

# Kyphoplasty System





*Percutaneous Vertebroplasty and, more recently, **Kyphoplasty**, are Vertebral Body Augmentation procedures used for the treatment of painful vertebral compression fractures caused by osteoporosis, tumors or trauma.*



## KYPHOPLASTY SYSTEM

Kyphoplasty Tool

Kyphoplasty Balloon

Kyphoplasty Inflation Pump

# KYPHOPLASTY TOOL

## *Percutaneous Access Device (ZT-I)*

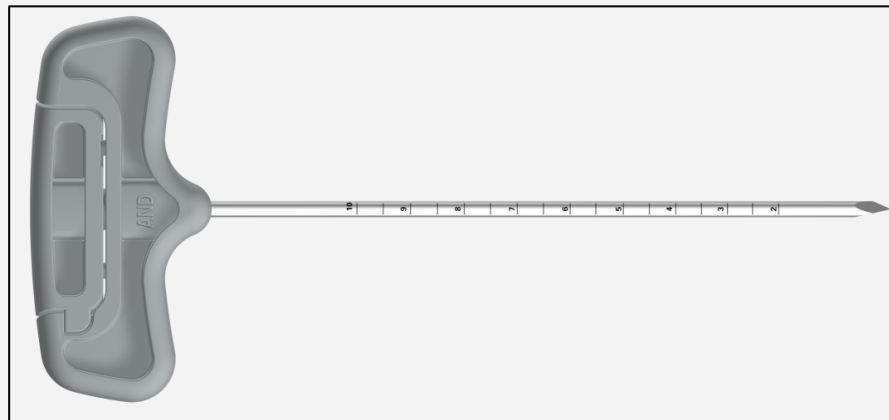
### **Sizes:**

Φ2.5mm(customize)-120mm

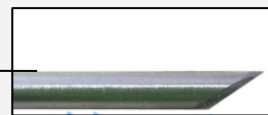
Φ3.0mm-128mm

Φ4.2mm-138mm

**Scale Mark:** 10 cm



Tip: Bevel and diamond type

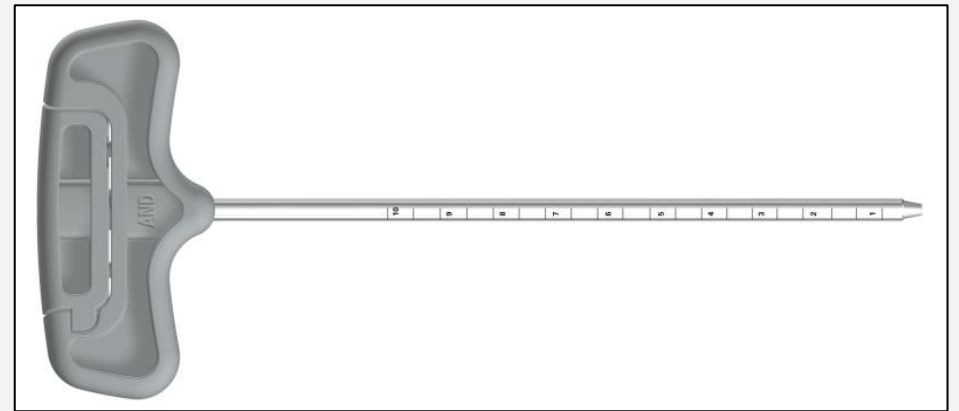




## *Expansion Cannula (ZT-II)*

**Size:**  $\Phi$  4.2mm-137mm

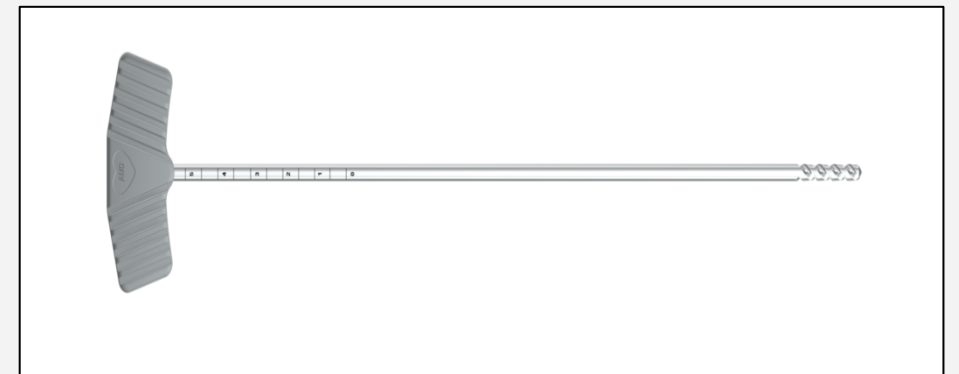
**Scale Mark:** 10cm



## *Aiguille (ZT-II)*

**Size:**  $\Phi$  3.5mm-250mm

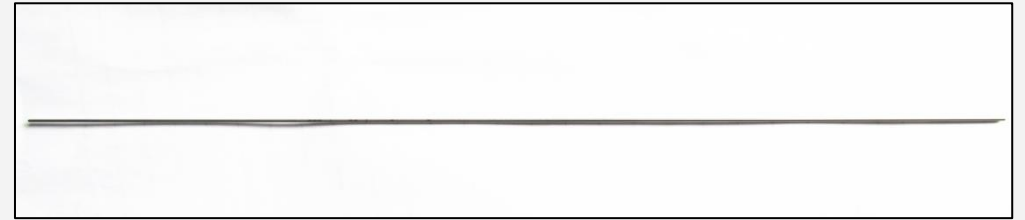
