

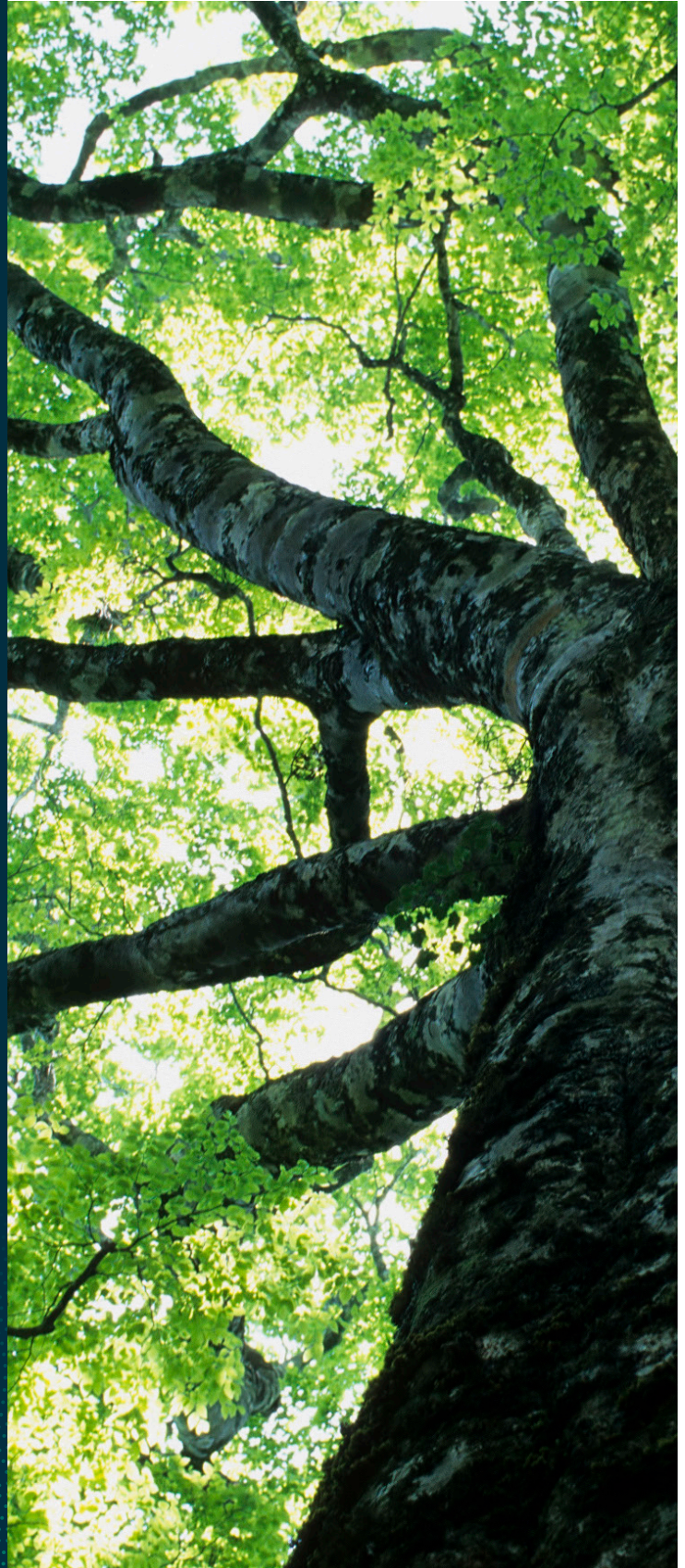
U.S.

