

# 米娜<sup>®</sup> 骨大师全能工具盒

## MINA Bone Master All-Around Kit





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## 产品介绍Introduction

米娜骨大师全能工具箱是一款适用于牙科手术中进行取骨、磨骨、切割等操作的多功能牙科骨组织工具套装。它包括多种不同类型的钻具，如取骨柱钻、三棱钻（定位）、球钻、菠萝钻、小蛮腰钻、防护切轮和骨刨等，可以满足不同手术需求

Mina Bone Master All-around Kit is a multi-functional dental bone tissue kit suitable for performing operations such as bone extraction, grinding, and cutting in dental surgeries. It includes various types of drills, such as Pillar trephine drill, precision drill (for positioning), round bur, bone trimmer, safe click and bone shaver etc, which can meet different surgical needs.

## 使用方法Usage

- 1.根据手术需要，选择合适大小直径的取骨柱钻
- 2.用取骨柱钻在种植位点中取出柱状骨块
- 3.将取出的柱状骨块移植到骨缺损位置
- 4.对于种植位点周围小的骨缺损，可以直接使用，无需额外使用骨粉和膜
- 5.也可以将取下的柱状骨块粉碎后与骨粉混合使用，通常建议1: 1
- 6.在使用过程中，利用取骨柱钻的特殊可拆卸工作端和纹理设计，方便地提取整块柱状骨
- 7.通过取骨柱钻内置的内冷却口，采用双冲水，保护骨组织避免过热坏死

1. According to the needs of the surgery, select appropriate size and diameter of the pillar trephine drill.
2. Use the pillar trephine drill to extract a columnar bone block in the implant site.
3. Transplant the extracted columnar bone block to bone defect position.
4. For small bone defects around the implant site, it can be used directly without additional use of bone powder or membranes.
5. The removed columnar bone block can also be crushed and mixed with bone powder for use, usually recommended at a 1:1 ratio.
6. During the use, by using the special detachable working end and texture design of the pillar trephine drill, it is convenient to extract the entire columnar bone.
7. Through the built-in internal cooling port of the drill, double flushing is adopted to protect the bone tissue from overheating and necrosis.

## 产品构成Components

### 01 取骨柱钻 (Pillar Trepine Drill)

- 取骨柱钻壁厚0.5mm，内径-1mm
  - 取骨柱钻长38mm(HL)
  - 可取骨柱长度16mm(L)
  - 推荐转速:600~1000 rpm
- The wall thickness of Pillar Trepine Drill is 0.5mm, and the outer diameter is 1 mm larger than inner diameter.
  - Total length of the Pillar Trepine Drill is 38mm(HL).
  - The bone column can reach 16mm(L).
  - Recommended speed: 600~1000rpm.

型号 Model	BPT21	BPT25	BPT29	BPT33
				
D (mm)	3.1	3.5	3.9	4.3
L (mm)	16	16	16	16
HL (mm)	38	38	38	38

适用于取出手术所需直径骨柱

It's applicable for extracting the bone columns with required diameter.