**Diamond tip (Solid & Precision)**





## *Guide Wire (ZT-II)*

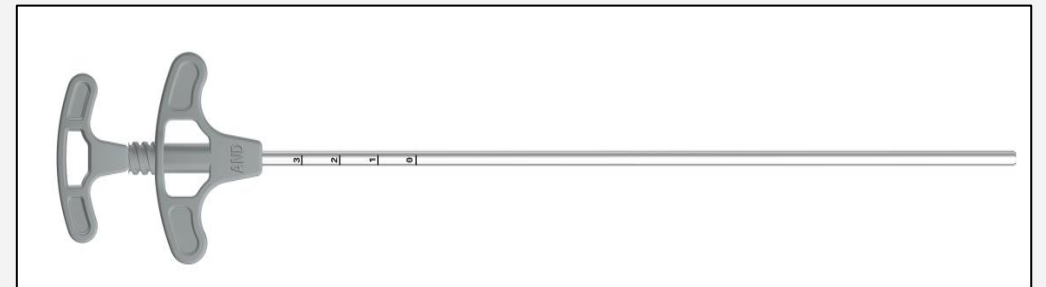
**Size:**  $\Phi$  1.55mm-268mm



## *Bone Cement Applier (ZT-III)*

**Size:**  $\Phi$  3.5mm-250mm

**Volume:** 1.5ml/pc





## *Kyphoplasty Tools are available in following configurations:*



D-set (standard)

|                                 |      |
|---------------------------------|------|
| Φ3.0 Percutaneous Access Device | 2pcs |
| Φ4.2 Expansion Cannula          | 2pcs |
| Φ3.5 Aiguille                   | 1pc  |
| Φ3.5 Bone Cement Applicator     | 6pcs |
| Guide wire                      | 1pc  |



B-set

|                                 |      |
|---------------------------------|------|
| Φ3.0 Percutaneous Access Device | 1pc  |
| Φ4.2 Expansion Cannula          | 1pc  |
| Φ3.5 Aiguille                   | 1pc  |
| Φ3.5 Bone Cement Applicator     | 4pcs |
| Guide wire                      | 1pc  |

