

# OK MEDINET KOREA

PRODUCT CATALOG

SPINAL MEDICAL DEVICE



**Manufacturer**

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Rev. 03



www.okmk1.com



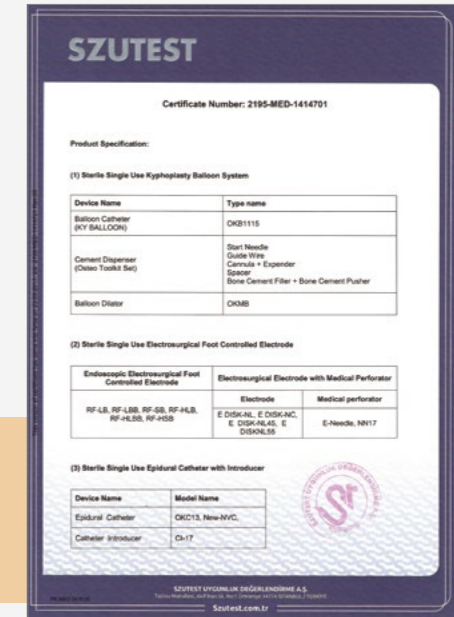
OK MEDINET KOREA

# What We Do

OK MedinetKorea Co., Ltd. manufactures medical devices for minimally-invasive percutaneous spinal procedure. Patents we own are the years of fruits of our R&D researchers, with the aid of prestigious college professors and medical doctors. We still aim to develop field suited devices of high quality, and export them to many countries in OEM to meet our customers' requirements or in our own brand.

A specialized manufacturer of medical devices for minimally-invasive percutaneous spinal procedures.

## Certificates

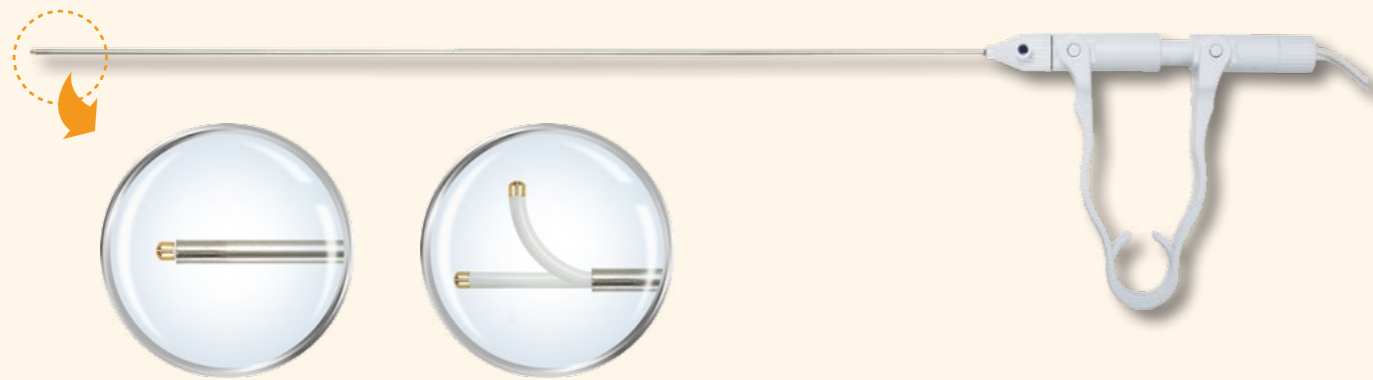


# RF curer™

## PERCUTANEOUS DISK DECOMPRESSION DEVICE

For effective pain management without spinal surgery

- + A single use sterilized device
- + A directional control electrode to approach to HNP (Herniated Nucleus Pulposus)
- + Very effective for bleeding treatment (Hemostasis)



RF curer™		
Model	Length (mm)	Diameter (Ø)
RF-HLB	400	2.46
RF-HSB	250	2.46
RF-HBS	380	2.46
RF-400G	400	2.46

### TECHNIQUE



Before Procedure

During the Procedure

After the Procedure

### INDICATION

- + Herniated nucleus pulposus
- + Discogenic pain
- + Contained disc herniations
- + Herniated disc degeneration

### BENEFITS

- + Short procedure and low risk therapy
- + Local anesthesia
- + Minimally invasive to minimal defect of patient's musculo-skeletal structure
- + 1 hour treatment
- + 1 day admission and discharge procedure

### COMPONENTS

#### RF Cannula Set

1. Start pin



2. Guide wire



3. RF Cannula



#### RF Generator

- Bipolar
- RF Electrosurgical unit for small surgery
- Function : Cut, COAG.
- Time check available
- Power source : AC120V or AC230, 50Hz/60Hz
- Main Frequency : 1.6MHz
- Bipolar Coagulation : 70W / 100 Ω
- Blend Cut : 80W / 300 Ω
- Protection class : Class 1, Type BF
- Dimension (WxDxH) : 370x310x110
- Weight : 6.5 KG