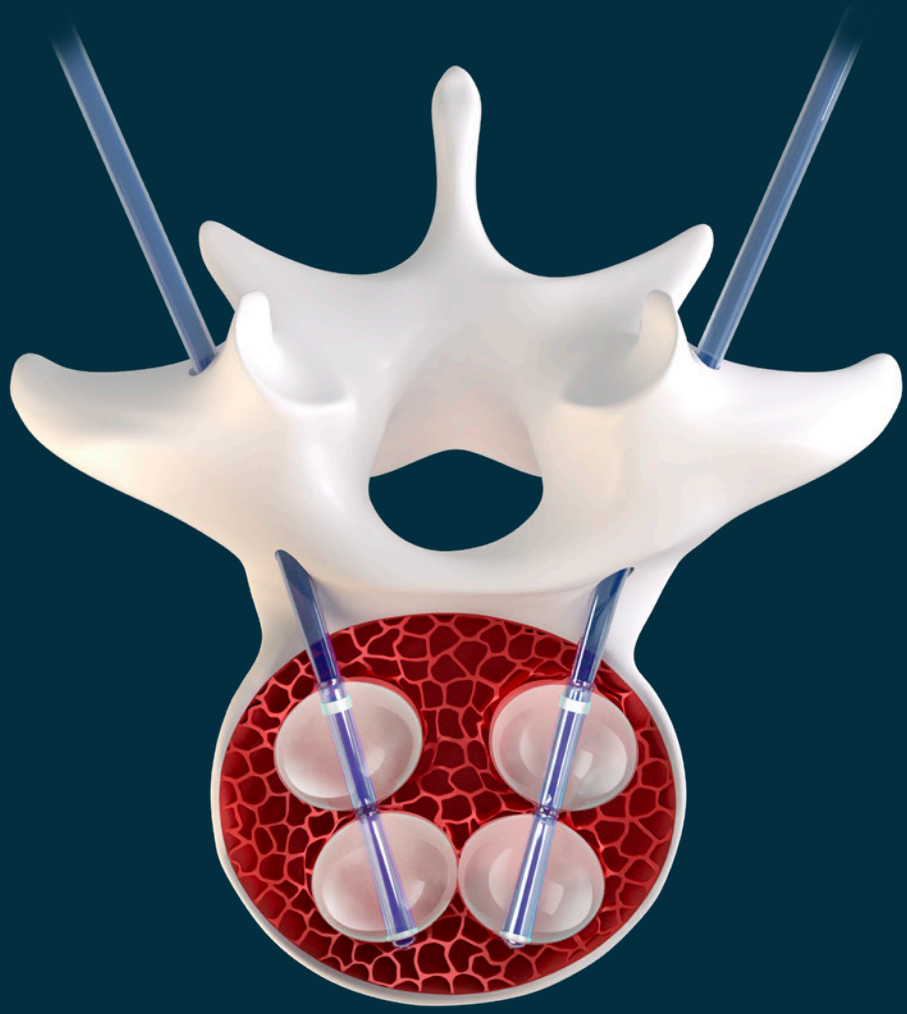
Spine Portfolio 2026

Vertebral Body Reconstruction
Quattroplasty®
Balloon Kyphoplasty

Joline® Medical
Inc.

Experts in Care.





Quattroplasty®



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Vertebral Body Reconstruction Balloon Kyphoplasty

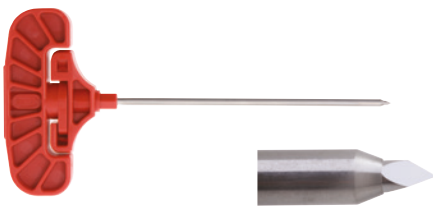


Bone Access Instruments

Classic Access

**Vertebra Access Device
with Trocar Tip Access Needle**
US9101

The Vertebra Access Device, Trocar Tip is also known in professional circles as the Jamshidi-Needle.



Guide Pin, blunt
US9102

The Guide Pin, blunt acts as a guide for the Vertebra Introducer Device (US9201).



Vertebral Body Reconstruction Balloon Kyphoplasty



Bone Access Instruments

Classic Access

**Vertebra Introducer Device
Introducer Cannula & Stylet**
US9201

The Vertebra Introducer Device is inserted into the vertebral body over the Guide Pin, blunt (US9102).



**Vertebra Introducer
Working Cannula**
US9202

Additional Vertebra Introducer Working Cannulas (US9202) can be used for bipedicular treatment of the vertebral body and for the treatment of multiple vertebral bodies. These are inserted into the vertebral body with the aid of the released introducer stylet (US9201/US9213/US9312).



Vertebral Body Reconstruction Balloon Kyphoplasty



Bone Access Instruments

Direct Access (One-Step)

**RapidIntro Bevel Tip
Introducer Cannula & Stylet**
US9213

This Bone Access Instrument is equipped with a stylet tip that is bevelled on one side.



**SpeedTrack Short Tip
Introducer Cannula & Stylet**
US9312

This Bone Access Instrument is equipped with a short stylet tip.