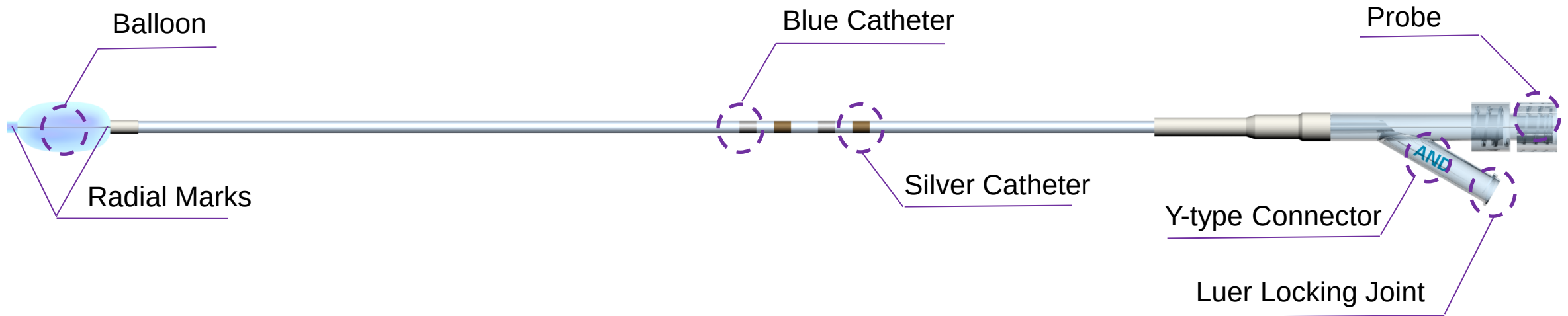


G-set

|                                 |      |
|---------------------------------|------|
| Φ4.2 Percutaneous Access device | 1pc  |
| Φ3.5 Aiguille                   | 1pc  |
| Φ3.5 Bone Cement Applicator     | 4pcs |
| Guide wire                      | 1pc  |



# KYPHOPLASTY BALLOON

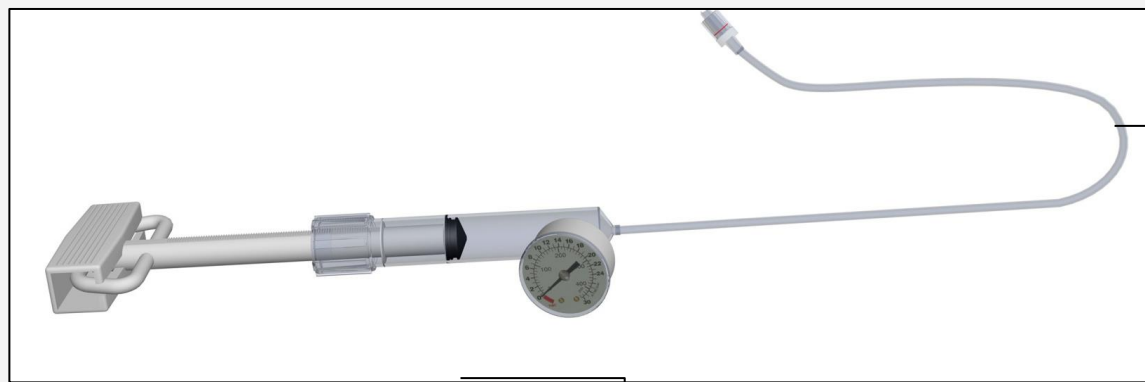


| Type/Model | Specifications | Initial Length | Pressure         |
|------------|----------------|----------------|------------------|
| QN-I       | 10             | 10mm $\pm$ 10% | 400PSI $\pm$ 10% |
|            | 15             | 15mm $\pm$ 10% | 400PSI $\pm$ 10% |
|            | 20             | 20mm $\pm$ 10% | 400PSI $\pm$ 10% |



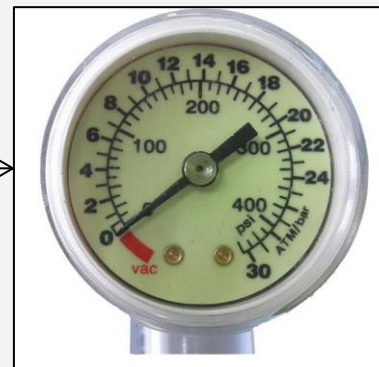


# KYPHOPLASTY INFLATION PUMP



Luer Locker Connector

| Model  | Maximum Range |
|--------|---------------|
| YLB-20 | 20 atm        |
| YLB-25 | 25 atm        |
| YLB-30 | 30 atm        |
| YLB-40 | 40 atm        |