### 使用方法 Usage

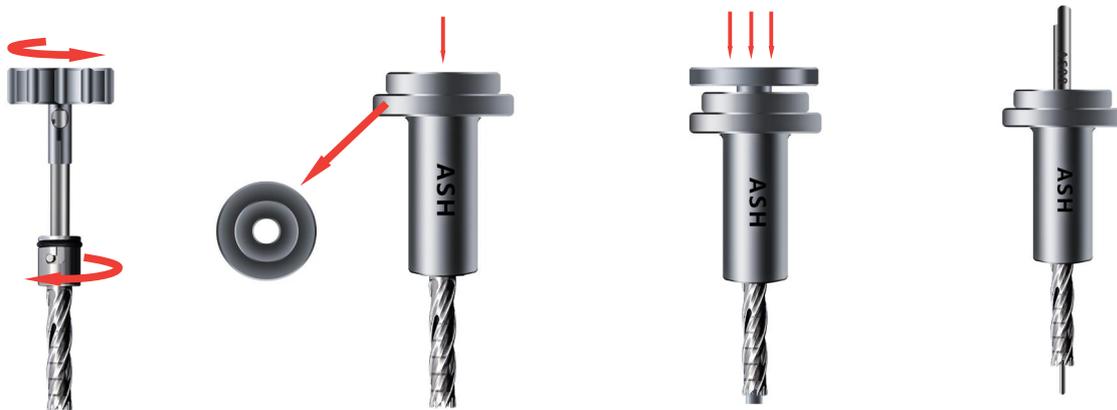
取骨柱钻为可拆卸设计，利于骨柱取出。

- 1.使用HRK环钻手用扳手卡住钻头底端（手机连接端）将钻身拧下。
- 2.拆卸后将钻身从顶部放入ASH环钻辅助套内。
- 3.利用合适尺寸的骨柱推动杆将骨柱推出。
- 4.边缘卡住的骨块可用AS08环钻辅助杆取出。

The pillar trephine drill is detachable for easy removal of bone column.

1. Use the HRK hand wheel to clamp the bottom(implanter connection) and rotate the drill part.
2. After detached, put the drill into the ASH ejection sleeve from top.
3. Push out the bone column with applicable ejection rod.
4. Stuck bone can be removed with AS08 auxiliary rod.

## 使用方法 Usage



## 02 定位取骨钻 (Guide Bone Trephine)

- 定位取骨钻壁厚0.5mm，内径-1mm
- 定位取骨钻长22mm(HL)
- 定位深度4.2mm(L)
- 推荐转速:800~1000rpm

- The wall thickness of guide bone trephine is 0.5mm, and the outer diameter is 1 mm larger than inner.
- Total length of guide bone trephine is 22mm(HL).
- Guide depth is 4.2mm(L).
- Recommended speed: 800~1000rpm.

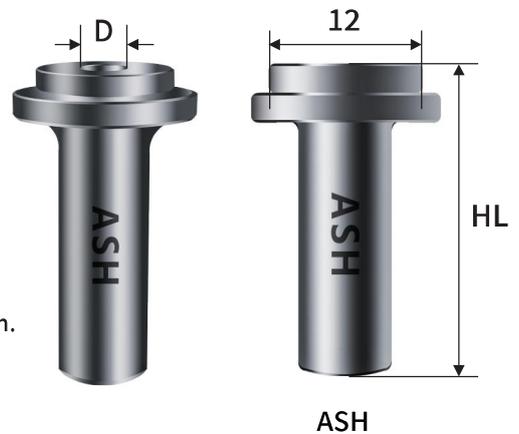
型号 Model	GBT21	GBT25	GBT29	GBT33
				
D (mm)	3.1	3.5	3.9	4.3
L (mm)	4.2	4.2	4.2	4.2
HL (mm)	22	22	22	22

用于取骨柱钻使用之前的前期定位作用

It's used for the preliminary positioning before the Pillar Trephine Drill is applied.

### 03 环钻辅助套(Ejection Sleeve)

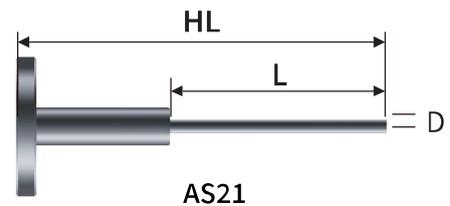
- 环钻辅助套直径12mm,内环直径5.5mm(D)
- 环钻辅助套长28mm(HL)
- 用于配合取骨柱钻、骨柱推动杆、环钻辅助杆取出内部骨柱
- Diameter of ejection sleeve is 12mm, and inner ring is 5.5mm(D).
- Total length of ejection sleeve is 28mm(HL).
- To cooperate with pillar trephine drill, ejection rod and auxiliary rod to remove the internal bone column.



### 04 骨柱推动杆(Ejection Rod)

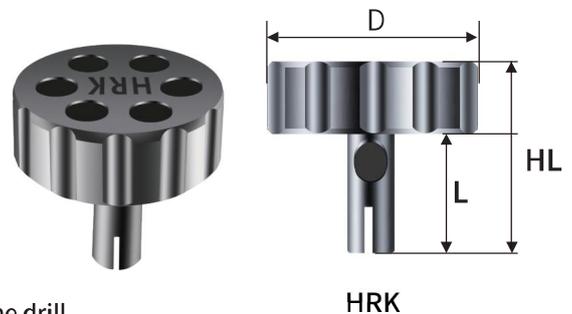
- 骨柱推动杆工作端直径分别2.1mm(D)和2.9mm(D)
- 骨柱推动杆工作端长度22mm(L)
- 骨柱推动杆长45.4mm(HL)
- There are 2.1mm and 2.9mm(D) diameter for working end of ejection rods.
- Length of ejection rod working end is 22mm(L).
- Total length of ejection rod is 45.4mm(HL).

