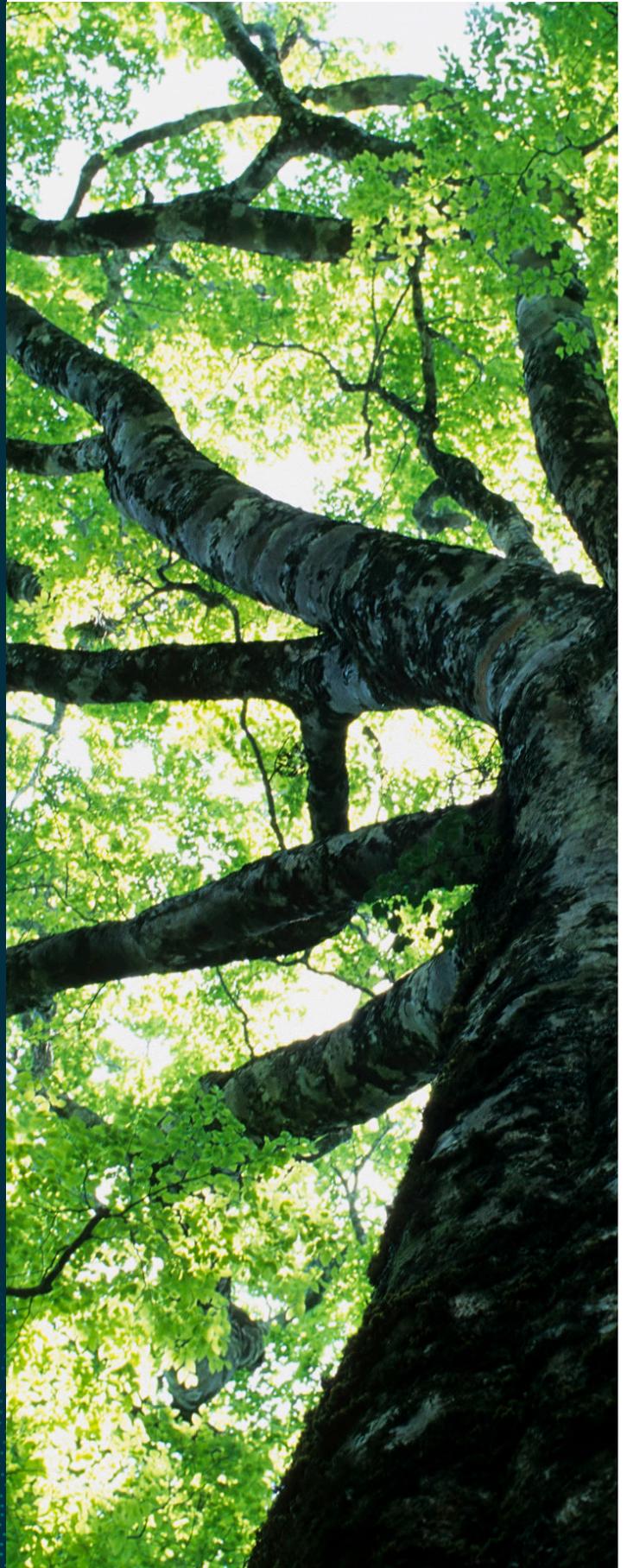


Spine Portfolio 2026

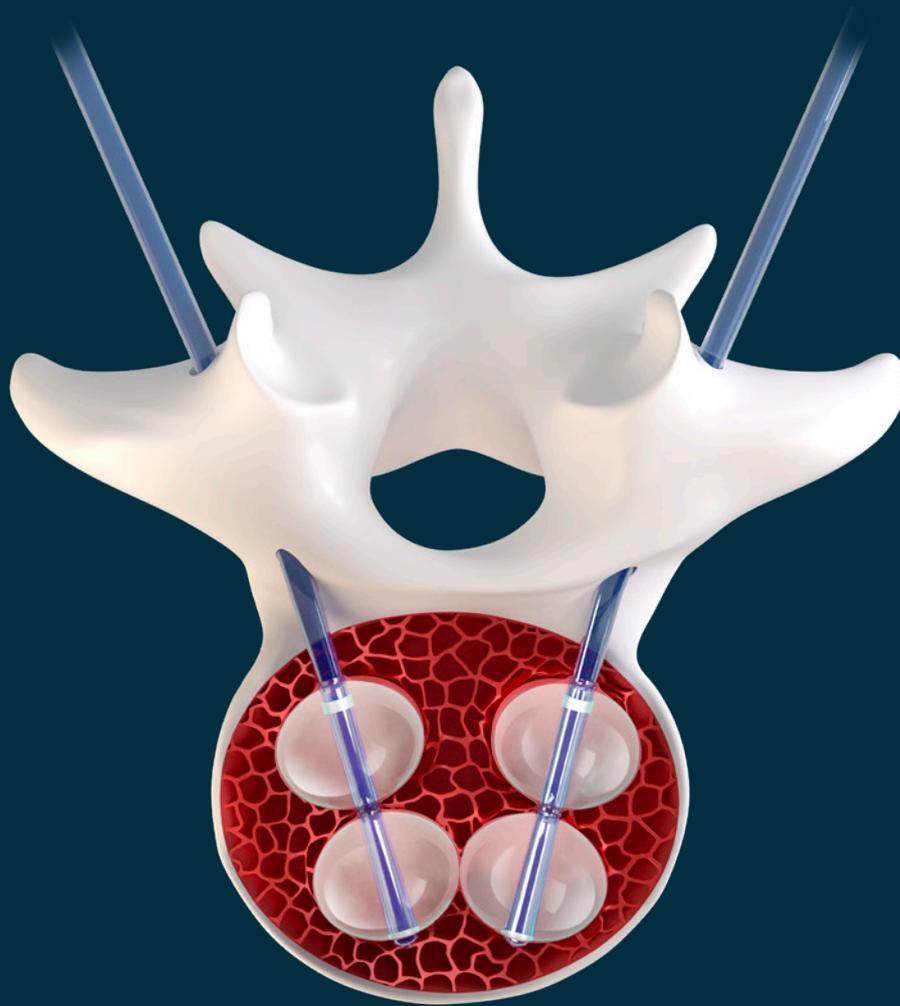


Vertebral Body Reconstruction
Quattroplasty™
Balloon Kyphoplasty



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Quattroplasty™



Founded in 1999.

