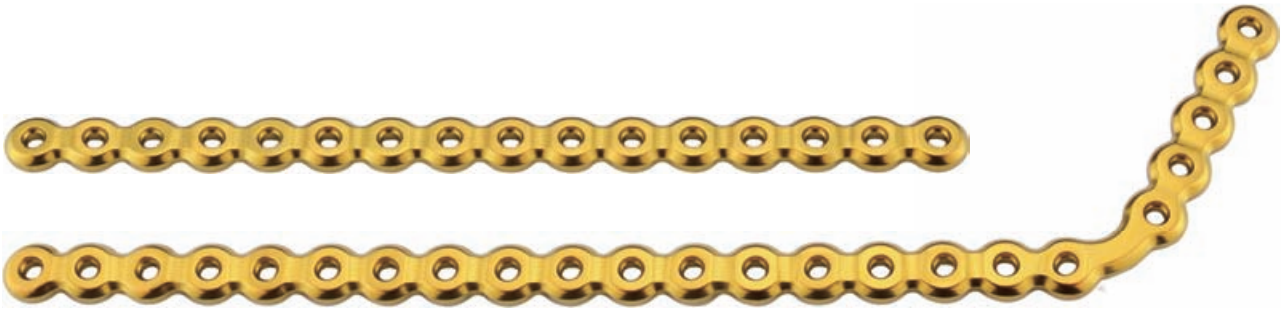
下颌骨创伤：
下颌骨粉碎性骨折、不稳定性骨折、感染性骨折及骨缺损

下颌骨重建：
首次或二次重建，用于骨移植或游离的桥状缺损（如果首次术中未进行骨移植，重建板只能保证在有限时段内受力，必须行二期植骨术以支持重建板）

Mandible trauma:
Comminuted fracture of mandible, unstable fracture, infected nonunion and bone defect.

Mandible reconstruction:
For first time or second reconstruction, used for bone graft or defect of dissociative bone blocks (If the first operation no bone graft,the reconstruction plate only ensure to bear a limited period of time,and must make a second bone graft operation to support the reconstruction plate)

颌面重建平板型 Maxillofacial reconstruction plate



直形 Straight

订货编码 Item No.	规格 Specification	
10.01.05.08011004	8 孔	68mm
10.01.05.10011004	10 孔	85mm
10.01.05.12011004	12 孔	102mm
10.01.05.14011004	14 孔	119mm
10.01.05.16011004	16 孔	136mm
10.01.05.18011004	18 孔	153mm
10.01.05.20011004	20 孔	170mm

Φ2.4 自攻钉 Self-tapping screw

配用 Matching:

Φ1.9 医用钻头，
SW0.5 十字改锥

Φ1.9 medical drill bit
SW0.5 cross head screwdriver

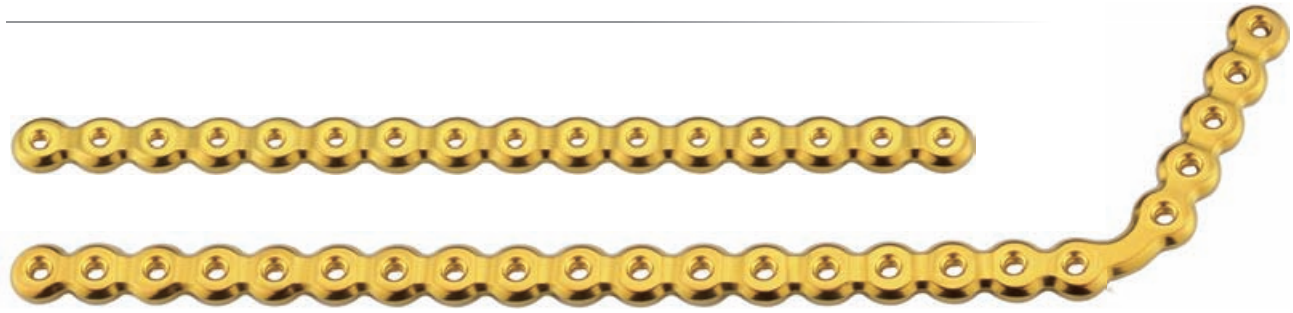
120° L 形（L-plate）

订货编码 Item No.	规格 Specification		
10.01.05.13117004	左 L	13 孔	97mm
10.01.05.13217004	右 R	13 孔	97mm
10.01.05.15117004	左 L	15 孔	114mm
10.01.05.15217004	右 R	15 孔	114mm
10.01.05.19117004	左 L	19 孔	148mm
10.01.05.19217004	右 R	19 孔	148mm
10.01.05.23117004	左 L	23 孔	182mm
10.01.05.23217004	右 R	23 孔	182mm

订货编码 Item No.	规格 Specification
11.07.0124.008113	2.4x8mm *
11.07.0124.010113	2.4x10mm
11.07.0124.012113	2.4x12mm
11.07.0124.014113	2.4x14mm

锁定颌面重建平板型（螺纹导向）

Locking maxillofacial reconstruction plate (thread guide)



直形 Straight

订货编码 Item No.	规格 Specification	
10.01.06.08011100	8 孔	69mm
10.01.06.10011100	10 孔	86mm
10.01.06.12011100	12 孔	103mm
10.01.06.14011100	14 孔	120mm
10.01.06.16011100	16 孔	137mm
10.01.06.18011100	18 孔	154mm
10.01.06.20011100	20 孔	171mm

Φ2.4 锁定钉　Locking screw

配用 Matching：

Φ1.7 医用钻头
SW0.5 十字改锥

Φ1.7 medical drill bit
SW0.5 cross head screwdriver

120°　L 形（L-plate）

订货编码 Item No.	规格 Specification		
10.01.06.13117100	左 L	13 孔	98mm
10.01.06.13217100	右 R	13 孔	98mm
10.01.06.15117100	左 L	15 孔	115mm
10.01.06.15217100	右 R	15 孔	115mm
10.01.06.19117100	左 L	19 孔	149mm
10.01.06.19217100	右 R	19 孔	149mm
10.01.06.23117100	左 L	23 孔	183mm
10.01.06.23217100	右 R	23 孔	183mm

订货编码 Item No.	规格 Specification
11.06.0224.008113	2.4x8mm*
11.06.0224.010113	2.4x10mm
11.06.0224.012113	2.4x12mm
11.06.0224.014113	2.4x14mm

锁定颌面重建解剖型（一孔双钉）

Locking maxillofacial reconstruction anatomical plate (one hole select two kinds of screw)

配用 Matching：

Φ1.9 医用钻头，
SW0.5 十字改锥

Φ1.9 medical drill bit
SW0.5 cross head screwdriver

120° L 形（L-plate）

订货编码 Item No.	规格 Specification			
10.13.06.12117101	左	S	12 孔	132mm
10.13.06.12217101	右	S	12 孔	132mm
10.13.06.13117102	左	M	13 孔	138mm
10.13.06.13217102	右	M	13 孔	138mm
10.13.06.14117103	左	L	14 孔	142mm
10.13.06.14217103	右	L	14 孔	142mm

Φ2.4 锁定钉
Locking screw

订货编码 Item No.	规格 Specification
11.11.0224.010113 Ⅱ D	2.4x10mm
11.11.0224.012113 Ⅱ D	2.4x12mm
11.11.0224.014113 Ⅱ D	2.4x14mm

Φ2.4 自攻钉
Self-tapping screw

订货编码 Item No.	规格 Specification
11.07.0124.008113	2.4x8mm *
11.07.0124.010113	2.4x10mm
11.07.0124.012113	2.4x12mm
11.07.0124.014113	2.4x14mm