#### Adapters



A1 Type



A2 Type



B Type



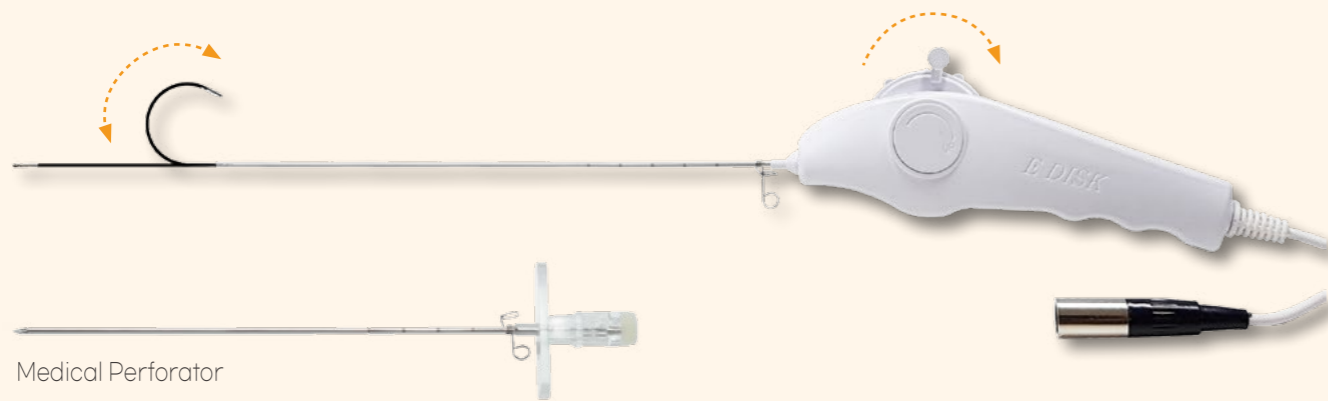
C Type

# E DISK™

## PERCUTANEOUS DISCECTOMY DEVICE FOR LUMBAR

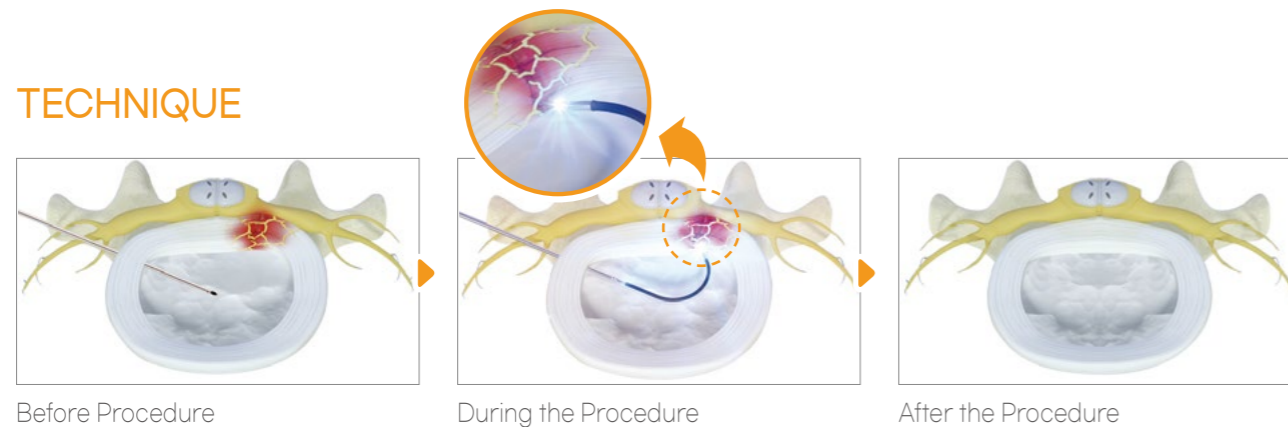
For effective pain management without spinal surgery

- + A directional control electrode to approach to HNP(Herniated Nucleus Pulposus)



E DISK™		
Model	Length (mm)	Tip Diameter (Ø)
E DISK - NL	223.5	1.5
E DISK - NC	134.5	1.5
E DISK - NL340	374	1.5

### TECHNIQUE



### INDICATION

- + Herniated nucleus pulposus
- + Discogenic pain
- + Contained disc herniations
- + Herniated disc degeneration

### BENEFITS

- + Short procedure and low risk therapy
- + Local anesthesia
- + Minimally invasive to minimal defect of patient's musculo-skeletal structure
- + 1 hour treatment
- + 1 day admission and discharge procedure

### COMPONENTS

#### Medical perforator



#### RF Generator

- Bipolar
- RF Electrosurgical unit for small surgery
- Function : Cut, COAG.
- Time check available
- Power source : AC120V or AC230, 50Hz/60Hz
- Main Frequency : 1.6MHz
- Bipolar Coagulation : 70W / 100 Ω
- Blend Cut : 80W / 300 Ω
- Protection class : Class 1, Type BF
- Dimension (WxDxH) : 370x310x110
- Weight : 6.5 KG

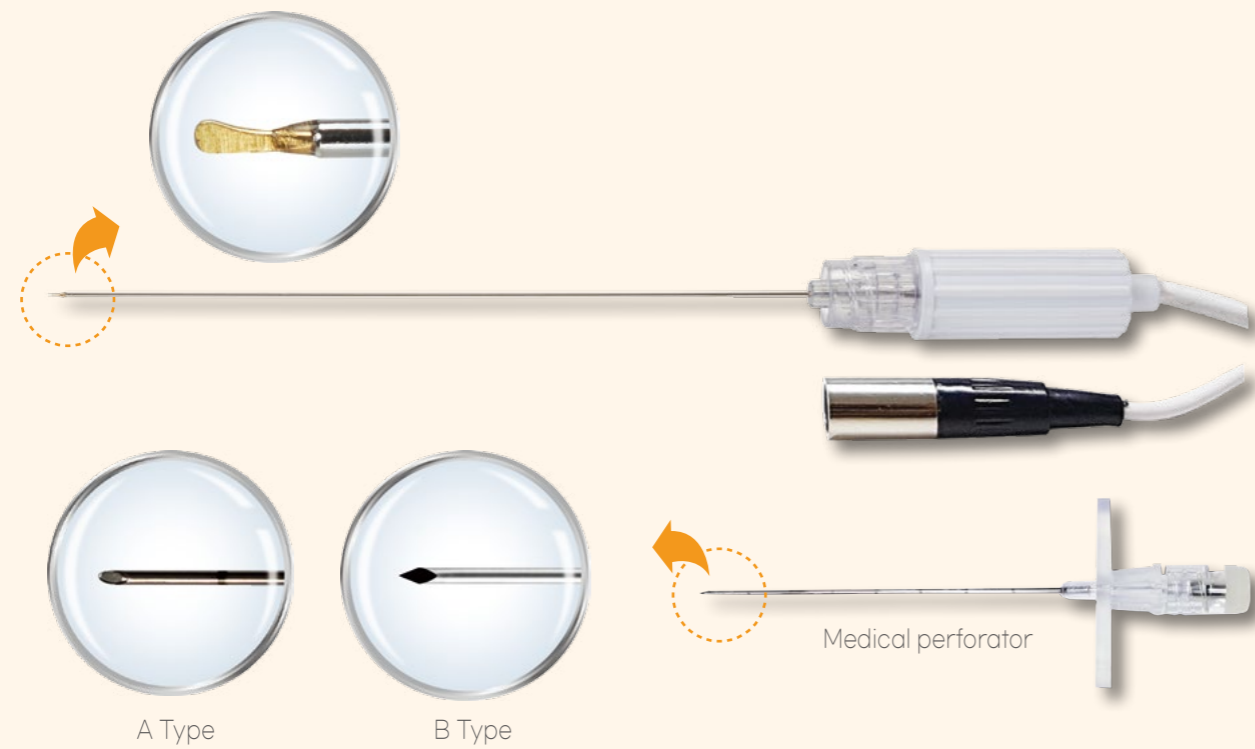


#### Adapters



# E DISK - SC

## PERCUTANEOUS DISCECTOMY DEVICE FOR CERVICAL (A SINGLE USE STERILIZED DEVICE)



E DISK - SC		
Model	Length(mm)	Diameter(Ø)
E DISK - SC	110	0.9



### INDICATION

- + Cervical herniated nucleus pulposus (including bulging or protrusion morphologies)
- + Discogenic pain
- + Contained disc herniations

### BENEFITS

- + Short procedure and low risk therapy
- + Minimally invasive to minimal defect of patient's musculo-skeletal structure
- + 1 hour treatment
- + 1 day admission and discharge procedure