Vertebral Body Reconstruction Balloon Kyphoplasty



Bone Access Instruments

Further Access Instruments

Introducer Cannula Plug

US9203



The Introducer Cannula Plug is inserted into the Vertebra Introducer Working Cannula (US9202) to prevent inadvertent blood leakage.

Vertebra Biopsy Device

Needle & Plunger

US9301



The Vertebra Biopsy Device can be used to take a biopsy sample.

Vertebral Body Reconstruction

Balloon Kyphoplasty



Bone Access Instruments

Further Access Instruments

Bone Drill
US9302

The Bone Drill can be used to create a working channel in the vertebral body for the balloon catheter.



Allevo Curette
US9410

The Allevo Curette is designed to scrape off bone tissue in the vertebral body.



Vertebral Body Reconstruction Balloon Kyphoplasty



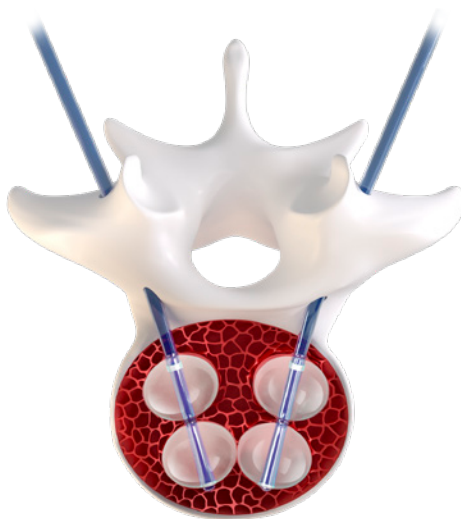
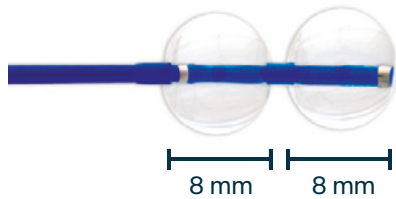
Balloon Catheters

Quattroplasty® Double Balloon

Stop'n GO Double Balloon Catheter
US9420

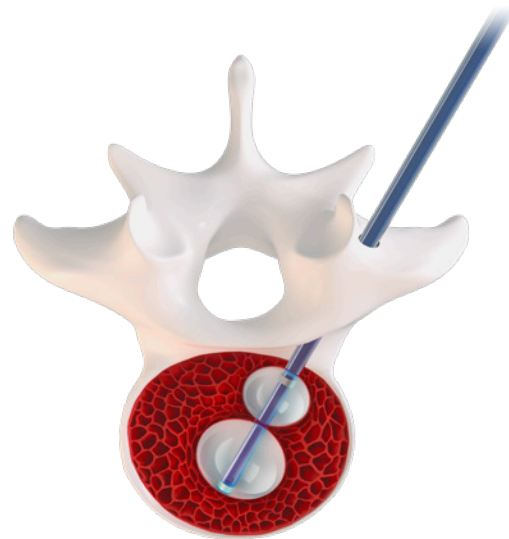
Balloons: Ø 16 mm, Balloon length = 2 x 8 mm
max. pressure 27 atm (400 psi) / max. vol. 2 x 3 ml

The Stop'n GO Double Balloon Catheter (Quattroplasty®) is an advancement of the Single Balloon Catheter. The Double Balloon technology provides the surgeon with four instead of two balloons per vertebra to restore vertebral height of the fractured vertebra.



Bipedicular access. FDA approved.

- Target vertebral body reconstruction with the strength of FOUR balloons



Uni-Pedicular access. Bilateral control.

- Bilateral cavity creation through a single pedicle
- Precise cement placement
- Reduced procedural time

Vertebral Body Reconstruction

Balloon Kyphoplasty

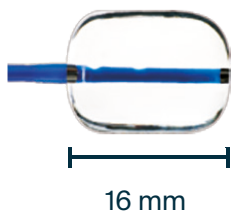


Balloon Catheters

Kyphoplasty Single Balloon

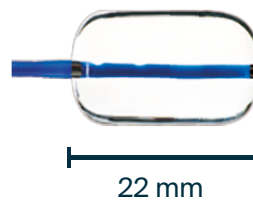
Kypho Balloon Catheter 16/16
US9402

Balloon: Ø 16 mm, Balloon length = 16 mm
max. pressure 27 atm (400 psi) / max. vol. 4 ml



