邦士医疗 ®
**BONSS**
M E D I C A L

## Unilateral Biportal Endoscopy Solution
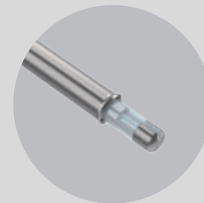# BONSS RF Plasma Surgical System

**UBE90**

**Hook-UBE**     **Spine-o-UBE**

## UXD70/UXD90
### Unique angle and insulation design

Ensure safe operation, and optimized coagulation effect.
Designed for extraspinal operation.
Provide excellent clinical performance in dealing with different tissues.

### Spine-o-UBE (135mm working length)
### Spine-o-QST (230mm working length)

Intraspinal use electrodes.
It is specifically designed for UBE when dealing with the tissue or hemostasis near the nerve root.
Its ergonomic hybrid handle allows for more control and usability with its variety of grip positions, as well as a wide custom comfort that conforms to your hand.

Orthopedics

Based on our decades experience in R&D of RF Plasma technology, BONSS has developed the Unilateral Biportal Endoscopy (UBE) solution for minimally-invasive spine surgery. The patented electrode design is integrated with cutting, dissection, ablation, coagulation, hemostasis, and suction capabilities in one versatile device, and designed for intraspinal and extraspinal operations. BONSS RF Plasma Surgical System has become an integral part of UBE surgery.

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# BONSS UBE Instrument Kit  V2.0

*Unilateral Biportal Endoscopy*
*for Stenosis*

## UBE-AX

### Dilator

**Description**：Dilator
**Specification:** Φ4mm(solid)*220mm
**Model:** UBE-A-KZGQ-2204

**Features:**
1. Establish both working channel and viewing channel
2. CT assisted positioning

**Instructions:**
1. Insert the surgical site step by step after muscle stripping.
2. Place the tip on the surgical segment.

**Description**：Semi-Tube
**Specification:** Φ10mm*50mm（L)
**Model:** UBE-A-KZGB-1060

**Specification:** Φ10mm*90mm（L)
**Model:** UBE-A-KZGB-1080

**Specification:** Φ12mm*60mm（L)
**Model:** UBE-A-KZGB-1010

**Features:**
1. Maintain working chnnel and smooth saline outlet
2. Ensure that the instrument enters the surgical site smoothly.

**Instructions:**
After the operation channel is established, the instrument tip is inserted into the body. The handpiece remains outside.

**Description**：Dilator
**Specification:** Φ10mm*120mm（L)
**Model:** UBE-A-KZGN-1611

**Specification:** Φ8mm*140mm（L)
**Model:** UBE-A-KZGN-1809

**Specification:** Φ6mm*160mm（L)
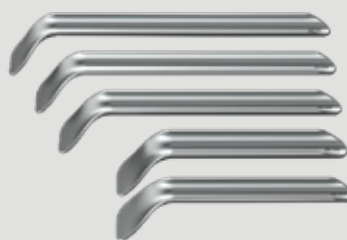**Model:** UBE-A-KZGN-2007

**Features:**
1. Establishing the surgical channels and protect  tissue.
2. Maintain surgical channels.
3. Expand the surgical field of view.

**Instructions:**
When using an instrument with a cutting edge, the instrument with a cutting edge is inserted into the body through the instrument channel to the operation site.

### Tissue Retractor

**Description**：T-Retractor
**Specification:** Φ5mm(Thickness)*158mm(L)
**Model:** UBE-A-BLQA-2209
**Features:** For tissue detaching

**Instructions:**
After the surgical incision, insert its tip into the detaching position according to the scale of the instrument, swing it left and right, and strip the tissue.

### Root Retractor

**Description**：Straight
**Specification:** length 100mm，width 4mm
**Model:** UBE-A-LGAL-1006

**Specification:** length 100mm，width 8mm
**Model:** UBE-A-LGAL-8006

**Features:**
1. For tissue traction.
2. For nerve traction.

**Instructions:**
After exposing the tissues that need to be pulled, extend the tip of the instrument and use the front hook to pull the tissues

### Retractor

**Description**：ligamenta flava
**Specification:** length 100mm, widthh 2、3mm
**Model:** UBE-A-BLZB-0561

**Specification:** length 100mm，width 4、5mm
**Model:** UBE-A-BLZB-0562

**Features:**
It is used for ligamentum flavum traction, upgraded version.

**Instructions:**
After exposing the tissues that need to be pulled, extend the tip of the instrument and use the front hook to pull the ligamentum flavum.

**Description**：Double-ended
**Specification:** Edge width 3mm*angle 0°、15°*length 300mm
**Model:** UBE-A-BLZA-1504

**Specification:** Edge width 3mm*angle 25°、35°*length 300mm
**Model:** UBE-A-BLZA-2503

**Features:**
1. For tissue stripping
2. For anatomical exploration.

**Instructions:**
Separate two different tissues with the front flat part.

### Protector

**Description**：Protector sheath
**Specification:** Φ9mm φ7mm*120mm（L) curved
**Model:** UBE-A-GLGW-9009

**Features:**
It is used to block tissue and expand the surgical field of view.

**Instructions:**
The instrument is inserted through the viewing channel with the tip against the end of the channel. Insert the assembled endoscope and sheath into the instrument. The front end shield can be used to shield tissue by rotating the instrument.