### COMPONENTS

#### Medical perforator



#### RF Generator

- Bipolar
- RF Electrosurgical unit for small surgery
- Function : Cut, COAG.
- Time check available
- Power source : AC120V or AC230, 50Hz/60Hz
- Main Frequency : 1.6MHz
- Bipolar Coagulation : 70W / 100 Ω
- Blend Cut : 80W / 300 Ω
- Protection class : Class 1, Type BF
- Dimension (WxDxH) : 370x310x110
- Weight : 6.5 KG



#### Adapters

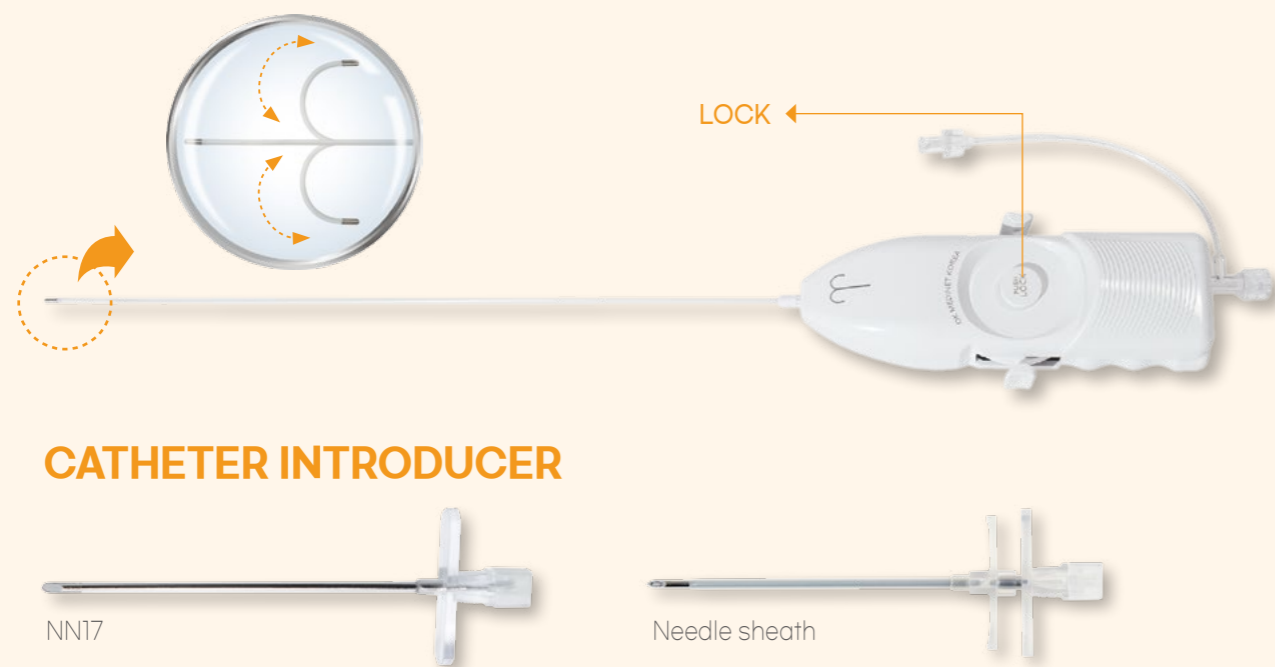


# NVC™ (NAVI Catheter)

## PERCUTANEOUS EPIDURAL NEUROPLASTY

### Spine Neuroplasty Without Surgery

- + Dual direction steering lever
- + Push&Pull lock function



### CATHETER INTRODUCER



### NVC™ (NAVI Catheter)

Model	Length (mm)	Diameter (Ø)
NNVC 21	320	2.1
NNVC 19	320	1.75 ~ 1.9

### COMPONENTS

#### Catheter Introducer

Model	Length (mm)	Diameter (Ø)
Needle sheath	110	O.D=2.8
NN17	93	O.D=2.7

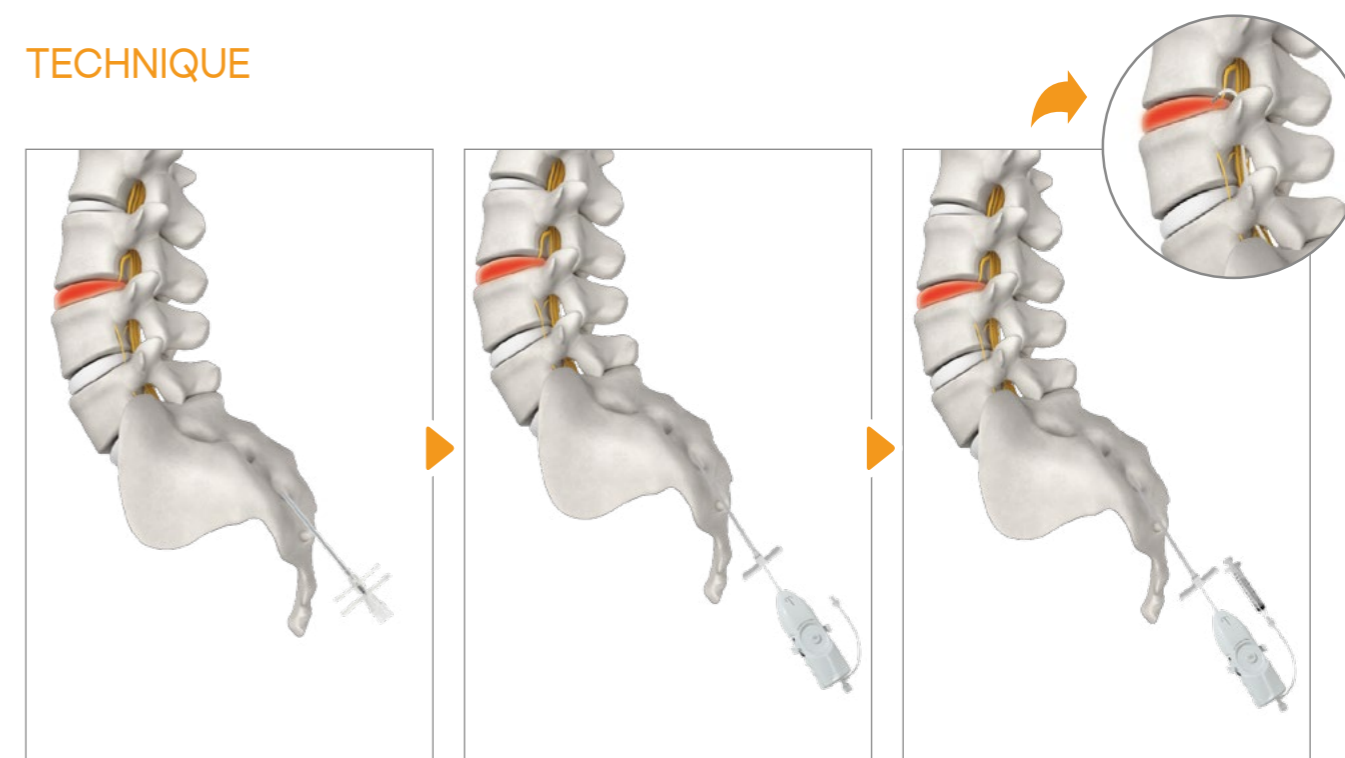
### INDICATION

- + Backache syndrome after surgery : Failure syndrome after spine surgery
- + Chronic spine pains: Spinal stenosis
- + Intractable backache and sciatic neuralgia