Kypho Balloon Catheter 22/16
US9403

Balloon: Ø 16 mm, Balloon length = 22 mm
max. pressure 27 atm (400 psi) / max. vol. 6 ml

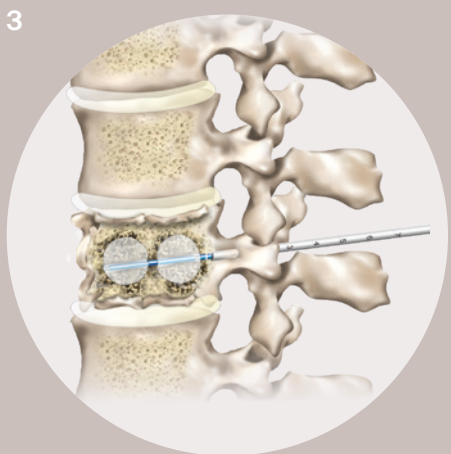
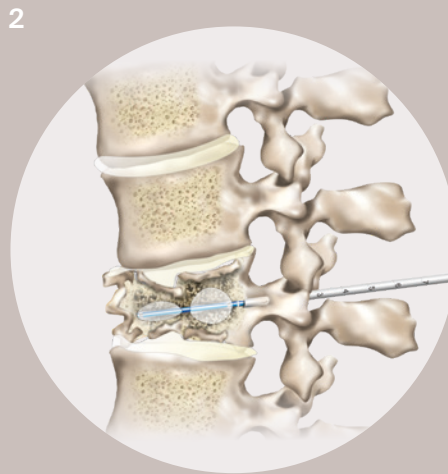
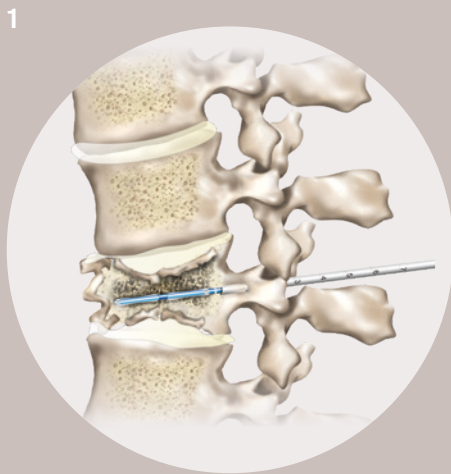


- Our Single Balloon Catheters are available in lengths of 16 mm and 22 mm.



Quattroplasty® Double Balloon Advantages over Single Balloon FDA approved

- The pressure and volume of each single balloon is adjusted separately.
- With the Stop'n GO Double Balloon Catheter, the surgeon uses up to FOUR balloons in one vertebral body.
- The necessary force is directed to the desired point to reconstruct the vertebral body step by step.
- Bone cement application.



Vertebral Body Reconstruction Balloon Kyphoplasty



Balloon Catheters

Catheter Preparation Instruments

Inflation Device

US9502

max. pressure 30 atm (440 psi)



The Inflation Device is used to inflate and deflate the balloons of the Kyphoplasty Catheters in the vertebral body. This allows a targeted cavity to be created for the bone cement.

Vacuum Syringe 20 ml

US9503



The Vacuum Syringe is used to remove air from the Kypho Balloon Catheters 16/16, 22/16, the Stop'n GO Double Balloon Catheter and the Double Balloon Adapter before use.

Balloon Adapter

US9520



The Double Balloon Adapter is used in combination with the Inflation Device to separately inflate and deflate the balloons of the Stop'n GO Double Balloon Catheter.

Vertebral Body Reconstruction Balloon Kyphoplasty



Cement Application

Bone Cement

OSTEOPAL® V 1x20
US9704



A classic - High visibility in imaging techniques. High fatigue strength against dynamic loading. Used for decades in spinal surgery. Simply application thanks to optimised viscosity. Control over application thanks to zirconium dioxide as an X-ray contrast agent.

Vertebral Body Reconstruction Balloon Kyphoplasty



Cement Application

Cement Mixing System

QuattroMix®
US9620



The QuattroMix® is available separately.
The QuattroMix® is intended for mixing and transferring
bone cement during balloon kyphoplasty.