### Guide Needle

**Description**：Flushing needle
**Specification:** φ4mm  angle135°
**Model:** UBE-D-GDYZ-0016

**Features:**
Used to flush residual tissue in the intervertebral space.

**Instructions:**
The bottom is connected with the infusion tube, and the tip extends into the intervertebral space under the supervision of the endoscope, and the switch of the infusion tube is turned on for flushing.

### Bone Probe

**Description**：L-shape
**Specification:** Length 100mm, Tip 4mm
**Model:** UBE-D-GTZA-1001

**Features:**
Used to explore nerves and confirm anatomical structures.

**Instructions:**
After the tissue is completely exposed, the tip of the instrument is inserted into the body for nerve exploration and confirmation of each tissue structure.

### Retractor

**Description**：Disc Reamer
**Specification:** Length 220mm,Edge width 4mm
**Model:** UBE-A-BLZA-3503

**Features:**
Incision of the annulus.

**Instructions:**
After the annulus is exposed, the device is passed through the working channel to work on the annulus.

### Pack box (UBE-AX)

**Specification:** (L)440mm*(W)290mm*(H)80mm

## UBE-BX

### Dilator

**Description**：Dilator
**Specification:** Φ12mm * 150mm(L)
**Model:** UBE-A-KZGS-1812

**Specification:** Φ14mm * 140mm(L)
**Model:** UBE-A-KZGS-1614

**Specification:** Φ16mm * 130mm(L)
**Model:** UBE-A-KZGS-2010

**Features:**
Dilation of the surgical channel. For fusion surgery,
it is necessary to expand the surgical channel.

**Instructions:**
Insert the surgical site step by step after muscle stripping.

### Chisel

**Description**：Upturned
**Specification:** Edge width 5mm (Upturned15°)
**Model:** UBE-B-GZZG-1204

**Specification:** Edge width 5mm (Upturned30°)
**Model:** UBE-B-GZQZ-1205

**Description**：Straight
**Specification:** Edge width 5mm，Straight
**Model:** UBE-B-GZQY-1205

**Description**：L-shape
**Specification:** Edge width 5mm，L-Type
**Model:** UBE-B-GZCZ-1205

**Features:**
Chisel out the bone

**Instructions:**
After the bony structure is exposed, put the cutting edge of the front end against the bone surface,
and strike the tail of the osteotome with a bone hammer. The bevel faces the direction of bone resection.

### Root Retractor

**Description**：Right bent
**Specification:** 100mm（L)*10mm（W）
**Model:** UBE-A-LGBY-8010

**Description**：Left bent
**Specification:** Edge width 5mm (Upturned30°)
**Model:** UBE-A-LGBZ-8010

**Description**：Right edgefold
**Specification:** 100mm（L)*5mm（W）
**Model:** UBE-A-LGRQ-1502

**Description**：Left edgefold
**Specification:** 100mm（L)*5mm（W）
**Model:** UBE-A-LGRQ-1501

**Features:**
1. For tissue traction.
2. For nerve traction.
3. For CAGE implantation during fusion surgery.

**Instructions:**
After exposing the tissues that need to be pulled, extend the tip of
the instrument and use the front hook to pull the tissues

### Retractor

**Description**：Cage Osteotome
**Specification:** Φ9mm(solid)*255mm
**Model:** UBE-A-BLZA-0505

**Features:**
Used for CAGE position adjustment.

**Instructions:**
After the CAGE is put in, insert the tip of the instrument into the
threaded hole of the CAGE, and tap the bottom of the instrument
with a bone hammer to adjust the position of the CAGE so that it
lies horizontally.

### Disc Reamer

**Description**：Straight
**Specification:** Edge width 7mm，length 200mm
**Model:** UBE-B-ZJDH-9505

**Features:**
For reaming intervertebral discs.

**Instructions:**
Insert the tip of the instrument into the intervertebral space, and
rotate the handle to drive the cutting edge to rotate and ream the
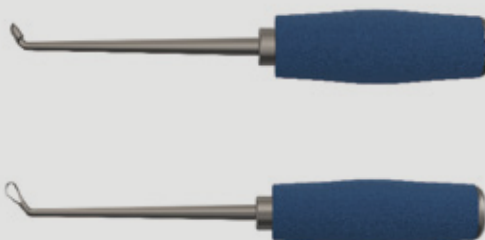intervertebral disc.