### BENEFITS

- + Drug backdraft prevention
- + Dual direction steering lever
- + Minimally invasive surgery
- + Push&Pull lock function
- + 1 hour treatment
- + 1 day admission and discharge procedure

### TECHNIQUE

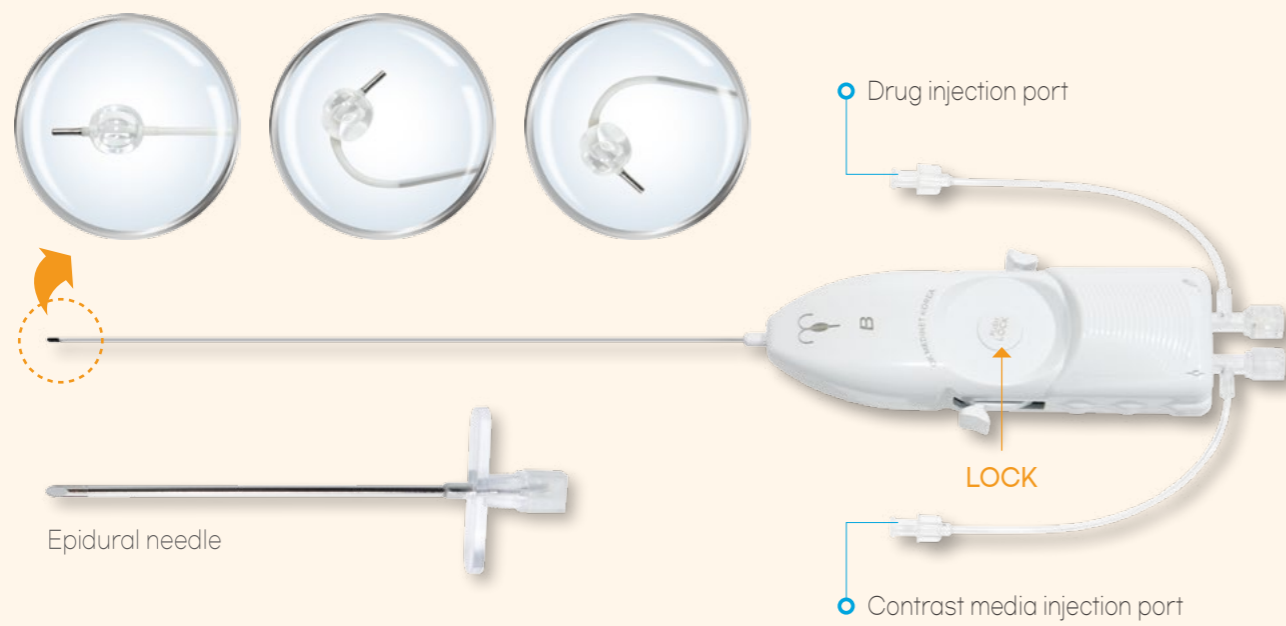


- 1 Local anesthesia in the tailbone area
- 2 Insert the puncture needle with sheath.
- 3 Remove the puncture Needle from sheath after puncture
- 4 Insert the catheter into the sheath to reach the lesion area.
- 5 Detach the adhesion in the space and place the catheter tip on the lesion.
- 6 Inject the medicine to the lesion.

# BNVC (Balloon NAVI Catheter)

## BALLOON-PEN (PERCUTANEOUS EPIDURAL NEUROPLASTY)

Neuroplasty is an effective medical procedure to help reduce inflammation in a lesion.



