

HIGH QUALITY  
**MADE IN  
GERMANY**  
SYSTEMS

**joimax<sup>®</sup>**



COMPLETE SPINAL SURGERY SYSTEMS  
**PRODUCTS**

**TESSYS®**  
Transforaminal Endoscopic Surgical System



**iLESSYS®**  
Interlaminar Endoscopic Surgical System



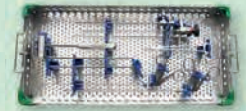
**CESSYS®**  
Cervical Endoscopic Surgical System



**Multiuse RT**



**intENTS®**  
Interventional Endoscopic Nucleus Therapy Set



**IMPLANTS**



**VBA-MANAGEMENT**



**INSTRUMENTS**



**ENDOSCOPES**



**DISPOSABLES**



**DEVICES**



**ACCESSORIES**





## TESSYS® – the unique all-in-one-system

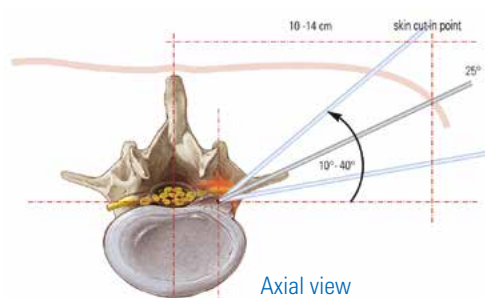
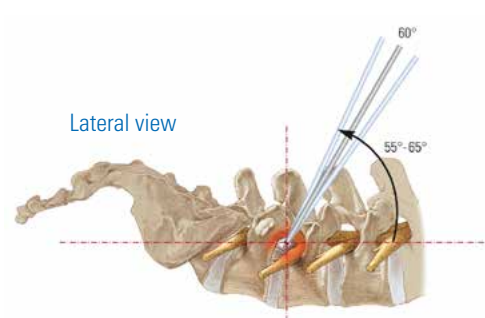
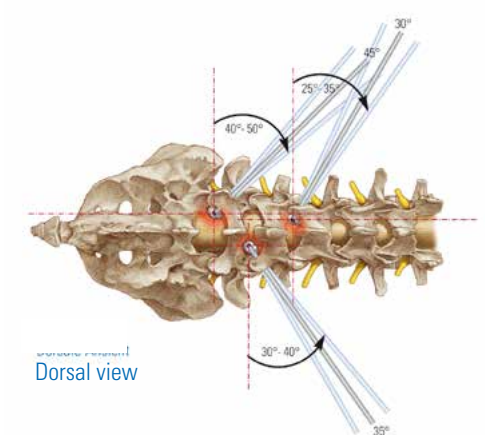
To remove a herniated disc, the **TESSYS®** method uses a lateral, transforaminal, endoscopic access path, classifiable as a surgical access method that minimizes patient trauma. Sequestered herniated disc tissue is completely and directly removed through the foramen, which is gradually extended with special reamers and instruments, while the patient is in a stable lateral or prone position and responsive throughout surgery under analgesia sedation. The **TESSYS®** surgical method is

also performed in hospitals and ambulant surgical centers.

### Instrument set – high precision, high durability

The instrument set contains all necessary instruments for secure minimally invasive surgery and the removal of spinal disc material, plus a range of different grasping, cutting and punching forceps for removing free nucleus material, scar tissue and facet joint capsule tissue.

### TESSYS® approach



### Following instruments sets are available

#### > TESSYS® Instrument Set, Basic

Standard instrument set for the transforaminal approach

#### > TESSYS® Instrument Set, Basic XT

Instrument Set based on the basic instrument set, with extended instruments for patients heavier than 120 kg

#### > TESSYS® FastTrack

Instrument set for experienced **TESSYS®** user with reduced number of instruments for a faster access

#### > TESSYS® Spinal Stenosis

Instrument set for spinal stenosis treatment acc. to R. Morgenstern

#### > TESSYS® Drills

Set for the transforaminal approach with drills (see chapter Instruments/Bone Drills)

# Transforaminal Endoscopic Surgical System



**TESSYS®**  
Transforaminal Endoscopic Surgical System



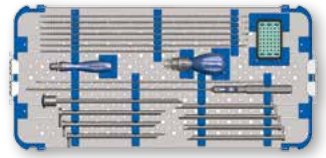
A

**TESSYS® FastTrack**  
Transforaminal Endoscopic Surgical System



B

**TESSYS® Spinal Stenosis**  
Transforaminal Endoscopic Surgical System  
for Spinal Stenosis Treatment acc. Dr. R. Morgenstern



C

D

E

F

G

H

I



## TESSYS® Instrument Set, Basic

A

REF	Description	Dimensions	Pcs.
<b>TESBASIC</b>	<b>TESSYS® Instrument Set, Basic</b>	incl. Container, Access and Resection Tray	Set
<b>Access Tray</b>			
<b>TIT502550-I</b>	TESSYS® Sterilization Tray for Instruments	L 530 mm / W 250 mm / H 55 mm	1
<b>GRB251025</b>	TESSYS® Guiding Rod, blunt, green	L 250 mm / ID 1.0 mm / OD 2.5 mm	1
<b>GRB251540</b>	TESSYS® Guiding Rod, blunt, yellow	L 250 mm / ID 1.5 mm / OD 4.0 mm	1
<b>GRB252050</b>	TESSYS® Guiding Rod, blunt, red	L 250 mm / ID 2.0 mm / OD 5.0 mm	1
<b>GRC241025</b>	TESSYS® Guiding Rod, conical, green	L 240 mm / ID 1.0 mm / OD 2.5 mm	1
<b>GRC241540</b>	TESSYS® Guiding Rod, conical, yellow	L 240 mm / ID 1.5 mm / OD 4.0 mm	1
<b>GRC242050</b>	TESSYS® Guiding Rod, conical, red	L 240 mm / ID 2.0 mm / OD 5.2 mm	1
<b>GRT241025S</b>	TESSYS® Guiding Rod, curved, green	L 240 mm / ID 1.0 mm / OD 2.5 mm, tempered special steel	2
<b>GRD226315</b>	Guiding Rod, conical with center and excenter bore	L 225 mm / OD 6.3 mm / ID1 1.5 mm / ID2 1.5 mm	1
<b>GRF182500*</b>	TESSYS® Guiding Rod Forceps	WL 180 mm / bore for 2.5 mm and 4.0 mm guiding rod	1
<b>GTC202838</b>	TESSYS® Guiding Tube, conical, green	L 205 mm / ID 2.6 mm / OD 3.9 mm	1
<b>GTC194353</b>	TESSYS® Guiding Tube, conical, yellow	L 195 mm / ID 4.2 mm / OD 5.2 mm	1
<b>GTC185363</b>	TESSYS® Guiding Tube, conical, red	L 185 mm / ID 5.3 mm / OD 6.3 mm	1
<b>WTS176575</b>	Working Tube with Handle, standard Lip	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
<b>RPE280380</b>	Reamer Push-Ejector, green	L 280 mm / OD 3.8 mm	1
<b>RPE280500</b>	Reamer Push-Ejector, yellow	L 280 mm / OD 5.0 mm	1
<b>RPE280600</b>	Reamer Push-Ejector, red	L 280 mm / OD 6.0 mm	1
<b>RHC108590</b>	TESSYS® Reamer Handle XT, cannulated	Quick-Lock-System, pull-release	1
<b>JAF180023</b>	Tweezer	L 180 mm / W 2.3 mm	1
<b>TEFP32020</b>	Endo-Flexprobe, standard	L 320 mm / OD 2.0 mm	1
<b>TEFH45025</b>	TESSYS® Endo-Flexprobe Handle	L 450 mm / OD 2.5 mm	1
<b>TNH322533</b>	NiTi Nerve Hook, superelastic	L 320 mm / OD 2.5 mm / JL 3.3 mm	1
<b>TCW40010</b>	TESSYS® Cleaning Wire	L 400 mm / OD 1.0 mm	1
<b>TSR25010</b>	TESSYS® Steel Ruler	L 200 mm	1
<b>TMH200170B</b>	Metal Hammer	200 g / L 170 mm / blue cap	1
<b>TRPH25100</b>	Palm Handle	L 100 mm / ID 25 mm	1
<b>JFST061427</b>	Stopper	W 6 mm / AD 14 mm / ID 2.7 mm	1
<b>JFST061434</b>	Stopper	W 6 mm / AD 14 mm / ID 3.4 mm	1



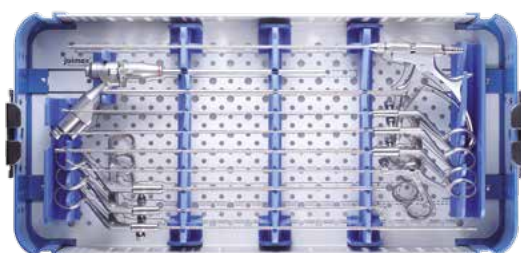
## TESSYS® Instrument Set, Basic

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REF	Description	Dimensions	Pcs.
<b>Resection Tray</b>			
<b>TIT502550F-35</b>	TESSYS® Instrument Tray with Lid	L 530 mm / W 250 mm / H 75 mm for Forceps + 1 Foraminoscope	1
<b>THF322041</b>	Biopsy Forceps, Spoon, angled	WL 320 mm / OD 2.0 mm / JL 4.0 mm / 45°, LOPS	1
<b>THF323541</b>	Biopsy Forceps, Spoon	WL 320 mm / OD 3.4 mm / JL 4.25 mm, LOPS	1
<b>BFS235081</b>	Biopsy Forceps, Spoon	WL 230 mm / OD 4.5 mm / JL 5.5 mm, LOPS	1
<b>BFS323061</b>	Biopsy Forceps, Blakesley	WL 320 mm / OD 3.5 mm / JL 6.0 mm, LOPS	1
<b>THF322541</b>	Biopsy Forceps, Spoon	WL 320 mm / OD 2.5 mm / JL 4.0 mm, LOPS	1
<b>THG323555</b>	Grasper Forceps, Spoon	WL 320 mm / OD 3.5 mm / JL 5.5 mm, LOPS	1
<b>TFG322522U</b>	Semi-Flexible Grasper Forceps, curved, up-biting	WL 320 mm / OD 2.5 mm / Helix	1
<b>EKS32351540</b>	Endo-Kerrision-Shaft	WL 320 mm / OD 3.5 mm / F 1.5 mm / 40°	1
<b>EKS32351590</b>	Endo-Kerrision-Shaft	WL 320 mm / OD 3.5 mm / F 1.5 mm / 90°	1
<b>EKS32351590</b>	Endo-Kerrision Pistol Handle	OD 5.5 mm	1
<b>Container</b>			
<b>TNC582815</b>	TESSYS® DIN-Norm-Container, blue Lid	L 580 mm / W 280 mm / H 150 mm	1
<b>TNC582815.1</b>	Disposable Paper Filter		100
<b>Endoscopes</b> are not part of the set. Please order separately, see tab Endoscopes			
<b>FS6342181C</b>	TESSYS® HD Foraminoscope, Combo	WL 171 mm / OD 6.3 mm / 30° / WChD 3.7 mm / 2 x IC 1.5 mm	1
<b>FS6342181O</b>	TESSYS® HD Foraminoscope, Ocular	WL 171 mm / OD 6.3 mm / 30° / WChD 3.7 mm / 2 x IC 1.5 mm	1



TESSYS® Access Tray



TESSYS® Resection Tray



## TESSYS® Instrument Set, Basic XTD for patients heavier than 120 kg

A

REF	Description	Dimensions	Pcs.
<b>TESXTD</b>	<b>TESSYS® XT Extension Set</b>	is used additional to TESBASIC	Set
<b>TXT371574</b>	TESSYS® Sterilization and Transportation Tray XT	L 370 mm / W 150 mm / H 74 mm	1
<b>GRC241025</b>	TESSYS® Guiding Rod, conical, green	L 240 mm / ID 1.0 mm / OD 2.5 mm	1
<b>GRC241540</b>	TESSYS® Guiding Rod, conical, yellow	L 240 mm / ID 1.5 mm / OD 4.0 mm	1
<b>GRC242050</b>	TESSYS® Guiding Rod, conical, red	L 240 mm / ID 2.0 mm / OD 5.2 mm	1
<b>GTC232838</b>	Guiding Tube, conical, green	L 231.5 mm / ID 2.8 mm / OD 3.8 mm	1
<b>GTC224353</b>	Guiding Tube, conical, yellow	L 223 mm / ID 4.3 mm / OD 5.3 mm	1
<b>GTC215363</b>	Guiding Tube, conical, red	L 216.5 mm / ID 5.3 mm / OD 6.3 mm	1
<b>WTS217500</b>	TESSYS® XT Working Tube with Handle	L 208 mm / ID 6.5 mm / OD 7.5 mm, fenestrated	1

**Endoscopes** are not part of the set. Please order separately, see tab Endoscopes

<b>FX6342208C</b>	TESSYS® HD Foraminoscope XT, Combo	WL 208 mm / OD 6.3 mm / 30° / WChD 3.7 mm / 2 x IC 1.5 mm	1
<b>FX6342208O</b>	TESSYS® HD Foraminoscope XT, Ocular	WL 208 mm / OD 6.3 mm / 30° / WChD 3.7 mm / 2 x IC 1.5 mm	1



## TESSYS® Instrument Set, Basic XT for patients heavier than 120 kg

A

REF	Description	Dimensions	Pcs.
<b>TESBASICXT</b>	<b>TESSYS® XT Instrument Set</b>		<b>Set</b>
<b>TIT502550-I</b>	TESSYS® Sterilization Tray for Instruments	L 530 mm / W 250 mm / H 55 mm	1
<b>TCW40010</b>	TESSYS® Cleaning Wire	L 400 mm / OD 1.0 mm	1
<b>GRB251025</b>	TESSYS® Guiding Rod, blunt, green	L 250 mm / ID 1.0 mm / OD 2.5 mm	1
<b>GRB251540</b>	TESSYS® Guiding Rod, blunt, yellow	L 250 mm / ID 1.5 mm / OD 4.0 mm	1
<b>GRB252050</b>	TESSYS® Guiding Rod, blunt, red	L 250 mm / ID 2.0 mm / OD 5.0 mm	1
<b>GRC241025</b>	TESSYS® Guiding Rod, conical, green	L 240 mm / ID 1.0 mm / OD 2.5 mm	1
<b>GRC241540</b>	TESSYS® Guiding Rod, conical, yellow	L 240 mm / ID 1.5 mm / OD 4.0 mm	1
<b>GRC242050</b>	TESSYS® Guiding Rod, conical, red	L 240 mm / ID 2.0 mm / OD 5.2 mm	1
<b>GRT241025S</b>	TESSYS® Guiding Rod, curved, green	L 240 mm / ID 1.0 mm / OD 2.5 mm, temp. special steel	2
<b>GRD226315</b>	Guiding Rod, conical with center and excenter bore	L 225 mm / OD 6.3 mm / ID1 1.5 mm / ID2 1.5 mm	1
<b>GTC232838</b>	Guiding Tube, conical, green	L 231.5 mm / ID 2.8 mm / OD 3.8 mm	1
<b>GTC224353</b>	Guiding Tube, conical, yellow	L 223 mm / ID 4.3 mm / OD 5.3 mm	1
<b>GTC215363</b>	Guiding Tube, conical, red	L 216.5 mm / ID 5.3 mm / OD 6.3 mm	1
<b>WTS217500</b>	TESSYS® XT Working Tube with Handle	L 208 mm / ID 6.5 mm / OD 7.5 mm, fenestrated regular	1
<b>RPE280380</b>	Reamer Push-Ejector, green	L 280 mm / OD 3.8 mm	1
<b>RPE280500</b>	Reamer Push-Ejector, yellow	L 280 mm / OD 5.0 mm	1
<b>RPE280600</b>	Reamer Push-Ejector, red	L 280 mm / OD 6.0 mm	1
<b>TEFH45025</b>	TESSYS® Endo-Flexprobe Handle	L 450 mm / OD 2.5 mm	1
<b>TEFP32020</b>	Endo-Flexprobe, standard	L 320 mm / OD 2.0 mm	1
<b>TNH322533</b>	NiTi Nerve Hook, superelastic	L 320 mm / OD 2.5 mm / JL 3.3 mm	1
<b>JAF180023</b>	Tweezers	L 180 mm / W 2.3 mm	1
<b>TSR25010</b>	TESSYS® Steel Ruler	L 200 mm	1
<b>TMH200170B</b>	Metal Hammer	200 g / L 170 mm / blue cap	1
<b>TRPH25100</b>	Palm Handle	L 100 mm / ID 25 mm	1
<b>RHC108590</b>	TESSYS® Reamer Handle XT, cannulated	Quick-Lock-System, pull-release	1
<b>TIT502550F-35</b>	TESSYS® Sterilization Tray with Lid for Forceps + 1 Foraminoscope	L 530 mm / W 250 mm / H 75 mm	1







## TESSYS® Instrument Set, Basic XT for patients heavier than 120 kg

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REF	Description	Dimensions	Pcs.
<b>GRF182500*</b>	TESSYS® Guiding Rod Forceps	WL 180 mm / bore for 2.5 mm and 4.0 mm guiding rod	1
<b>THG323555</b>	Grasper Forceps, Spoon	WL 320 mm / OD 3.5 mm / JL 5.5 mm, LOPS	1
<b>TFG322522U</b>	Semi-Flexible Grasper Forceps, curved, up-biting	WL 320 mm / OD 2.5 mm / Helix	1
<b>THF323541</b>	Biopsy Forceps, Spoon	WL 320 mm / OD 3.4 mm / JL 4.25 mm, LOPS	1
<b>BFS235081</b>	Biopsy Forceps, Spoon	WL 230 mm / OD 4.5 mm / JL 5.5 mm, LOPS	1
<b>BFS323061</b>	Biopsy Forceps, Blakesley	WL 320 mm / OD 3.5 mm / JL 6.0 mm, LOPS	1
<b>THF322541</b>	Biopsy Forceps, Spoon	WL 320 mm / OD 2.5 mm / ML 4.0 mm, LOPS	1
<b>THF322041</b>	Biopsy Forceps, Spoon, angled	WL 320 mm / OD 2.0 mm / JL 4.0 mm / 45°, LOPS	1
<b>JFST061427</b>	Stopper	W 6 mm / AD 14 mm / ID 2.7 mm	1
<b>JFST061434</b>	Stopper	W 6 mm / AD 14 mm / ID 3.4 mm	1
<b>EKS32351540</b>	Endo-Kerrison-Shaft	WL 320 mm / OD 3.5 mm / F 1.5 mm / 40°	1
<b>EKS32351590</b>	Endo-Kerrison-Shaft	WL 320 mm / OD 3.5 mm / F 1.5 mm / 90°	1
<b>EKH550000</b>	Endo-Kerrison Pistol Handle	OD 5.5 mm	1

### Container

<b>TNC582815</b>	TESSYS® DIN-Norm-Container, blue Lid	L 580 mm / W 280 mm / H 150 mm	1
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### Endoscopes are not part of the set. Please order separately, see tab Endoscopes

<b>FX6342208C</b>	TESSYS® HD Foraminoscope XT, Combo	WL 208 mm / OD 6.3 mm / 30° / WChD 3.7 mm / 2 x IC 1.5 mm	1
<b>FX6342208O</b>	TESSYS® HD Foraminoscope XT, Ocular	WL 208 mm / OD 6.3 mm / 30° / WChD 3.7 mm / 2 x IC 1.5 mm	1


**TESSYS® FastTrack** according Dr. Ralf Wagner; for experienced TESSYS® user

REF	Description	Dimensions	Pcs.
<b>TESFTR</b>	<b>TESSYS® Fast Track Instruments Set</b>		<b>Set</b>
<b>TES502550</b>	TESSYS® Instrument Tray with Lid		1
<b>TES502575</b>	TESSYS® Sterilization Tray Forceps		1
<b>GRC305000</b>	TESSYS® Guiding Rod, conical, yellow	L 300 mm / OD 5.0 mm	1
<b>GRC305010</b>	TESSYS® Guiding Rod, conical, canulated, yellow	L 300 mm / ID 1.0 mm / OD 5.0 mm	1
<b>GRC306325</b>	TESSYS® Guiding Rod, conical, red	L 300 mm / OD 6.3 mm	1
<b>GRC306342</b>	TESSYS® Guiding Rod, conical, red	L 300 mm / OD 6.3 mm	1
<b>GRT305010</b>	TESSYS® Guiding Rod, curved, conical, cannulated	L 300 mm / ID 1.0 mm / OD 5.0 mm	1
<b>GRC241025</b>	TESSYS® Guiding Rod, conical, green	L 240 mm / ID 1.0 mm / OD 2.5 mm	1
<b>GRF182500*</b>	TESSYS® Guiding Rod Forceps	WL 180 mm / bore for 2.5 mm and 4.0 mm guiding rod	1
<b>GRD226320</b>	Guiding Rod, conical with excenter bores	L 225 mm / OD 6.3 mm / ID1 1.0 mm / ID2 2.1 mm	1
<b>GTC202838</b>	TESSYS® Guiding Tube, conical, green	L 205 mm / ID 2.6 mm / OD 3.9 mm	1
<b>GTC194353</b>	TESSYS® Guiding Tube, conical, yellow	L 195 mm / ID 4.2 mm / OD 5.2 mm	1
<b>GTC185363</b>	TESSYS® Guiding Tube, conical, red	L 185 mm / ID 5.3 mm / OD 6.3 mm	1
<b>GTC176573</b>	TESSYS® Guiding Tube, conical, violet	L 175 mm / ID 6.5 mm / OD 7.3 mm	1
<b>WTS178575</b>	Working Tube with Handle, standard Lip	L 171 mm / ID 7.5 mm / OD 8.5 mm	1
<b>WTS176575</b>	Working Tube with Handle, standard Lip	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
<b>THF322041</b>	Biopsy Forceps, Spoon, angled	WL 320 mm / OD 2.0 mm / JL 4.0 mm / 45°, LOPS	1
<b>THF322541</b>	Biopsy Forceps, Spoon	WL 320 mm / OD 2.5 mm / JL 4.0 mm, LOPS	1
<b>BFS233061</b>	Biopsy Forceps, Blakesley	WL 230 mm / OD 3.5 mm / JL 6.5 mm, LOPS	1
<b>THG323555</b>	Grasper Forceps, Spoon	WL 320 mm / OD 3.5 mm / JL 5.5 mm, LOPS	1
<b>TFG322522U</b>	Semi-Flexible Grasper Forceps, curved, up-biting	WL 320 mm / OD 2.5 mm / Helix	1
<b>TSR25010</b>	TESSYS® Steel Ruler	L 200 mm	1
<b>JAF180023</b>	Tweezers	L 180 mm / W 2.3 mm	1
<b>TMH200170B</b>	Metal Hammer	200 g / L 170 mm / blue cap	1
<b>TEFH45025</b>	TESSYS® Endo-Flexprobe Handle	L 450 mm / OD 2.5 mm	1
<b>TEFP32020</b>	Endo-Flexprobe, standard	L 320 mm / OD 2.0 mm	1
<b>TCW40010</b>	TESSYS® Cleaning Wire	L 400 mm / OD 1.0 mm	1





