

## Vertebroplasty accessories

Vertebral body stabilisation with Vertebroplasty

| Article  | Packing unit    |    | Art.-No.         |                  |                  |
|--|-----------------|----|------------------|------------------|------------------|
| <b>Injection System / Syringe</b>                  |                 |    |                  |                  |                  |
| 2.5 ml syringe with wings and Luer-lock connection | 20              |    | SI02.5L /L-A     |                  |                  |
| <b>Application Cannulas</b>                        |                 |    |                  |                  |                  |
| <b>VERTEBROSTEEL®</b>                              |                 |    |                  |                  |                  |
|  | <b>Diameter</b> |    | <b>100 mm</b>    | <b>120 mm</b>    | <b>150 mm</b>    |
| 11 G   | 3.00 mm         | 10 | KMFVT1110000C-A  | KMFVT1112000C-A  | KMFVT1115000C-A  |
| 13 G   | 2.50 mm         | 10 | KMFVT1310000C-A  | KMFVT1312000C-A  | KMFVT1315000C-A  |
| 15 G   | 1.80 mm         | 10 | KMFVT1510000C-A  | KMFVT1512000C-A  | KMFVT1515000C-A  |
| <b>VERTEBROPLASTIC® - Bevel Tip</b>                |                 |    |                  |                  |                  |
| 11 G   | 3.00 mm         | 10 | KRVT1110200CBP-A | KRVT1112200CBP-A | KRVT1115200CBP-A |
| 13 G   | 2.50 mm         | 10 | KRVT1310200CBP-A | KRVT1312200CBP-A | KRVT1315200CBP-A |
| 15 G   | 1.80 mm         | 10 | KRVT1510200CBP-A | KRVT1512200CBP-A | KRVT1515200CBP-A |
| <b>VERTEBROPLASTIC® - Trocar Tip</b>               |                 |    |                  |                  |                  |
| 11 G   | 3.00 mm         | 10 | KRVT1110200CT-A  | -                | KRVT1115200CT-A  |



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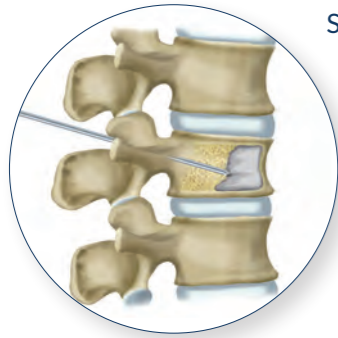
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## Vertebroplasty procedure



Since the early 1990s, vertebroplasty has been established as a proven method in spine surgery for the treatment of vertebral body fractures, which cause severe back pain in most cases. Especially due to osteoporosis, but also e.g. tumor diseases, the stability of the bone is decreased, which leads to deformations that result in pain for the affected patient. Also, the irritation of the periosteum in the area of the damaged vertebra, which contains a lot of nerves, can cause severe pain.

By the use of percutaneous vertebroplasty, the affected vertebral body is being stabilized from the inside with PMMA bone cement in a minimally invasive procedure by filling of defects and strengthening fractured vertebral bodies. A further or repeated deformation of the bone is therefore avoided and severe back pain is eliminated.

## Vertebroplasty accessories

For the application of the PMMA bone cement into the vertebral body during a vertebroplasty procedure several accessories are used e.g. injection systems/syringes. After mixing of the PMMA bone cement components the PMMA bone cement is transferred out of the mixing system into injection systems or syringes. After filling of the injection systems/syringes the PMMA bone cement is injected over cannulas into the vertebral body to be treated. The PMMA bone cement will be hard in just minutes – see handling chart of the PMMA bone cement.

Vertebroplasty is little stressful and elderly patients can be treated outpatient with local anesthesia. The treatment of several vertebral bodies is possible with one surgical procedure.

### Injection system / Syringe



#### 2.5ml syringe

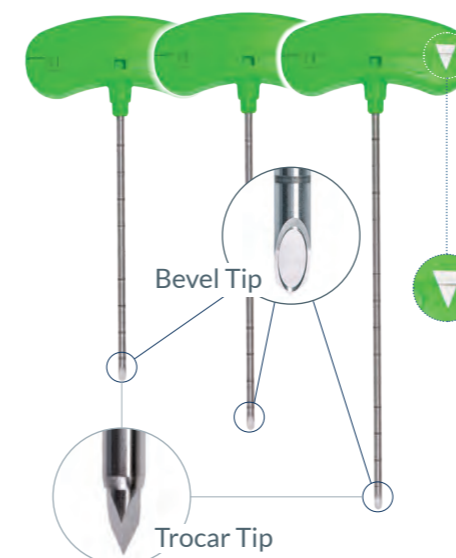
- Syringe with 2.5 ml capacity
- Self-explanatory handling
- Standard Luer-lock connection for all standard vertebroplasty components
- Easy to use

### Application cannulas



#### VERTEBROSTEEL® cannulas

- AISI 304 stainless steel cannula and stylet
- Cannula with ergonomic steel handle
- Easy handling of the needle due to enhanced design of the steel handle
- Coaxial biopsy can be performed with VERTEBROSTEEL®
- Tip Direction Indicator
- Three different lengths  
100 mm | 120 mm | 150 mm
- Diameter  
3,00 mm (11 G) | 2,50 mm (13 G) | 1,80 mm (15 G)



#### VERTEBROPLASTIC® cannulas

- AISI 304 stainless steel cannula and stylet
- Cannula with plastic handle
- Ergonomic grip with locking system
- Easy handling of the needle due to enhanced design of the plastic handle
- Coaxial biopsy can be performed with VERTEBROPLASTIC®
- Tip Direction Indicator (just for Bevel Tip)
- Different lengths  
Bevel Tip: 100 mm | 120 mm | 150 mm  
Trocar Tip: 100 mm | 150 mm
- Diameter  
Bevel Tip: 3,00 mm (11 G) | 2,50 mm (13 G) | 1,80 mm (15 G)  
Trocar Tip: 3,00 mm (11 G)