Privately owned family business.



All Joline employees are fully focused on servicing and supporting healthcare providers.



Medical company with over 160 employees.
60 % have been working for Joline 10 years plus*.

Several workshops and trainings per year for all medical professionals on how to use Joline medical devices.

More than 285,000 minimally invasive therapies are performed with Joline medical devices per year, which equals in more than 32 per hour.

Every 2 minutes, a patient receives treatment with medical technologies from Joline.*

Specialized in four areas of expertise



Dialysis



Spine



Stents & OEM



Cardiology

One of the global goals of the United Nations is to ensure healthy lives and well-being for every patient at all ages. Joline contributes to this global goal by developing and manufacturing medical devices for diagnostics (cardiology), minimally invasive treatment (spine) and life-sustaining treatments (dialysis).

All Joline medical devices are designed and manufactured in Germany.

Production and development of stents and implants as a contract manufacturer (OEM).



Minimally invasive treatment methods can help to reduce the burden on patients and shorten the length of hospitalization.

Certified according to EN ISO 13485:2021.



More than 20 patents assigned to Joline.

Medical devices sold worldwide with direct sales in Germany and Austria, all other geographies served with experienced distribution partners in Europe, United States of America, Africa, Latin America and Asia.



Joline's Dialysis, Spine and Cardiology medical devices are CE-certified.

Vertebral Body Reconstruction

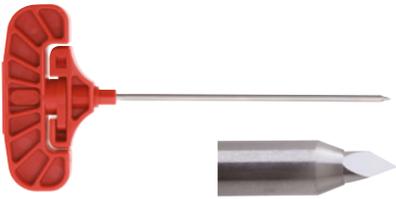
Balloon Kyphoplasty

Bone Access Instruments

Classic Access

Vertebra Access Device, Trocar Tip S9101

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



Guide Pin, blunt S9102

The Guide Pin, blunt acts as a guide for the Vertebra Introducer Device (S9201).



Vertebra Introducer Device S9201

The Vertebra Introducer Device is inserted into the vertebral body over the Guide Pin, blunt (S9102).



Vertebra Introducer Cannula S9202

Additional Vertebra Introducer Cannulas (S9202) 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 (S9201/S9213/S9312).

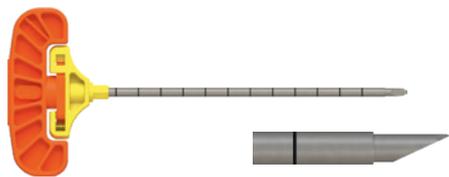




Bone Access Instruments

Direct Access (One-Step)

**RapidIntro Vertebra Introducer Device,
Bevel Tip**
S9213



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

**SpeedTrack Vertebra Introducer Device,
Short Tip**
S9312



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
S9203



The Introducer Cannula Plug is inserted into the Vertebra Introducer Cannula (S9202) to prevent inadvertent blood leakage.

Vertebra Biopsy Device
S9301



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

Bone Drill
S9302



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

Curette
S9410



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

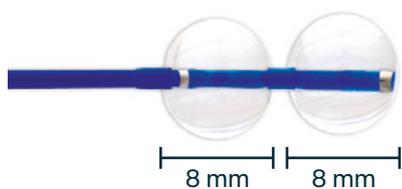


Balloon Catheters

Quattroplasty™ Double Balloon

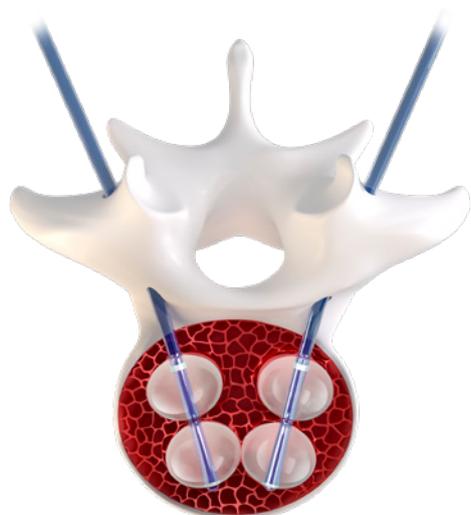
Stop'n GO Double Balloon Catheter 2 x 8 mm
S9420

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

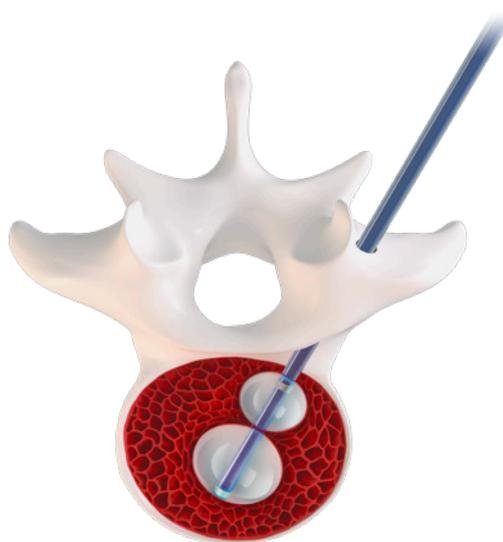


The Stop'n GO Double Balloon Catheter 2 x 8 mm (Quattroplasty™) is an advancement of the Single Balloon Catheter. The Double Balloon technology provides the surgeon with four instead of two balloons per vertebra to restore vertebral height of the fractured vertebra.