## TESSYS® FastTrack according Dr. Ralf Wagner; for experienced TESSYS® user

REF	Description	Dimensions	Pcs.
<b>RPE280600</b>	Reamer Push-Ejector, red	L 280 mm / OD 6.0 mm	1
<b>RHC108590</b>	TESSYS® Reamer Handle XT, cannulated	Quick-Lock-System, pull-release	1
<b>JFST061427</b>	Stopper	W 6 mm / AD 14 mm / ID 2.7 mm	1
<b>JFST061434</b>	Stopper	W 6 mm / AD 14 mm / ID 3.4 mm	1

### Container

<b>TNC582815</b>	TESSYS® DIN-Norm-Container, blue Lid	L 580 mm / W 280 mm / H 150 mm	1
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### Endoscopes are not part of the set. Please order separately, see tab Endoscopes

<b>FS6342181C</b>	TESSYS® HD Foraminoscope, Combo	WL 171 mm / OD 6.3 mm / 30° / WChD 3.7 mm / 2 x IC 1.5 mm	1
<b>FS6342181O</b>	TESSYS® HD Foraminoscope, Ocular	WL 171 mm / OD 6.3 mm / 30° / WChD 3.7 mm / 2 x IC 1.5 mm	1

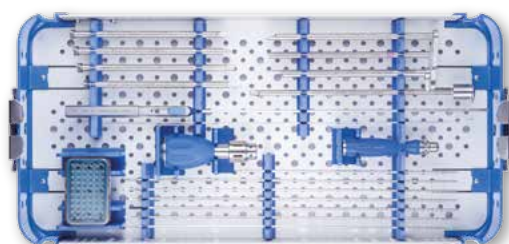
## TESSYS® FastTrack Extension Set

according Dr. Ralf Wagner; for experienced TESSYS® user

REF	Description	Dimensions	Pcs.
<b>FASXTD1</b>	<b>FastTrack Extension Set</b>		<b>Set</b>
<b>GRC305010</b>	TESSYS® Guiding Rod, conical, cannulated, yellow	L 300 mm / ID 1.0 mm / OD 5.0 mm	1
<b>GRT305010</b>	TESSYS® Guiding Rod, curved, conical, cannulated	L 300 mm / ID 1.0 mm / OD 5.0 mm	1
<b>GRC305000</b>	TESSYS® Guiding Rod, conical, yellow	L 300 mm / OD 5.0 mm	1
<b>GRC306325</b>	TESSYS® Guiding Rod, conical, red	L 300 mm / OD 6.3 mm	1
<b>GRC306342</b>	TESSYS® Guiding Rod, conical, red	L 300 mm / OD 6.3 mm	1
<b>FET381645</b>	FastTrack Extension Set Sterilization Tray	L 380 mm / W 162 mm / H 45 mm	1
<b>UNI3816C</b>	Universal Lid for SterilizationTray	L 380 mm / W 162 mm	1

**TESSYS® Spinal Stenosis** according Dr. R. Morgenstern

REF	Description	Dimensions	Pcs.
<b>TESSMORST</b>	<b>TESSYS® Spinal Stenosis Instrument Set</b>		<b>Set</b>
<b>TST502550</b>	TESSYS® Tray	for Stenosis Instruments	1
<b>GTC176573</b>	TESSYS® Guiding Tube, conical, violet	L 175 mm / ID 6.5 mm / OD 7.0 mm	1
<b>TEA253010</b>	Awl, without Handle	L 250 mm / OD 3.0 mm	1
<b>TEA372610</b>	Awl, without Handle	L 370 mm / OD 2.6 mm	1
<b>TEC372620</b>	Endo-Chisel, without Handle	L 370 mm / OD 2.6 mm	1
<b>TEC373020</b>	Endo-Chisel, without Handle	L 370 mm / OD 3.0 mm	1
<b>TEE372620</b>	Endo-Elevator blunt, without Handle	L 370 mm / OD 2.6 mm	1
<b>TEE373020</b>	Endo-Elevator blunt, without handle	L 359 mm / OD 3.0 mm	1
<b>TRPH25100</b>	Palm Handle	L 104 mm / ID 25 mm	1
<b>TES372620</b>	Endo-Spatula, without Handle	L 370 mm / OD 2.6 mm	1
<b>TEFH45025</b>	TESSYS® Endo-Flexprobe Handle	L 460 mm / OD 3 mm / ID 2.2 mm	1
<b>TEFP32020</b>	Endo-Flexprobe, standard	L 320 mm / OD 2.0 mm	1
<b>WTS177501</b>	Working Tube with Handle, wide Lip	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS176575</b>	Working Tube with Handle, standard Lip	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS177502</b>	Working Tube with Handle, long Lip	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS178575</b>	Working Tube with Handle, standard Lip	L 171 mm / ID 7.5 mm / OD 8.5 mm	1
<b>WTS177505</b>	Working Tube with Handle, double Lip	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTC186573</b>	Working Tube Chisel	L 186 mm / OD 7.3 mm / ID 6.5 mm	1
<b>WTC225564P</b>	Working Tube, Chisel with Plate	L 221 mm / ID 5.5 mm / OD 6.4 mm	1
<b>TECH12121</b>	Multifunctional Palm Handle with Quick-Lock	L 107 mm / OD 20.0 mm	1
<b>Container</b>			
<b>TNC582815</b>	TESSYS® DIN-Norm-Container, blue Lid	L 580 mm / W 280 mm / H 150 mm	1



TESSYS® Spinal Stenosis Instrument Set



## iLESSYS® – endoscopic interlaminar access for treatment of spinal stenosis and herniated discs

The **iLESSYS®** method is the surgical treatment of herniated discs and stenosis primarily of the lumbar spine. It uses a minimally invasive interlaminar access route. In this approach the removal of the lamina bones can be largely bypassed, muscles, soft tissues, and the ligamentum flavum are only gradually dilated. The small diameter of the joimax® Laminoscope (< 7 mm), and the working tube (< 8 mm) protect the tissue structures surrounding the access path and the spinal canal, and yet allow the used 30° optics throughout a large operation area index. Thus, the **iLESSYS®** method represents a true minimally invasive surgical technique for pathologies in and around the spinal canal.

### Herniated disc

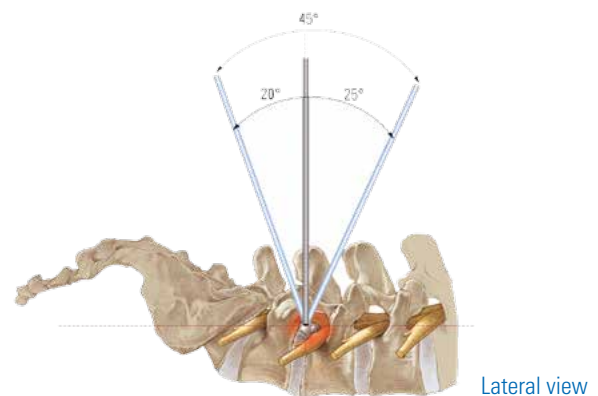
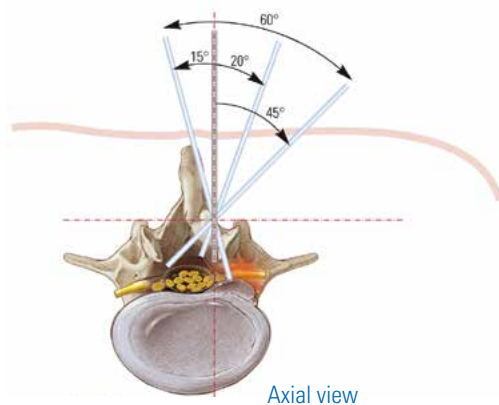
The **iLESSYS®** surgical method is indicated for almost any radicular symptoms caused by a herniated

disc that could not be improved with conservative therapy. Cauda equina syndrome indicates immediate calls for surgery. The **iLESSYS®** technique is particularly suitable for operations of disc herniations of the level L5/S1 with free sequesters dorsal to the dura.

### Stenosis

Stenosis of the spinal canal and exiting nerves through degenerative processes cover a whole group of indications for the interlaminar approach, in particular with older patients. These degenerative disorders become an increasingly central issue in medicine, since the demographic structure is changing and life expectancy is constantly rising.

### iLESSYS® approach



# Interlaminar Endoscopic Surgical System



**iLESSYS®**  
Interlaminar Endoscopic Surgical System



A

**iLESSYS® Delta**  
Interlaminar Endoscopic Surgical System



B

C

D

E

F

G

H

I



## iLESSYS® Instrument Set, Standard

A

REF	Description	Dimensions	Pcs.
<b>iLESSYSST</b>	<b>iLESSYS® Instrument Set, Standard</b>	includes Access Tray, Resection Tray and Container	<b>Set</b>
<b>Access Tray</b>			
<b>TDT502550</b>	iLESSYS® Access Tray with cover	L 550 mm / W 250 mm / H 75 mm	1
<b>TECH12121</b>	Multifunctional Palm Handle with Quick-Lock	L 107.5 mm / OD 20.0 mm	1
<b>TRPH25100</b>	Palm Handle	L 100 mm / ID 25.0 mm	1
<b>WTS176575</b>	Working Tube with handle, standard Lip	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS177501</b>	Working Tube with handle, wide Lip	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS177502</b>	Working Tube with handle, long Lip	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS177503</b>	Working Tube with handle, oblique 45°	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS177504</b>	Working Tube with handle, oblique 90°	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS177505</b>	Working Tube with handle, double Lip	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS177506</b>	Working Tube with handle, spoon Lip	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
<b>GRD196315</b>	TESSYS® Guiding Rod, conical, with center and excenter bore	L 195 mm / OD 6.3 mm / ID1 1.5 mm / ID2 1.5 mm	1
<b>GRC241025</b>	TESSYS® Guiding Rod, conical, green	L 240 mm / ID 1.0 mm / OD 2.5 mm	1
<b>GRC241540</b>	TESSYS® Guiding Rod, conical, yellow	L 240 mm / ID 1.5 mm / OD 4.0 mm	1
<b>GRC242050</b>	TESSYS® Guiding Rod, conical, red	L 240 mm / ID 2.0 mm / OD 5.2 mm	1
<b>GTC202838</b>	TESSYS® Guiding Tube, conical, green	L 205 mm / ID 2.6 mm / OD 3.9 mm	1
<b>GTC194353</b>	TESSYS® Guiding Tube, conical, yellow	L 195 mm / ID 4.2 mm / OD 5.2 mm	1
<b>GTC185363</b>	TESSYS® Guiding Tube, conical, red	L 185 mm / ID 5.3 mm / OD 6.3 mm	1
<b>TEA252610</b>	Awl, without Handle	L 250 mm / OD 2.6 mm	1
<b>JDA273515</b>	Dissector	WL 275 mm / OD 3.5 mm	1
<b>JAF180023</b>	Tweezer	L 180 mm / W 2.3 mm	1
<b>SFA253040</b>	Multiflex Holding Arm, for scopes and / or working tubes, standard mounting		1

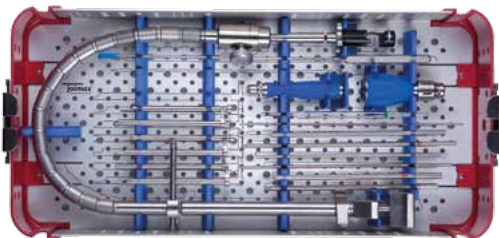
*Optional accessories, not part of the complete set. For more Details see chapter Instruments / Other Instruments*



## iLESSYS® Instrument Set, Standard

A

REF	Description	Dimensions	Pcs.
<b>Resection Tray</b>			
<b>TDT502550F</b>	iLESSYS® Resection Tray	L 550 mm / W 250 mm / H 75 mm	1
<b>EKP273590</b>	Endo-Kerrison-Punch	WL 275 mm / OD 3.5 mm / 90°	1
<b>SEK273540</b>	Endo-Kerrison-Shaft	WL 275 mm / OD 3.5 mm / 40°	1
<b>THP272545</b>	Punch	WL 275 mm / OD 2.5 mm / JL 5.0 mm	1
<b>THF272041</b>	Biopsy Forceps, Spoon, angled	WL 275 mm / OD 2.0 mm / JL 4.0 mm / 45°, LOPS	1
<b>TFG272522U</b>	Semi-Flexible Grasper Forceps, curved, up-biting	WL 275 mm / OD 2.7 mm / Helix 2.5 mm	1
<b>BFS273061</b>	Biopsy Forceps, Blakesley	WL 275 mm / OD 3.5 mm / JL 6.0 mm, LOPS	1
<b>THG272555</b>	Grasper Forceps, Spoon	WL 275 mm / OD 2.5 mm / JL 5.85 mm, LOPS	1
<b>THS272550</b>	Hook Scissor	WL 275 mm / OD 2.5 mm / JL 5.0 mm, LOPS	1
<b>EKS27351540</b>	Endo-Kerrison-Shaft	WL 275 mm / OD 3.5 mm / F 1.5 mm	1
<b>EKS27351590</b>	Endo-Kerrison-Shaft	WL 275 mm / OD 3.5 mm / F 1.5 mm / 90°	1
<b>EKH550000</b>	Endo-Kerrison Pistol Handle	OD 5.5 mm	1
<b>TEFH41025</b>	Handle Endo-Flexprobe 270	L 410 mm / OD 3 mm / ID 2.2 mm	1
<b>TEFP27020</b>	Endo-Flexprobe 270	L 270 mm / OD 2.0 mm	1
<b>Container</b>			
<b>TNC582820R</b>	iLESSYS® DIN-Norm-Container, red Lid	L 580 mm / W 280 mm / H 200 mm	1
<b>Endoscope</b> are not part of the set. Please order separately, see tab Endoscopes			
<b>FS6342181C</b>	TESSYS® HD Foraminoscope, Combo	WL 171 mm / OD 6.3 mm / 30° / WChD 3.7 mm / 2 x IC 1.5 mm	1
<b>FS63421810</b>	TESSYS® HD Foraminoscope, Combo	WL 171 mm / OD 6.3 mm / 30° / WChD 3.7 mm / 2 x IC 1.5 mm	1



iLESSYS® Access Tray



iLESSYS® Resection Tray





## iLESSYS® Instrument Set, Short

A

REF	Description	Dimensions	Pcs.
<b>iLESSYSSH</b>	<b>iLESSYS® Instrument Set, Short</b>	includes Access Tray, Resection Tray and Container	<b>Set</b>
<b>Access Tray</b>			
<b>TDT502550</b>	iLESSYS® Access Tray with Lid	L 550 mm / W 250 mm / H 75 mm	1
<b>WTS127500</b>	Working Tube with Handle, standard Lip	L 124 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS127501</b>	Working Tube with handle, wide Lip	L 124 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS127502</b>	Working Tube with Handle, long Lip	L 124 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS127503</b>	Working Tube with Handle, oblique 45°	L 124 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS127504</b>	Working Tube with Handle, straight 90°	L 124 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS127505</b>	Working Tube with Handle, double Lip	L 124 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS127506</b>	Working Tube with Handle, Spoon Lip	L 124 mm / ID 6.5 mm / OD 7.5 mm	1
<b>GRD196315</b>	TESSYS® Guiding Rod, conical with center and excenter bore	L 195 mm / OD 6.3 mm / ID1 1.5 mm / ID2 1.5 mm	1
<b>GRC241025</b>	TESSYS® Guiding Rod, conical, green	L 240 mm / ID 1.0 mm / OD 2.5 mm	1
<b>GRC241540</b>	TESSYS® Guiding Rod, conical, yellow	L 240 mm / ID 1.5 mm / OD 4.0 mm	1
<b>GRC242050</b>	TESSYS® Guiding Rod, conical, red	L 240 mm / ID 2.0 mm / OD 5.2 mm	1
<b>GTC202838</b>	TESSYS® Guiding Tube, conical, green	L 205 mm / ID 2.6 mm / OD 3.9 mm	1
<b>GTC194353</b>	TESSYS® Guiding Tube, conical, yellow	L 195 mm / ID 4.2 mm / OD 5.2 mm	1
<b>GTC185363</b>	TESSYS® Guiding Tube, conical, red	L 185 mm / ID 5.3 mm / OD 6.3 mm	1
<b>TEA252610</b>	Awl, without Handle	L 250 mm / OD 2.6 mm	1
<b>JDA273515</b>	Dissector	WL 275 mm / OD 3.5 mm	1
<b>TECH12121</b>	Multifunctional Palm Handle with Quick-Lock	L 107.5 mm / OD 20.0 mm	1
<b>TRPH25100</b>	Palm Handle	L 100 mm / ID 25 mm	1
<b>JAF180023</b>	Tweezers	L 180 mm / W 2.3 mm	1
<b>SFA253040</b>	Multiflex Holding Arm, for scopes and / or working tubes, standard mounting		1

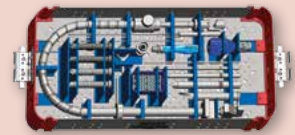
*Optional accessories, not part of the complete set. For more Details see chapter Instruments / Other Instruments*



## iLESSYS® Instrument Set, Short

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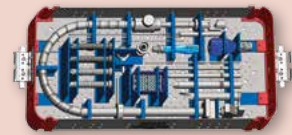
REF	Description	Dimensions	Pcs.
<b>Resection Tray</b>			
<b>TDT502550F</b>	iLESSYS® Resection Tray	L 550 mm / W 250 mm / H 75 mm	1
<b>EKP273590</b>	Endo-Kerrison-Punch	WL 275 mm / OD 3.5 mm / 90°	1
<b>SEK273540</b>	Endo-Kerrison-Shaft	WL 275 mm / OD 3.5 mm / 40°	1
<b>THP272545</b>	Punch	WL 275 mm / OD 2.5 mm / JL 5.0 mm, LOPS	1
<b>THF272041</b>	Biopsy Forceps, Spoon, angled	WL 275 mm / OD 2.0 mm / JL 4.0 mm / 45°, LOPS	1
<b>TFG272522U</b>	Semi-Flexible Grasper Forceps, curved, up-biting	WL 275 mm / OD 2.7 mm / Helix 2.5 mm	1
<b>THS272550</b>	Hook Scissor	WL 275 mm / OD 2.5 mm / JL 5.0 mm, LOPS	1
<b>BFS273061</b>	Biopsy Forceps, Blakesley	WL 275 mm / OD 3.5 mm / JL 6.0 mm, LOPS	1
<b>THG272555</b>	Grasper Forceps, Spoon	WL 275 mm / OD 2.5 mm / JL 5.85 mm, LOPS	1
<b>EKS27351540</b>	Endo-Kerrison-Shaft	WL 275 mm / OD 3.5 mm / F 1.5 mm	1
<b>EKS27351590</b>	Endo-Kerrison-Shaft	WL 275 mm / OD 3.5 mm / F 1.5 mm / 90°	1
<b>EKH550000</b>	Endo-Kerrison Pistol Handle	OD 5.5 mm	1
<b>TEFH41025</b>	Handle Endo-Flexprobe 270	L 410 mm / OD 3 mm / ID 2.2 mm	1
<b>TEFP27020</b>	Endo-Flexprobe 270	L 270 mm / OD 2.0 mm	1
<b>Container</b>			
<b>TNC582820R</b>	iLESSYS® DIN-Norm-Container, red Lid	L 580 mm / W 280 mm / H 200 mm	1
<b>Endoscope</b> are not part of the set. Please order separately, see tab Endoscopes			
<b>LS6342125C</b>	iLESSYS® HD Laminoscope, Combo	WL 125 mm / OD 6.3 mm / 30° / WChD 3.7 mm / 2x IC 1.5 mm	1
<b>LS6342125O</b>	iLESSYS® HD Laminoscope, Ocular	WL 125 mm / OD 6.3 mm / 30° / WChD 3.7 mm / 2x IC 1.5 mm	1