型号 Model	AS21	AS29
D (mm)	Ø 2.1	Ø 2.9
L (mm)	22	22
HL (mm)	45.4	45.4



### 05 环钻手用扳手 (Hand Wheel)

- 环钻手用扳手直径16mm(D)
- 环钻手用扳手长15.5mm(HL)
- 工作端长度9.5mm(L)
- 用于连接取骨柱钻手机连接端，扭动拆卸取骨柱钻
- Diameter of hand wheel is 16mm(D).
- Total length of hand wheel is 15.5mm(HL).
- Length of working end is 9.5mm(L).
- Used to connect the implanter connecting end of pillar trephine drill, rotate and detach the pillar trephine drill.



## 06 环钻辅助杆(Auxiliary Rod)

- 环钻辅助杆直径0.75mm(D)
- 环钻辅助杆工作端长度40mm(L)
- 环钻辅助杆长55.9mm(HL)
- 用于配合取骨柱钻、骨柱推动杆取出内部骨柱

- Diameter of auxiliary rod is 0.75 mm(D).
- The working end length of auxiliary rod is 40 mm(L).
- Total length of auxiliary rod is 55.9 mm(HL).

- To cooperate with pillar trephine drill and ejection rod to take out internal bone column.



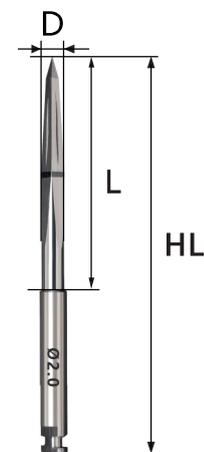
AS08

## 07 三棱钻(Precision Drill) 定位钻(Guide Drill)

- 三棱钻SPD20的工作端的直径2mm(D)
- 工作端长度20mm(L)
- 三棱钻的长34mm(HL)
- 推荐转速800-1200rpm

- The working end diameter of precision drill SPD20 is 2mm(D).
- Length of the working end is 20mm(L).
- Total length is 34mm(HL).
- Recommended speed: 800-1200rpm.

型号 Model	SPD20
D (mm)	Ø 2.0
L (mm)	20
HL (mm)	34



SPD20

适用于前期定位打孔、也可用于钻滋养孔，提供血供

It is applicable for preliminary positioning and drilling, and can also be used to drill nutrient foramina to provide blood supply.

## 08 球钻(Round Bur)

- 球钻RB35的直径3.5mm(D)
- 球钻的长26mm(HL)
- 推荐转速800-1000rpm
- The diameter of round bur RB35 is 3.5 mm(D).
- Total length of round bur is 26 mm(HL).
- Recommended speed: 800-1000rpm.

型号 Model	RB35
D (mm)	Ø 3.5
L (mm)	3.2
HL (mm)	26



RB35

适用于精准打磨骨组织、清理肉芽组织

It is applicable for precisely grinding bone tissue and cleaning granulation tissue.

## 09 新型取骨钻 (Bone Collector)

- 新型取骨钻BC50的直径5mm(D)
- 新型取骨钻的长35mm(HL)
- 停止环的长度15mm(L2)
- 推荐转速400-800rpm

- The diameter of bone collector BC50 is 5 mm(D).
- Total length of bone collector is 35 mm(HL).
- Length of stopper is 15 mm(L2).
- Recommended speed: 400-800rpm.

型号 Model	BC50
D (mm)	Ø 5.0
L (mm)	21
HL (mm)	35



BC50

适用于取自体骨屑，有自研磨功能，搭配停止环使用

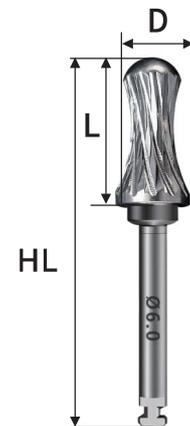
It's suitable for obtaining autogenous bone chips and has a self-grinding function.  
It's used in combination with stopper.