BNVC		
Model	Length (mm)	Diameter (Ø)
BNVC	320	1.75
Epidural needle	93	O.D=2.7

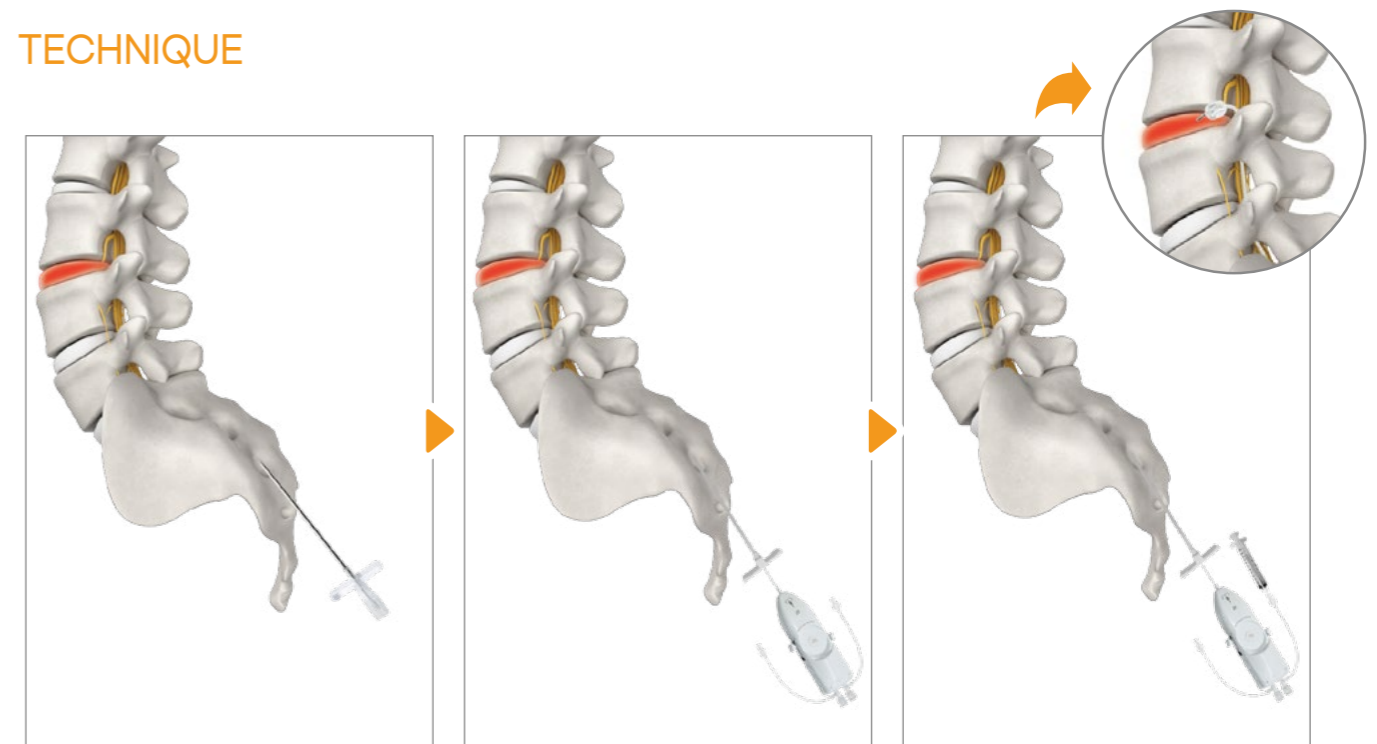
### INDICATION

- + Early and middle stage spinal stenosis
- + Adhesions due to disc and spinal diseases
- + Acute/chronic back pain
- + Numbness of the foot due to stenosis
- + Persistent pain following spinal surgery
- + Lumbar herniated intervertebral disc

### BENEFITS

- + Local anesthesia
- + Steerable in both directions
- + Ave. time for Procedure : 15 - 30 min
- + Inflate the balloon to open a neural pathway and inject the medicine.
- + Tip clearly visible on the c-arm, easy to check the position.
- + Inject a desired amount of medicine while securing space for the neural tube with a balloon.
- + Detach the adhered tissues and inject the drug directly into the lesion.

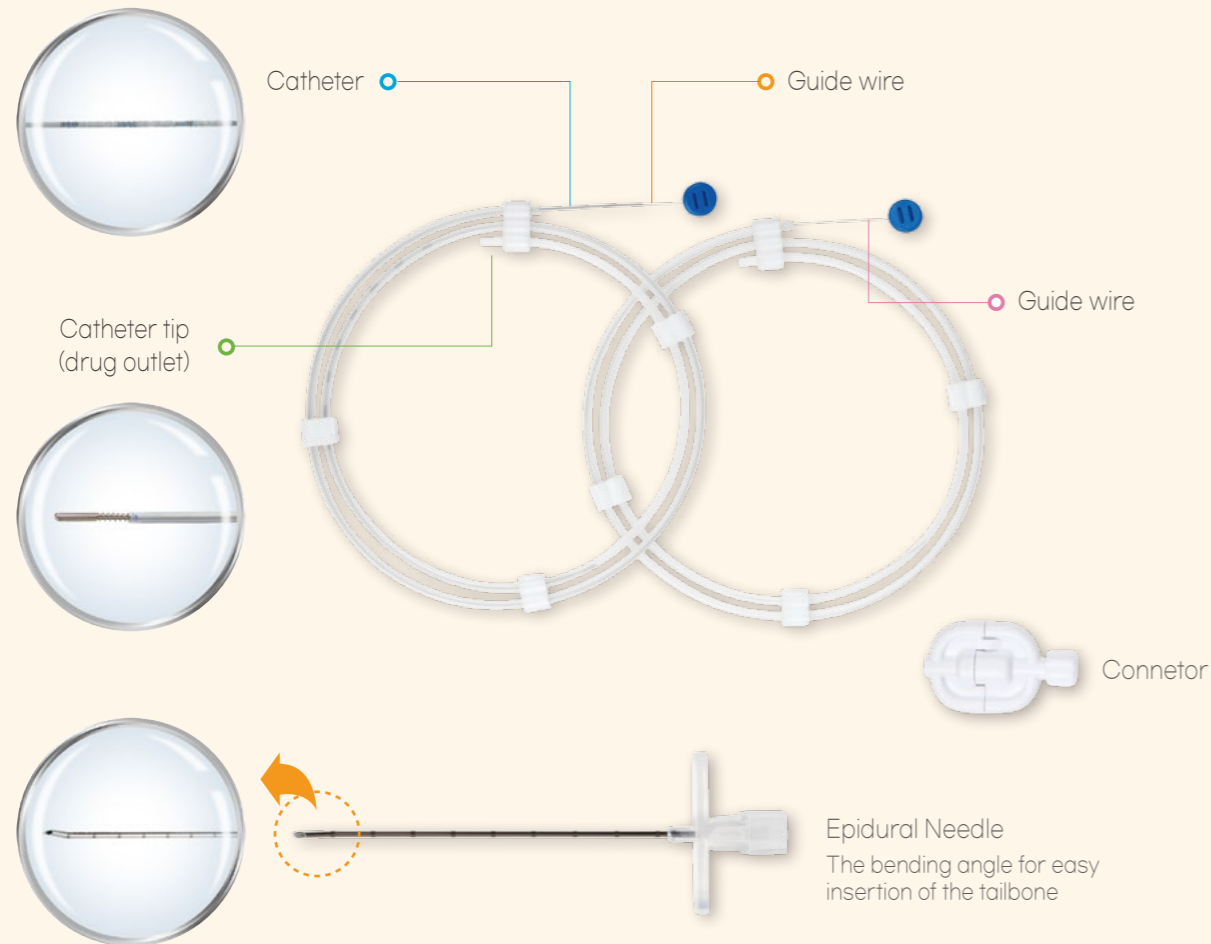
### TECHNIQUE



- 1 Local anesthesia in the tailbone area
- 2 Insert the puncture needle with sheath.
- 3 Remove the puncture Needle from sheath after puncture
- 4 Insert the catheter into the sheath to reach the lesion area.
- 5 Inflate the catheter balloon to secure the epidural space between the disc and the nerve.
- 6 Detach the adhesion in the space and place the catheter tip on the lesion.
- 7 Inject the medicine to the lesion.

# OK RAZU™

## EPIDURAL ADHESIOLYSIS OR DECOMPRESSIVE NEUROPLASTY



### SPECIFICATION

OK RAZU™			
Model	Type	Catheter Length(mm)	Catheter Diameter (Ø)
OKL60	Lumbar	600	1.1
OKC30	Cervical	300	0.8

### COMPONENTS

Type	Epidural needle length (mm)	Epidural needle diameter (Ø)
Lumbar	90	1.78
Cervical	90	1.3