## iLESSYS® Delta Instrument Set

REF	Description	Dimensions	Pcs.
<b>iLESSYSDL</b>	<b>iLESSYS® Delta Instrument Set</b>	includes Access Tray, Resection Tray and Container	<b>Set</b>
<b>Access Tray</b>			
<b>TDT502550DL</b>	iLESSYS® Delta Access Tray with Lid	L 550 mm / W 250 mm / H 75 mm	1
<b>WTS901300.3</b>	iLESSYS® Delta Working Tube Shaft, standard Lip, stainless steel	L 91 mm / ID 10.2 mm / OD 13.7 mm	1
<b>WTS901300</b>	iLESSYS® Delta Working Tube Shaft, standard Lip, radiolucent	L 91 mm / ID 10.2 mm / OD 13.7 mm	1
<b>WTS901304.3</b>	iLESSYS® Delta Working Tube Shaft, straight 90°, stainless steel	L 91 mm / ID 10.2 mm / OD 13.7 mm	1
<b>WTS901304</b>	iLESSYS® Delta Working Tube Shaft, straight 90°, radiolucent	L 91 mm / ID 10.2 mm / OD 13.7 mm	1
<b>WTA901300.1</b>	iLESSYS® Delta Working Tube, Handle	L 7 mm / ID 14 mm / OD 22 mm	1
<b>WTA901300.2</b>	iLESSYS® Delta Working Tube, Adapter	L 31 mm / ID 10.2 mm / OD 22 mm	1
<b>WTS121602</b>	Working Tube with Handle, long Lip	L 132 mm / ID 15 mm / OD 16 mm	1
<b>GTC202838</b>	TESSYS® Guiding Tube, conical, green	L 205 mm / ID 2.6 mm / OD 3.9 mm	1
<b>GTC194069</b>	Guiding Tube, conical, yellow	L 185 mm / ID 4 mm / OD 6.9 mm	1
<b>GTC177010</b>	Guiding Tube, conical, red	L 165 mm / ID 7 mm / OD 10 mm	1
<b>GTC151510</b>	Guiding Tube, conical, violet	L 175 mm / ID 10 mm / OD 15 mm	1
<b>TECH12121</b>	Multifunctional Palm Handle with Quick-Lock	L 107.5 mm / OD 20 mm	1
<b>TRPH25100</b>	Palm Handle	L 104 mm / ID 25 mm	1
<b>TEA212503</b>	Awl, without Handle	L 210 mm / OD 2.5 mm	1
<b>TEE263020</b>	Endo-Elevator blunt, without Handle	L 260 mm / OD 3.0 mm	1
<b>JDA243515</b>	Dissector	WL 240 mm / OD 3.5 mm	1
<b>Resection Tray</b>			
<b>TDT502550DLF</b>	iLESSYS® Delta Resection Tray	L 550 mm / W 250 mm / H 75 mm	1
<b>JFG243570U</b>	Semi-Flexible Grasper Forceps, curved, upbiting	WL 240 mm / OD 3.5 mm / Helix 2.9 mm	1
<b>JGF244590</b>	Spoongrasper Forceps	WL 240 mm / OD 4.5 mm / JL 9.0 mm / LOPS	1
<b>JHP244580</b>	Hook Punch	WL 240 mm / OD 4.5 mm / JL 8.0 mm / LOPS	1
<b>JHS243545</b>	Hook Scissor	WL 240 mm / OD 3.5 mm / JL 4.5 mm / LOPS	1





## iLESSYS® Delta Instrument Set

B

REF	Description	Dimensions	Pcs.
<b>EKS24551540</b>	Endo-Kerrison-Shaft	WL 240 mm / OD 5.5 mm / F 1.5 mm / 40°	1
<b>EKS24551590</b>	Endo-Kerrison-Shaft	WL 240 mm / OD 5.5 mm / F 1.5 mm / 90°	1
<b>EKS24553040</b>	Endo-Kerrison-Shaft	WL 240 mm / OD 5.5 mm / F 3.0 mm / 40°	1
<b>EKS24553090</b>	Endo-Kerrison-Shaft	WL 240 mm / OD 5.5 mm / F 3.0 mm / 90°	1
<b>EKH550000</b>	Endo-Kerrison-Pistol Handle	OD 5.5 mm	1
<b>TCC200801</b>	Closing Cap for joimax® Endoscopes	OD 20.0 mm / thickness: 8 mm / press cut: 8 mm	1

### Container

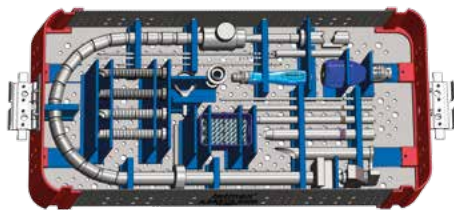
<b>TNC582820R</b>	iLESSYS® DIN-Norm-Container, red Lid	L 580 mm / W 280 mm / H 200 mm	1
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**Endoscope** are not part of the set. Please order separately, see tab Endoscopes

<b>LS10061250</b>	iLESSYS® HD Laminoscope, Ocular	WL 125 mm / OD 10.0 mm / 15° / WChD 6.0 mm / 2x IC 2.0 mm	1
<b>LS1006125C</b>	iLESSYS® HD Laminoscope, Combo	WL 125 mm / OD 10.0 mm / 15° / WChD 6.0 mm / 2x IC 2.0 mm	1

### Optional Instruments

<b>SFA253040</b>	Multiflex Holding Arm	for Scopes and / or Working Tubes, standard mounting
<b>TMH200170B</b>	Metal Hammer	200 g / L 200 mm / blue cap



iLESSYS® Delta Access Tray



iLESSYS® Delta Resection Tray



## CESSYS® – anterior lateral access for cervical disc herniation treatment

The **CESSYS®** technique utilizes a direct, ventral approach to the intervertebral disc of the cervical spine. Under endoscopic control the compressive disc material can then be targeted and removed.

### Advantages

The procedure is minimally invasive and gentle

- > The disc is preserved along with the natural structure of the spinal segment
- > No implant, so no associated implant failure risk
- > The ventral approach avoids any spinal cord manipulation
- > Shorter recovery
- > Very small incision for cosmetically good results

This procedure can be performed with the patient under general anesthesia or monitored anesthesia care (MAC). MAC greatly reduces the risks associated with general anesthesia and has the added benefit of immediate patient feedback if contact is made with the neural structures. This procedure is performed with the patient in the supine position.

### Surgical indications for cervical disc herniation

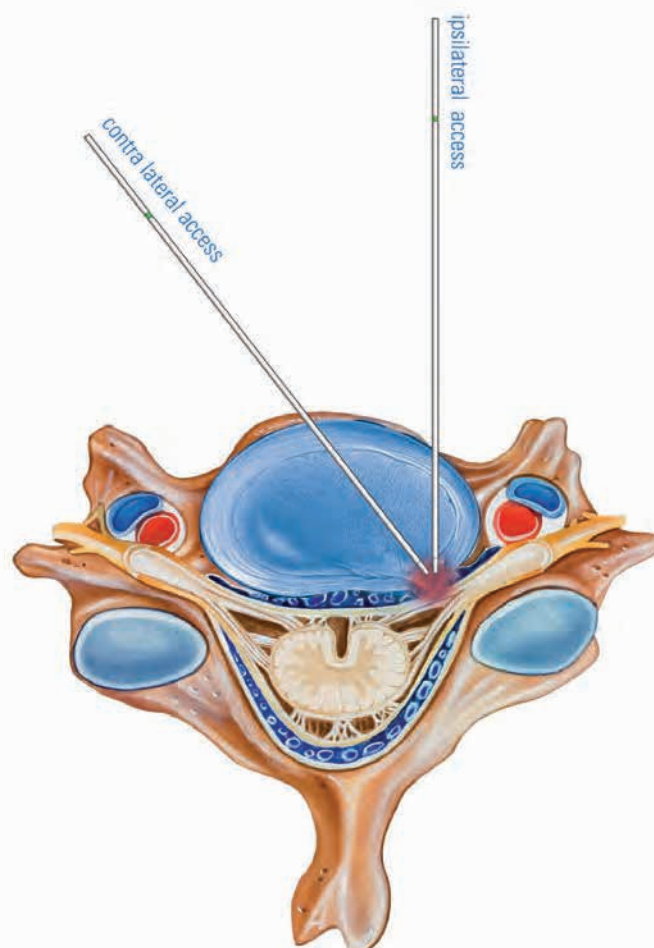
Cervical nerve root compression with or without significant neurological deficit and failure of conservative treatment measures.

### Radiographic indications

Soft disc herniations which are clearly visible on computed tomography (CT) or magnetic resonance imaging (MRI).

### Contraindications

- > Dried or sequestered disc herniations
- > Significant ossification of the posterior longitudinal ligament (PLL)
- > Stenosis on several levels
- > Acute cervical spondylosis / cervical spondylolisthesis
- > Segmental instability
- > Other pathological conditions such as: fractures, tumors or active infections
- > Advanced spondylosis
- > Disc height less than 4 mm
- > Any hindrance of radiographic visualization during the procedure, for example at C6/7 or C7/Th1 or very short neck





## CESSYS® Instrument Set

A

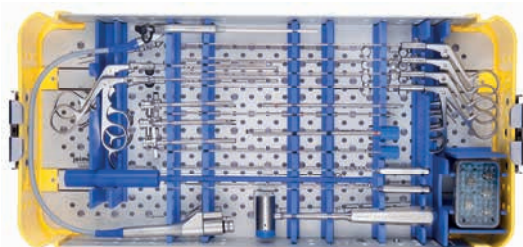
REF	Description	Dimensions	Pcs.
<b>CESSYSANT</b>	<b>CESSYS® Instrument Set</b>		<b>Set</b>
<b>CCR152039</b>	CESSYS® Crown Dilator, red	L 158 mm / ID 2.1 mm / OD 3.9 mm	1
<b>CCR251020</b>	CESSYS® Endoscopic Crown Dilator, yellow	L 258 mm / ID 1.0 mm / AD 2.0 mm	1
<b>CGT201020</b>	Guiding Tube, conical, yellow	L 200 mm / ID 1.0 mm / OD 2.0 mm	1
<b>CGT152039</b>	Guiding Tube, conical, red	L 150 mm / ID 2.1 mm / OD 3.9 mm	1
<b>CWT104803</b>	CESSYS® Working Tube with Handle, fenestr. 45°	L 98 mm / ID 4.0 mm / OD 4.8 mm	1
<b>CWT104804</b>	CESSYS® Working Tube with Handle, conical	L 97.6 mm / ID 4.0 mm / OD 4.8 mm	1
<b>CWT104805</b>	CESSYS® Working Tube with Handle, fenestr. doub.	L 98 mm / ID 4.0 mm / OD 4.8 mm	1
<b>CBF222020U</b>	Biopsy Forceps, Spoon, up-biting	WL 215 mm / OD 2.0 mm / JL 2.0 mm, LOPS	1
<b>CFG212035U</b>	Semi-flexible Grasper Forceps, curved, up-biting	WL 215 mm / OD 2.0 mm / JL 2.5 mm, LOPS	1
<b>CGF222020U</b>	Grasper Forceps, up-biting	WL 215 mm / OD 2.0 mm / JL 2.0 mm, LOPS	1
<b>SJP132761</b>	Tissue Punch Blakesley	WL 130 mm / OD 2.7 mm / JL 6.0 mm, LOPS	1
<b>SJP132718</b>	Hook Punch	L 130 mm / OD 2.7 mm, LOPS	1
<b>CTP222040</b>	Eagle Hook Punch	WL 215 mm / OD 2.0 mm / JL 4.0 mm, LOPS	1
<b>CMH150170</b>	CESSYS® Metal Hammer	150 g / L 170 mm / blue cap	1
<b>CNH231512</b>	Examining Hook	L 221 mm / OD 2.0 mm	1
<b>CEC222028</b>	Curette	L 230 mm / OD 2.0 mm	1
<b>CIH300607</b>	Instrument Holder	WL 200 mm	1
<b>CIT542690</b>	CESSYS® Sterilization Tray	L 540 mm / W 260 mm / H 90 mm	1
<b>CIH300607.2</b>	Instrument Holder Cone		1
<b>JFST061427</b>	Stopper	W 6.0 mm / AD 14 mm / ID 2.7 mm	2

### Container

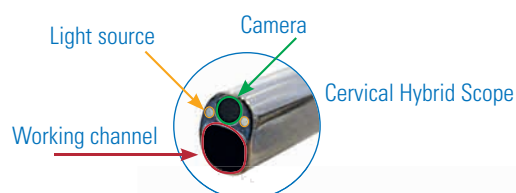
<b>CNC582814Y</b>	CESSYS® DIN-Norm-Container, gold Lid	L 580 mm / W 280 mm / H 135 mm	1
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### Endoscope are not part of the set. Please order separately, see tab Endoscopes

<b>CH402100C</b>	CESSYS® Cervical Hybrid Scope, Combo	OD 4.0 mm / WChD 2.1 mm / WL 100 mm	1
<b>CET381645</b>	CESSYS® Endoscope Sterilization / Transport Tray	L 380 mm / W 162 mm / H 45 mm	1



CESSYS® Instrument Set





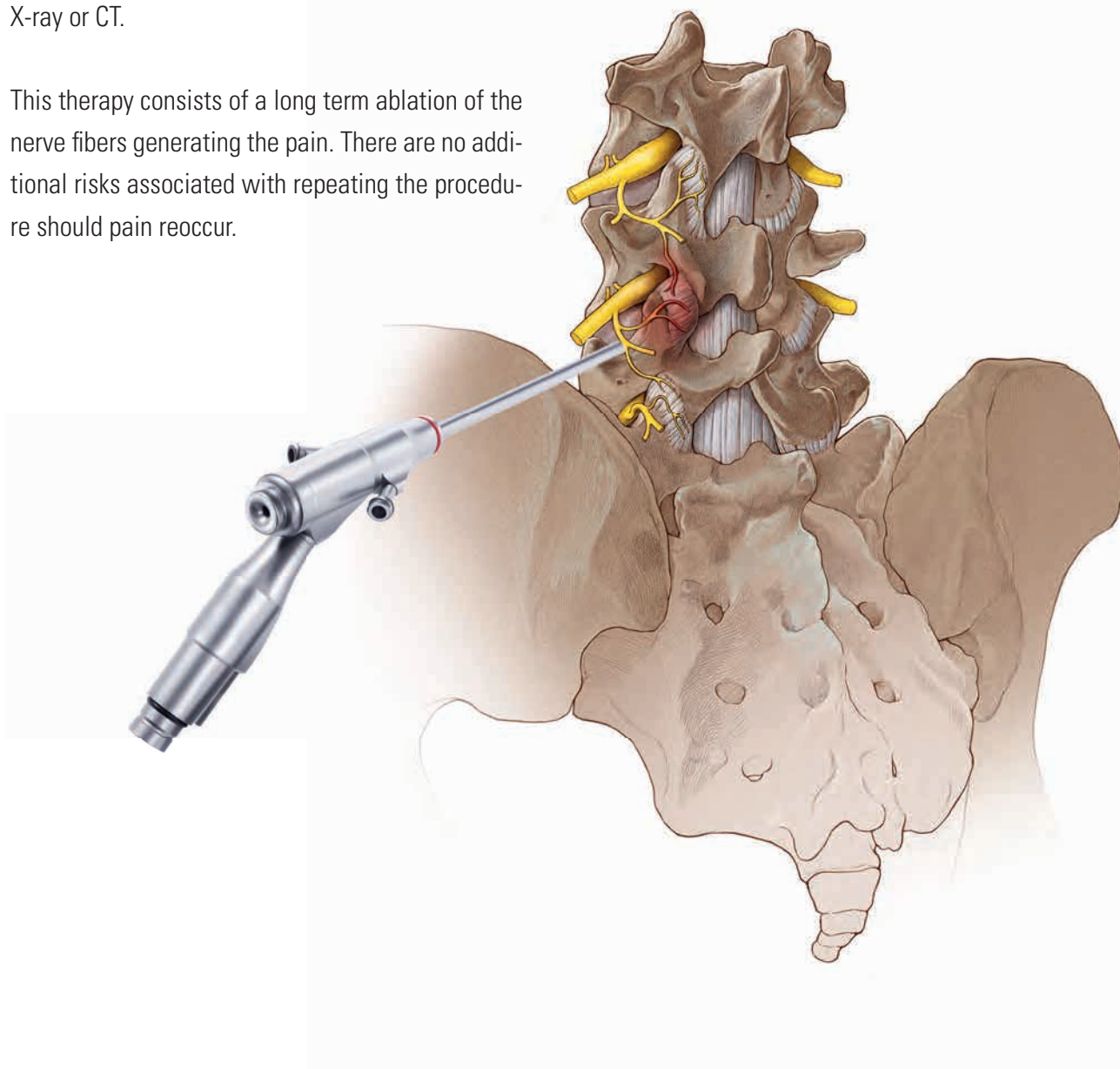
## Endoscopic Facet Joint Denervation – Rhizotomy

In our aging societies back pain diseases are wide spread and common diseases. The differential diagnosis of facet joint pain is even more common amongst other diagnosed back pain causes. The endoscopic access to the facet joints is a true minimally invasive method. In one intervention, the cause of the pain can be determined by locating the inflamed nerve, followed by the immediate implementation of the required treatment. The use of the endoscopic view can reduce radiation exposure from other real time imaging techniques such as X-ray or CT.

This therapy consists of a long term ablation of the nerve fibers generating the pain. There are no additional risks associated with repeating the procedure should pain reoccur.

### Indications

- > Chronic low back pain
- > Facet joint hypertrophy
- > Facet joint arthritis
- > Failed back syndrome
- > Sciatica
- > Whiplash syndrome





## Multiuse RT Instrument Set

A

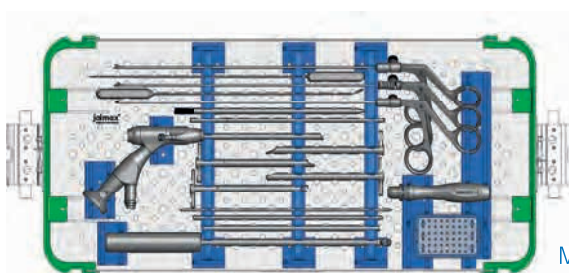
REF	Description	Dimensions	Pcs.
<b>MUSSTD</b>	<b>Multiuse RT Instrument Set</b>		<b>Set</b>
<b>MUT552575</b>	Multiuse RT Tray with Lid	L 550 mm / W 250 mm / H 75 mm	1
<b>GRC201238</b>	Guiding Rod, conical	L 200 mm / ID 1.2 mm / OD 3.8 mm	1
<b>GRD205610</b>	Guiding Rod, conical with 2 excenter bore	L 200 mm / ID 1.0 mm / OD 5.8 mm	1
<b>GTC184055</b>	Guiding Tube, conical	L 185 mm / ID 4.0 mm / OD 5.8 mm	1
<b>GTC202838</b>	TESSYS® Guiding Tube, conical, green	L 205 mm / ID 2.6 mm / OD 3.9 mm	1
<b>WTS127000</b>	Working Tube with Handle, standard Lip	L 124 mm / ID 6.0 mm / OD 7.0 mm	1
<b>WTS127004</b>	Working Tube with Handle, straight 90°	L 124 mm / ID 6.0 mm / OD 7.0 mm	1
<b>WTS127005</b>	Working Tube with Handle, double Lip	L 124 mm / ID 6.0 mm / OD 7.0 mm	1
<b>WTS127007</b>	Working Tube with Handle	L 124 mm / ID 6.0 mm / OD 7.0 mm	1
<b>THF272541</b>	Biopsy Forceps, Spoon	WL 275 mm / OD 2.5 mm / JL 4.0 mm, LOPS	1
<b>THS272550</b>	Hook Scissor	WL 275 mm / OD 2.5 mm / JL 5.0 mm, LOPS	1
<b>THP272545</b>	Punch	WL 275 mm / OD 2.5 mm / JL 5.0 mm, LOPS	1
<b>CIH300607</b>	Instrument Holder	WL 200 mm	1
<b>CEE232015</b>	Elevator	L 230 mm / OD 2.0 mm	1
<b>CNH231512</b>	Examining Hook	L 221 mm / OD 2.0 mm	1
<b>TECH12121</b>	Multifunctional Palm Handle with Quick-Lock	L 107.5 mm / OD 20.0 mm	1
<b>TEA212503</b>	Awl, without Handle	L 210 mm / OD 2.5 mm	1
<b>JFST061427</b>	Stopper	W 6.0 mm / ID 2.7 mm / OD 14 mm	2

### Container

<b>TNC582814G</b>	Multiuse RT DIN-Norm-Container, green lid	L 580 mm / W 280 mm / H 135 mm	1
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### Endoscope are not part of the set. Please order separately, see tab Endoscopes

<b>MS5830125C</b>	joimax® Multiscope Combo HD	WL 125 mm / OD 5.8 mm / 30°/ WChD 3.1 mm / 2 x IC 1.4 mm	1
<b>MS5830125O</b>	joimax® Multiscope Ocular HD	WL 125 mm / OD 5.8 mm / 30°/ WChD 3.1 mm / 2 x IC 1.4 mm	1



Multiuse RT Instrument Set





## Interventional Endoscopic Nucleus Therapy Set

**intENTS®** is a percutaneous nucleus therapy (PNT) set designed as a minimally invasive intradiscal decompression treatment option. The purpose of PNT is to reduce the volume of the nucleus pulposus, in order to achieve decompression of the radicular nerves. Volume reduction of the nucleus tissue is accomplished by vaporization using a bipolar RF Probe, **Vaporflex®** or mechanically, using forceps or tissue Shaver Blades. This procedure can be executed under local anesthesia and on an out-patient basis.

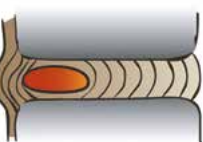
### Options for Nucleus volume reduction

- > Using biopsy forceps for histology
- > A special feature of the RF Probe **Vaporflex®** is the flexible tip that allows for a good decompression of the disc herniation, denervation of nociceptors and easy treatment of the dorsal annulus.
- > Using the **Shrill®** Blades aids with the quick removal of nucleus tissue.

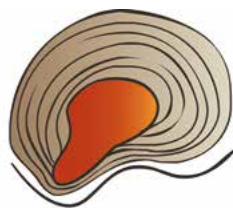
### Indications and persistent clinical symptoms

- > Protrusion of an intervertebral disc (bulging disc)
- > Prolapse of intervertebral disc without complete rupture of the annulus fibrosus (contained herniated disc)
- > Symptomatic discogenic pain (potentially generated by annular fissures)
- > Persisting disc protrusion

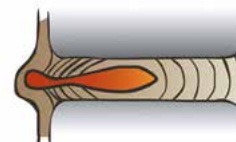
### Bulging Disc ...