### Curette

**Description**：Straight
**Specification:** Edge width 3mm，length 140mm
**Model:** UBE-D-GCZA-1503

**Specification:** Edge width 4mm，length 140mm
**Model:** UBE-D-GCZA-1505

**Description**：Hollow
**Specification:** Edge width 3mm,length 140mm, Side-Bent
**Model:** UBE-D-GCZA-1506

**Specification:** Edge width 4mm,length 140mm, Side-Bent
**Model:** UBE-D-GCZA-1506

**Features:**
1. For bone scraping
2. Used to scrape endplates.

**Instructions:**
Use the cutting edge of the working part of the instrument to scrape
off the bone

### Bone Hammer

**Specification:** 245mm(L)
**Model:** UBE-D-GCCZ-0450

**Instructions:**Used to knock other instruments.

### Pack box（UBE-AX+BX)

**Description**：For UBE-AX and UBE-BX
**Specification:** (L)440mm*(W)290mm*(H)80mm

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## UBE-CX

### Punch

**Description**：Dismounted rotatable
**Specification:** Edge width 2mm Length 220mm Angle 110°
**Model:** UBE-C-KTYB-1102

**Specification:** Edge width 3mm Length 220mm Angle 110°
**Model:** UBE-C-KTYB-1103

**Specification:** Edge width 2mm Length 220mm Angle 130°
**Model:** UBE-C-KTYB-1302

**Specification:** Edge width 3mm Length 220mm Angle 130°
**Model:** UBE-C-KTYB-1303

**Description**：Dismounted rotatable, curved
**Specification:** Edge width 2mm Length 220mm Angle 130°
**Model:** UBE-C-KTYA-1302

**Specification:** Edge width 3mm Length 220mm Angle 130°
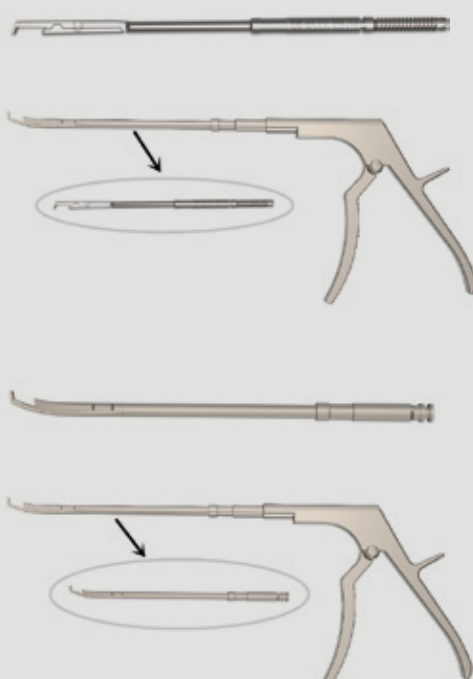**Model:** UBE-C-KTYA-1303

**Features:**
Rotatable, any angle can be adjusted

**Instructions:**
Biting and cutting the bone. Rotatable, any angle can be adjusted

**Description**：Handle for dismounted rotatable punch
**Model:** UBE-C-KTYB-0000

**Features:**
Handpiece

**Instructions:**
1. Align the arrow on the rongeur shaft with the handle arrow and insert into the handle;
2. Adjust the angle according to the needs of the operation, hold the bottom of the handle, press the rongeur rod in the direction of the arrow, rotate the rongeur rod, release the rongeur rod so that it is locked with the handle.
3. When disassembling, adjust the rongeur rod to align the arrow of the handle with the arrow of the rongeur rod according to the method in step 2, and then it can be disassembled.

### Nucleus Pulposus Forceps

**Description**：Straight, Granular
**Specification:** Edge width 4mm Length 180mm
**Model:** UBE-C-SHZB-2004

**Description**：Upturned, Granular
**Specification:** Edge width 4mm Length 180mm
**Model:** UBE-C-SHWB-2004

**Description**：Upturned, Ball
**Specification:** Edge width 3mm Length 180mm
**Model:** UBE-C-SHWB-2003

**Features:**
1. Removal of tissue.
2. Used to remove intervertebral disc tissue.
3. The working part is reduced, which is more suitable for minimally invasive surgery.
4. The reduced diameter of the insertion section allows for easy access to and from the instrument channel.

**Description**：Straight, Square
**Specification:** Edge width 4mm Length 180mm
**Model:** UBE-C-SHZB-2003

**Features:**
Square bite forceps, neatly trim the ligamentum flavum and other soft tissues.

### Pack box(UBE-CX)

**Specification:** 440mm （L)*290mm(W)*80mm(H)

## UBE-EX

### Dilator

**Description**：Scope sheath
**Specification:** Φ6mm * 120mm(L)* 0.5mm(Thickness), for 0° scope
**Model:** UBE-A-KZGJ-1206

**Specification:** Φ6mm * 115mm(L)* 0.5mm(Thickness) for 30° scope
**Model:** UBE-A-KZGJ-1506

**Features:**
1. Protect the endoscope.
2. Saline injection channel
3. Small and exquisite make is more ergonomic.

### Bone Guide Needle

**Description**：Obturator
**Specification:** φ4mm * 130mm(L)
**Model:** UBE-D-GDYZ-1304

**Model:** UBE-D-GDYZ-1604

**Features:**
1. Protect the endoscope.
2. Saline injection channel
3. Small and exquisite make is more ergonomic.

**Instructions:**
1. After the endoscope is assembled with the sheath, it is inserted into the human body through the previously established observation channel.
2. The saline inlet is connected with the infusion tube for saline injection.

### Pack box(E1X)
### Pack box(E2X)

**Description**：One set of sheath in one box
**Specification:** 285mm(L)*100mm(W)*62mm(H)

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