### INDICATION

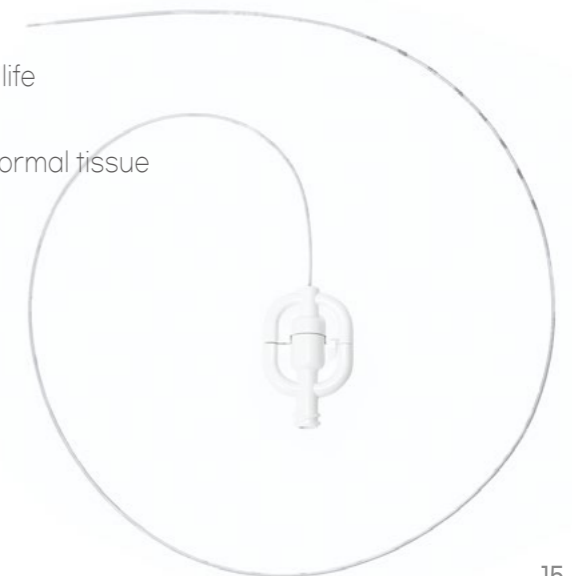
- + Chronic back pain patients and disc pain patients
- + A mild case of spinal stenosis
- + Pain is not severe enough to operate, but still persists
- + Patients need surgery, but do not have spare time
- + Nonanesthesia-free disc patients
- + Patients with persistent postoperative pain
- + Patients with persistent pain even after medication, physical therapy, and neuroblocking

### TREATMENT PROCESS

- + Partially anesthetize areas with lesions, such as the patient's tailbone or neck.
- + Insert a special catheter(about 1mm) with radiation image amplification device.
- + Check for inflammation or nerve adhesion area that causes pain.
- + Remove the extra tissue or inject medication to down the swelling and treat inflammation.

### ADVANTAGE

- + Short treatment time(about 20 mins) leads fast return to daily life
- + No scars and no bleeding, no blood transfusions required
- + Use of a special catheter(about 1mm) leads less damage to normal tissue
- + Less pain during or after treatment
- + Minimally invasive surgery under local anesthesia
- + Repetitive treatments are available at any time





# KYBS™

## KYPHOPLASTY BALLOON SYSTEM

The Balloon recovers vertebral morphology intact and makes a cavity to inject fluid from the pressurizer to cement after insertion into damaged vertebral body.

- + Vertebral compression fracture due to Osteoporosis
- + Osteolytic fracture
- + Metastatic bone fractures



KYBS™				
No	Components	Single	Double	
1	KY Balloon	1 ea	2 ea	
2	Balloon Dilator	1 ea	2 ea	
3	Osteo Toolkit Set	Start Needle	1 ea	2 ea
		Guide Wire	1 ea	2 ea
		Cannula & Expander	1 set	2 set
		Spacer	1 ea	1 ea
		Bone Cement Filler & Pusher	3 set	6 set

## TECHNIQUE



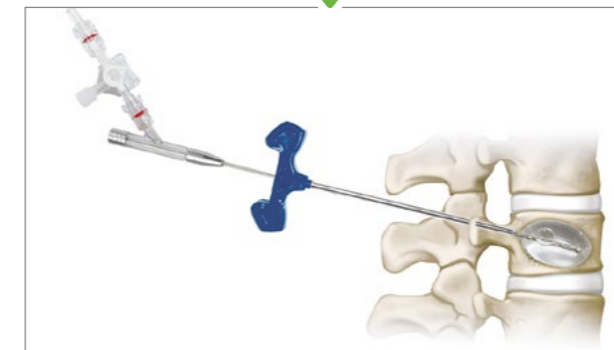
01

Spinal Fracture, also known as Vertebral Compression Fracture(VCF).



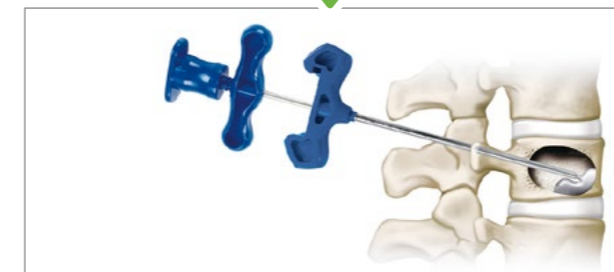
02

Through two small incisions, the doctor creates narrow pathway into the fractured bone and inserts two Kypho balloons.



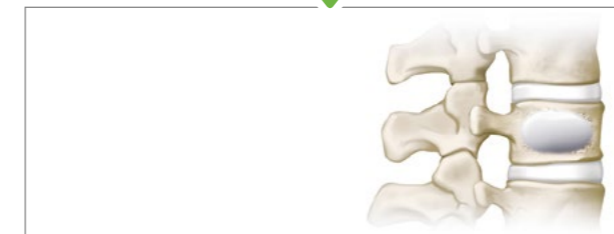
03

The balloons are carefully inflated in an attempt to raise the collapsed vertebra and return it to its normal position. The balloons are deflated and removed, leaving a cavity within the bone.



04

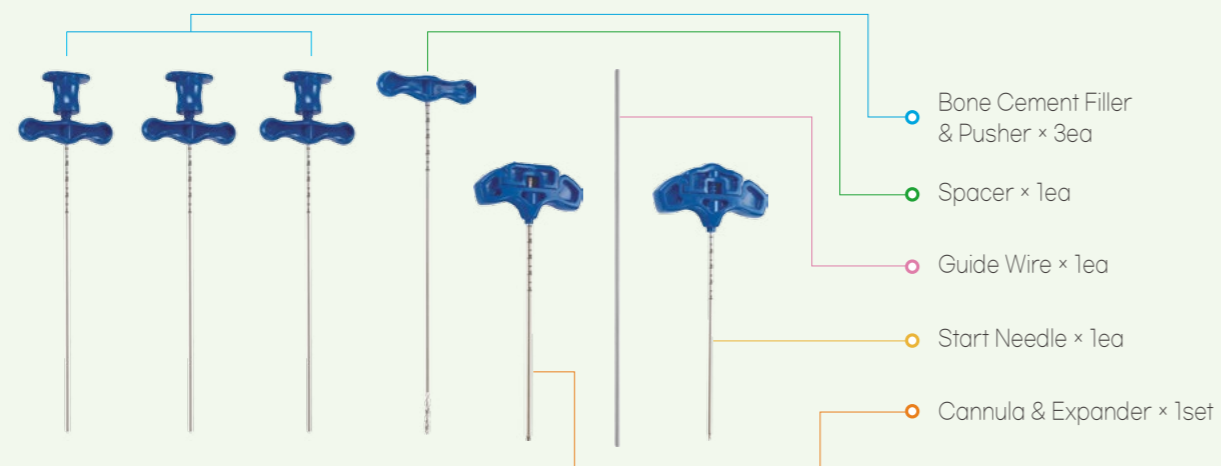
The cavity is filled with a bone cement to support the surrounding bone and prevent further collapse.



05

The cement forms an internal cast that holds the vertebral place.