... within the annulus



... within the outer annulus layer

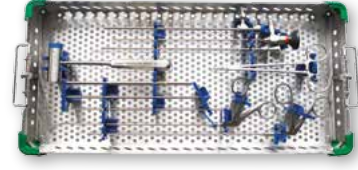


... contained prolapse

# Interventional Endoscopic Nucleus Therapy Set

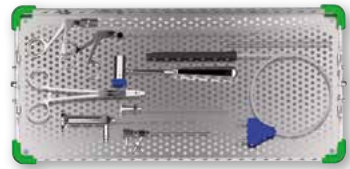


**intENTS®**  
Interventional Endoscopic Nucleus Therapy Set



A

**intENTS®** *Cervical*  
Interventional Endoscopic Nucleus Therapy Set



B

C

D

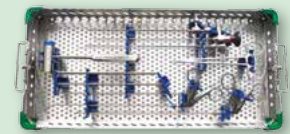
E

F

G

H

I



## intENTS® Instrument Set

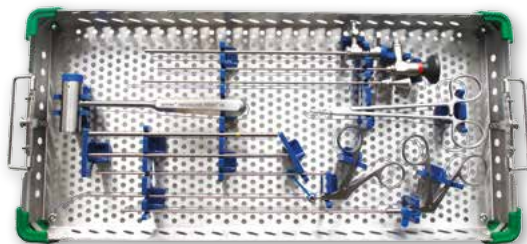
REF	Description	Dimensions	Pcs.
<b>intENTS01</b>	<b>intENTS® Instrument Set</b>		<b>Set</b>
<b>NIT452505</b>	intENTS® Instrument Tray	L 540 mm / W 255 mm / H 50 mm	1
<b>NIL452505</b>	intENTS® Instrument Tray Lid	L 524 mm / W 250 mm	1
<b>GTC202838P</b>	Guiding Tube, conical, green	L 205 mm / OD 3.8 mm / ID 2.8 mm	1
<b>GRC241025</b>	TESSYS® Guiding Rod, conical, green	L 240 mm / OD 2.5 mm / ID 1.0 mm	1
<b>GRF182500</b>	TESSYS® Guiding Rod Forceps	WL 180 mm / bore for 2.5 mm and 4.0 mm guiding rod	1
<b>THF272541</b>	Biopsy Forceps, Spoon	WL 275 mm / OD 2.5 mm / JL 4.0 mm, LOPS	1
<b>TFG272522U</b>	Semi-Flexible Grasper Forceps, curved, up-biting	WL 275 mm / OD 2.7 mm / Helix 2.5 mm	1
<b>TMH200170B</b>	Metal Hammer	200 g / L 170 mm / blue cap	1

### Container

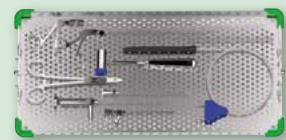
<b>TNC582810G</b>	intENTS® DIN-Norm-Container, with green Lid		1
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### Endoscope are not part of the set. Please order separately, see tab Endoscopes

<b>PS27302460</b>	HD Nucleuscope with Ocular	WL 246 mm / OD 2.7 mm / 30°	1
<b>PS2730246C</b>	HD Nucleuscope	WL 246 mm / OD 2.7 mm / 30°	1
<b>PSD4030246</b>	Shaft and Flush Connector for Nucleuscope with trocar	OD 4.0 mm / ID 3.6 mm / 45°	1
<b>PSO273002</b>	Obturator cannulated for Nucleuscope Shaft	OD 3.5 mm / ID 1.0 mm	1



intENTS® Instrument Set



## intENTS® Cervical Instrument Set

REF	Description	Dimensions	Pcs.
<b>INTENTSZ01</b>	<b>intENTS® interventional Endoscopic Nucleus Therapy Set</b>		<b>Set</b>
<b>NITZ452505</b>	intENTS® Instrument Tray, cervical	L 540 mm / W 255 mm / H 50 mm	1
<b>NIL452505</b>	intENTS® Instrument Tray Lid	L 524 mm / W 250 mm	1
<b>CGF222020U</b>	Grasper Forceps, up-biting	WL 215 mm / OD 2.0 mm / JL 2.0 mm, LOPS	1
<b>CFG212035U</b>	Semi-Flexible Grasper Forceps, curved, up-biting	WL 215 mm / OD 2.0 mm / JL 2.5 mm	1
<b>GTC171523</b>	Guiding Tube, conical	L 170 mm / ID 1.5 mm / OD 2.3 mm	1
<b>GRC190914</b>	Guiding Rod, conical	L 190 mm / ID 0.9 mm / OD 1.4 mm	1
<b>GRF182500</b>	TESSYS® Guiding Rod Forceps	WL 180 mm / bore for 2.5 mm and 4.0 mm	1
<b>CMH150170</b>	CESSYS® Metal Hammer	150 g / L 170 mm / blue cap	1
<b>PSO141023</b>	Shaft obturator for intENTS® cervical	WL 144 mm / ID 0.9 mm / OD 2.3 mm	1
<b>PSD102430</b>	Nucleoscope Shaft for intENTS® cervical	OD 3.0 mm / ID 2.4 mm	1

### Container

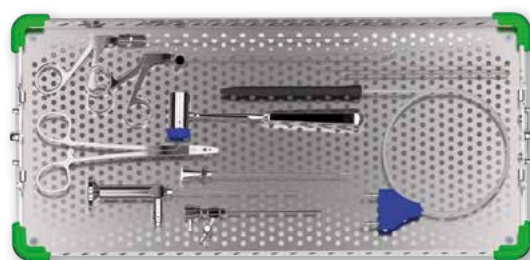
<b>TNC582810G</b>	intENTS® DIN-Norm-Container, with green Lid	L 580 mm / W 280 mm / H 100 mm	1
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### Endoscope are not part of the set. Please order separately, see tab Endoscopes

<b>PS1909132C</b>	HD Nucleoscope, Combo	WL 132 mm / OD 1.9 mm / 9°	1
<b>PS1909132O</b>	HD Nucleoscope, Ocular	WL 132 mm / OD 1.9 mm / 9°	1

### Optional Instruments are not part of the set. Please order separately, see tab Instruments

<b>JBPH352505</b>	Legato® Hand Piece, bipolar Plug for joimax® Endovapor®	L 3.5 m Cable	1
<b>JBPH352506</b>	Legato® Hand Piece, bipolar Plug for joimax® Endovapor®2	L 3.5 m Cable	1



intENTS® Cervical Instrument Set

# IMPLANTS



**EndoLIF®**  
Endoscopic Lumbar Interbody Fusion



A

**Percusys®**



B

**Synergy Disc™**



C

D

E

F

G

H

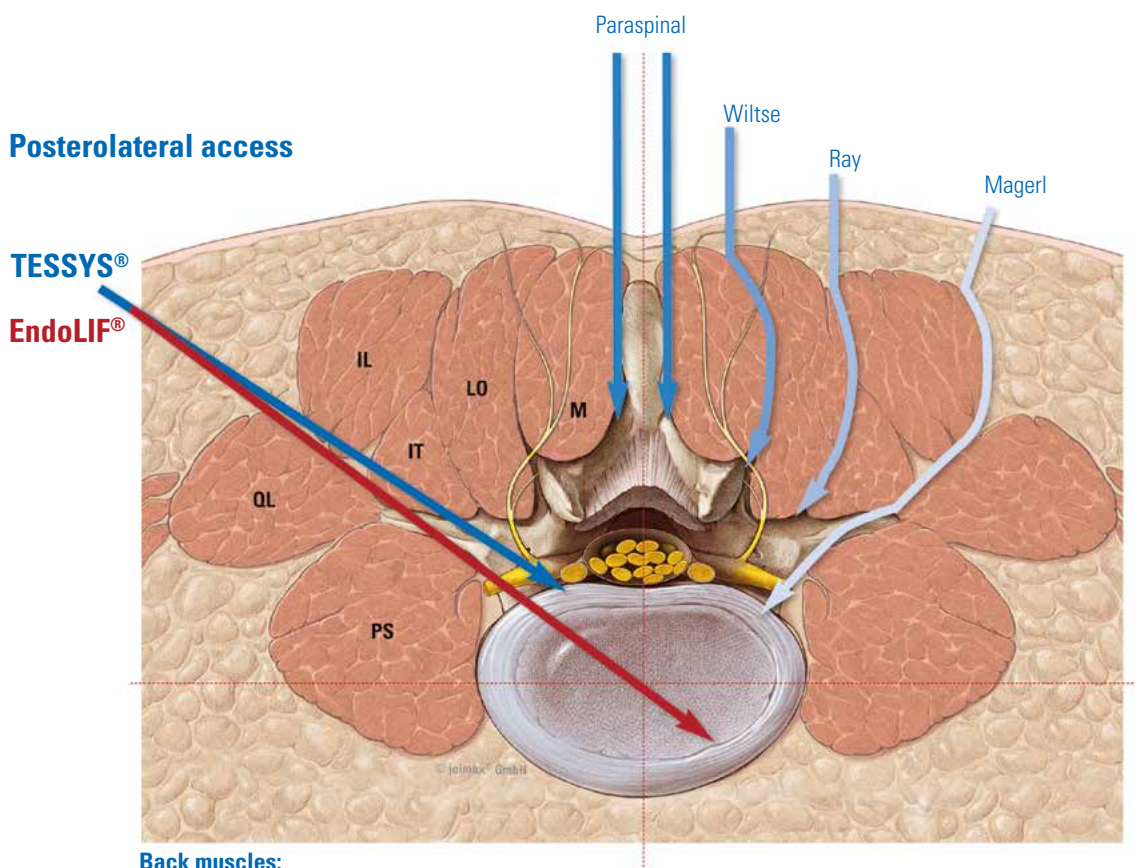
I



## EndoLIF® – Endoscopic Lumbar Interbody Fusion

The TESSYS® procedure utilizes the transforaminal approach to the spinal canal for the removal of herniated disc material and treating spinal stenosis. Objective is the sustainable decompression. Within the endoscopic spinal surgery the next logical step is the spinal stabilisation.

Consistently with the EndoLIF® Concept joimax® follows the way from endoscopic through endoscopic guided spinal surgery to the endoscopic fusion. The EndoLIF® approach use the established TESSYS® access technology, the EndoLIF® surgery can also be done without a TESSYS® procedure before.



### Back muscles:

PS = psoas major

QL = quadratus lumborum

IL = iliocostalis lumborum

IT = iliocostalis thoracis

LO = longissimus thoracis

M = multifidus



## EndoLIF® System in combination with instrument set TESBASIC or TESLIF01

A

REF	Description	Dimensions	Pcs.
<b>ENDOLIF01</b>	<b>EndoLIF® Instrument Set</b>	access with TESSYS®	<b>Set</b>
<b>EIT502550</b>	EndoLIF® Instrument Tray	L 535 mm / W 265 mm / H 75 mm	1
<b>EIT502550C</b>	EndoLIF® Instrument Tray Lid	L 535 mm / W 265 mm	1
<b>DTC218952</b>	Dilation Tube, conical	L 210 mm / ID 5.2 mm / OD 8.9 mm	1
<b>DTC201290</b>	Dilation Tube, conical	L 200 mm / ID 9 mm / OD 11.9 mm	1
<b>DTC191512</b>	Dilation Tube, conical	L 190 mm / ID 12 mm / OD 14.9 mm	1
<b>DTC181815</b>	Dilation Tube, conical	L 180 mm / ID 15 mm / OD 17.8 mm	1
<b>WTE151615</b>	Working Tube EndoLIF®	L 161 mm / ID 15 mm / OD 16 mm	1
<b>WTA151615</b>	Working Tube Adapter	L 40 mm / ID 6.5 mm / OD 16 mm	1
<b>WTE171918</b>	Working Tube EndoLIF®	L 161 mm / ID 18 mm / OD 19 mm	1
<b>WTA151918</b>	Working Tube Adapter	L 40 mm / ID 6.5 mm / OD 19 mm	1
<b>EFB603035</b>	EndoLIF® Filling Block	L 60 mm / W 60 mm / H 22 mm	1
<b>CMH162007</b>	Cage Mounting Hook	WL 16 mm / OD 0.7 mm	1
<b>JCP236021</b>	joimax® Cage Pusher	L 255 mm / OD 6 mm	1
<b>JCH330008</b>	Cage Inserter	L 381 mm / OD 8 mm	1
<b>JCH330400</b>	Slide Hammer for Cage Inserter	L 202 mm / 400 g	1
<b>ELO643508R</b>	Raspatory 08	L 30/35 mm / H 8 mm	1
<b>ELO643509R</b>	Raspatory 09	L 30/35 mm / H 9 mm	1
<b>ELO643510R</b>	Raspatory 10	L 30/35 mm / H 10 mm	1
<b>ELO643511R</b>	Raspatory 11	L 30/35 mm / H 11 mm	1
<b>ELO643512R</b>	Raspatory 12	L 30/35 mm / H 12 mm	1
<b>ELO643513R</b>	Raspatory 13	L 30/35 mm / H 13 mm	1
<b>ELO643514R</b>	Raspatory 14	L 30/35 mm / H 14 mm	1



EndoLIF® Instrument Set

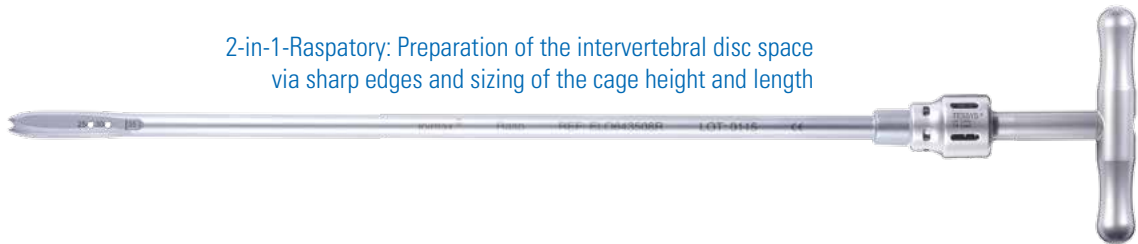


## EndoLIF® System in combination with instrument set TESBASIC or TESLIF01

REF	Description	Dimensions	Pcs.
<b>RHC107090</b>	TESSYS® Reamer Handle, cannulated, Quick-Lock-System, pull-release		1
<b>TGWS50020</b>	joimax® Guide Wire, super elastic, unsterile	L 500 mm / OD 2 mm	1
<b>TGWS60016</b>	joimax® Guide Wire, super elastic, unsterile	L 600 mm / OD 1.6 mm	1
<b>GRC242050</b>	TESSYS® Guiding Rod, conical, red	L 240 mm / ID 2 mm / OD 5.2 mm	1



2-in-1-Raspatory: Preparation of the intervertebral disc space  
via sharp edges and sizing of the cage height and length



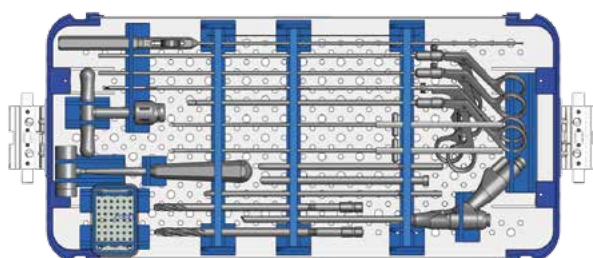




## EndoLIF® System in combination with instrument set TESBASIC or TESLIF01

A

REF	Description	Dimensions	Pcs.
<b>TESLIF01</b>	<b>EndoLIF® Combination Instrument Set</b>	access without TESSYS®	<b>Set</b>
<b>TET502550</b>	TESSYS® EndoLIF® Tray	L 535 mm / W 265 mm / H 95 mm	1
<b>TET502550C</b>	TESSYS® EndoLIF® Tray Lid	L 535 mm / W 265 mm	1
<b>GRC242050</b>	TESSYS® Guiding Rod, conical, red	L 240 mm / ID 2 mm / OD 5.2 mm	1
<b>GTC185363</b>	TESSYS® Guiding Tube, conical, red	L 185 mm / ID 5.3 mm / OD 6.3 mm	1
<b>GRD226320</b>	Guiding Rod, conical with excenter bores	L 225 mm / ID1 1 mm / ID2 2.1 mm / OD 6.3 mm	1
<b>WTS177503</b>	Working Tube with Handle, oblique 45°	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
<b>DCC247521</b>	joimax® Bone Drill, cannulated, unsterile	L 210 mm / ID 2.4 mm / OD 7.5 mm	1
<b>DCC248521</b>	joimax® Bone Drill, cannulated, unsterile	L 210 mm / ID 2.4 mm / OD 8.5 mm	1
<b>TEFH45025</b>	TESSYS® Endo-Flexprobe Handle	L 460 mm / OD 3 mm / ID 2.2 mm	1
<b>TEFB2065B</b>	Clip for TESSYS® Endo-Flexprobe Handle		1
<b>TEFP32020</b>	Endo-Flexprobe, standard	L 320 mm / OD 2 mm	1
<b>THG323555</b>	Grasper Forceps, Spoon, LOPS	WL 320 mm / OD 3.5 mm / JL 5.5 mm	1
<b>BFS235081</b>	Biopsy Forceps, Spoon, LOPS	WL 230 mm / OD 4.5 mm / JL 5.5 mm	1
<b>THF322041</b>	Biopsy Forceps, Spoon, angled, LOPS	WL 320 mm / OD 2.0 mm / JL 4.0 mm / 45°	1
<b>TFG322522U</b>	semi-flexible Grasper Forceps, curved, up-biting	WL 320 mm / OD 2.5 mm / Helix 2.5 mm	1
<b>RHC108590</b>	TESSYS® Reamer Handle XT, cannulated Quick-Lock-System, pull-release		1
<b>JDA273515</b>	Dissector	L 275 mm / OD 3.5 mm	1
<b>THC204555</b>	Curette	L 200 mm / OD 3.5 mm / JL 5.5 mm	1
<b>TMH200170B</b>	Metal Hammer	200 g / L 170 mm / blue Cap	1
<b>TSR25010</b>	TESSYS® Steel Ruler	L 200 mm	1



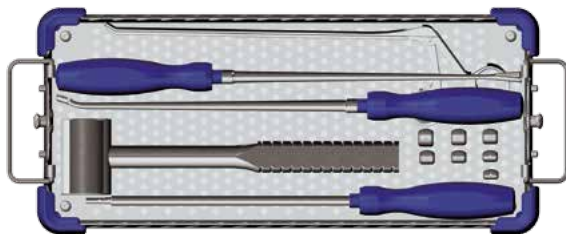
EndoLIF® Combination Instrument Set



## EndoLIF® Trial Implant Set

A

REF	Description	Dimensions	Pcs.
<b>ENDOLIF2</b>	<b>EndoLIF® Trial Implant Instrument Set</b>		<b>Set</b>
<b>JMPS1060S</b>	Metal Hammer	1000 g / L 228 mm	1
<b>GRF182500</b>	TESSYS® Guiding Rod Forceps	WL 180 mm / bore for 2.5 and 4.0 mm guiding rod	1
<b>ELO640008T</b>	Trial Implant 08	L 30/35 mm / H 8	1
<b>ELO640009T</b>	Trial Implant 09	L 30/35 mm / H 9	1
<b>ELO640010T</b>	Trial Implant 10	L 30/35 mm / H 10	1
<b>ELO640011T</b>	Trial Implant 11	L 30/35 mm / H 11	1
<b>ELO640012T</b>	Trial Implant 12	L 30/35 mm / H 12	1
<b>ELO640013T</b>	Trial Implant 13	L 30/35 mm / H 13	1
<b>ELO640014T</b>	Trial Implant 14	L 30/35 mm / H 14	1
<b>TIE0340</b>	Trial Inserter	L 340 mm / OD 7.5 mm	1
<b>ETT381645</b>	EndoLIF® Trial Tray	L 380 mm / W 162 mm / H 45 mm	1
<b>UNI3816C</b>	Universal Lid for Sterilization Tray	L 380 mm / W 162 mm	1



EndoLIF® Trial Implant Instrument Set



## EndoLIF® O-Cage Implants single sterile packed

A

REF	Description	Dimensions	Pcs.
<b>ELO643008</b>	EndoLIF® O-Cage 08 Short	L 30 mm / W 12 mm / H 8 mm	1
<b>ELO643009</b>	EndoLIF® O-Cage 09 Short	L 30 mm / W 12 mm / H 9 mm	1
<b>ELO643010</b>	EndoLIF® O-Cage 10 Short	L 30 mm / W 12 mm / H 10 mm	1
<b>ELO643011</b>	EndoLIF® O-Cage 11 Short	L 30 mm / W 12 mm / H 11 mm	1
<b>ELO643012</b>	EndoLIF® O-Cage 12 Short	L 30 mm / W 12 mm / H 12 mm	1
<b>ELO643013</b>	EndoLIF® O-Cage 13 Short	L 30 mm / W 12 mm / H 13 mm	1
<b>ELO643014</b>	EndoLIF® O-Cage 14 Short	L 30 mm / W 12 mm / H 14 mm	1



<b>ELO643508</b>	EndoLIF® O-Cage 08	L 35 mm / W 12 mm / H 8 mm	1
<b>ELO643509</b>	EndoLIF® O-Cage 09	L 35 mm / W 12 mm / H 9 mm	1
<b>ELO643510</b>	EndoLIF® O-Cage 10	L 35 mm / W 12 mm / H 10 mm	1
<b>ELO643511</b>	EndoLIF® O-Cage 11	L 35 mm / W 12 mm / H 11 mm	1
<b>ELO643512</b>	EndoLIF® O-Cage 12	L 35 mm / W 12 mm / H 12 mm	1
<b>ELO643513</b>	EndoLIF® O-Cage 13	L 35 mm / W 12 mm / H 13 mm	1
<b>ELO643514</b>	EndoLIF® O-Cage 14	L 35 mm / W 12 mm / H 14 mm	1





## EndoLIF® On-Cage Implants single sterile packed

A

REF	Description	Dimensions	Pcs.
<b>ELON643008</b>	EndoLIF® On-Cage 08 Short	L 30 mm / W 12 mm / H 8 mm	1
<b>ELON643009</b>	EndoLIF® On-Cage 09 Short	L 30 mm / W 12 mm / H 9 mm	1
<b>ELON643010</b>	EndoLIF® On-Cage 10 Short	L 30 mm / W 12 mm / H 10 mm	1
<b>ELON643011</b>	EndoLIF® On-Cage 11 Short	L 30 mm / W 12 mm / H 11 mm	1
<b>ELON643012</b>	EndoLIF® On-Cage 12 Short	L 30 mm / W 12 mm / H 12 mm	1
<b>ELON643013</b>	EndoLIF® On-Cage 13 Short	L 30 mm / W 12 mm / H 13 mm	1
<b>ELON643014</b>	EndoLIF® On-Cage 14 Short	L 30 mm / W 12 mm / H 14 mm	1