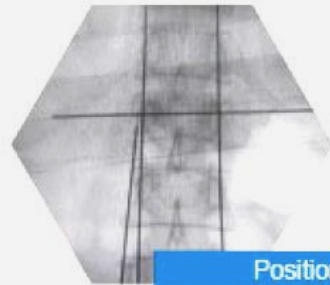


Range: 0-40 Atm

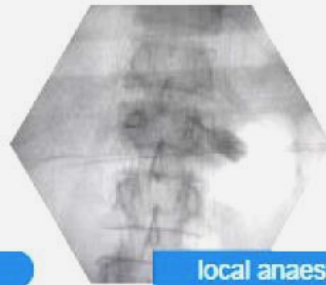


1atm=101325Pa  
1 atm=760mmHg

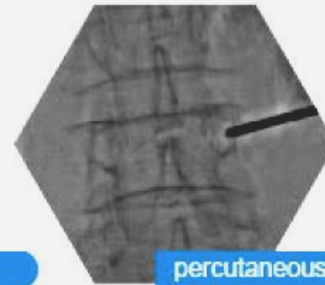
## Operation Steps



Position



local anaesthesia



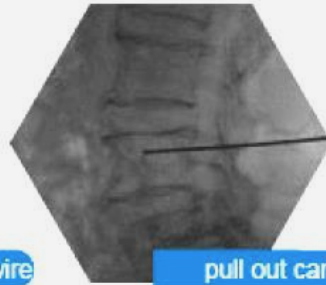
percutaneous puncture



approach



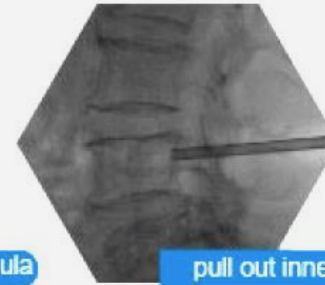
pull out probe, insert wire



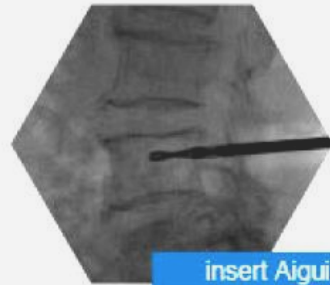
pull out cannula



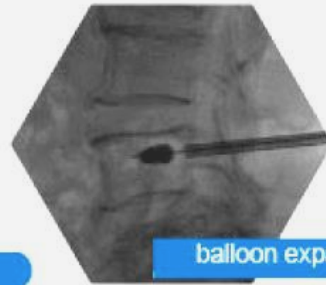
Insert expansion cannula



pull out inner cannula



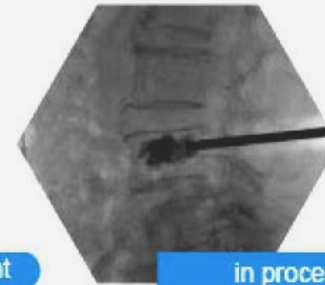
insert Aiguille



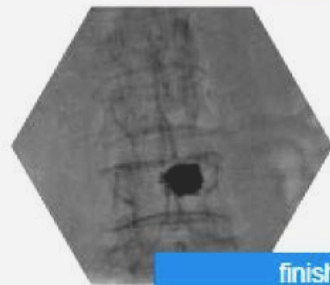
balloon expansion



insert bone cement



in process



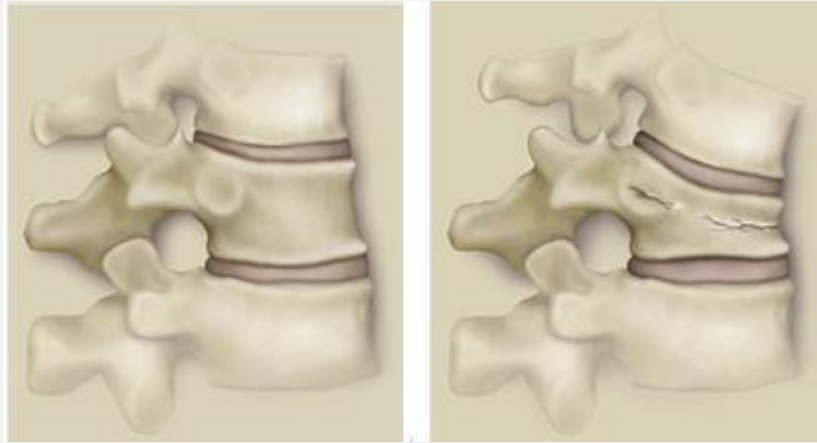
finish





## PRODUCT FEATURES

- Three sizes (10mm, 15mm, 20mm) to fit more indications
- Simple, ease-of-use balloon pump device
- Radiopaque markers on the balloon indicates accurate positioning
- Percutaneous surgical approach
- Decrease the risk of cement leakage
- Rapidly restore the collapsed vertebral body



## INDICATIONS:

- Vertebral compression fractures
- Vertebral tumor
- Fresh back wall fracture of the elderly
- To carry drugs to enhance PVP effect

## CONTRAINDICATIONS:

- Patients with 75% vertebral compression fracture
- Patients with vertebral posterior fracture or broken
- Patients with dysfunction of blood coagulation
- Patients in terminal stage
- Patients with serious cardiopulmonary diseases



## ***TAKE AWAY POINTS***

- ✓ *Minimal invasive surgery*
- ✓ *Easy operation procedures*
- ✓ *Small risk, low complications*
- ✓ *Quick to recover*
- ✓ *Release pain and reinforce damage*
- ✓ *Local anesthesia*





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