## 10 小蛮腰钻 (Bone Trimmer)

- 小蛮腰钻直径6mm(D)，最窄处直径3.4mm
- 工作端长度12mm(L)
- 小蛮腰钻的长29.6mm(HL)
- 推荐转速1200-1500rpm

- The diameter of bone trimmer is 6 mm, and minimum diameter is 4mm(D).
- Working end length is 12mm(L).
- Total length is 29.6 mm(HL).
- Recommended speed: 1200-1500rpm.

型号 Model	PN60
D (mm)	Ø 6.0
L (mm)	12
HL (mm)	29.6



PN60

头部光滑，打磨时可避免损伤软组织。

钻身凹面设计，可直接将牙槽嵴修整为规则形态

The head is smooth, which can avoid damaging soft tissues during grinding.

The drill body is designed with a concave surface, which can directly trim the alveolar ridge to a regular shape.

## 11 菠萝钻(Bone Trimmer)

- 菠萝钻的直径5mm和7mm(D)
- 菠萝钻工作端长度11mm、12.5mm(L)
- 菠萝钻长29mm(HL)
- 推荐转速1200-1500rpm
- The diameter of bone trimmer is 5mm and 7mm(D).
- Working end length is 11mm and 12.5mm(L).
- Total length of bone trimmer is 29 mm(HL).
- Recommended speed: 1200-1500rpm.

型号 Model	BT50	BT70
D (mm)	Ø 5.0	Ø 7.0
L (mm)	11	12.5
HL (mm)	29	29



适用于打磨不规则牙槽嵴

It's suitable for grinding irregular alveolar ridges.

## 12 防护切轮 (Safe Disk)

- 防护切轮直径分别7mm、10mm(D)
- 防护切轮的长23mm(HL)
- 推荐转速1200-1500rpm
- There are 7 mm and 10 mm(D) diameter of safe disks.
- Total length is 23.2 mm(HL).
- Recommended speed: 1200-1500rpm.

型号 Model	SFD07	SFD10
D (mm)	Ø 7.0	Ø 10.0
L (mm)	9.5	9.5
HL (mm)	23.2	23.2

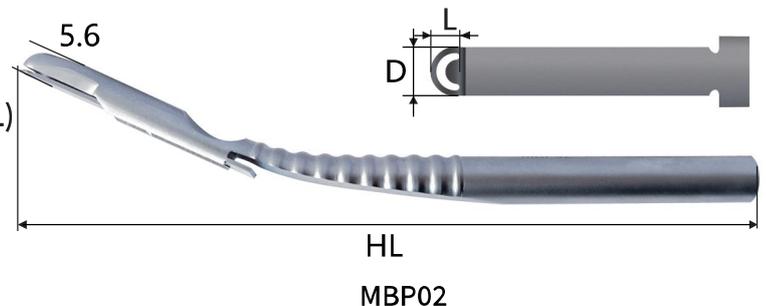


适用于切开骨面，含有防护套，避免损伤周围软组织

It's applicable for incising the bone surface. It comes with a protective sleeve to avoid damaging the surrounding soft tissues.

## 13 弯骨刨(Bone Shaver)

- 骨刨骨收集深度5.6mm
- 骨刨的长155mm(HL)
- 刀片宽度8mm(D)，工作端长度4.5mm(L)
- Collecting depth is 5.6 mm.
- Total length of bone shaver is 52.3 mm(HL).
- Blade width is 8 mm(D), and the working end length is 4.5 mm(L).



适用于收集自体骨屑，刀片可拆卸设计，利于更换

It is suitable for collecting autogenous bone chips. With a detachable blade design, it is convenient for replacement.