<b>ELON643508</b>	EndoLIF® On-Cage 08	L 35 mm / W 12 mm / H 8 mm	1
<b>ELON643509</b>	EndoLIF® On-Cage 09	L 35 mm / W 12 mm / H 9 mm	1
<b>ELON643510</b>	EndoLIF® On-Cage 10	L 35 mm / W 12 mm / H 10 mm	1
<b>ELON643511</b>	EndoLIF® On-Cage 11	L 35 mm / W 12 mm / H 11 mm	1
<b>ELON643512</b>	EndoLIF® On-Cage 12	L 35 mm / W 12 mm / H 12 mm	1
<b>ELON643513</b>	EndoLIF® On-Cage 13	L 35 mm / W 12 mm / H 13 mm	1
<b>ELON643514</b>	EndoLIF® On-Cage 14	L 35 mm / W 12 mm / H 14 mm	1



### Product Features O- and On-Cages

- > Titanium alloy Ti6AL4V
- > 7 heights available
- > 2 lengths available
- > Surface with open diamond cell structure
- > Excellent visibility on X-ray and CT-Imaging
- > Cannulated for guided implantation over a wire
- > Fillable with autogenous bone
- > Stepless lordosis adjustment possible





## Percusys® – Percutaneous Screw-Rod-System

REF	Description	Dimensions	Pcs.
<b>JMPS1000ST</b>	<b>Percusys® Instrument Set</b>		
<b>JMPS1010ST</b>	Pedicle Opener	L 250 mm / OD 8 mm	1
<b>JMPS1020ST</b>	Screw Inserter	L 250 mm / OD 8 mm	2
<b>JMPS1021ST</b>	Set Screw Inserter	L 280 mm / OD 8 mm	2
<b>JMPS1022ST</b>	T-Handle with Torque Limiter	L 150 mm / W 122 mm	1
<b>JMPS1024ST</b>	Palm-Handle with Ratchet	L 100 mm / OD 40 mm	1
<b>JMPS1025ST</b>	Shaft Break Off Instrument	L 255 mm / OD 8 mm	2
<b>JMPS1030ST</b>	Rod Inserter	L 250 mm / OD 8 mm	2
<b>JMPS1040ST</b>	Distraction- /Compression Instrument	L 195 mm / W 35 mm / H 3 mm	2
<b>JMPS1041ST</b>	Pin for Compressions- / Distraction Instrument	L 75 mm / OD 5 mm	4
<b>JMPS1023ST</b>	Anti Torque Handle	L 150 mm / W 20 mm / H 5 mm	1
<b>JMPS1060S</b>	Metal Hammer	1000 g / L 228 mm	1
<b>PIT502550</b>	Percusys® Instrument Tray	L 535 mm / W 265 mm / H 70 mm	1
<b>PIT502550C</b>	Percusys® Instrument Tray Lid	L 535 mm / W 265 mm	1



Percusys® Instrument Set

## Percusys® – Optional Instruments






<b>JMPS1031ST</b>	Rod Bender for 5.5 mm Rods	OD 5.5 mm	1
<b>JMPS198BFC</b>	Mounting clip for screw inserter	L 80 mm / OD 19 mm	1

## Percusys® – Disposables

<b>A06081S</b>	Guide Wire with Markers (2-pieces)	L 380 mm / OD 1.5 mm	1
<b>JMSPAVER11</b>	Vertebroplasty Needle 11G Slant Tip	L 125 mm / OD 3 mm	1
<b>JMSWSNT</b>	Yamshidi/Starting Needle 11G Trocar Cut	L 110 mm / OD 3 mm	1
<b>JMPS0130BF</b>	Bone Filler Pedicle Screws	1 ml Volume / OD 3 mm	1
<b>JPGW50015</b>	Guide Wire with Markers, straight, non-sterile	L 500 mm / OD 1.5 mm	1




## Percusys® Implants – Screws single sterile packed

REF	Description	Dimensions	Pcs.
<b>Monoaxial</b> 			
<b>JMPS0535MS</b>	Percusys® Pedicle Screw monoaxial	OD 5 x 35 mm, incl. Set Screw	 1
<b>JMPS0540MS</b>	Percusys® Pedicle Screw monoaxial	OD 5 x 40 mm, incl. Set Screw	1
<b>JMPS0545MS</b>	Percusys® Pedicle Screw monoaxial	OD 5 x 45 mm, incl. Set Screw	1
<b>JMPS0550MS</b>	Percusys® Pedicle Screw monoaxial	OD 5 x 50 mm, incl. Set Screw	1
<b>JMPS0635MS</b>	Percusys® Pedicle Screw monoaxial	OD 6 x 35 mm, incl. Set Screw	 1
<b>JMPS0640MS</b>	Percusys® Pedicle Screw monoaxial	OD 6 x 40 mm, incl. Set Screw	1
<b>JMPS0645MS</b>	Percusys® Pedicle Screw monoaxial	OD 6 x 45 mm, incl. Set Screw	1
<b>JMPS0650MS</b>	Percusys® Pedicle Screw monoaxial	OD 6 x 50 mm, incl. Set Screw	1
<b>JMPS0655MS</b>	Percusys® Pedicle Screw monoaxial	OD 6 x 55 mm, incl. Set Screw	1
<b>JMPS0735MS</b>	Percusys® Pedicle Screw monoaxial	OD 7 x 35 mm, incl. Set Screw	 1
<b>JMPS0740MS</b>	Percusys® Pedicle Screw monoaxial	OD 7 x 40 mm, incl. Set Screw	1
<b>JMPS0745MS</b>	Percusys® Pedicle Screw monoaxial	OD 7 x 45 mm, incl. Set Screw	1
<b>JMPS0750MS</b>	Percusys® Pedicle Screw monoaxial	OD 7 x 50 mm, incl. Set Screw	1
<b>JMPS0755MS</b>	Percusys® Pedicle Screw monoaxial	OD 7 x 55 mm, incl. Set Screw	1
<b>JMPS0835MS</b>	Percusys® Pedicle Screw monoaxial	OD 8 x 35 mm, incl. Set Screw	 1
<b>JMPS0840MS</b>	Percusys® Pedicle Screw monoaxial	OD 8 x 40 mm, incl. Set Screw	1
<b>JMPS0845MS</b>	Percusys® Pedicle Screw monoaxial	OD 8 x 45 mm, incl. Set Screw	1
<b>JMPS0850MS</b>	Percusys® Pedicle Screw monoaxial	OD 8 x 50 mm, incl. Set Screw	1
<b>JMPS0855MS</b>	Percusys® Pedicle Screw monoaxial	OD 8 x 55 mm, incl. Set Screw	1




## Percusys® Implants – Screws single sterile packed

REF	Description	Dimensions	Pcs.
			
<b>Polyaxial (50°)</b>			
<b>JMPS0535PS</b>	Percusys® Pedicle Screw polyaxial	OD 5 x 35 mm, incl. Set Screw	1
<b>JMPS0540PS</b>	Percusys® Pedicle Screw polyaxial	OD 5 x 40 mm, incl. Set Screw	1
<b>JMPS0545PS</b>	Percusys® Pedicle Screw polyaxial	OD 5 x 45 mm, incl. Set Screw	1
<b>JMPS0550PS</b>	Percusys® Pedicle Screw polyaxial	OD 5 x 50 mm, incl. Set Screw	1
<b>JMPS0635PS</b>	Percusys® Pedicle Screw polyaxial	OD 6 x 35 mm, incl. Set Screw	1
<b>JMPS0640PS</b>	Percusys® Pedicle Screw polyaxial	OD 6 x 40 mm, incl. Set Screw	1
<b>JMPS0645PS</b>	Percusys® Pedicle Screw polyaxial	OD 6 x 45 mm, incl. Set Screw	1
<b>JMPS0650PS</b>	Percusys® Pedicle Screw polyaxial	OD 6 x 50 mm, incl. Set Screw	1
<b>JMPS0655PS</b>	Percusys® Pedicle Screw polyaxial	OD 6 x 55 mm, incl. Set Screw	1
<b>JMPS0735PS</b>	Percusys® Pedicle Screw polyaxial	OD 7 x 35 mm, incl. Set Screw	1
<b>JMPS0740PS</b>	Percusys® Pedicle Screw polyaxial	OD 7 x 40 mm, incl. Set Screw	1
<b>JMPS0745PS</b>	Percusys® Pedicle Screw polyaxial	OD 7 x 45 mm, incl. Set Screw	1
<b>JMPS0750PS</b>	Percusys® Pedicle Screw polyaxial	OD 7 x 50 mm, incl. Set Screw	1
<b>JMPS0755PS</b>	Percusys® Pedicle Screw polyaxial	OD 7 x 55 mm, incl. Set Screw	1
<b>JMPS0835PS</b>	Percusys® Pedicle Screw polyaxial	OD 8 x 35 mm, incl. Set Screw	1
<b>JMPS0840PS</b>	Percusys® Pedicle Screw polyaxial	OD 8 x 40 mm, incl. Set Screw	1
<b>JMPS0845PS</b>	Percusys® Pedicle Screw polyaxial	OD 8 x 45 mm, incl. Set Screw	1
<b>JMPS0850PS</b>	Percusys® Pedicle Screw polyaxial	OD 8 x 50 mm, incl. Set Screw	1
<b>JMPS0855PS</b>	Percusys® Pedicle Screw polyaxial	OD 8 x 55 mm, incl. Set Screw	1



## Percusys® Implants – Rods single sterile packed

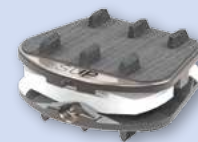
REF	Description	Dimensions	Pcs.
<b>Lordotic</b> 			
JMPS0030RL	Percusys® Rod Ti-Alloy	OD 5.5 x 30 mm, lordotic	1
JMPS0035RL	Percusys® Rod Ti-Alloy	OD 5.5 x 35 mm, lordotic	1
JMPS0040RL	Percusys® Rod Ti-Alloy	OD 5.5 x 40 mm, lordotic	1
JMPS0045RL	Percusys® Rod Ti-Alloy	OD 5.5 x 45 mm, lordotic	1
JMPS0050RL	Percusys® Rod Ti-Alloy	OD 5.5 x 50 mm, lordotic	1
JMPS0055RL	Percusys® Rod Ti-Alloy	OD 5.5 x 55 mm, lordotic	1
JMPS0060RL	Percusys® Rod Ti-Alloy	OD 5.5 x 60 mm, lordotic	1
JMPS0065RL	Percusys® Rod Ti-Alloy	OD 5.5 x 65 mm, lordotic	1
JMPS0070RL	Percusys® Rod Ti-Alloy	OD 5.5 x 70 mm, lordotic	1
JMPS0075RL	Percusys® Rod Ti-Alloy	OD 5.5 x 75 mm, lordotic	1
JMPS0080RL	Percusys® Rod Ti-Alloy	OD 5.5 x 80 mm, lordotic	1
JMPS0085RL	Percusys® Rod Ti-Alloy	OD 5.5 x 85 mm, lordotic	1
JMPS0090RL	Percusys® Rod Ti-Alloy	OD 5.5 x 90 mm, lordotic	1
JMPS0095RL	Percusys® Rod Ti-Alloy	OD 5.5 x 95 mm, lordotic	1
JMPS0100RL	Percusys® Rod Ti-Alloy	OD 5.5 x 100 mm, lordotic	1
JMPS0110RL	Percusys® Rod Ti-Alloy	OD 5.5 x 110 mm, lordotic	1
JMPS0120RL	Percusys® Rod Ti-Alloy	OD 5.5 x 120 mm, lordotic	1

### Straight



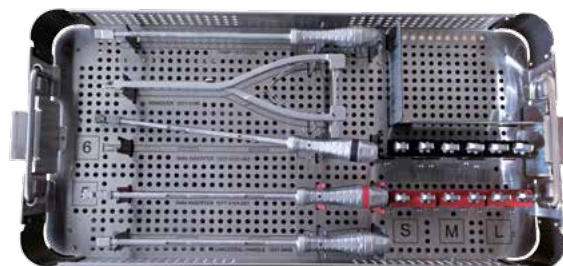
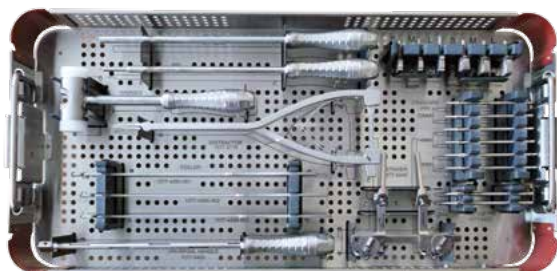
JMPS0130RS	Percusys® Rod Ti-Alloy	OD 5.5 x 130 mm, straight	1
JMPS0140RS	Percusys® Rod Ti-Alloy	OD 5.5 x 140 mm, straight	1
JMPS0150RS	Percusys® Rod Ti-Alloy	OD 5.5 x 150 mm, straight	1
JMPS0160RS	Percusys® Rod Ti-Alloy	OD 5.5 x 160 mm, straight	1
JMPS0180RS	Percusys® Rod Ti-Alloy	OD 5.5 x 180 mm, straight	1
JMPS0200RS	Percusys® Rod Ti-Alloy	OD 5.5 x 200 mm, straight	1
JMPS0220RS	Percusys® Rod Ti-Alloy	OD 5.5 x 220 mm, straight	1
JMPS0240RS	Percusys® Rod Ti-Alloy	OD 5.5 x 240 mm, straight	1
JMPS0260RS	Percusys® Rod Ti-Alloy	OD 5.5 x 260 mm, straight	1
JMPS0280RS	Percusys® Rod Ti-Alloy	OD 5.5 x 280 mm, straight	1
JMPS0300RS	Percusys® Rod Ti-Alloy	OD 5.5 x 300 mm, straight	1





## Synergy Disc™ Instrument Set

REF	Description	Dimensions	Pcs.
<b>JMSD1</b>	<b>Synergy Disc™ Surgical Instrumentation Set</b>		
<b>1077-4470-001</b>	Trial Small	H 5 mm / 0°	1
<b>1077-4470-003</b>	Trial Small	H 5 mm / 6°	1
<b>1077-4470-011</b>	Trial Small	H 6 mm / 0°	1
<b>1077-4470-013</b>	Trial Small	H 6 mm / 6°	1
<b>1077-4471-001</b>	Trial Medium	H 5 mm / 0°	1
<b>1077-4471-003</b>	Trial Medium	H 5 mm / 6°	1
<b>1077-4471-011</b>	Trial Medium	H 6 mm / 0°	1
<b>1077-4471-013</b>	Trial Medium	H 6 mm / 6°	1
<b>1077-4472-001</b>	Trial Large	H 5 mm / 0°	1
<b>1077-4472-003</b>	Trial Large	H 5 mm / 6°	1
<b>1077-4472-011</b>	Trial Large	H 6 mm / 0°	1
<b>1077-4472-013</b>	Trial Large	H 6 mm / 6°	1
<b>1077-5260-001</b>	Feeler	Small	1
<b>1077-5260-002</b>	Feeler	Medium	1
<b>1077-5260-003</b>	Feeler	Large	1
<b>1077-5230</b>	Pin Driver	L 270 mm / OD 7 mm	1
<b>1077-5210</b>	Awl	L 275 mm / OD 6 mm	1
<b>1077-5280</b>	Tamp	L 290 mm / OD 6 mm	1
<b>1077-5400</b>	Universal Handle	L 285 mm / OD 6 mm	2
<b>1077-5290</b>	Mallet	L 190 mm / 280 g	1



Synergy Disc™ Instrument Set





## Synergy Disc™ Instrument Set

REF	Description	Dimensions	Pcs.
<b>1077-4400</b>	Raspatory	Small	1
<b>1077-4410</b>	Raspatory	Medium	1
<b>1077-4420</b>	Raspatory	Large	1
<b>1077-4440</b>	Pilot Cutter	Small	1
<b>1077-4441</b>	Pilot Cutter	Medium	1
<b>1077-4442</b>	Pilot Cutter	Large	1
<b>1077-5170</b>	Distractor	L 260 mm	1
<b>1077-5190</b>	Implant Remover	L 245 mm	1
<b>1077-5101-001</b>	Insertor	5 mm	1
<b>1077-5101-002</b>	Insertor	6 mm	1
<b>JMRETRAC01</b>	joimax® cervical Retractor		1
<b>JMPC03512</b>	joimax® cervical Pin 12 mm	OD 3.5 mm x 12 mm	2
<b>JMPC03514</b>	joimax® cervical Pin 14 mm	OD 3.5 mm x 14 mm	2
<b>JMPC03516</b>	joimax® cervical Pin 16 mm	OD 3.5 mm x 16 mm	2
<b>JMPC04012R</b>	joimax® cervical Pin 12 mm, Rescue	OD 4 mm x 12 mm	2
<b>JMPC04014R</b>	joimax® cervical Pin 14 mm, Rescue	OD 4 mm x 14 mm	2
<b>1077-6014</b>	Instrument Tray, red, 1 of 2 with Cover	L 535 mm / W 250 mm / H 75 mm	1
<b>1077-6015</b>	Instrument Tray, black, 2 of 2 with Cover	L 535 mm / W 250 mm / H 75 mm	1

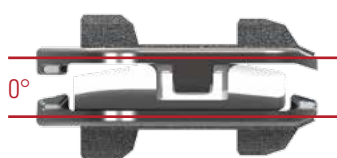


Implant inserter

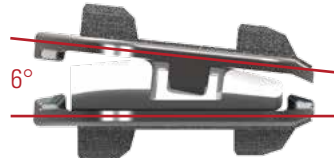


## Synergy Disc™ Implants single sterile packed

REF	Description	Dimensions	Pcs.
1077-3150	Synergy Disc™ artificial cervical disc	Small / 5 mm / 0°	1
1077-3156	Synergy Disc™ artificial cervical disc	Small / 5 mm / 6°	1
1077-3160	Synergy Disc™ artificial cervical disc	Small / 6 mm / 0°	1
1077-3166	Synergy Disc™ artificial cervical disc	Small / 6 mm / 6°	1
1077-3250	Synergy Disc™ artificial cervical disc	Medium / 5 mm / 0°	1
1077-3256	Synergy Disc™ artificial cervical disc	Medium / 5 mm / 6°	1
1077-3260	Synergy Disc™ artificial cervical disc	Medium / 6 mm / 0°	1
1077-3266	Synergy Disc™ artificial cervical disc	Medium / 6 mm / 6°	1
1077-3350	Synergy Disc™ artificial cervical disc	Large / 5 mm / 0°	1
1077-3356	Synergy Disc™ artificial cervical disc	Large / 5 mm / 6°	1
1077-3360	Synergy Disc™ artificial cervical disc	Large / 6 mm / 0°	1
1077-3366	Synergy Disc™ artificial cervical disc	Large / 6 mm / 6°	1



5 mm 0° implant



5 mm 6° implant

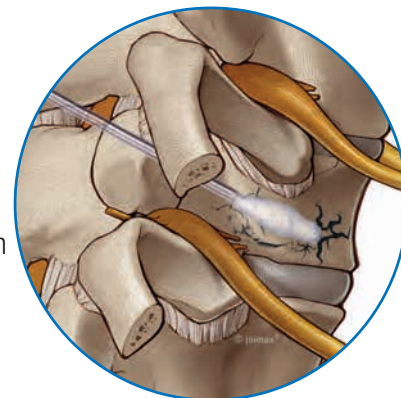


3-piece implant  
packaged as a single unit



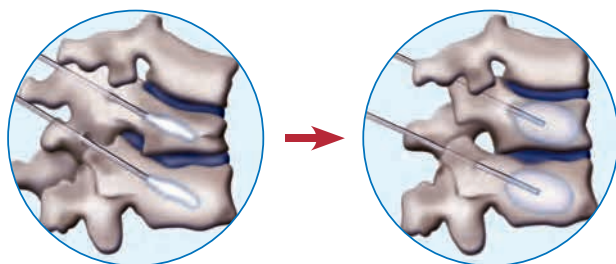
## Minimally invasive endoscopic solutions for vertebral compression fracture

Fast pain relief by straightening and stabilizing the vertebral body through a small working channel.



### SPASY™ Balloon Kyphoplasty

Balloon Kyphoplasty is a minimally invasive percutaneous method for stabilizing the spine. It offers a good alternative for patients who fail to respond to the traditional approaches of bedrest, analgesics and back braces. The SPASY™ Kyphoplasty System helps to restore some of the height loss because of fracture and reduces the angle of the deformity.



### SPASY™ Vertebroplasty and PMMA Cement – easy, quick, clean

The joimax® Vertebroplasty and Kyverment® Set for percutaneous vertebroplasty is a complete system for the approach and the cement application.