The QuattroMix® System

The procedure for using the QuattroMix is described in the Quick Guide U.S.



1x

Mixing cylinder



1x

Mixing unit



1x

Union spindle



1x

Funnel



1x

Stand

Vertebral Body Reconstruction Balloon Kyphoplasty



Cement Application

Application Instruments

Vertebra Filler Device (Frontal Opening)

US9601



This Vertebra Filler Device has a frontal opening.

With all Joline Vertebra Filler Devices up to 1.5 ml of bone cement can be applied into the vertebral body.

Vertebra Filler Device (Side Opening)

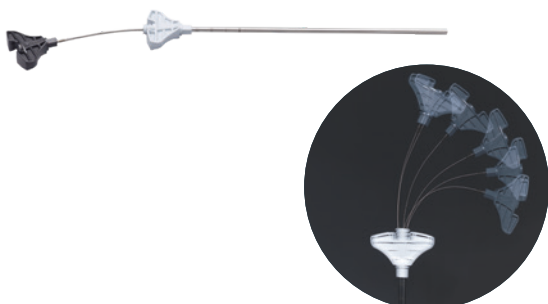
US9602



This Vertebra Filler Device has a side opening.

Vertebra Filler Device flexPlunger (Frontal Opening)

US9604



This Vertebra Filler Device flexPlunger has a frontal opening.

The shaft of this Vertebra Filler flexPlunger (Frontal Opening) is flexible and allows it to be used when the distance between the patient and the C-arm is small.

Vertebral Body Reconstruction Balloon Kyphoplasty



Overview of Application Instruments

	Part	Part number	Diameter	Diameter in millimetres	Diameter in gauge
Bone Access Instruments Classic Access	Vertebra Access Device with Trocar Tip Access Needle	US9101	External	3	11
			Internal	1.85	15
	Vertebra Access Device with Trocar Tip Access Stylet	US9101	External	1.8	15
	Guide Pin, blunt	US9102	External	1.6	16
	Vertebra Introducer Device Introducer Cannula & Stylet	US9201	External	4.1	8
			Internal	3.6	10
Vertebra Introducer Device Stylet	US9201	External	3.5	10	
		Internal	1.8	15	
Vertebra Introducer Working Cannula	US9202	External	4.1	8	
		Internal	3.6	10	
Bone Access Instruments Direct Access One-Step	RapidIntro Bevel Tip Introducer Cannula	US9213	External	4.1	8
			Internal	3.6	10
	RapidIntro Bevel Tip Stylet	US9213	External	3.5	10
	SpeedTrack Short Tip Introducer Cannula	US9312	External	4.1	8
Internal			3.6	10	
SpeedTrack Short Tip Stylet	US9312	External	3.5	10	
Further Access Instruments	Vertebra Biopsy Device Needle	US9301	External	3.4	10
			Internal	2.9	12
	Vertebra Biopsy Device Plunger	US9301	External	2.8	12
	Bone Drill	US9302	External	3.4	10
Allevo Curette	US9410	External	3.5	10	
Application Instruments	Vertebra Filler Device (Frontal Opening), Filler Nozzle	US9601	External	3.4	10
			Internal	2.9	12
	Vertebra Filler Device (Frontal Opening), Filler Plunger	US9601	External	2.8	12
	Vertebra Filler Device (Side Opening), Filler Nozzle	US9602	External	3.4	10
			Internal	2.9	12
	Vertebra Filler Device (Side Opening), Filler Plunger	US9602	External	2.8	12
Vertebra Filler Device flexPlunger (Frontal Opening), Filler Nozzle	US9604	External	3.4	10	
		Internal	2.9	12	
Vertebra Filler Device flexPlunger (Frontal Opening), Filler flexPlunger	US9604	External	2.8	12	

Kit Variants



Smart Kits Stop'n GO Double Balloon Catheter

- 18 Smart Kit Stop'n GO 2 x 8 mm
- 18 Smart Kit SpeedTrack Stop'n GO 2 x 8 mm
- 19 Smart Kit RapidIntro Bevel Tip Stop'n GO 2 x 8 mm
- 19 Smart Kit Mod. OnePedicule Stop'n GO 2 x 8 mm