正畸 / 结扎钉系列 Orthodontic/Ligation Nail Series

产品特点 Product Features

- 用于正畸支抗和颌间结扎
- 螺钉帽头有 2 个交叉孔，方便穿入钢丝
- 四方型螺帽设计保证更好的抓持力和扭力，使上钉更轻松

- Used for orthodontic anchorage and intermaxillary ligation
- The head of screw has two cross holes, easy to insert wire.
- Square screw head design ensures better holding and torque force, easier to screw in

Φ1.6 自钻自攻型 Φ1.6 Self-drilling & tapping

订货编码 Item No.	规格 Specification
11.07.0516.006115	1.6 × 6mm
11.07.0516.007115	1.6 × 7mm

Φ2.0 自钻自攻型 Φ2.0 Self-drilling & tapping

订货编码 Item No.	规格 Specification
11.07.0520.006115	2.0 x 6mm *
11.07.0520.007115	2.0 × 7mm
11.07.0520.008115	2.0 × 8mm
11.07.0520.009115	2.0 × 9mm
11.07.0520.012115	2.0 × 12mm

正畸 / 结扎钉配套器械
Orthodontic/Ligation Nail Instrument Set

50.01.019.00

医用钻头 Φ1.4 x 5 x 95mm (较硬皮质骨使用)
Medical Drill Bit （ for harder cortical bone ）

50.01.018.00

医用钻头 Φ1.6 x 7 x 95mm (较硬皮质骨使用)
Medical Drill Bit （ for harder cortical bone ）

50.01.021.00

正畸改锥 SW2.5
SW2.5 Orthodontic Screwdriver

50.01.022.00

断钉取出器 Φ2.0
Φ2.0 Broken Nail Extractor

50.01.020.00

正畸改锥 SW3.0
SW3.0 Orthodontic Screwdriver

50.01.003.00

直型快装手柄
Straight quick coupling handle

配套器械 Matching Instruments

锁定 · 颌面创伤系列装箱单

Locking • Maxillofacial Trauma Series Instruments

* 标配 Standard

订货编码 Item No.	规格 Specification	数量 Quantity	产品图 Product figure
50.01.001.00	医用钻头 Φ1.1x8.5mmx48mm Medical Drill Bit	2	
50.01.002.00	医用钻头 Φ1.6x12mmx48mm Medical Drill Bit	2	
50.01.003.00	直型快装手柄 Straight quick coupling handle	1	
50.01.004.00	十字改锥 SW0.5x2.8x95mm Cross Head Screwdriver	2	
50.01.005.00	断钉取出器 Φ1.5 Φ1.5 Broken Nail Extractor	1	
50.01.006.00	断钉取出器 Φ2.0 Φ2.0 Broken Nail Extractor	1	
50.01.013.00	通用导钻 Φ1.1/Φ1.6 Universal Drill Guide	1	
*50.01.007.00	通用导钻（锁定） Φ1.1/Φ1.6 Universal Drill Guide(locking)		
50.01.008.00	测深器 0 ~ 30mm Depth Gauge	1	

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订货编码 Item No.	规格 Specification	数量 Quantity	产品图 Product figure
50.01.046.00	颌面产品盒 Maxillofacial Instrument Set	1	

* 选配 Option

50.01.017.00

导钻 Φ1.6x30mm（适用于板厚 1.4mm）

Φ1.6 Drill Guide (used for 1.4mm thick plate)

50.01.027.00

医用钻头 Φ1.6x20x78mm（适用于板厚 1.4mm）

Φ1.6 Medical Drill Bit (used for 1.4mm thick plate)

50.01.038.00

剪板弯板钳（左）

Plate Cutter & Bender Tool (left)

50.01.039.00

剪板弯板钳（右）

Plate Cutter & Bender Tool (right)