Transpedicular approach



For cement application in thoracic and lumbar spine

Posterolateral approach



For cement application in the lumbar spine



## SPASY™ Balloon Kyphoplasty Sets – Standard

A

REF	Description	per Set
<b>JMSPAKEY10</b>	<b>joimax® SPASY™ Kyphoplasty Set 10</b> Content: 2x Balloon Expander, 2x Balloon Catheter Size 10, 2x Yamshidi/Starting Needle (two-piece), 2x Guide Wire, 2x Working Cannula 8G (two-piece), 1x Drill, 3x 2 Cement Fillers	
JMSWMP	Balloon Expander	2
JMSWS10	Balloon Catheter Size 10	2
JMSWSNT	Yamshidi/Starting Needle 11G (Trocar Cut), 2-piece	2
JMSWM-1	Guide Wire	2
JMSWM-2	Working Cannula, 2-piece, Trocar cannulated	2
JMSWM-3	Drill	1
JMSWM-4	Cement Application Cannula, Volume 1.5 ml	2
<b>JMSPAKEY10F</b>	joimax® SPASY™ Kyphoplasty Set 10 <b>with flexible Balloon Catheter</b>	
<b>JMSPAKEY10Q</b>	joimax® SPASY™ QUICK Kyphoplasty Set 10 <b>without Guide Wire and Yamshidi/Starting Needle 11G</b>	
<b>JMSPAKEY10QF</b>	joimax® SPASY™ QUICK Kyphoplasty Set 10 <b>with flexible Balloon and without Guide Wire and Yamshidi/Starting Needle 11G</b>	
<b>JMSPAKEY15</b>	<b>joimax® SPASY™ Kyphoplasty Set 15</b> Content: 2x Balloon Expander, 2x Balloon Catheter Size 15, 2x Yamshidi/Starting Needle (two-piece), 2x Guide Wire, 2x Working Cannula 8G (two-piece), 1x Drill, 3x 2 Cement Fillers	
JMSWMP	Balloon Expander	2
JMSWS15	Balloon Catheter Size 15	2
JMSWSNT	Yamshidi/Starting Needle 11G (Trocar Cut), 2-piece	2
JMSWM-1	Guide Wire	2
JMSWM-2	Working Cannula, 2-piece, Trocar cannulated	2
JMSWM-3	Drill	1
JMSWM-4	Cement Application Cannula, Volume 1.5 ml	2
<b>JMSPAKEY15F</b>	joimax® SPASY™ Kyphoplasty Set 15 <b>with flexible Balloon Catheter</b>	
<b>JMSPAKEY15Q</b>	joimax® SPASY™ QUICK Kyphoplasty Set 15 <b>without Guide Wire and Yamshidi/Starting Needle 11G</b>	
<b>JMSPAKEY15QF</b>	joimax® SPASY™ QUICK Kyphoplasty Set 15 <b>with flexible Balloon and without Guide Wire and Yamshidi/Starting Needle 11G</b>	



## SPASY™ Balloon Kyphoplasty Sets – Standard

A

REF	Description	Pcs.
<b>JMSPAKY20</b>	<b>joimax® SPASY™ Kyphoplasty Set 20</b> Content: 2x Balloon Expander, 2x Balloon Catheter Size 20, 2x Yamshidi/Starting Needle (two-piece), 2x Guide Wire, 2x Working Cannula 8G (two-piece), 1x Drill, 3x 2 Cement Fillers	
JMSWMP	Balloon Expander	2
JMSWS20	Balloon Catheter Size 20	2
JMSWSNT	Yamshidi/Starting Needle 11G (Trocar Cut), 2-piece	2
JMSWM-1	Guide Wire	2
JMSWM-2	Working Cannula, 2-piece, Trocar cannulated	2
JMSWM-3	Drill	1
JMSWM-4	Cement Application Cannula, Volume 1.5 ml	2
<b>JMSPAKY20F</b>	joimax® SPASY™ Kyphoplasty Set 20 with flexible Balloon Catheter	
<b>JMSPAKY20Q</b>	joimax® SPASY™ QUICK Kyphoplasty Set 20 without Guide Wire and Yamshidi/Starting Needle 11G	
<b>JMSPAKY20QF</b>	joimax® SPASY™ QUICK Kyphoplasty Set 20 with flexible Balloon and without Guide Wire and Yamshidi/Starting Needle 11G	

## SPASY™ Balloon Kyphoplasty Sets – Mono

REF	Description	Pcs.
<b>JMSPAKYM10</b>	<b>joimax® SPASY™ Kyphoplasty Mono Set 10</b> Content: 1x Balloon Expander, 1x Balloon Catheter Size 10, 1x Yamshidi/Starting Needle (two-piece), 2x Guide Wire, 2x Working Cannula + 1x Trocar for Working Cannula, 1x Drill, 2x 2 Cement Fillers	
JMSWMP	Balloon Expander	1
JMSWS10	Balloon Catheter Size 10	1
JMSWSNT	Yamshidi/Starting Needle 11G (Trocar Cut), 2-piece	2
JMSWM-1	Guide Wire	2
JMSWM-2	Working Cannula, 2-piece, Trocar cannulated	2
JMSWM-3	Drill	1
JMSWM-4	Cement Application Cannula, Volume 1.5 ml	2
<b>JMSPAKYM10F</b>	joimax® SPASY™ Kyphoplasty Mono Set 10 with flexible Balloon Catheter	



## SPASY™ Balloon Kyphoplasty Sets – Mono

A

REF	Description	per Set
<b>JMSPAKYM15</b>	<b>joimax® SPASY™ Kyphoplasty Mono Set 15</b> Content: 1x Balloon Expander, 1x Balloon Catheter Size 15, 1x Yamshidi/Starting Needle (two-piece), 2x Guide Wire, 2x Working Cannula + 1x Trocar for Working Cannula, 1x Drill, 2x 2 Cement Fillers	
JMSWMP	Balloon Expander	1
JMSWS15	Balloon Catheter Size 15	1
JMSWSNT	Yamshidi/Starting Needle 11G (Trocar Cut), 2-piece	2
JMSWM-1	Guide Wire	2
JMSWM-2	Working Cannula, 2-piece, Trocar cannulated	2
JMSWM-3	Drill	1
JMSWM-4	Cement Application Cannula, Volume 1.5 ml	2
<b>JMSPAKYM15F</b>	<b>joimax® SPASY™ Kyphoplasty Mono Set 15 with flexible Balloon Catheter</b>	
<b>JMSPAKYM20</b>	<b>joimax® SPASY™ Kyphoplasty Mono Set 20</b> Content: 1x Balloon Expander, 1x Balloon Catheter Size 20, 1x Yamshidi/Starting Needle (two-piece), 2x Guide Wire, 2x Working Cannula + 1x Trocar for Working Cannula, 1x Drill, 2x 2 Cement Fillers	
JMSWMP	Balloon Expander	1
JMSWS20	Balloon Catheter Size 20	1
JMSWSNT	Yamshidi/Starting Needle 11G (Trocar Cut), 2-piece	2
JMSWM-1	Guide Wire	2
JMSWM-2	Working Cannula, 2-piece, Trocar cannulated	2
JMSWM-3	Drill	1
JMSWM-4	Cement Application Cannula, Volume 1.5 ml	2
<b>JMSPAKYM20F</b>	<b>joimax® SPASY™ Kyphoplasty Mono Set 20 with flexible Balloon Catheter</b>	



## SPASY™ Balloon Kyphoplasty – Single Components

A


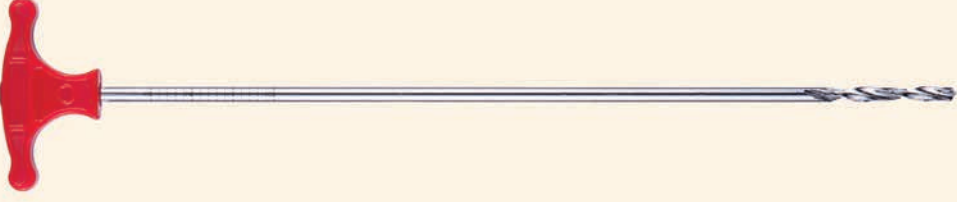



REF	Description		Pcs.
<b>JMSWS10</b>	Balloon Catheter Size 10	Maximum Pressure 300 PSI Maximum Volume 4 ml	1
<b>JMSWS15</b>	Balloon Catheter Size 15	Maximum Pressure 300 PSI Maximum Volume 4 ml	1
<b>JMSWS20</b>	Balloon Catheter Size 20	Maximum Pressure 300 PSI Maximum Volume 6 ml	1
<p>Shaft rigide</p>			
<b>JMSWS10F</b>	Balloon Catheter Size 10, flexible	Maximum Pressure 300 PSI Maximum Volume 4 ml	1
<b>JMSWS15F</b>	Balloon Catheter Size 15, flexible	Maximum Pressure 300 PSI Maximum Volume 4 ml	1
<b>JMSWS20F</b>	Balloon Catheter Size 20, flexible	Maximum Pressure 300 PSI Maximum Volume 6 ml	1
<p>Shaft flexible</p>			
<b>JMSWMP</b>	Balloon Expander for joimax® SPASY™ Kyphoplasty Set	350 PSI (24atm)	1
<b>JMSWSNT</b>	Yamshidi/Starting Needle 11G (Trocar Cut), 2-piece	for joimax® SPASY™ Kyphoplasty Set	1
<b>JMSWSNS</b>	Yamshidi/Starting Needle (Slant Type)	for joimax® SPASY™ Kyphoplasty Set	1
<p>Slant      Trocar</p>			
<b>JMSWM-1</b>	Guide Wire	for joimax® SPASY™ Kyphoplasty Set	2





## SPASY™ Balloon Kyphoplasty – Single Components

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REF	Description	Dimension	Pcs.
<b>JMSWM-2</b>	Working Cannula, 2-piece, Trocar cannulated	for joimax® SPASY™ Kyphoplasty Set	2
			
<b>JMSWM-3</b>	Drill	for joimax® SPASY™ Kyphoplasty Set	1
			
<b>JMSWM-4</b>	Cement Application Cannula, Volume 1.5 ml	for joimax® SPASY™ Kyphoplasty Set	2
			
<b>JMSWM-2T</b>	8G Yamshidi/Starting and Working Cannula, Stylet Trocar Typ	for joimax® SPASY™ Kyphoplasty Quick Set	1
			
<b>JMSPASY-BI</b>	Biopsy Needle	for joimax® SPASY™ Kyphoplasty Set	1
			



## SPASY™ Vertebroplasty

REF	Description	Dimension	Pcs.
<b>JMSPAWE11</b>	joimax® SPASY™ Vertebroplasty Set Content: 1x Application System, 1x Syringe Cylinder with Tube, 2x Vertebroplasty Needle 11G (Slant cut) L 125 mm, OD 3.0 mm		
<b>JMSPAWE13</b>	joimax® SPASY™ Vertebroplasty Set Content: 1x Application System, 1x Syringe Cylinder with Tube, 2x Vertebroplasty Needle 13G (Slant cut) L 125 mm, OD 2.4 mm		

B

## SPASY™ Vertebroplasty – Single Instruments

<b>JMSWVEAS</b>	Application System for Bone Cement, two-piece consisting of Syringe and Applicator		1
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<b>JMSPAVER11</b>	Vertebroplasty Needle 11G Slant Cut for Bone Cement Application System	L 125 mm / OD 3.0 mm	1
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<b>JMSPAVER13</b>	Vertebroplasty Needle 13G for Bone Cement Application System	L 125 mm / OD 3.0 mm	1
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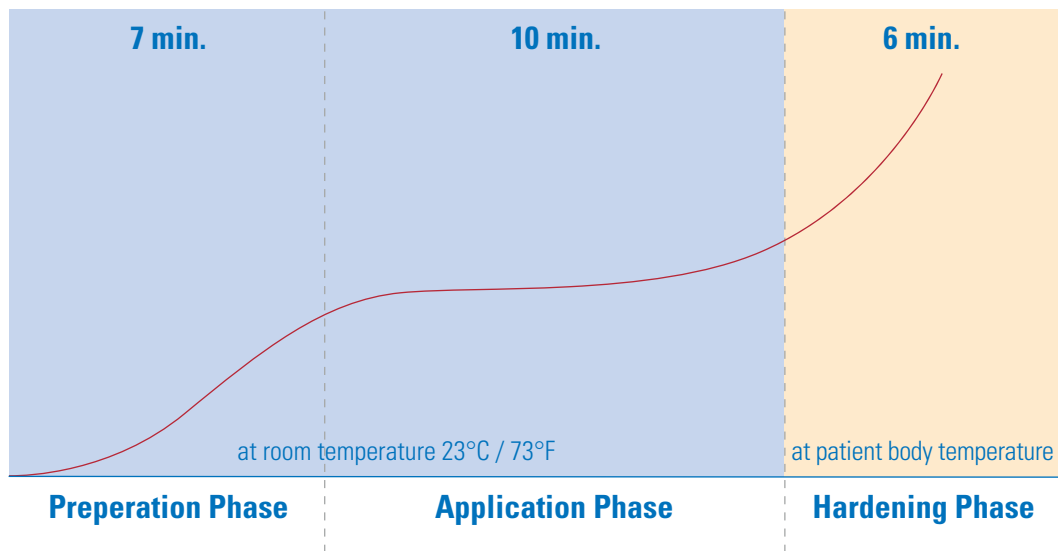


## SPASY™ Kyverment® PMMA Cement

REF	Description	Dimension
JMSPACE100	Kyverment® PMMA Bone Cement for Kypho- & Vertebroplasty, included Mixing System, no additional Mixing System required	



## Kyverment® preparation and application



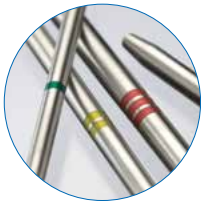
For more details see instruction for use



## joimax® Endoscopic Instruments

The joimax® instruments are designed for the use in minimal-invasive endoscopic spine surgery and physical parameters such as diameter and length are attuned to the combination with joimax® endoscopes. In addition, the current instruments are

(Guiding Rods, Guiding Tubes, disposable Reamer and Reamer Ejector) color-coded and based on the traffic light principle (red-yellow-green). The green marked instruments have the smallest and the red ones have the largest diameter.



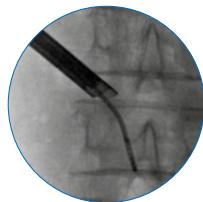
- **Red:** Biggest diameter, to be inserted over "yellow"
- **Gelb:** Medium diameter, to be inserted over "green"
- **Grün:** Smallest diameter, to be inserted at first

## Endoscopic Decompression – with Special Instruments „around the corner“

With only one approach you can operate disc herniations and stenoses at locations difficult to reach within the spinal canal. The secret behind: the flexible joimax® instruments. Minimally invasive, gentle and so to say "around the corner".



Vapoflex® Probe



Semi-flexible Forceps

Semi-flexible Forceps

Vapoflex® Probe

Endo-Flexprobe

Deflector Shaver Blade through the  
working channel of the endoscope



# INSTRUMENTS



## Guiding Rods & Guiding Tubes



A

## Cleaning Instruments



B

## Working Tubes



C

## Forceps & Punches



D

## Bone Drills



E

## RF Instruments



F

## Other Instruments



G









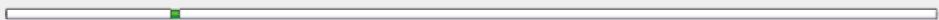







H

I



## Guiding Rods & Guiding Tubes

A

REF	Description	Dimensions	Pcs.
<b>GRT221025S</b>	TESSYS® Guiding Rod, curved • tempered special steel	L 220 mm / ID 1.0 mm / OD 2.5 mm	1
			
<b>GRT241025S</b>	TESSYS® Guiding Rod, curved, green •• tempered special steel	L 240 mm / ID 1.0 mm / OD 2.5 mm	1
			
<b>GRC221025</b>	TESSYS® Guiding Rod, conical, green ••• tempered special steel	L 220 mm / ID 1.0 mm / OD 2.5 mm	1
			
<b>GRC241025</b>	TESSYS® Guiding Rod, conical, green ••••• tempered special steel	L 240 mm / ID 1.0 mm / OD 2.5 mm	1
			
<b>GRB221025</b>	TESSYS® Guiding Rod, blunt, green • tempered special steel	L 220 mm / ID 1.0 mm / OD 2.5 mm	1
<b>GRB251025</b>	TESSYS® Guiding Rod, blunt, green •• tempered special steel	L 250 mm / ID 1.0 mm / OD 2.5 mm	1
			
<b>GRC221540</b>	TESSYS® Guiding Rod, conical, yellow • tempered special steel	L 220 mm / ID 1.5 mm / OD 4.0 mm	1
<b>GRC241540</b>	TESSYS® Guiding Rod, conical, yellow ••••• tempered special steel	L 240 mm / ID 1.5 mm / OD 4.0 mm	1
			
<b>GRB221540</b>	TESSYS® Guiding Rod, blunt, yellow • tempered special steel	L 220 mm / ID 1.5 mm / OD 4.0 mm	1
<b>GRB251540</b>	TESSYS® Guiding Rod, blunt, yellow •• tempered special steel	L 250 mm / ID 1.5 mm / OD 4.0 mm	1
			
<b>GRC222050</b>	TESSYS® Guiding Rod, conical, red • tempered special steel	L 220 mm / ID 2.0 mm / OD 5.0 mm	1
<b>GRC242050</b>	TESSYS® Guiding Rod, conical, red ••••• tempered special steel	L 240 mm / ID 2.0 mm / OD 5.2 mm	1
			

Color coding of the joimax® endoscopic spinal systems:

• TESBASIC • TESBASICXT • TESXTD • TESMORST • TESSMORXT • TESFTR • FASXTD1 • iLESSYSST • iLESSYSSH • CESSYSANT • MUSTD • intENTS01

Definition: L = Length / W = Width / H = height / WL = Working Length / D = Diameter / ID = Inner Diameter / OD = Outer Diameter / WChD = Working Channel / IC = Irrigation Channel / JL = Jaw Length



## Guiding Rods & Guiding Tubes

A

REF	Description	Dimensions	Pcs.
<b>GRB252050</b>	TESSYS® Guiding Rod, blunt, red ●●	L 250 mm / ID 2.0 mm / OD 5.0 mm	1
<b>GRB222050</b>	TESSYS® Guiding Rod, blunt, red ●	L 220 mm / ID 2.0 mm / OD 5.0 mm	1
<b>GRC305010</b>	TESSYS® Guiding Rod, conical, cannulated, yellow ●●	L 300 mm / ID 1.0 mm / OD 5.0 mm, acc. Dr. Wagner	1
<b>GRC305000</b>	TESSYS® Guiding Rod, conical, yellow ●●	L 300 mm / OD 5.0 mm, acc. Dr. Wagner	1
<b>GRT305010</b>	TESSYS® Guiding Rod, curved, conical, cannulated, yellow ●●	L 300 mm / ID 1.0 mm / OD 5.0 mm, acc. Dr. Wagner	1
<b>GRC306325</b>	TESSYS® Guiding Rod, conical, red ●●	L 300 mm / OD 6.3 mm, acc. Dr. Wagner	1
<b>GRC306342</b>	TESSYS® Guiding Rod, conical, red ●●	L 300 mm / OD 6.3 mm, acc. Dr. Wagner	1
<b>GRC201238</b>	Guiding Rod, conical ●	L 200 mm / ID 1.2 mm / OD 3.8 mm	1

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## Guiding Rods & Guiding Tubes

A

REF	Description	Dimensions	Pcs.
<b>GRD196315</b>	TESSYS® Guiding Rod, conical with center and excenter bore ●●	L 195 mm / ID 1.5 mm / ID2 1.5 mm / OD 6.3 mm	1
<b>GRD226315</b>	TESSYS® Guiding Rod, conical with center and excenter bore ●●	L 225 mm / ID 1.5 mm / ID2 1.5 mm / OD 6.3 mm	1
<b>GRD236315</b>	Guiding Rod, conical with center and excenter bore	L 225 mm / OD 6.3 mm / ID1 1.5 mm / ID2 1.5 mm	1
 			
<b>GRD226320A</b>	Guiding Rod, conical with center bore	L 225 mm / ID1 1 mm / ID2 2.1 mm / OD 6.3 mm	1
<b>GRD226320B</b>	Guiding Rod, conical with center bore	L 225 mm / ID 1.0 mm / OD 6.3 mm	1
<b>GRD226320</b>	Guiding Rod, conical with excenter bores	L 225 mm / OD 6.3 mm / ID1 1.0 mm / ID2 2.1 mm	1
<b>GRD155612</b>	Guiding Rod, conical, with 2 excenter bore	L 145 mm / ID 1.2 mm / OD 5.6 mm	1
<b>GRD205610</b>	Guiding Rod, conical with 2 excenter bore ●	L 200 mm / OD 5.8 mm / ID 1.0 mm	1
 			

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## Guiding Rods & Guiding Tubes

A

REF	Description	Dimensions	Pcs.
<b>GTC184055</b>	Guiding Tube, conical ●	L 185 mm / ID 4.0 mm / OD 5.8 mm	1
<b>GTC217452</b>	Guiding Tube, conical	L 210 mm / ID 5.2 mm / OD 7.4 mm	1
<b>GTC202838</b>	TESSYS® Guiding Tube, conical, green ●●●●●	L 205 mm / ID 2.6 mm / OD 3.9 mm	1
<b>GTC232838</b>	Guiding Tube, conical, green ●●	L 231.5 mm / ID 2.8 mm / OD 3.8 mm	1
<b>GTC202838P</b>	Guiding Tube, conical, green ●	L 205 mm / ID 2.8 mm / OD 3.8 mm	1
<b>GTC182840</b>	TESSYS® Guiding Tube, conical, green ●●	L 180 mm / ID 2.8 mm / OD 4.0 mm	1
<b>GTC164250</b>	TESSYS® Guiding Tube, conical, yellow ●●	L 165 mm / ID 4.2 mm / OD 5.0 mm	1
<b>GTC194353</b>	TESSYS® Guiding Tube, conical, yellow ●●●●	L 195 mm / ID 4.2 mm / OD 5.2 mm	1
<b>CGT201020</b>	Guiding Tube, conical, yellow ●	L 200 mm / ID 1.0 mm / OD 2.0 mm	1
<b>GTC224353</b>	Guiding Tube, conical, yellow ●●	L 223 mm / ID 4.3 mm / OD 5.3 mm	1
<b>GTC185363</b>	TESSYS® Guiding Tube, conical, red ●●●●	L 185 mm / ID 5.3 mm / OD 6.3 mm	1
<b>GTC215363</b>	Guiding Tube, conical, red ●●	L 216.5 mm / ID 5.3 mm / OD 6.3 mm	1
<b>CGT152039</b>	Guiding Tube, conical, red ●	L 150 mm / ID 2.1 mm / OD 3.9 mm	1
<b>GTC155260</b>	TESSYS® Guiding Tube, conical, red ●●	L 150 mm / ID 5.2 mm / OD 6.0 mm	1
<b>GTC151510</b>	Guiding Tube, conical, violet	L 145 mm / ID 10 mm / OD 15 mm	1
<b>GTC176573</b>	TESSYS® Guiding Tube, conical, violet ●●	L 175 mm / ID 6.5 mm / OD 7.3 mm	1

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



## Cleaning Instruments for Disposable Reamers and Tubes

REF	Description	Dimensions	Pcs.
<b>RPE280280</b>	Reamer Push-Ejector	L 280 mm / OD 2.8 mm	1
<b>RPE280380</b>	Reamer Push-Ejector, green ●●	L 280 mm / OD 3.8 mm	1
<b>RPE280500</b>	Reamer Push-Ejector, yellow ●●	L 280 mm / OD 5.0 mm	1
<b>RPE280600</b>	Reamer Push-Ejector, red ●●●	L 280 mm / OD 6.0 mm	1
<b>TCW40010</b>	TESSYS® Cleaning Wire ●●●	L 400 mm / OD 1.0 mm	1