Smart Kits Single Balloon Catheter 16/16, 22/16

- 20 Smart Kit 16/16, 22/16
- 20 Smart Kit SpeedTrack 16/16, 22/16
- 21 Smart Kit RapidIntro Bevel Tip 16/16, 22/16
- 22 Smart Kit OnePedicule 16/16, 22/16
- 22 Smart Kit Mod. OnePedicule 16/16, 22/16

Accessory Kits

- 23 Access Kit
- 23 Filler Kit
- 23 Filler Kit Flex



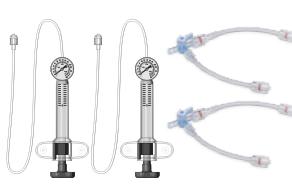
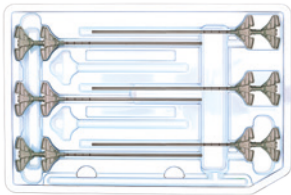
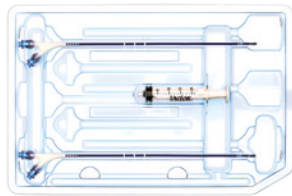
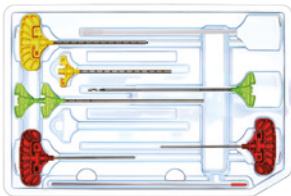
Smart Kits Stop'n GO Double Balloon Catheter

Smart Kit Stop'n GO 2 x 8 mm

US7NA2200

Balloons: Ø 16 mm

Balloon length: 2 x 8 mm



Kit components:

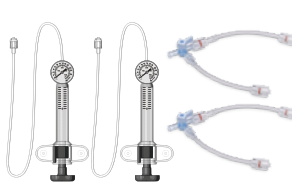
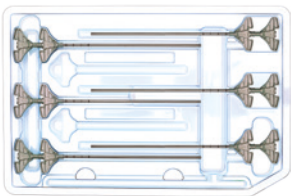
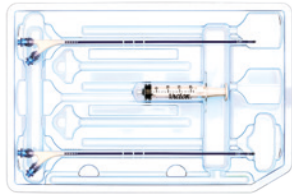
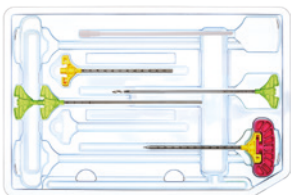
- 2 x Vertebra Access Device
- 2 x Guide Pin, blunt
- 2 x Introducer Cannula Plug
- 1 x Vertebra Introducer Device
- 1 x Vertebra Introducer Working Cannula
- 1 x Vertebra Biopsy Device
- 1 x Bone Drill
- 2 x Stop'n GO Double Balloon Catheter
- 2 x Balloon Adapter
- 1 x Vacuum Syringe
- 2 x Inflation Device
- 6 x Vertebra Filler Device (Frontal Opening)

Smart Kit SpeedTrack Stop'n GO 2 x 8 mm

US7NS2200

Balloons: Ø 16 mm

Balloon length: 2 x 8 mm



Kit components:

- 1 x SpeedTrack Short Device
- 2 x Introducer Cannula Plug
- 1 x Vertebra Introducer Working Cannula
- 1 x Vertebra Biopsy Device
- 1 x Bone Drill
- 2 x Stop'n GO Double Balloon Catheter
- 2 x Balloon Adapter
- 1 x Vacuum Syringe
- 2 x Inflation Device
- 6 x Vertebra Filler Device (Frontal Opening)



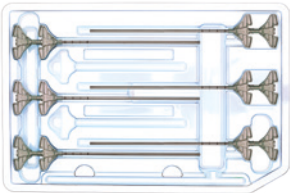
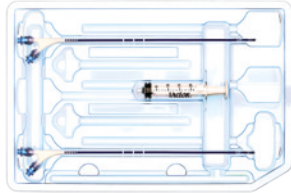
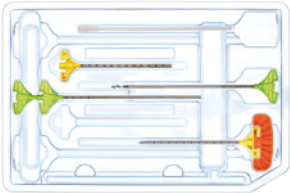
Smart Kits Stop'n GO Double Balloon Catheter

Smart Kit RapidIntro Bevel Tip Stop'n GO 2 x 8 mm US7NR2200

Balloons: Ø 16 mm
Balloon length: 2 x 8 mm

Kit components:

- 1 x RapidIntro Bevel Tip
- 2 x Introducer Cannula Plug
- 1 x Vertebra Introducer Working Cannula
- 1 x Vertebra Biopsy Device
- 1 x Bone Drill
- 2 x Stop'n GO Double Balloon Catheter
- 2 x Balloon Adapter
- 1 x Vacuum Syringe
- 2 x Inflation Device
- 6 x Vertebra Filler Device (Frontal Opening)

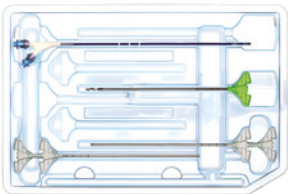


Smart Kit Mod. OnePedicule Stop'n GO 2 X 8 mm US7NN1200

Balloons: Ø 16 mm
Balloon length: 2 x 8 mm

Kit components:

- 1 x Bone Drill
- 1 x Stop'n GO Double Balloon Catheter
- 1 x Balloon Adapter
- 1 x Vacuum Syringe
- 1 x Inflation Device
- 2 x Vertebra Filler Device (Frontal Opening)



Kyphoplasty Kits



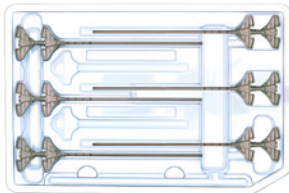
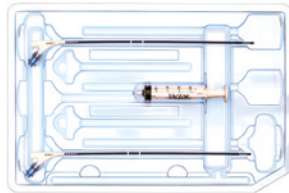
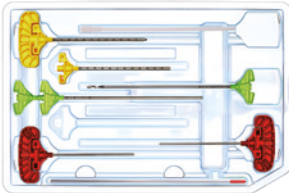
Smart Kits Single Balloon Catheter 16/16, 22/16

Smart Kit 16/16, 22/16
US7NA2110 / US7NA2120

US7NA2110
Balloon: Ø 16 mm
Balloon length: 16 mm

US7NA2120
Balloon: Ø 16 mm
Balloon length: 22 mm

- Kit components:
- 2 x Vertebra Access Device
 - 2 x Guide Pin, blunt
 - 2 x Introducer Cannula Plug
 - 1 x Vertebra Introducer Device
 - 1 x Vertebra Introducer Working Cannula
 - 1 x Vertebra Biopsy Device
 - 1 x Bone Drill
 - 2 x Kypho Balloon Catheter
 - 1 x Vacuum Syringe
 - 2 x Inflation Device
 - 6 x Vertebra Filler Device (Frontal Opening)

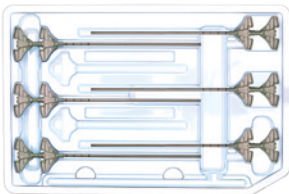
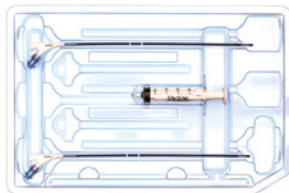
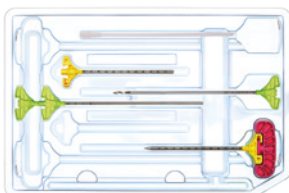


Smart Kit SpeedTrack 16/16, 22/16
US7NS2110 / US7NS2120

US7NS2110
Balloon: Ø 16 mm
Balloon length: 16 mm

US7NS2120
Balloon: Ø 16 mm
Balloon length: 22 mm

- Kit components:
- 1 x SpeedTrack Short Device
 - 2 x Introducer Cannula Plug
 - 1 x Vertebra Introducer Working Cannula
 - 1 x Vertebra Biopsy Device
 - 1 x Bone Drill
 - 2 x Kypho Balloon Catheter
 - 1 x Vacuum Syringe
 - 2 x Inflation Device
 - 6 x Vertebra Filler Device (Frontal Opening)





Smart Kits Single Balloon Catheter 16/16, 22/16

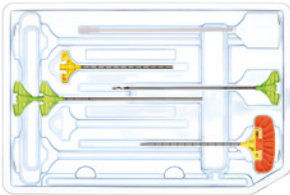
Smart Kit RapidIntro Bevel Tip 16/16, 22/16