# Osteo Toolkit Set™

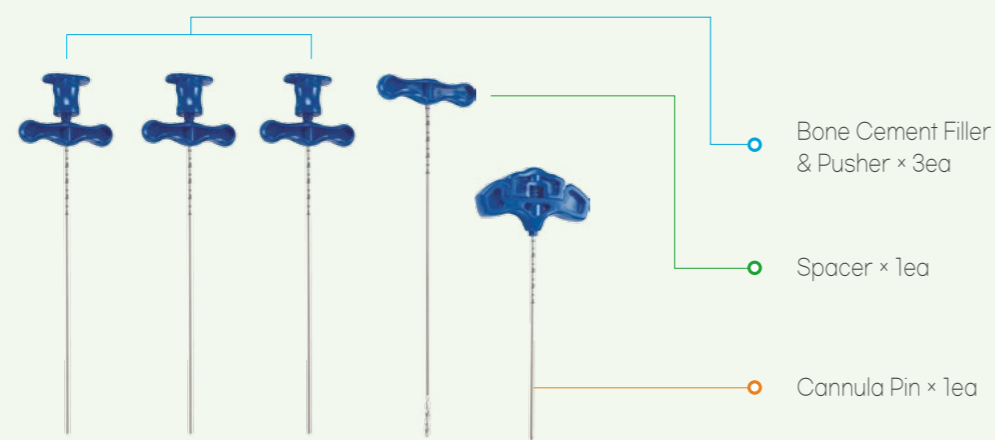


Osteo Toolkit Set™					
Component	Q'ty	Dimension (Ø)	Component	Q'ty	Dimension (Ø)
Start Needle	1ea	2.6	Spacer	1ea	3.5
Expander & Cannula	1set	4.3	Bone Cement Filler & Pusher	3set	3.5
Guide Wire	1ea	1.8			

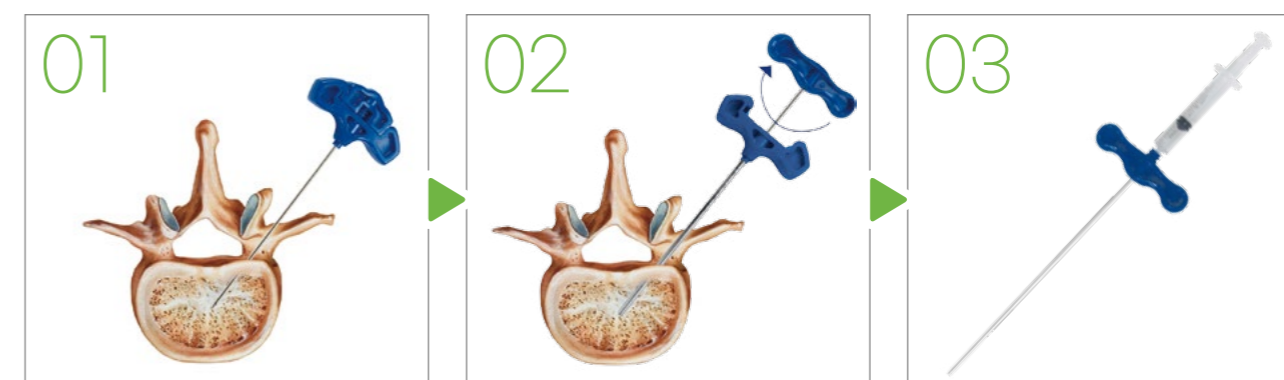
  

	OTN System8		OTN System10	
Component	Q'ty	Diameter(Ø)	Q'ty	Diameter(Ø)
Cannula Pin	1ea	4.3	1ea	3.5
Spacer	1ea	3.5	1ea	2.8
Bone Cement Filler & Pusher	3set	3.5	3set	2.8

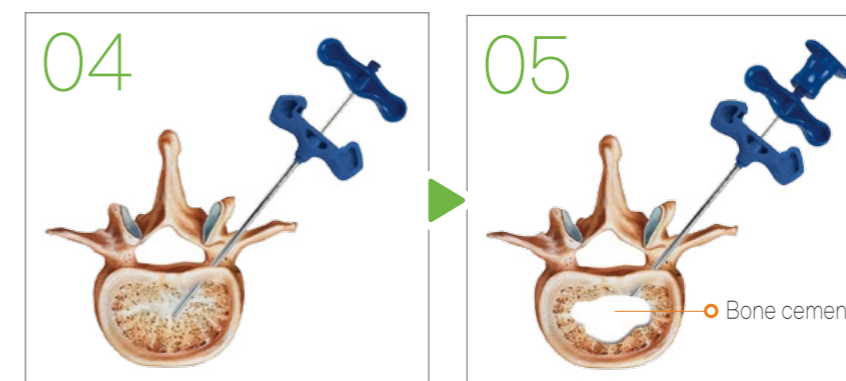
# OTN System™



## TECHNIQUE



**01** Approach to entry point of facet joint.  
**02** Remove the Guide Pin and push the Spacer through the Introducer Needle to make the space for injecting the bone cement.  
**03** Fill up the bone cement into the Bone Cement Pipe.



**04** Insert the Bone Cement Pipe through the Introducer Needle.  
**05** Infuse the bone cement into the body by Pusher.

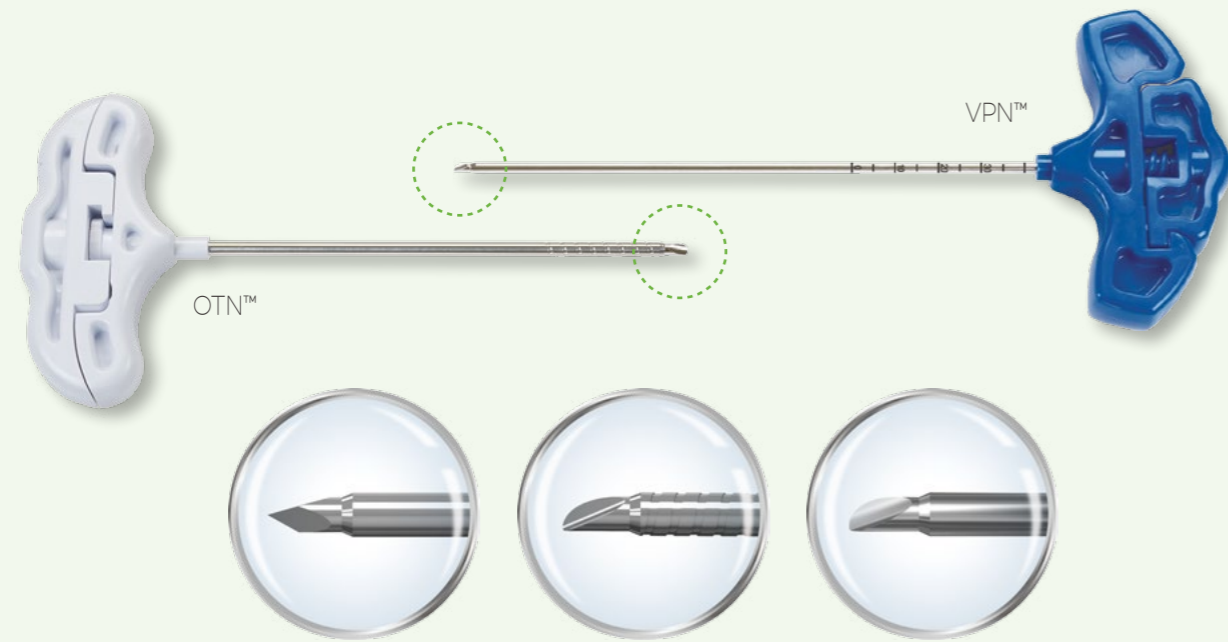
## INTRODUCTION

- + Through the pedicle of damaged vertebral body, enter Guide Wire, Expander & Cannula using manual control.
- + Inject the proper quantity of bone cement into the operating region with Cannula.