Depending on the geometry of the pedicle, the midline can also be accessed via a unipedicular approach using the double balloons, and address the opposite half of the vertebral body.



Bipedicular



Unipedicular

Vertebral Body Reconstruction

Balloon Kyphoplasty

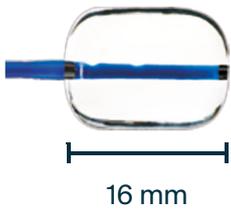
Balloon Catheters

Kyphoplasty Single Balloon

Balloon Catheter 16/16

S9402

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



Balloon Catheter 22/16

S9403

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.

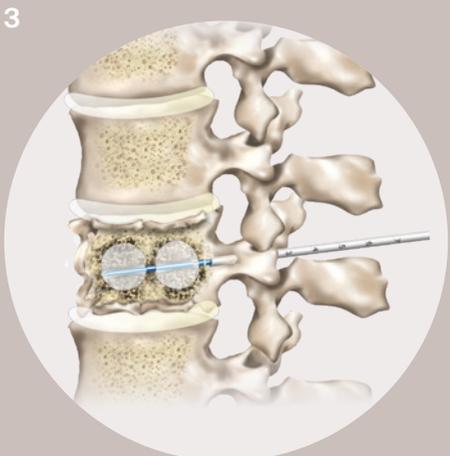
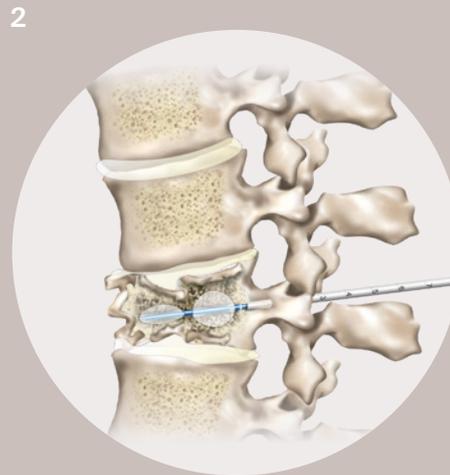
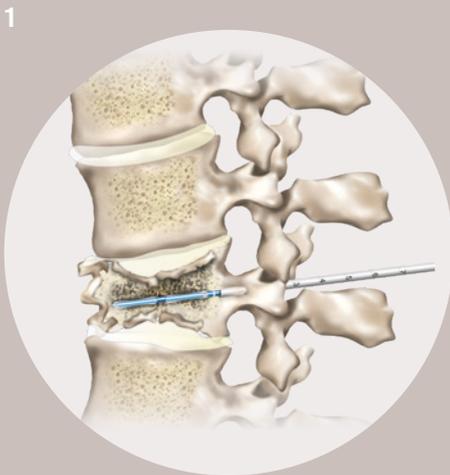


Quattroplasty™ Double Balloon Advantages over Single Balloon

■ The pressure and volume of each single balloon is adjusted separately.

■ With the Stop'n GO Double Balloon Catheter 2 x 8 mm, 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.



Vertebral Body Reconstruction

Balloon Kyphoplasty

Balloon Catheters

Accessories for the Catheter Preparation

Inflation Device

S9502

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

S9503



The Vacuum Syringe is used to remove air from the Balloon Catheters 16/16, 22/16, the Stop'n GO Double Balloon Catheter 2 x 8 mm and the Double Balloon Adapter before use.

Double Balloon Adapter

S9520



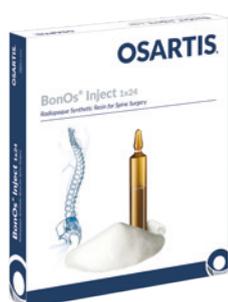
The Double Balloon Adapter is used in combination with the Inflation Device to separately inflate and deflate the balloons of the Stop'n GO Double Balloon Catheter 2 x 8 mm.



Cement Application

Bone Cement

BonOs® Inject 1x24 S9702



BonOs® Inject is a PMMA Bone Cement that is specifically adapted for spine surgery. The cement is suitable for the fixation and filling of symptomatic vertebral compression fractures, vertebral tumors and vertebral hemangioma.

OSTEOPAL® V 1x20 S9704



This PMMA cement is characterised by its shorter preparation time vs. other bone cements on the market.

OSTEOPAL® plus 1x20 S9705



OSTEOPAL® plus with time bonus

- Longer working time
- Based on OSTEOPAL® V PMMA cement
- Particularly suitable for multi-level vertebral augmentation
- Optimised viscosity for easy application
- Contains radiopaque zirconium dioxide to enhance controlled cement application

Vertebral Body Reconstruction Balloon Kyphoplasty

Cement Application Cement Mixing System

QuattroMix®
S9620

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



The QuattroMix® System



1x

Mixing cylinder



1x

Mixing unit



1x

Union spindle



1x

Funnel



1x

Stand



Cement Application

Application Instruments

Vertebra Filler Device (frontal opening) S9601

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) S9602

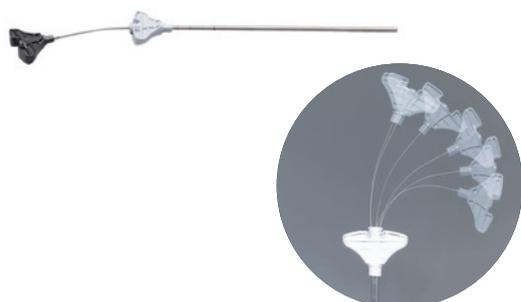
This Vertebra Filler Device has a side opening.