**骨大师全能工具盒(Bone Master All-Around Kit)**



BPT21 BPT25 BPT29 BPT33



GBT21 GBT25 GBT29 GBT33



SPD20



RB35



BC50



PN60



BT50



BT70



AS21



AS29



ASH



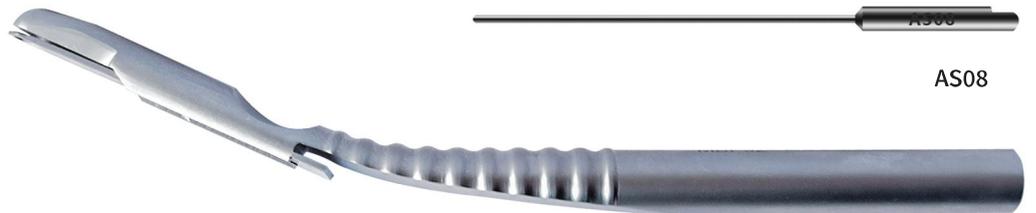
HRK



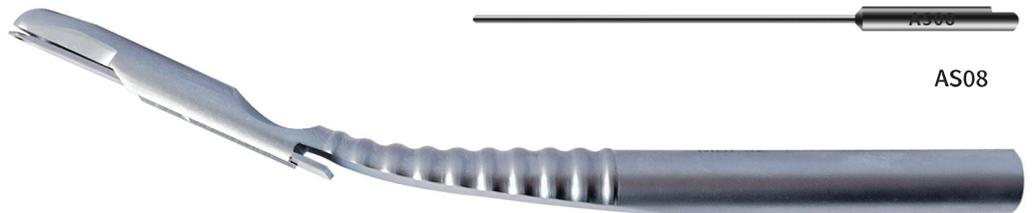
SFD07



SFD10



AS08



MBP02

## 工具箱管理方法(Kit Management Method)

- ① 所有工具使用完毕后,都要立即浸泡在消毒液中几分钟,避免碎片粘在工具上  
**注意:不能浸泡过夜。不可使用过氧化氢浸泡,因为过氧化氢会使工具标识变色**
- ② 请用软毛刷仔细刷洗工具,直到清洗干净所有碎片
- ③ 请使用钻孔器或者计量注射针来清洗钻头内部
- ④ 如果使用超声波清洗仪,在清洗前,请用干净的纱布将钻头包起来,避免工具钻头互相摩擦
- ⑤ 请使用消毒液清洗所有的底座和盖子
- ⑥ 请在温水中全面地仔细清洗所有的工具、托盘和盖子
- ⑦ 完全干燥后请仔细检查,确认工具没有任何的损坏和腐蚀
- ⑧ 请把所有的工具按照正确的位置标示放回工具箱里的托盘上
- ⑨ 请用消毒袋将工具箱密封
- ⑩ 请把工具箱放在134°C的蒸汽压锅中消毒15分钟,或者参考生产厂家的其他建议
- ⑪ 请把工具箱放在干燥、干净的区域,室温保存

### 注意事项:

**手术后请将所使用的器具及时分离清洗,外科手术器具在手术前建议再进行一次消毒(温度: 134°C 时间: 15分钟)**

- ① After using all the tools, immerse them in the disinfectant solution immediately for a few minutes to avoid chips sticking to the tools.  
**Note: Do not soak them overnight. Do not use hydrogen peroxide for soaking, as hydrogen peroxide will cause the tool markings to change color.**
- ② Please use a soft-bristled brush to scrub the tools carefully until all chips are removed.
- ③ Please use a drill or a measuring injection to clean the inside of drill bits.
- ④ If an ultrasonic cleaner is used, please wrap the drill bits with clean gauze before cleaning to avoid friction between the tool drill bits.
- ⑤ Please use disinfectant solution to clean all bases and lids.
- ⑥ Please thoroughly and carefully clean all tools, trays and lids in warm water.
- ⑦ After complete drying, please check carefully to confirm that there is no damage or corrosion on the tools.
- ⑧ Please put all the tools back onto the trays in the toolbox according to position markings.
- ⑨ Please seal the toolbox with a sterilization bag.
- ⑩ Please sterilize the toolbox in a steam autoclave at 134 °C for 15 minutes, or refer to other suggestions from the manufacturer.
- ⑪ Please store the toolbox in a dry and clean area at room temperature.

### Precautions:

**After the operation, please separate and clean the used instruments in time. It is recommended to disinfect the surgical instruments once again before next operation (temperature: 134 °C, time: 15 minutes).**