B



## Working Tubes with Handle

REF	Description	Dimensions	Pcs.
<b>standard Lip</b>			
			
<b>WTS127000</b>	•	L 124 mm / ID 6.0 mm / OD 7.0 mm	1
<b>WTS127500</b>	•	L 124 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS176575</b>	••••	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS178575</b>	••	L 171 mm / ID 7.5 mm / OD 8.5 mm	1
<b>WTS185363</b>	fenestrated, without Handle •	L 185 mm / ID 5.3 mm / OD 6.3 mm	1
<b>WTS217500</b>	fenestrated •••	L 208 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS225363</b>	fenestrated, without Handle •	L 220 mm / ID 5.3 mm / OD 6.3 mm	1
<b>WTS177508</b>	without Handle	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
<b>wide Lip</b>			
			
<b>WTS127501</b>	•	L 124 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS177501</b>	••	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS217501</b>	fenestrated straight •	L 208 mm / ID 6.5 mm / OD 7.5 mm	1
<b>long Lip</b>			
			
<b>WTS127002</b>		L 124 mm / ID 6.0 mm / OD 7.0 mm	1
<b>WTS127502</b>	•	L 124 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS177502</b>	••	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS217502</b>	fenestrated long •	L 208 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS121602</b>		L 132 mm / ID 15 mm / OD 16 mm	1
<b>double Lip</b>			
			
<b>CWT104805</b>	fenestrated double ••	L 98 mm / ID 4.0 mm / OD 4.8 mm	1
<b>WTS127005</b>	•	L 124 mm / ID 6.0 mm / OD 7.0 mm	1
<b>WTS127505</b>	•	L 124 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS177505</b>	••	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
<b>WTS217505</b>	fenestrated double •	L 208 mm / ID 6.5 mm / OD 7.5 mm	1



## Working Tubes with Handle

REF	Description	Dimensions	Pcs.
<b>spoon Lip</b>			
WTS127006	•	L 124 mm / ID 6.0 mm / OD 7.0 mm	1
WTS127506	•	L 124 mm / ID 6.5 mm / OD 7.5 mm	1
WTS177506	••	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
WTS217506	fenestrated closed •	L 208 mm / ID 6.5 mm / OD 7.5 mm	1



<b>oblique</b>			
CWT104803	fenestrated 45° •	L 98 mm / ID 4.0 mm / OD 4.8 mm	1
WTS127503	45° •	L 124 mm / ID 6.5 mm / OD 7.5 mm	1
WTS177503	45° ••	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
WTS177504	straight 90° •••	L 170 mm / ID 6.5 mm / OD 7.5 mm	1
WTS217503	fenestrated 45° •	L 208 mm / ID 6.5 mm / OD 7.5 mm	1



<b>straight</b>			
CWT104804	conical ••	L 98 mm / ID 4.0 mm / OD 4.8 mm	1
WTS127004	straight 90° •	L 124 mm / ID 6.0 mm / OD 7.0 mm	1
WTS127504	straight 90° •	L 124 mm / ID 6.5 mm / OD 7.5 mm	1
WTS217504	non-fenestrated •	L 208 mm / ID 6.5 mm / OD 7.5 mm	1



<b>special Lips</b>			
WTS127007	•	L 124 mm / ID 6.0 mm / OD 7.0 mm	1
WTS177507		L 171 mm / ID 6.5 mm / OD 7.5 mm	1





## Working Tubes

REF	Description	Dimensions	Pcs.
<b>EndoLIF® Working Tubes</b>			
<b>WTE151615</b>	Working Tube EndoLIF®	L 161 mm / ID 15 mm / OD 16 mm	1
<b>WTE171918</b>	Working Tube EndoLIF®	L 161 mm / ID 18 mm / OD 19 mm	1
<b>WTA151918</b>	Working Tube Adapter	L 40 mm / ID 6.5 mm / OD 19 mm	1
<b>iLESSYS® Delta Working Tubes</b>			
<b>WTS901300.1</b>	iLESSYS® Delta Working Tube complete, standard Lip, radiolucent	L 124 mm / ID 10.2 mm / OD 13.7 mm	1
<b>WTS901300.2</b>	iLESSYS® Delta Working Tube complete, standard Lip, stainless steel	L 124 mm / ID 10.2 mm / OD 13.7 mm	1
<b>WTS901300.3</b>	iLESSYS® Delta Working Tube Shaft, standard Lip, stainless steel	L 91 mm / ID 10.2 mm / OD 13.7 mm	1
<b>WTS901300</b>	iLESSYS® Delta Working Tube Shaft, standard Lip, radiolucent	L 91 mm / ID 10.2 mm / OD 13.7 mm	1
<b>WTS901304.1</b>	iLESSYS® Delta Working Tube complete, straight 90°, radiolucent	L 124 mm / ID 10.2 mm / OD 13.7 mm	1
<b>WTS901304.2</b>	iLESSYS® Delta Working Tube complete, straight 90°, stainless steel	L 124 mm / ID 10.2 mm / OD 13.7 mm	1
<b>WTS901304.3</b>	iLESSYS® Delta Working Tube Shaft, straight 90°, stainless steel	L 91 mm / ID 10.2 mm / OD 13.7 mm	1
<b>WTS901304</b>	iLESSYS® Delta Working Tube Shaft, straight 90°, radiolucent	L 91 mm / ID 10.2 mm / OD 13.7 mm	1
<b>WTA901300.1</b>	iLESSYS® Delta Working Tube, Handle	L 7 mm / ID 14 mm / OD 22 mm	1
<b>WTA901300.2</b>	iLESSYS® Delta Working Tube, Adapter	L 31 mm / ID 10.2 mm / OD 22 mm	1

## Working Tubes, Chisel

<b>WTC185363</b>	Working Tube, Chisel ●●	L 185 mm / ID 5.5 mm / OD 6.4 mm	1
<b>WTC186573</b>	Working Tube, Chisel ●	L 186 mm / ID 6.5 mm / OD 7.3 mm	1
<b>WTC225564P</b>	Working Tube, Chisel with Plate ●	L 221 mm / ID 5.5 mm / OD 6.4 mm	1

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## Working Tubes Tube Set

The **TESSYS®** / **iLESSYS®** Tube Set is designed for use with the **TESSYS®** or **iLESSYS®** instrument sets to maintain openings to spinal elements that have been created with different dilators and that are large enough to enter surgical instruments. They provide a “tunnel” through which the surgeon can see, locate and remove e.g. intervertebral disc or bone material. Visualization can be illuminated and magnified by using a microscope or an endoscope.

REF	Description	Dimensions	Pcs.
<b>JMTUBESET</b>	<b>joimax® TESSYS® and iLESSYS® Tube Set •• Set</b>		<b>1</b>

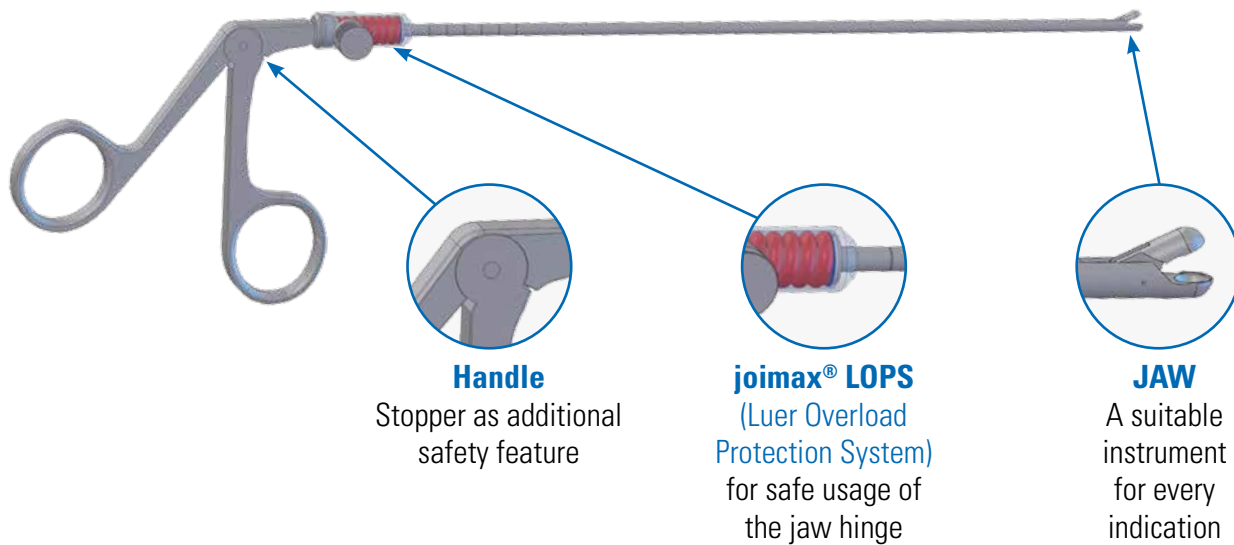
### Tube Set

<b>DTC218952</b>	Dilation Tube, conical	L 210 mm / ID 5.2 mm / OD 8.9 mm	1
<b>DTC201290</b>	Dilation Tube, conical	L 200 mm / ID 9.0 mm / OD 11.9 mm	1
<b>DTC191512</b>	Dilation Tube, conical	L 190 mm / ID 12 mm / OD 14.9 mm	1
<b>WTD151615</b>	Working Tube	L 161 mm / ID 15 mm / OD 16 mm	1
<b>WTA151615</b>	Working Tube Adaptor	L 40 mm / ID 6.5 mm / OD 16 mm	1








## Forceps & Punches












REF	Description	Dimensions	Pcs.
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### Forceps

<b>JSF3303520</b>	Steerable +/- 35° (Biopsy 20°), up-biting	WL 330 mm / OD 3.5 mm / JL 3.0 mm	 1
<b>JSF3303520D</b>	Steerable +/- 35° (Biopsy 20°), down-biting	WL 330 mm / OD 3.5 mm / JL 3.0 mm	 1
<b>JFA25030</b>	Angled, 30°	WL 250 mm / OD 6.0 mm / JL 11.5 mm	 1

### Grasper Forceps semi-flexible

<b>TFG292522</b>		WL 290 mm / OD 2.7 mm / Helix 2.5 mm	 1
<b>CFG212035U</b>	curved, up-biting	WL 215 mm / OD 2.0 mm / Helix 2.5 mm	 1
<b>TFG272522U</b>	curved, up-biting ●●●	WL 275 mm / OD 2.7 mm / Helix 2.5 mm	 1
<b>TFG322522U</b>	curved, up-biting ●●●	WL 320 mm / OD 2.5 mm / Helix 2.5 mm	 1
<b>TFG322522VL</b>	curved, up-biting	WL 320 mm / OD 2.7 mm / Helix 2.5 mm / 45° left	 1
<b>TFG322522VR</b>	curved, up-biting	WL 320 mm / OD 2.7 mm / Helix 2.5 mm / 45° right	 1
<b>TFG322522V</b>	curved, vertical ●●	WL 320 mm / OD 2.5 mm / Helix 2.5 mm	 1
<b>TFG322522H</b>	curved, horizontal ●●	WL 320 mm / OD 2.5 mm / Helix 2.5 mm	 1
<b>TFF323025</b>	straight, vertical, bi-parting ●●	WL 320 mm / OD 3.0 mm / Helix 2.5 mm	 1






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## Forceps & Punches

REF	Description	Dimensions	Pcs.
<b>Grasper Forceps</b> with LOPS function*			
TCF322755	Crocodile	WL 320 mm / OD 2.7 mm / JL 5.85 mm	1 
TCF352755	Crocodile	WL 350 mm / OD 2.7 mm / JL 5.85 mm	1
TFC322755	Crocodile, curved, semi-flexible	WL 320 mm / OD 2.7 mm / JL 5.85 mm	1
SJF132730		WL 130 mm / OD 2.7 mm / JL 6.0 mm	1 
CGF232020D	down-biting ●	WL 215 mm / OD 2.0 mm / JL 2.0 mm	1
CGF222020U	up-biting ●	WL 215 mm / OD 2.0 mm / JL 2.0 mm	1
CGF232020U	up-biting ●	WL 230 mm / OD 2.0 mm / JL 2.0 mm	1
THG322555	Spoon	WL 320 mm / OD 2.5 mm / JL 5.85 mm	1
THG323555	Spoon ●●●	WL 320 mm / OD 3.5 mm / JL 5.5 mm	1
<b>Biopsy Forceps „Spoon“</b> with LOPS function*			
BFS183081		WL 175 mm / OD 3.4 mm / JL 4.25 mm	1 
BFS185081	●	WL 175 mm / OD 4.5 mm / JL 5.5 mm	1
BFS233081	●●	WL 230 mm / OD 3.4 mm / JL 4.25 mm	1
BFS235081	●●	WL 230 mm / OD 4.5 mm / JL 5.5 mm	1
CGF222035	up-biting	WL 220 mm / OD 2.0 mm / JL 3.5 mm	1
CBF232020U	up-biting ●	WL 230 mm / OD 2.0 mm / JL 2.0 mm	1
THF322541L	long Spoon	WL 320 mm / OD 2.5 mm / JL 4.0 mm	1
THF323541L	long Spoon	WL 320 mm / OD 3.5 mm / JL 4.0 mm	1
THF272541	●●	WL 275 mm / OD 2.5 mm / JL 4.0 mm	1 
THF293541	●	WL 290 mm / OD 3.4 mm / JL 6.5 mm	1
THF292541	●	WL 290 mm / OD 2.5 mm / JL 3.35 mm	1
THG292555	●	WL 290 mm / OD 2.5 mm / JL 5.85 mm	1
THG293555	●	WL 295 mm / OD 3.5 mm / JL 5.5 mm	1
THF322541	●●●	WL 320 mm / OD 2.5 mm / JL 4.0 mm	1
THF323541	●●	WL 320 mm / OD 3.4 mm / JL 4.25 mm	1
THF322541	●●●	WL 320 mm / OD 2.5 mm / JL 3.35 mm	1
CBF232020D	down-biting ●	WL 215 mm / OD 2.0 mm / JL 2.0 mm	1 
THF292541L	down-biting	WL 290 mm / OD 2.5 mm / JL 4.0 mm	1
THF293541D	down-biting	WL 295 mm / OD 3.5 mm / JL 4.0 mm	1
THF323541D	down-biting	WL 320 mm / OD 3.5 mm / JL 4.0 mm	1
THF322541D	down-biting	WL 320 mm / OD 2.5 mm / JL 4.0 mm	1

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## Forceps & Punches

REF	Description	Dimensions	Pcs.
<b>Biopsy Forceps "Spoon", angled 45° with LOPS function*</b>			
THF192041	•	WL 190 mm / OD 2.0 mm / JL 4.0 mm	1
THF232041	••	WL 230 mm / OD 2.0 mm / JL 4.0 mm	1
THF272041	•••	WL 275 mm / OD 2.0 mm / JL 4.0 mm	1
THF292041	•	WL 290 mm / OD 2.0 mm / JL 4.0 mm	1
THF322041	•••	WL 320 mm / OD 2.5 mm / JL 4.0 mm	1
THF352041		WL 350 mm / OD 2.0 mm / JL 4.0 mm	1
<b>Biopsy Forceps "Blakesley" with LOPS function*</b>			
BFS203061	•	WL 197 mm / OD 2.7 mm / JL 6.5 mm	1
BFS233061	•	WL 230 mm / OD 3.5 mm / JL 6.5 mm	1
BFS273061	••	WL 275 mm / OD 3.5 mm / JL 6.0 mm	1
BFS322761	••	WL 320 mm / OD 2.7 mm / JL 6.0 mm	1
BFS323061	••	WL 320 mm / OD 3.5 mm / JL 6.0 mm	1
BFS352761		WL 350 mm / OD 2.7 mm / JL 6.0 mm	1
<b>Scissors with LOPS function*</b>			
THS272550	•••	WL 275 mm / OD 2.5 mm / JL 5.0 mm	1
THS292550		WL 290 mm / OD 2.5 mm / JL 5.0 mm	1
THS322550	••	WL 320 mm / OD 2.5 mm / JL 5.0 mm	1
SJS132724		WL 130 mm / OD 2.7 mm	1
<b>Punch with LOPS function*</b>			
THP292545	•	WL 290 mm / OD 2.5 mm / JL 5.0 mm	1
THP293545	•	WL 290 mm / OD 3.4 mm / JL 6.0 mm	1
THP323545	•	WL 320 mm / OD 3.5 mm / JL 4.5 mm	1
THP322545	••	WL 320 mm / OD 2.5 mm / JL 5.0 mm	1
SJP132718	•	WL 130 mm / OD 2.7 mm / JL 4.0 mm	1
SJP132714	with scoop •	WL 130 mm / OD 2.7 mm / JL 5.0 mm	1
THP272545	Punch •••	WL 275 mm / OD 2.5 mm / JL 5.0 mm	1
SJP132761	Tissue Punch Blakesley •	WL 130 mm / OD 2.7 mm / JL 6 mm	1
CTP222040	Eagle Hook Punch •	WL 215 mm / OD 2.0 mm / JL 4.0 mm	1

\* On special request the listed forceps are available also as custom made products in the lengths of 275 mm, 290 mm or 350 mm



## Forceps & Punches

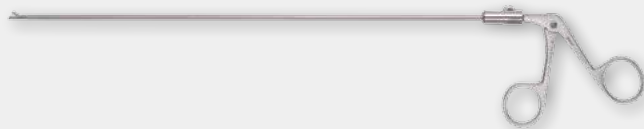
REF	Description	Dimensions	Pcs.
<b>Suction Punch</b>			
<b>TSP322750R</b>	rotatable ●●	L 320 mm / OD 2.7 mm / JL 5.0 mm	1
<b>TSP323550R</b>	rotatable ●●	L 320 mm / OD 3.5 mm / JL 5.0 mm	1
<b>TSP235050R</b>	rotatable ●●●	L 230 mm / OD 5.0 mm / JL 5.0 mm	1
<b>TSP235080</b>	Luer-Lock ●	L 230 mm / OD 5.0 mm / JL 8.0 mm	1
<b>TSP273550R</b>	rotatable ●●	L 275 mm / OD 3.5 mm / JL 5.0 mm	1
<b>TSP45024</b>	Union Nut for Suction Punch		1
<b>TSP45025</b>	Hose Nipple for Suction Punch		1
<b>TSPHF1450</b>	unserval purpose Handle for Suction Punch		1
<b>TSPIOT2350</b>	Tube Kit Suction Punch, consisting of outer and inner Tube ●●	L 230 mm / OD 5.0 mm	1
<b>TSPIOT2735</b>	Tube Kit Suction Punch, consisting of outer and inner Tube	L 275 mm / OD 3.5 mm	1
<b>TSPIOT3227</b>	Tube Kit Suction Punch, consisting of outer and inner Tube	L 320 mm / OD 2.7 mm	1
<b>TSPIOT3235</b>	Tube Kit Suction Punch, consisting of outer and inner Tube	L 320 mm / OD 3.5 mm	1
<b>TSPSP235050</b>	Tube Kit Suction Punch, consisting of outer and inner Tube	L 230 mm / OD 5.0 mm	1
<b>TSPSP322750</b>	Tube Kit Suction Punch, consisting of outer and inner Tube	L 320 mm / OD 2.7 mm	1
<b>TSPSP323550</b>	Tube Kit Suction Punch, consisting of outer and inner Tube	L 320 mm / OD 3.5 mm	1
<b>TSPIT235050</b>	Suction Punch inner Tube	L 230 mm / OD 5.0 mm	1
<b>TSPIT273550</b>	Suction Punch inner Tube	L 275 mm / OD 3.5 mm	1
<b>TSPIT322750</b>	Suction Punch inner Tube	L 320 mm / OD 2.7 mm	1
<b>TSPIT323550</b>	Suction Punch inner Tube	L 320 mm / OD 3.5 mm	1
<b>TSPOT235050</b>	Suction Punch outer Tube	L 230 mm / OD 5.0 mm	1
<b>TSPOT273550</b>	Suction Punch outer Tube	L 275 mm / OD 3.5 mm	1
<b>TSPOT322750</b>	Suction Punch outer Tube	L 320 mm / OD 2.7 mm	1
<b>TSPOT323550</b>	Suction Punch outer Tube	L 320 mm / OD 3.5 mm	1



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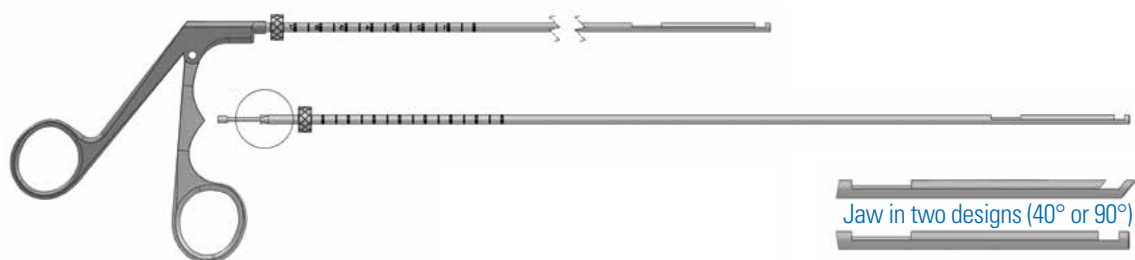
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## Forceps & Punches

REF	Description	Dimensions	Pcs.
<b>Endo-Kerrison-Punch</b>			
<b>EKP323540</b>	40° ●●	WL 320 mm / OD 3.5 mm	1
<b>EKP273590</b>	90° ●●	WL 275 mm / OD 3.5 mm	1
<b>EKP323590</b>	90° ●●	WL 320 mm / OD 3.5 mm	1

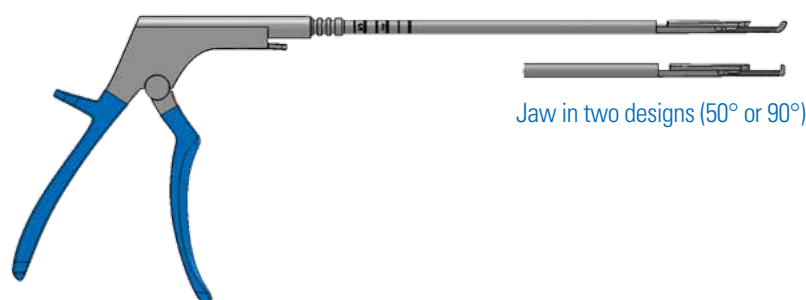
Tubular shaft can be ordered separately



Jaw in two designs (40° or 90°)

<b>SEK273540</b>	Endo-Kerrison-Shaft	WL 275 mm / OD 3.5 mm / 40°	1
<b>SEK273590</b>	Endo-Kerrison-Shaft	WL 275 mm / OD 3.5 mm / 90°	1
<b>SEK323540</b>	Endo-Kerrison-Shaft	WL 320 mm / OD 3.5 mm / 40°	1
<b>SEK323590</b>	Endo-Kerrison-Shaft	WL 320 mm / OD 3.5 mm / 90°	1
<b>EKH350000</b>	Endo-Kerrison-Ring Handle	OD 3.5 mm	1
<b>EKH550000</b>	Endo-Kerrison Pistol Handle	OD 5.5 mm	1

<b>EKS24551540</b>	Endo-Kerrison-Shaft	WL 240 mm / OD 5.5 mm / F 1.5 mm / 40°	1
<b>EKS24551590</b>	Endo-Kerrison-Shaft	WL 240 mm / OD 5.5 mm / F 1.5 mm / 90°	1
<b>EKS24553040</b>	Endo-Kerrison-Shaft	WL 240 mm / OD 5.5 mm / F 3.0 mm / 40°	1
<b>EKS24553090</b>	Endo-Kerrison-Shaft	WL 240 mm / OD 5.5 mm / F 3.0 mm / 90°	1



Jaw in two designs (50° or 90°)






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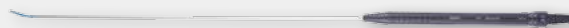
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## Bone Drills cannulated

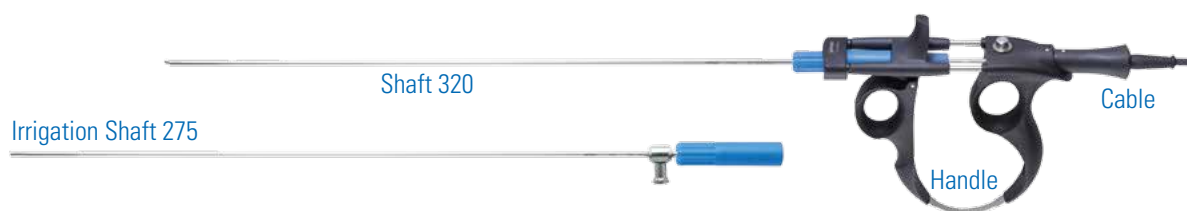
REF	Description	Dimensions	Pcs.
<b>Sterile</b>			
DCC114021	joimax® Bone Drill	L 210 mm / ID 1.0 mm / OD 4.0 mm	5
<b>Unsterile</b>			
DCC245521	joimax® Bone Drill	L 210 mm / ID 2.4 mm / OD 5.5 mm	1
			
DCC246521	joimax® Bone Drill	L 210 mm / ID 2.4 mm / OD 6.5 mm	1
			
DCC247521	joimax® Bone Drill	L 210 mm / ID 2.4 mm / OD 7.5 mm	1
			
DCC248521	joimax® Bone Drill	L 210 mm / ID 2.4 mm / OD 8.5 mm	1
			
DCC249521	joimax® Bone Drill	L 210 mm / ID 2.4 mm / OD 9.5 mm	1
			

Other drills are disposable products and can be found in chapter Disposables.