Vertebra Filler Device flexPlunger (frontal opening) S9604

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, Trocar Tip, Access Needle	S9101	External	3	11
			Internal	1.85	15
	Vertebra Access Device, Trocar Tip, Access Stylet	S9101	External	1.8	15
	Guide Pin, blunt	S9102	External	1.6	16
	Vertebra Introducer Device, Introducer Cannula	S9201	External	4.1	8
			Internal	3.6	10
Vertebra Introducer Device, Introducer Stylet	S9201	External	3.5	10	
		Internal	1.8	15	
Vertebra Introducer Cannula	S9202	External	4.1	8	
		Internal	3.6	10	
Bone Access Instruments Direct Access (One-Step)	RapidIntro Vertebra Introducer Device, Bevel Tip, Introducer Cannula	S9213	External	4.1	8
			Internal	3.6	10
	RapidIntro Vertebra Introducer Device, Bevel Tip, Introducer Stylet	S9213	External	3.5	10
			Internal	1.8	15
SpeedTrack Vertebra Introducer Device, Short Tip, Introducer Cannula	S9312	External	4.1	8	
		Internal	3.6	10	
SpeedTrack Vertebra Introducer Device, Short Tip, Introducer Stylet	S9312	External	3.5	10	
		Internal	1.8	15	
Further Access Instruments	Vertebra Biopsy Device, Biopsy Needle	S9301	External	3.4	10
			Internal	2.9	12
	Vertebra Biopsy Device, Biopsy Plunger	S9301	External	2.8	12
	Bone Drill	S9302	External	3.4	10
Curette	S9410	External	3.5	10	
Application Instruments	Vertebra Filler Device (frontal opening), Filler Nozzle	S9601	External	3.4	10
			Internal	2.9	12
	Vertebra Filler Device (frontal opening), Filler Plunger	S9601	External	2.8	12
	Vertebra Filler Device (side opening), Filler Nozzle	S9602	External	3.4	10
			Internal	2.9	12
	Vertebra Filler Device (side opening), Filler Plunger	S9602	External	2.8	12
Vertebra Filler Device flexPlunger (frontal opening), Filler Nozzle	S9604	External	3.4	10	
		Internal	2.9	12	
Vertebra Filler Device flexPlunger (frontal opening), Filler flexPlunger	S9604	External	2.8	12	



Kit Variants

Quattroplasty™ / Smart Kits Double Balloon Catheter Stop'n GO 2 x 8 mm

- 18 Smart Kit Type Jamshidi Stop'n GO 2 x 8 mm
- 19 Smart Kit SpeedTrack Stop'n GO 2 x 8 mm
- 19 Smart Kit SpeedTrack Double Stop'n GO 2 x 8 mm
- 20 Smart Kit RapidIntro Bevel Tip Stop'n GO 2 x 8 mm
- 20 Smart Kit RapidIntro Bevel Tip Double Stop'n GO 2 x 8 mm
- 21 Smart Kit Type Jamshidi OnePedicule Stop'n GO 2 x 8 mm
- 21 Smart Kit Modular OnePedicule Stop'n GO 2 x 8 mm

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

- 22 Smart Kit Type Jamshidi 16/16, 22/16
- 22 Smart Kit SpeedTrack Short 16/16, 22/16
- 23 Smart Kit RapidIntro Bevel Tip 16/16, 22/16
- 24 Smart Kit Type Jamshidi OnePedicule 16/16, 22/16
- 24 Smart Kit Modular OnePedicule 16/16, 22/16

Accessory Kits

- 25 Access Kit
- 25 Access Kit SpeedTrack
- 25 Access Kit SpeedTrack OnePedicule
- 26 Access Kit RapidIntro Bevel Tip
- 26 Access Kit RapidIntro Bevel Tip OnePedicule
- 26 Filler Kit
- 26 Filler Kit Side Opening

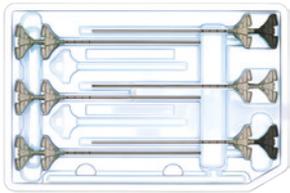
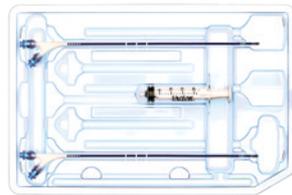
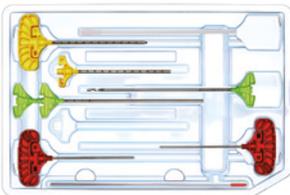
- Joline offers the right kit for the respective area of application. All kit variants are characterised by their ease of use.