颌面重建系列器械

Maxillofacial Reconstruction Series Instruments

50.02.009.00

医用钻头 Φ1.9x22x58mm
Medical Drill Bit

50.02.002.00

医用钻头 Φ1.7x57x82mm
Medical Drill Bit

50.02.006.00

临时固定器 HC2.4
Temporary Holder

50.16.001.00

医用钻头 Φ1.9x57x82mm
Medical Drill Bit

50.02.005.00

埋头钻 Φ2.0
Countersink Dril

50.02.003.00

通用导钻 Φ1.6/Φ1.9
Universal Drill Guide

50.16.002.00

导钻 Φ1.9x30mm
Drill Guide

50.02.004.00

导钻 Φ1.7x30mm
Drill Guide

50.01.004.00

十字改锥 SW0.5x2.8x95mm
Cross Head Screwdriver

50.01.008.00

测深器 0 ~ 30mm
Depth Gauge

50.02.011.00

锁定 2.4 系列螺钉盒
2.4 Locking Screw Box

50.01.003.00

直型快装手柄
Straight quick coupling handle

50.03.012.00

弯板器 L=200mm
Plate Bender

50.03.011.00

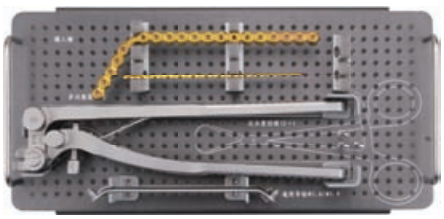
剪板器 L=190mm
Plate Cutter

切割口之间必须紧密接触，两侧刀口必须不留间隙
Must be no space and close contact for both sides of the blade

颌面重建系列器械装箱单

Instrument List of Maxillofacial Reconstruction Series

* 标配 Standard



订货编码 Item No.	规格 Specification	数量 Qty	颌面重建 Maxillofacial Reconstruction Series	锁定颌面重建（螺纹导向） Locking Maxillofacial Reconstruction Series (thread-guided)	锁定颌面重建（一孔双钉） Locking Maxillofacial Reconstruction Series (one hole select two kinds of screw)
50.16.001.00	医用钻头 Φ1.9x57x82mm Medical Drill Bit	2	–	–	●
50.02.002.00	医用钻头 Φ1.7x57x82mm Medical Drill Bit	2	–	●	–
50.02.009.00	医用钻头 Φ1.9x22x58mm Medical Drill Bit	2	●	–	–
50.02.004.00	导钻 Φ1.7x30mm Drill Guide	3	–	●	–
50.16.002.00	导钻 Φ1.9x30mm Drill Guide	2	–	–	●
50.02.003.00	通用导钻 Φ1.6/Φ1.9 Universal Drill Guide	1	●	–	●
50.01.004.00	十字改锥 SW0.5x2.8x95mm Cross Head Screwdriver	1	●	●	●
50.01.003.00	直型快装手柄 Straight quick coupling handle	1	●	●	●
50.01.008.00	测深器 0 ~ 30mm Depth Gauge	1	●	●	●
50.03.011.00	剪板器 L=190mm Plate Cutter	2	●	●	●
50.03.012.00	弯板器 L=200mm Plate Bender	2	●	●	●
50.02.006.00	临时固定器 HC2.4 Temporary Holder	2	–	●	–
50.02.005.00	埋头钻 Φ2.0 Countersink Drill	1	–	●	–
50.02.011.00	锁定 2.4 系列螺钉盒 2.4 Locking Screw Box	1	●	●	●
50.02.012.00	锁定 2.4 系列工具架 2.4 Locking Tool Rack	1	●	●	●
50.02.013.00	锁定 2.4 系列器械箱 2.4 Locking Instrument Case	1	●	●	●

* 选配 Option

50.02.010.00

多功能塑形钳
Multi-function Moulding Forcep

钛板塑形　Mould Plate

01

先进行平面内弯制，每次预弯成角不应过大，以免折断钛板
Bend the plate widthwise, please don't bend too large angle to break off the plate