US7NR2110 / US7NR2120

US7NR2110

Balloon: Ø 16 mm

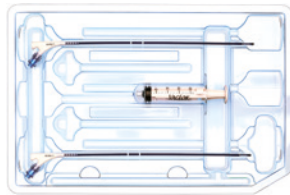
Balloon length: 16 mm



US7NR2120

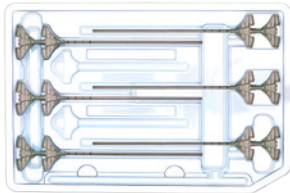
Balloon: Ø 16 mm

Balloon length: 22 mm



Kit components:

- 1 x RapidIntro Bevel Tip
- 2 x Introducer Cannula Plug
- 1 x Vertebra Introducer Working Cannula
- 1 x Vertebra Biopsy Device
- 1 x Bone Drill
- 2 x Kypho Balloon Catheter
- 1 x Vacuum Syringe
- 2 x Inflation Device
- 6 x Vertebra Filler Device (Frontal Opening)



Kyphoplasty Kits



Smart Kits Single Balloon Catheter 16/16, 22/16 / OnePedicule Kits

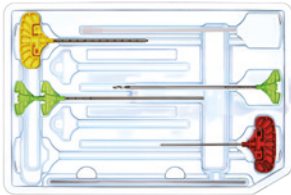
Smart Kit OnePedicule 16/16, 22/16

US7NA1110 / US7NA1120

US7NA1110

Balloon: Ø 16 mm

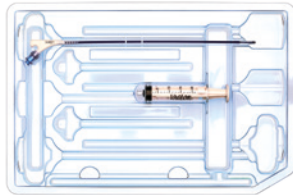
Balloon length: 16 mm



US7NA1120

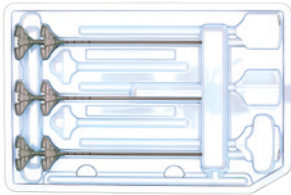
Balloon: Ø 16 mm

Balloon length: 22 mm



Kit components:

- 1 x Vertebra Access Device
- 1 x Guide Pin, blunt
- 1 x Introducer Cannula Plug
- 1 x Vertebra Introducer Device
- 1 x Vertebra Biopsy Device
- 1 x Bone Drill
- 1 x Kypho Balloon Catheter
- 1 x Vacuum Syringe
- 1 x Inflation Device
- 3 x Vertebra Filler Device (Frontal Opening)



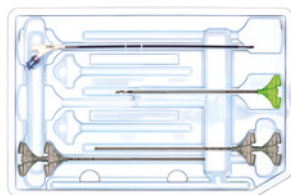
Smart Kit Mod. OnePedicule 16/16, 22/16

US7NN1110 / US7NN1120

US7NN1110

Balloon: Ø 16 mm

Balloon length: 16 mm



US7NN1120

Balloon: Ø 16 mm

Balloon length: 22 mm



Kit components:

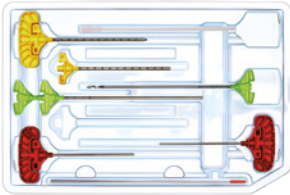
- 1 x Bone Drill
- 1 x Kypho Balloon Catheter
- 1 x Vacuum Syringe
- 1 x Inflation Device
- 2 x Vertebra Filler Device (Frontal Opening)

Kyphoplasty Kits



Accessory Kits

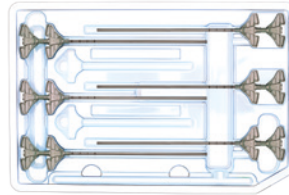
Access Kit US7ZA0000



Kit components:

- 2 x Vertebra Access Device
- 2 x Guide Pin, blunt
- 2 x Introducer Cannula Plug
- 1 x Vertebra Introducer Device
- 1 x Vertebra Introducer Working Cannula
- 1 x Vertebra Biopsy Device
- 1 x Bone Drill

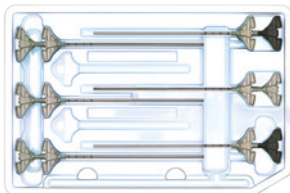
Filler Kit US7ZN0000



Kit components:

- 6 x Vertebra Filler Device (Frontal Opening)

Filler Kit Flex US7ZN000F



Kit components:

- 4 x Vertebra Filler Device (Frontal Opening)
- 2 x Vertebra Filler Device flexPlunger (Frontal Opening)

Joline[®] Medical Inc.

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