Quattroplasty™ Kits

Smart Kits Double Balloon Catheter Stop'n GO 2 x 8 mm

Smart Kit Type Jamshidi
Stop'n GO 2 x 8 mm
S1102

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



Kit components:

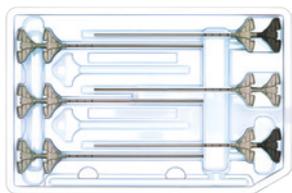
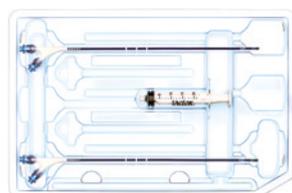
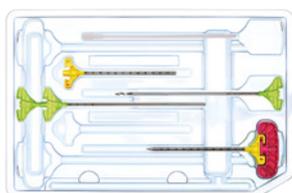
- 2 x Vertebra Access Device, Trocar Tip
- 2 x Guide Pin, blunt
- 2 x Introducer Cannula Plug
- 1 x Vertebra Introducer Device
- 1 x Vertebra Introducer Cannula
- 1 x Vertebra Biopsy Device
- 1 x Bone Drill
- 2 x Stop'n GO Double Balloon Catheter 2 x 8 mm
- 2 x Double Balloon Adapter
- 1 x Vacuum Syringe
- 2 x Inflation Device
- 4 x Vertebra Filler Device (frontal opening)
- 2 x Vertebra Filler Device flexPlunger (frontal opening)



Smart Kits Double Balloon Catheter Stop'n GO 2 x 8 mm

Smart Kit SpeedTrack Stop'n GO 2 x 8 mm S1117

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

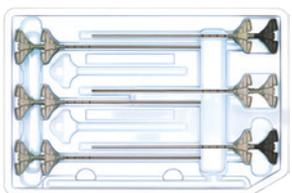
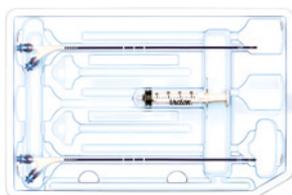
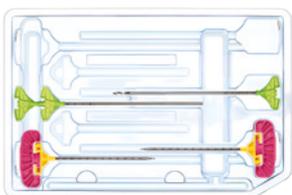


Kit components:

- 1 x SpeedTrack Vertebra Introducer Device, Short Tip
- 2 x Introducer Cannula Plug
- 1 x Vertebra Introducer Cannula
- 1 x Vertebra Biopsy Device
- 1 x Bone Drill
- 2 x Stop'n GO Double Balloon Catheter 2 x 8 mm
- 2 x Double Balloon Adapter
- 1 x Vacuum Syringe
- 2 x Inflation Device
- 4 x Vertebra Filler Device (frontal opening)
- 2 x Vertebra Filler Device flexPlunger (frontal opening)

Smart Kit SpeedTrack Double Stop'n GO 2 x 8 mm S1118

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



Kit components:

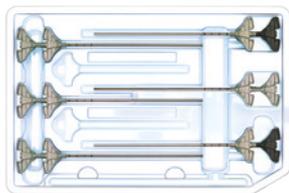
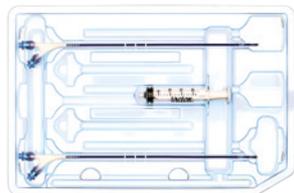
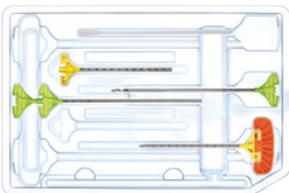
- 2 x SpeedTrack Vertebra Introducer Device, Short Tip
- 2 x Introducer Cannula Plug
- 1 x Vertebra Biopsy Device
- 1 x Bone Drill
- 2 x Stop'n GO Double Balloon Catheter 2 x 8 mm
- 2 x Double Balloon Adapter
- 1 x Vacuum Syringe
- 2 x Inflation Device
- 4 x Vertebra Filler Device (frontal opening)
- 2 x Vertebra Filler Device flexPlunger (frontal opening)

Quattroplasty™ Kits

Smart Kits Double Balloon Catheter Stop'n GO 2 x 8 mm

Smart Kit RapidIntro Bevel Tip Stop'n GO 2 x 8 mm S1113

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

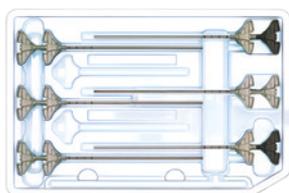
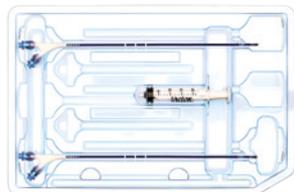
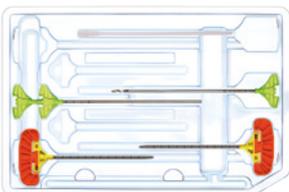


Kit components:

- 1 x RapidIntro Vertebra Introducer Device, Bevel Tip
- 2 x Introducer Cannula Plug
- 1 x Vertebra Introducer Cannula
- 1 x Vertebra Biopsy Device
- 1 x Bone Drill
- 2 x Stop'n GO Double Balloon Catheter 2 x 8 mm
- 2 x Double Balloon Adapter
- 1 x Vacuum Syringe
- 2 x Inflation Device
- 4 x Vertebra Filler Device (frontal opening)
- 2 x Vertebra Filler Device flexPlunger (frontal opening)

Smart Kit RapidIntro Bevel Tip Double Stop'n GO 2 x 8 mm S1112

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



Kit components:

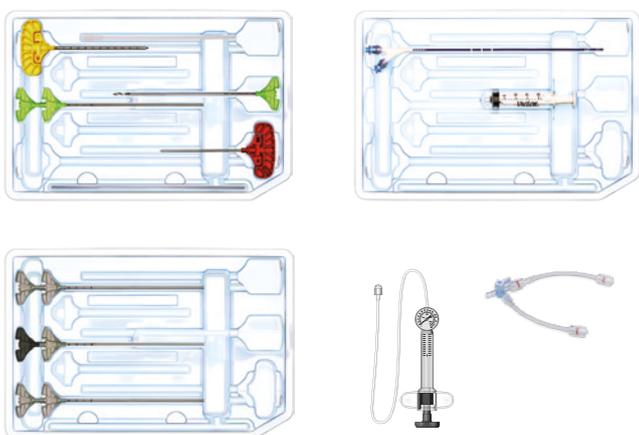
- 2 x RapidIntro Vertebra Introducer Device, Bevel Tip
- 2 x Introducer Cannula Plug
- 1 x Vertebra Biopsy Device
- 1 x Bone Drill
- 2 x Stop'n GO Double Balloon Catheter 2 x 8 mm
- 2 x Double Balloon Adapter
- 1 x Vacuum Syringe
- 2 x Inflation Device
- 4 x Vertebra Filler Device (frontal opening)
- 2 x Vertebra Filler Device flexPlunger (frontal opening)



Smart Kits Double Balloon Catheter Stop'n GO 2 x 8 mm / OnePedicule Kits

Smart Kit Type Jamshidi OnePedicule Stop'n GO 2 x 8 mm S5103

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

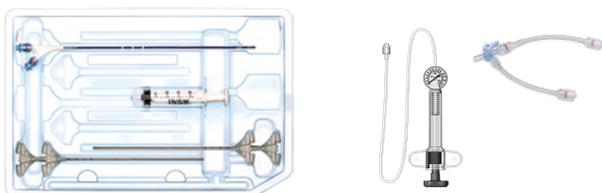


Kit components:

- 1 x Vertebra Access Device, Trocar Tip
- 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 Stop'n GO Double Balloon Catheter 2 x 8 mm
- 1 x Double Balloon Adapter
- 1 x Vacuum Syringe
- 1 x Inflation Device
- 2 x Vertebra Filler Device (frontal opening)
- 1 x Vertebra Filler Device flexPlunger (frontal opening)

Smart Kit Modular OnePedicule Stop'n GO 2 x 8 mm S5104

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



Kit components:

- 1 x Stop'n GO Double Balloon Catheter 2 x 8 mm
- 1 x Double Balloon Adapter
- 1 x Vacuum Syringe
- 1 x Inflation Device
- 2 x Vertebra Filler Device (frontal opening)

Kyphoplasty Kits

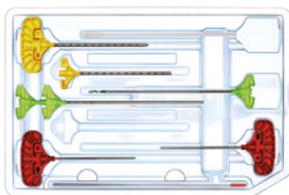
Smart Kits Single Balloon Catheter 16/16, 22/16

Smart Kit Type Jamshidi 16/16, 22/16 S1005 / S1006

S1005:

Balloon: Ø 16 mm

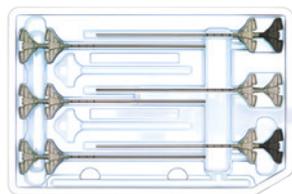
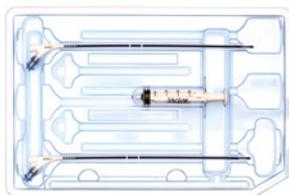
Balloon length: 16 mm



S1006:

Balloon: Ø 16 mm

Balloon length: 22 mm



Kit components:

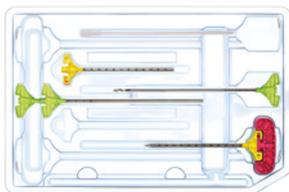
- 2 x Vertebra Access Device, Trocar Tip
- 2 x Guide Pin, blunt
- 2 x Introducer Cannula Plug
- 1 x Vertebra Introducer Device
- 1 x Vertebra Introducer Cannula
- 1 x Vertebra Biopsy Device
- 1 x Bone Drill
- 2 x Balloon Catheter
- 1 x Vacuum Syringe
- 2 x Inflation Device
- 4 x Vertebra Filler Device (frontal opening)
- 2 x Vertebra Filler Device flexPlunger (frontal opening)

Smart Kit SpeedTrack Short 16/16, 22/16 S1018 / S1019

S1018:

Balloon: Ø 16 mm

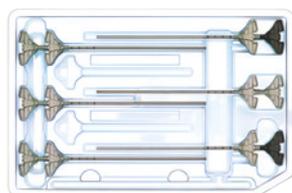
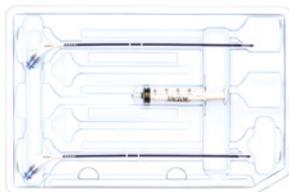
Balloon length: 16 mm



S1019:

Balloon: Ø 16 mm

Balloon length: 22 mm



Kit components:

- 1 x SpeedTrack Vertebra Introducer Device, Short Tip
- 2 x Introducer Cannula Plug
- 1 x Vertebra Introducer Cannula
- 1 x Vertebra Biopsy Device
- 1 x Bone Drill
- 2 x Balloon Catheter
- 1 x Vacuum Syringe
- 2 x Inflation Device
- 4 x Vertebra Filler Device (frontal opening)
- 2 x Vertebra Filler Device flexPlunger (frontal opening)



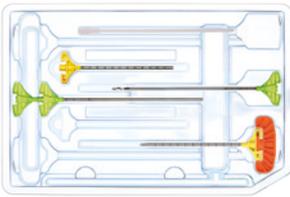
Smart Kits Single Balloon Catheter 16/16, 22/16

Smart Kit RapidIntro Bevel Tip 16/16, 22/16 S1044 / S1045

S1044:

Balloon: Ø 16 mm

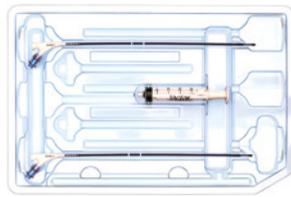
Balloon length: 16 mm



S1045:

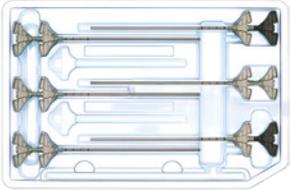
Balloon: Ø 16 mm

Balloon length: 22 mm



Kit components:

- 1 x RapidIntro Vertebra Introducer Device, Bevel Tip
- 2 x Introducer Cannula Plug
- 1 x Vertebra Introducer Cannula
- 1 x Vertebra Biopsy Device
- 1 x Bone Drill
- 2 x Balloon Catheter
- 1 x Vacuum Syringe
- 2 x Inflation Device
- 4 x Vertebra Filler Device (frontal opening)
- 2 x Vertebra Filler Device flexPlunger (frontal opening)



Kyphoplasty Kits

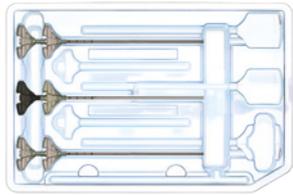
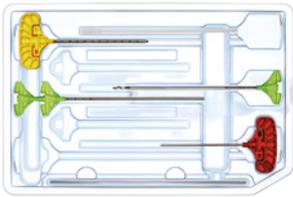
Smart Kits Single Balloon Catheter 16/16, 22/16 / OnePedicule Kits

Smart Kit Type Jamshidi OnePedicule 16/16, 22/16 S5010 / S5011

S5010:

Balloon: Ø 16 mm

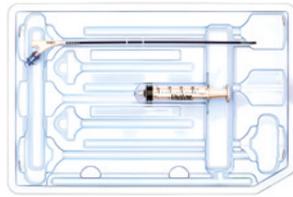
Balloon length: 16 mm



S5011:

Balloon: Ø 16 mm

Balloon length: 22 mm



Kit components:

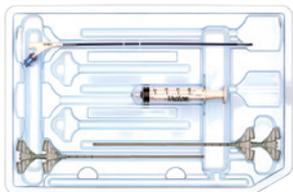
- 1 x Vertebra Access Device, Trocar Tip
- 1 x Guide Pin, blunt
- 1 x Introducer Cannula Plug
- 1 x Vertebra Introducer Device
- 1 x Vertebra Biopsy Device
- 1 x Bone Drill
- 1 x Balloon Catheter
- 1 x Vacuum Syringe
- 1 x Inflation Device
- 2 x Vertebra Filler Device (frontal opening)
- 1 x Vertebra Filler Device flexPlunger (frontal opening)

Smart Kit Modular OnePedicule 16/16, 22/16 S5012 / S5013

S5012:

Balloon: Ø 16 mm

Balloon length: 16 mm



S5013:

Balloon: Ø 16 mm

Balloon length: 22 mm



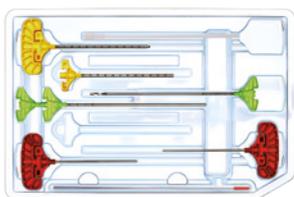
Kit components:

- 1 x Balloon Catheter
- 1 x Vacuum Syringe
- 1 x Inflation Device
- 2 x Vertebra Filler Device (frontal opening)



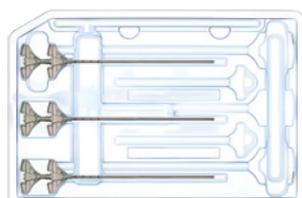
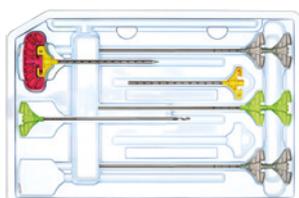
Accessory Kits

Access Kit S4002



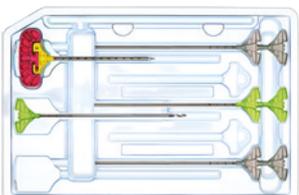
- Kit components:
- 2 x Vertebra Access Device, Trocar Tip
 - 2 x Guide Pin, blunt
 - 2 x Introducer Cannula Plug
 - 1 x Vertebra Introducer Device
 - 1 x Vertebra Introducer Cannula
 - 1 x Vertebra Biopsy Device
 - 1 x Bone Drill

Access Kit SpeedTrack S4006



- Kit components:
- 1 x SpeedTrack Vertebra Introducer Device, Short Tip
 - 1 x Vertebra Introducer Cannula
 - 1 x Vertebra Biopsy Device
 - 1 x Bone Drill
 - 2 x Vertebra Filler Device (frontal opening)
 - 3 x Vertebra Filler Device (side opening)

Access Kit SpeedTrack OnePedicle S4007

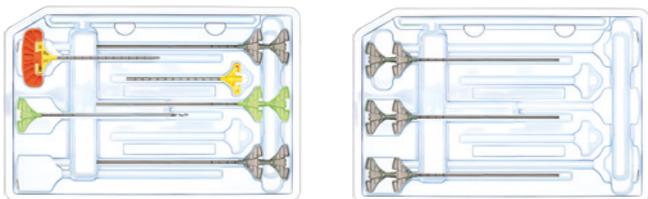


- Kit components:
- 1 x SpeedTrack Vertebra Introducer Device, Short Tip
 - 1 x Vertebra Biopsy Device
 - 1 x Bone Drill
 - 1 x Vertebra Filler Device (frontal opening)
 - 1 x Vertebra Filler Device (side opening)