02

再进行平面外弯制，圆柱形的喙及良好的视角可使医生精确地控制预弯过程
Bend plate lengthwise, cylindrical part and good visual angle can help surgeon precisely control the preflex bending process

03

顶端喙突部可对钛板末端进行预弯，也可对钛板进行小曲度预弯
The coronoid part can pre-bend the plate end, also it can pre-bend the plate in small curvature

04

必要时还可使用弯板器对钛板进行扭曲塑形
If needed, use bender to distort the plate

基础器械 Basic Instruments

复位钳 Reduction Forceps

50.03.042.00
尖头复位钳（小号）130mm
Probe reduction forceps (small)

50.03.043.00
尖头复位钳（大号）185mm
Probe reduction forceps (large)

持板钳 Plate Holder

50.03.045.00
平头持板钳 135mm
Flat nose plate holder

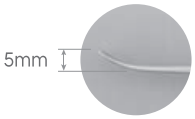
50.03.044.00
圆头持板钳 150mm
Round nose plate holder

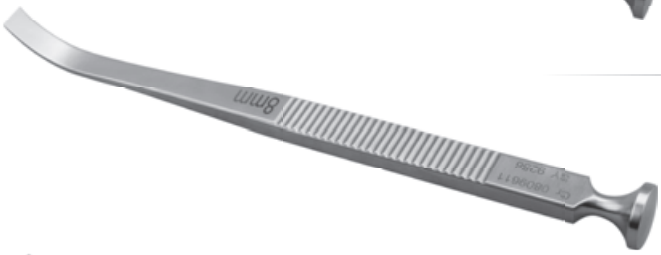
50.03.058.00
尖圆头持板钳 180mm
Needle round nose plate holder

方柄弯型骨凿

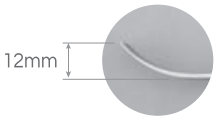
Square shank curved osteotome

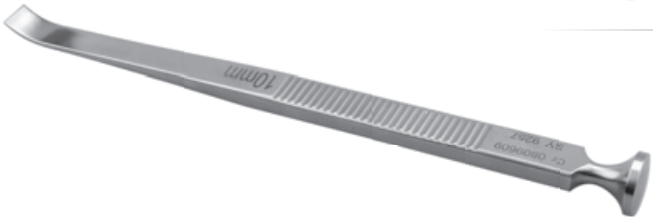
50.11.10819005.00
方柄弯型 8x190mm
Square shank curved type



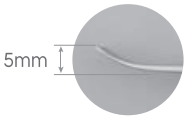


50.11.10819012.00
方柄弯型 8x190mm
Square shank curved type





50.11.101019005.00
方柄弯型 10x190mm
Square shank curved type



方柄直型骨凿

Square shank straight osteotome

50.11.94190.00
方柄直型 4x190mm
Square shank straight type

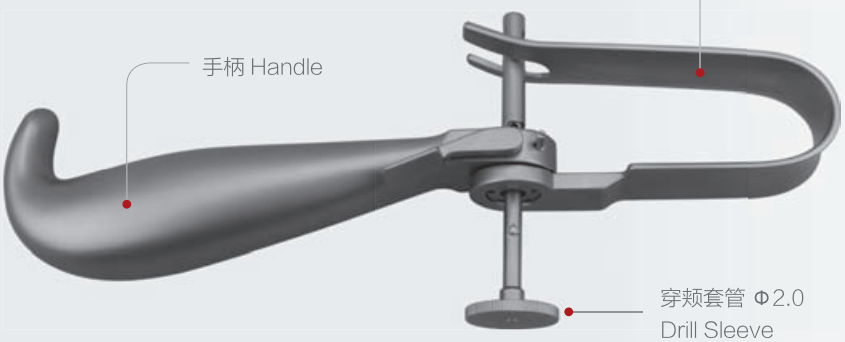
50.11.96190.00
方柄直型 6x190mm
Square shank straight type