## FEATURES AND BENEFITS

- + Possible to safely inject high density bone cement with required amounts.
- + Easy to make a hole by enclosed 'Spacer', and possible to insert the 'Cement Pipe' without pain.
- + By infusing high density bone cement, it can be adopted to the fracture body.
- + Almost no complication.

# Vertebroplasty Puncture Needle



## INDICATION

- + Vertebral compression fracture
- + Osteoporosis
- + Spine deformity
- + Metastatic bone tumor

## FEATURES AND BENEFIT

- + With Thread Filler, slowly touch in the vertebral place with pain reduced
- + Pain relief
- + Reinforcement
- + Stabilize the spine rigidity
- + Decompress the spinal cord and nerves

## Specification

Model	10G	11G	11G-103	12G	12G-103	13G
Diameter(Ø)	3.5	3	3	2.6	2.6	2.4
Type						

## INJECTOR

The tool is for infusing bone cement, by connecting with syringe filled with bone cement. Image of combination as Cement Dispenser(VP Needle™) + syringe with bone cement + Injector™



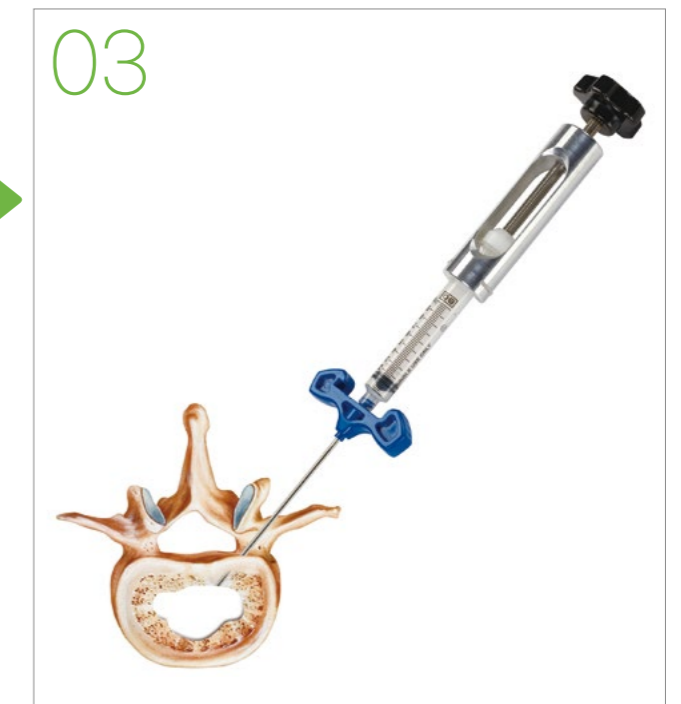
## TECHNIQUE



Advance the Guide pin and Filler through the pedicle into the vertebral body.

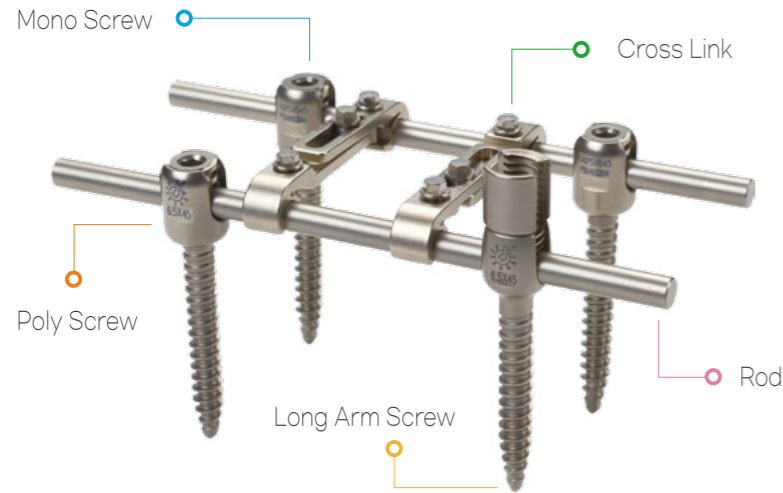


Remove the Guide Pin leaving the Filler in the place.



Inject bone cement through the Filler.

# Pedicle Screw Spinal Fixation System



## POLY AXIAL SCREW

Poly Axial Screw provides variation of 34° in angle with excellent locking, and increases safety of the implant.

- + Easy insertion
- + Maximum load evenly distributed
- + Protection of screw pull-out

# Helix Cage™



## INDICATION

- + The Helix Cage™ is lumbar interbody fusion device and the implant is composed of titanium 6AL-4V ELI alloy material.
- + It will stabilize the spine and allow bone ingrowth between vertebral bodies.
- + The Helix Cage™ is inserted on its side between adjacent vertebral bodies and then rotated 90 degrees into the place.
- + Primary surgery for advanced discopathies or extensive decompressions : Laminectomy, facetectomy, foraminotomy, etc.
- + Revision surgery for failed disc operation
- + Revision disc herniation
- + Post-operative instability
- + Lumbar stenosis



# Gamma Knife screw™

## SCREW CASE



## FIXATION SCREW



The tool is for fixing and tightening bone, made with safety confirmed materials. It is consisted of screw and extended screw, etc. When the operation with Gamma Knife, it is for fixing the patient's head not to be moved by connecting with the frame in the operation room.

Extension screw		
Model	mm	
	B	C
GKES-2-05	10	5
GKES-2-10	15	

Fixation screw			
Model	mm		
	A	B	C
GKFS-1-00	0	20	6.5
GKFS-1-05	4.3		
GKFS-1-10	9.3		
GKFS-1-15	14.3		
GKFS-1-20	19.3		
GKFS-1-25	24.3		
GKFS-1-30	29.3		
GKFS-1-35	34.3		
GKFS-1-40	39.3		
GKFS-1-45	44.3		
GKFS-1-50	49.3		
GKFS-1-55	54.3		
GKFS-1-60	59.3		