Kyphoplasty Kits

Accessory Kits

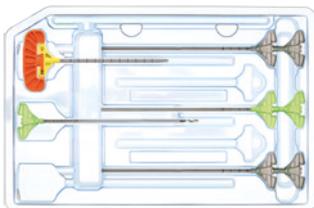
Access Kit RapidIntro Bevel Tip S4008



Kit components:

- 1 x RapidIntro Vertebra Introducer Device, Bevel Tip
- 1 x Vertebra Introducer Cannula
- 1 x Vertebra Biopsy Device
- 1 x Bone Drill
- 2 x Vertebra Filler Device (frontal opening)
- 3 x Vertebra Filler Device (side opening)

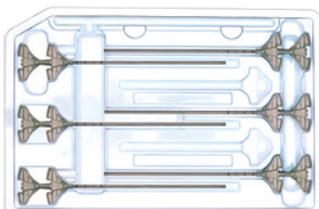
Access Kit RapidIntro Bevel Tip OnePedicule S4009



Kit components:

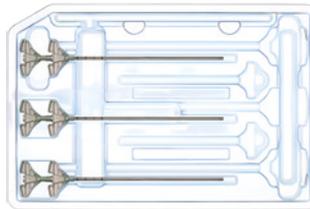
- 1 x RapidIntro Vertebra Introducer Device, Bevel Tip
- 1 x Vertebra Biopsy Device
- 1 x Bone Drill
- 1 x Vertebra Filler Device (frontal opening)
- 1 x Vertebra Filler Device (side opening)

Filler Kit S4003

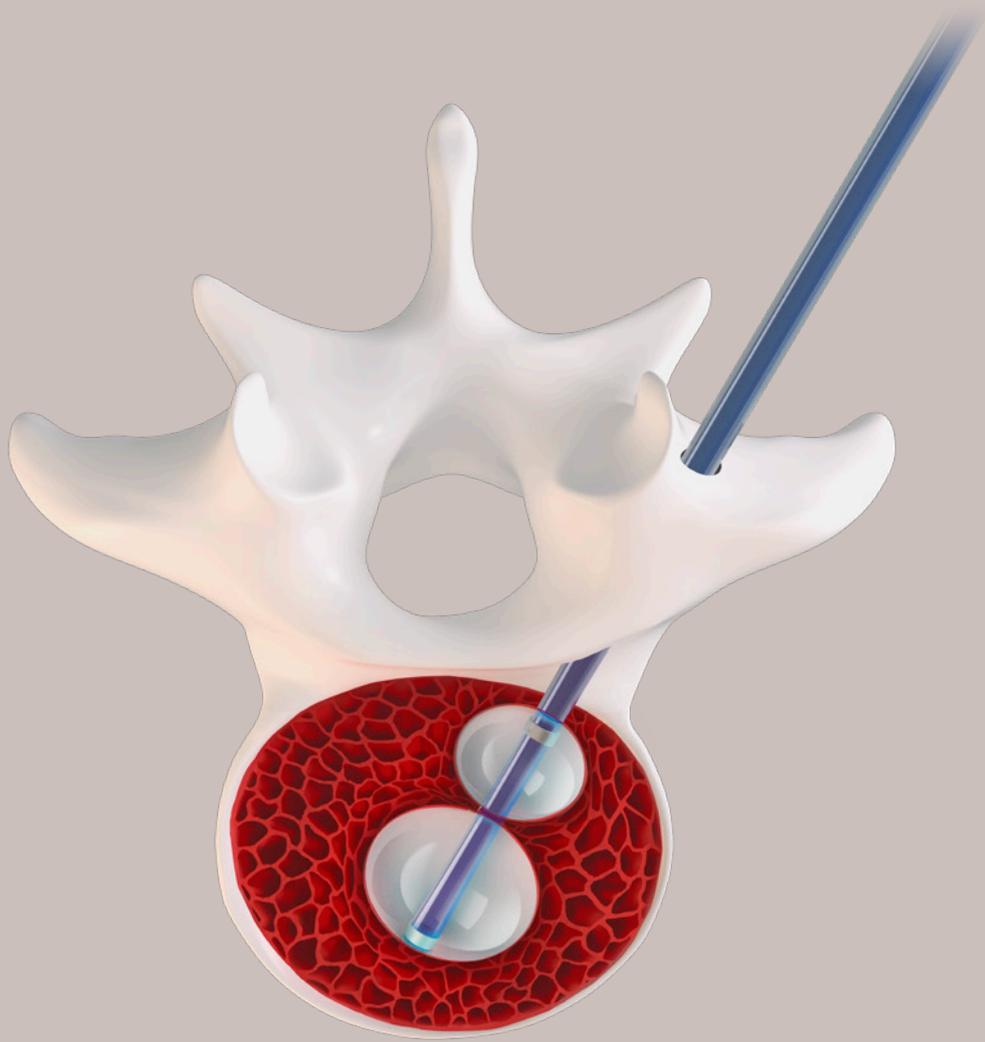


- #### Kit components:
- 6 x Vertebra Filler Device (frontal opening)

Filler Kit Side Opening S4010



- #### Kit components:
- 3 x Vertebra Filler Device (side opening)



Unipedicular

Joline[®] Medical Technology

Joline GmbH & Co. KG
Neue Rottenburger Str. 50
72379 Hechingen
Germany

Phone: +49 (0)7471 9881-0
Fax: +49 (0)7471 9881-222
E-mail: info@joline.de
www.joline.de



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