50.11.98190.00
方柄直型 8x190mm
Square shank straight type

50.11.910190.00
方柄直型 10x190mm
Square shank straight type

穿颊器 Transbuccal Trochar Instrumentation

50.01.033.00
穿颊器
Transbuccal Trochar Instrumentation



穿颊针
Transbuccal Needle

专用钻头 Φ1.6x12x95mm
Specialized Drill Bit

适用部位 Indication

适用于下颌角和下颌升支线性骨折而皮肤没有创伤的患者，对于粉碎性下颌角及高位下颌升支骨折仍需行下颌下区或下颌后区切开手术。

Mandibular angle and ramus fracture without skin wound.
REMARK:
Request incision operation in submaxillaris regions and postzone for mandibular angle and ramus comminuted fracture.

临床优势 Clinical Advantages

下颌角及下颌升支骨折由于位置比较特殊，单纯口内切口，大多手术不能达到理想效果，需要在面部附加切口。使用穿颊器在颊部作小切口手术，可以避免损伤面神经，手术疤痕不明显，不会影响咀嚼功能。

Because the position of mandibular angle and ramus fracture is special, it is hard to get expected treatment only with intraoral incision but need additional incision on cheek. Transbuccal instrument will only make small-incision surgery on cheek. No injury of facial nerve, little scar, affect no masticatory function.

以下颌升支线性骨折手术为例
Example: Mandibular Ramus Fracture Surgery

使用要点 Attentions

颊部皮肤切口位置要合适，以保证通过穿颊器可以到达骨折线两侧需要钻孔和固定钛钉的部位，而不需要过分牵拉颊部皮肤和扭曲穿颊器

Request suitable incision position on skin of cheek, to ensure the transbuccal trochar instrumentation can reach the position where requests drill hole and fix screws on both sides of fracture line, but not stretch skin excessively or twist the instrument

图 01
Pic. 01

图 02
Pic. 02

图 03
Pic. 03

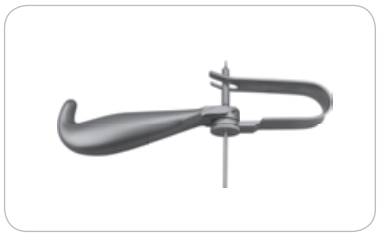


图 04
Pic. 04

图 05
Pic. 05

操作流程 Operating Process

口腔内骨折侧下颌升支前缘向磨牙颊侧粘膜作切口，剥离粘膜、粘膜下层、骨膜，显露骨折断端，去除肉芽组织。在骨折相对应的颊部皮肤作约0.3cm小切口，用止血钳钝性分离达骨面。

- 穿颊针套入手柄锁紧后，穿通颊部（图 01）；
- 取出穿颊针，装上牵开器至适宜部位后锁紧（图 02）；
- 插入 Φ2.0 穿颊套管（图 03）；
- 使用专用钻头在骨折线两侧钻孔（图 04）；
- 去除 Φ2.0 穿颊套管，下颌钛板从口内切口骨折处放入， 经穿颊器使用十字改锥将钛钉固定（图 05）。

Intraoral cut from the front mandibular ramus to molar buccal mucosa. Strip mucosa, submucosa, periosteum. Expose the fracture, remove granulation tissues. Cut a 0.3cm small-incision on cheek skin above the fracture, do blunt dissection on soft tissue by hemostatic forceps.

- After insert and lock transbuccal needle into handle, pierce the cheek (picture 01).
- Remove transbuccal needle, put retractor to the right position and locked (picture 02).
- Insert Φ2.0 drill sleeve (picture 03).
- Drill both sides of the fracture line with specialized drill bit (picture 04).
- Remove Φ2.0 drill sleeve, put mandible plate from intraoral incision and fix it with cross head screwdriver through transbuccal trochar instrumentation (picture 05).

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