## RF Instruments – Vaporflex®

REF	Description	Dimensions	Pcs.
<b>JVH32030</b>	Vaporflex® Handle and Shaft	L 320 mm / OD 3.0 mm / 550 Vp / Spare Sealing Rings	1
<b>JVUH10010</b>	Vaporflex® Handle	Universal Handle for Vaporflex® bipolar Probe	1
<b>JVHS32030</b>	Vaporflex® Shaft 320	L 320 mm / OD 3.0 mm	1
<b>JVHS27527S</b>	Vaporflex® Irrigation Shaft 275	L 275 mm / OD 2.6 mm	1
<b>JVC35010</b>	Vaporflex® Cable, Plug for joimax® Endovapor®	L 3.5 m	1
<b>JVC35020</b>	Vaporflex® Cable, Plug for joimax® Endovapor® 2	L 3.5 m	1
<b>VLTC3816</b>	Vaporflex® / Legato® Sterilization Tray with Lid	L 380 mm / W 162 mm / H 45 mm	1
<b>JVHP10023</b>	Vaporflex® Spare Sealing Rings for Handle	consisting: 3 Seals and 3 O-rings	1
<b>JVHP10012</b>	Vaporflex® Sealing for Handle	1.2 mm	1



**JVK1-320** Vaporflex® KIT 1 for joimax® Endovapor®  
incl. JVUH10010, JVHS32030, JVC35010, VLTC3816, JVHP10023

**JVK1-275** Vaporflex® KIT 1S for joimax® Endovapor®  
incl. JVUH10010, JVHS27527S, JVC35010, VLTC3816, JVHP10023

**JVK2-320** Vaporflex® KIT 2 for joimax® Endovapor®2  
incl. JVUH10010, JVHS32030, JVC35020, VLTC3816, JVHP10023

**JVK2-275** Vaporflex® KIT 2S for joimax® Endovapor®2  
incl. JVUH10010, JVHS27527S, JVC35020, VLTC3816, JVHP10023

Probes can be ordered separately. For more details see chapter "Disposables".

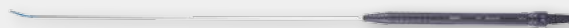


Vaporflex® KIT1

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## RF Instruments – Legato®

REF	Description	Dimensions	Pcs.
<b>JMPH352503</b>	Legato® Hand Piece, monopolar	Plug Erbe / L 3.5 m Cable	1
<b>JMPH352504</b>	Legato® Hand Piece, monopolar	Plug joimax® Endovapor®2/ Valleylab / L 3.5 m Cable	1
<b>JMPH352505</b>	Legato® Hand Piece, monopolar	Plug KLS Martin, Aesculap, Berchtold, Integra, Meyer-Haacke / L 3.5 m cable	1



Legato® Hand Piece, monopolar

JMPH352503  
Plug ErbeJMPH352504  
Plug joimax® Endovapor®2 /  
ValleylabJMPH352505  
Plug KLS Martin / Aesculap /  
Berchtold, Integra, Meyer-Haacke

<b>JBPH352505</b>	Legato® Hand Piece, bipolar	Plug joimax® Endovapor® / L 3.5 m Cable	1
<b>JBPH352506</b>	Legato® Hand Piece, bipolar	Plug joimax® Endovapor®2 / L 3.5 m Cable	1



Legato® Hand Piece, bipolar

## RF Instruments – Accessories

REF	Description	Dimensions	Pcs.
<b>VLT381645</b>	Vaporflex® / Legato® Sterilization Tray	L 380 mm / W 162 mm / H 45 mm	1

Probes can be ordered separately. For more details see chapter “Disposables”.



## Other Instruments

REF	Description	Dimensions	Pcs.
TEA212503	Awl, without Handle ●	L 210 mm / OD 2.5 mm	1
TEA252610	Awl, without Handle ●●	L 250 mm / OD 2.6 mm	1
TEA253010	Awl, without Handle ●●	L 250 mm / OD 3.0 mm	1
THA202535	Awl, without Handle	L 200 mm / OD 2.5 mm	1
TEA372610	Awl, without Handle ●●●	L 370 mm / OD 2.6 mm	1
THA202536	Awl, curved, without Handle	L 200 mm / OD 2.5 mm	1
TEC372620	Endo-Chisel, without Handle ●●	L 370 mm / OD 2.6 mm	1
TEC373020	Endo-Chisel, without Handle ●●	L 370 mm / OD 3.0 mm	1
TEE263020	Endo-Elevator blunt, without Handle	L 260 mm / OD 3.0 mm	1
TEE373020	Endo-Elevator blunt, without Handle ●●	L 360 mm / OD 3.0 mm	1
TEE372620	Endo-Elevator blunt, without Handle ●●	L 370 mm / OD 2.6 mm	1
TES372620	Endo-Spatula, without Handle ●●	L 370 mm / OD 2.6 mm	1
THE322523	Elevator, small ●	L 320 mm / OD 2.5 mm / JL 2.3 mm	1
THE292523	Elevator, small ●	L 295 mm / OD 2.5 mm / JL 2.3 mm	1
THE293533	Elevator, large	L 295 mm / OD 3.5 mm / JL 3.3 mm	1
THE323533	Elevator, large	L 320 mm / OD 3.5 mm / JL 3.3 mm	1
CEE232015	Elevator ●●	L 230 mm / OD 2.0 mm	1

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## Other Instruments

REF	Description	Dimensions	Pcs.
JDA273515	Dissector ●●	L 275 mm / OD 3.5 mm	1
JDA323515	Dissector	L 320 mm / OD 3.5 mm	1
TNH322533	NiTi Nerve Hook, superelastic ●●	L 320 mm / OD 2.5 mm / JL 3.3 mm	1
TNH292525	NiTi Nerve Hook, superelastic ●	L 295 mm / OD 2.5 mm / JL 2.5 mm	1
TNH293530	NiTi Nerve Hook, superelastic ●	L 295 mm / OD 3.5 mm / JL 3.5 mm	1
CNH231512	Examining Hook ●●	L 221 / OD 2.0 mm	1
CEC222028	Curette	L 230 mm / OD 2.0 mm	1
TEFH45025	TESSYS® Endo-Flexprobe Handle ●●●●	L 460 mm / OD 3.0 mm / ID 2.2 mm	1
TEFP32020	Endo-Flexprobe, standard ●●●●	L 320 mm / OD 2.0 mm	1
TEFB2065B	Clip for TESSYS® Endo-Flexprobe Handle ●●●●		1
TMH200170B	Metal Hammer ●●●●	200 g / L 170 mm / blue cap	1
CMH150170	CESSYS® Metal Hammer ●	150 g / L 170 mm / blue cap	1
JAF180023	Tweezer ●●●●	L 180 mm / W 2.3 mm	1
TSR25010	TESSYS® Steel Ruler ●●●	L 200 mm	1

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## Other Instruments

REF	Description	Dimensions	Pcs.
<b>SFA253040</b>	Multiflex Holding Arm • for Scopes and/or Working Tubes standard mounting		1
<b>CIH300607</b>	Instrument Holder •	WL 200 mm	1
<b>CIH300607.1</b>	Instrument Holder Handle	WL 200 mm	1
<b>CIH300607.2</b>	Instrument Holder Cone		1



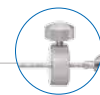
### Guiding Rod Forceps for joimax® Instruments, optimal grip based on fitted bore

<b>GRF182500*</b>	TESSYS® Guiding Rod Forceps ••••	WL 180 mm / bore for 2.5 mm and 4.0 mm guiding rod	1
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### Accessories Stopper for adjustable depth stop

<b>JFST061427</b>	Stopper for Forceps •••••	W 6.0 mm / OD 14.0 mm / ID 2.7 mm	1
<b>JFST061434</b>	Stopper for Forceps •••	W 6.0 mm / OD 14.0 mm / ID 3.4 mm	1
<b>JFST061445</b>	Stopper for Forceps	W 6.0 mm / OD 14.0 mm / ID 4.5 mm	1
<b>LLC010</b>	Sealing Cap for Luer-Lock	OD 10 mm	
<b>JMSDL001</b>	Silicone Sealing Cap for Luer-Lock, blue		





## Other Instruments

REF	Description	Dimensions	Pcs.
<b>RHC108590</b>	TESSYS® Reamer Handle XT, cannulated ●●● Quick-Lock-System, pull-release		1
<b>RHC107090</b>	TESSYS® Reamer Handle, cannulated ● Quick-Lock-System, pull-release		1
<b>RHC108080</b>	TESSYS® Reamer Handle, cannulated Quick-Lock-System, push-release		1
<b>RHC107090</b>	TESSYS® Reamer Handle, cannulated, Quick-Lock-System, pull-release		1



<b>JMPS1022ST</b>	T-Handle with Torque Limiter	L 150 mm / W 122 mm	1
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<b>TRPH25100</b>	Palm Handle ●●●●●	L 100 mm / ID 25.0 mm	1
<b>TECH12121</b>	Multifunctional Palm Handle ●●●●●	L 107.5 mm / OD 20.0 mm / Quick-Lock	1



Palm Handle



Multifunctional Palm Handle

<b>JMPS1024ST</b>	Palm-Handle with Ratchet	L 100 mm / OD 40 mm	1
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<b>BHR4137</b>	Ball Handle for Reamer	Quick-Lock-System	1
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## Other Instruments

REF	Description	Dimensions	Pcs.
<b>Deflectable Shrill® Shaver Blades / Shaft</b>			
<b>JSBDS3222</b>	Deflector Shaft	L 305 mm / OD 3.5 mm	1
<b>JSBDD3235</b>	Deflector Diamond Abrasor	L 320 mm / OD 3.0 mm, Disposable	5
<b>JSBDR3235</b>	Deflector Resector	L 320 mm / OD 3.0 mm, Disposable	5

# ENDOSCOPES



## joimax® Endoscopes

The joimax® HD endoscopes provide high depth of field, excellent brightness (no loss of brightness at the edges) and brilliance. Moreover, joimax® HD endoscopes have a very solid structure and are extremely durable.

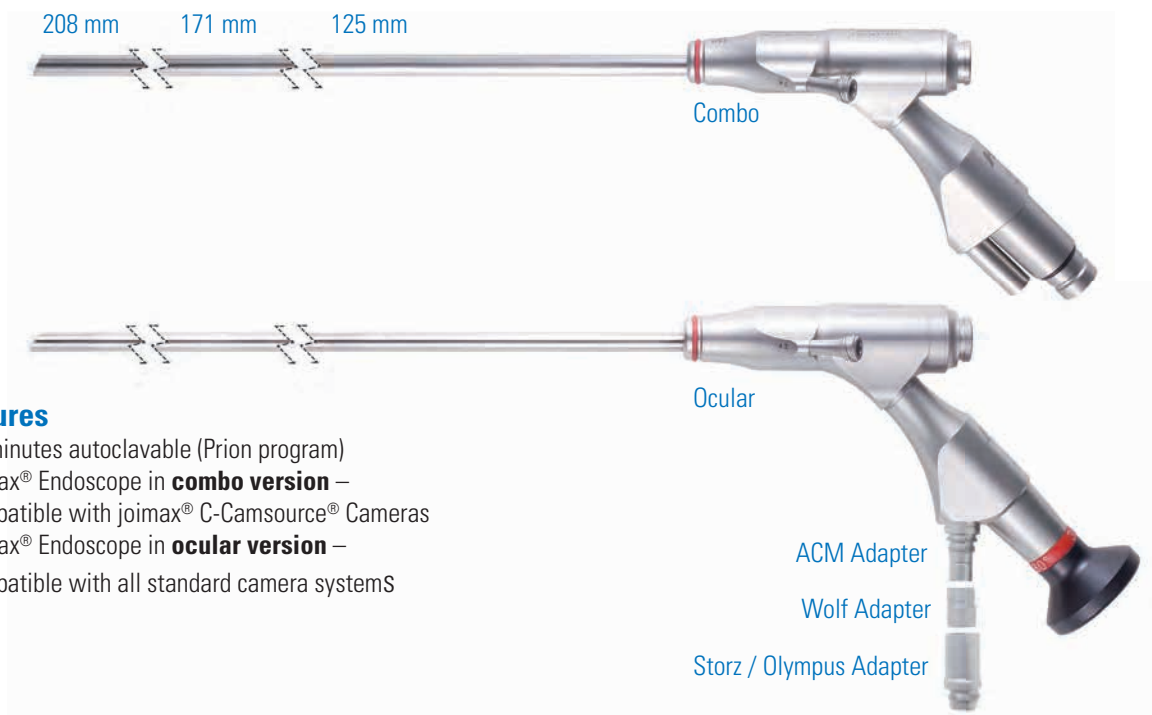




## Foramino- / Laminoscopes

A

REF	Description	Dimensions	Pcs.
<b>FS6342181C</b>	TESSYS® HD Foraminoscope, Combo ●●	WL 171 mm / OD 6.3 mm / 30° / WChD 3.7 mm / 2 x IC 1.5 mm	1
<b>FS6342181O</b>	TESSYS® HD Foraminoscope, Ocular ●●	WL 171 mm / OD 6.3 mm / 30° / WChD 3.7 mm / 2 x IC 1.5 mm	1
<b>FHD6336171C</b>	Full HD Foramino- / Laminoscope, Combo ●●	WL 171 mm / OD 6.3 mm / 30° / WChD 3.7 mm / 2 x IC 1.5 mm	1
<b>FHD6336171O</b>	Full HD Foramino- / Laminoscope, Ocular ●●	WL 171 mm / OD 6.3 mm / 30° / WChD 3.7 mm / 2 x IC 1.5 mm	1
<b>FS7347171C</b>	TESSYS® HD Foraminoscope, Combo	WL 171 mm / OD 7.3 mm / 30° / WChD 4.7 mm / 2 x IC 1.5 mm	1
<b>FS7347171O</b>	TESSYS® HD Foraminoscope, Ocular	WL 171 mm / OD 7.3 mm / 30° / WChD 4.7 mm / 2 x IC 1.5 mm	1



### Features

- > 18 minutes autoclavable (Prion program)
- > joimax® Endoscope in **combo version** – compatible with joimax® C-Camsource® Cameras
- > joimax® Endoscope in **ocular version** – compatible with all standard camera systems

Color coding of the joimax® endoscopic spinal systems:

● TESBASIC ● TESBASICXT ● TESXTD ● TESMORST ● TESSMORXT ● TESFTR ● FASXTD1 ● iLESSYSST ● iLESSYSSH ● CESSYSANT ● MUSTD ● intENTS01

Definition: L = Length / W = Width / H = height / WL = Working Length / D = Diameter / ID = Inner Diameter / OD = Outer Diameter / WChD = Working Channel / IC = Irrigation Channel / JL = Jaw Length



## Foramino- / Laminoscopes

A

REF	Description	Dimensions	Pcs.
<b>FX6342208C</b>	TESSYS® HD Foraminoscope XT, Combo •	WL 208 mm / OD 6.3 mm / 30° / WChD 3.7 mm / 2 x IC 1.5 mm	1
<b>FX6342208O</b>	TESSYS® HD Foraminoscope XT, Ocular •	WL 208 mm / OD 6.3 mm / 30° / WChD 3.7 mm / 2 x IC 1.5 mm	1
<b>LS6342125C</b>	iLESSYS® HD Laminoscope, Combo •	WL 125 mm / OD 6.3 mm / 30° / WChD 3.7 mm / 2 x IC 1.5 mm	1
<b>LS6342125O</b>	iLESSYS® HD Laminoscope, Ocular •	WL 125 mm / OD 6.3 mm / 30° / WChD 3.7 mm / 2 x IC 1.5 mm	1
<b>LS1000125O</b>	iLESSYS® Delta HD Laminoscope, Ocular	L 125 mm / OD 10 mm / 0°	
<b>LS1006125O</b>	iLESSYS® Delta HD Laminoscope, Ocular	WL 125 mm / OD 10.0 mm / 15° / WChD 6.0 mm / 2x IC 2.0 mm	1
<b>LS1006125C</b>	iLESSYS® Delta HD Laminoscope Delta, Combo	WL 125 mm / OD 10.0 mm / 15° / WChD 6.0 mm / 2x IC 2.0 mm	1

Color coding of the joimax® endoscopic spinal systems:

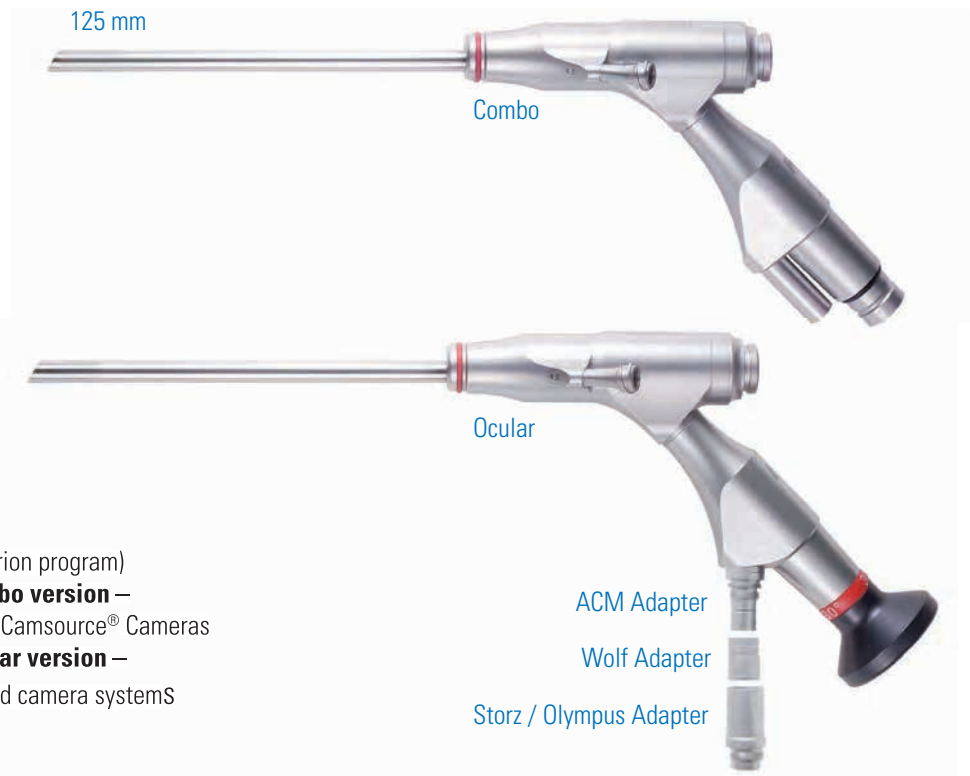
• TESBASIC • TESBASICXT • TESXTD • TESMORST • TESSMORXT • TESFTR • FASXTD1 • iLESSYSST • iLESSYSSTH • CESSYSANT • MUSTD • intENTS01

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## Multiscopes

REF	Description	Dimensions	Pcs.
<b>MS5830125C</b>	HD Multiscope, Combo •	WL 125 mm / OD 5.8 mm / 30°/ WChD 3.1 mm / 2 x IC 1.4 mm	1
<b>MS5830125O</b>	HD Multiscope, Ocular •	WL 125 mm / OD 5.8 mm / 30°/ WChD 3.1 mm / 2 x IC 1.4 mm	1



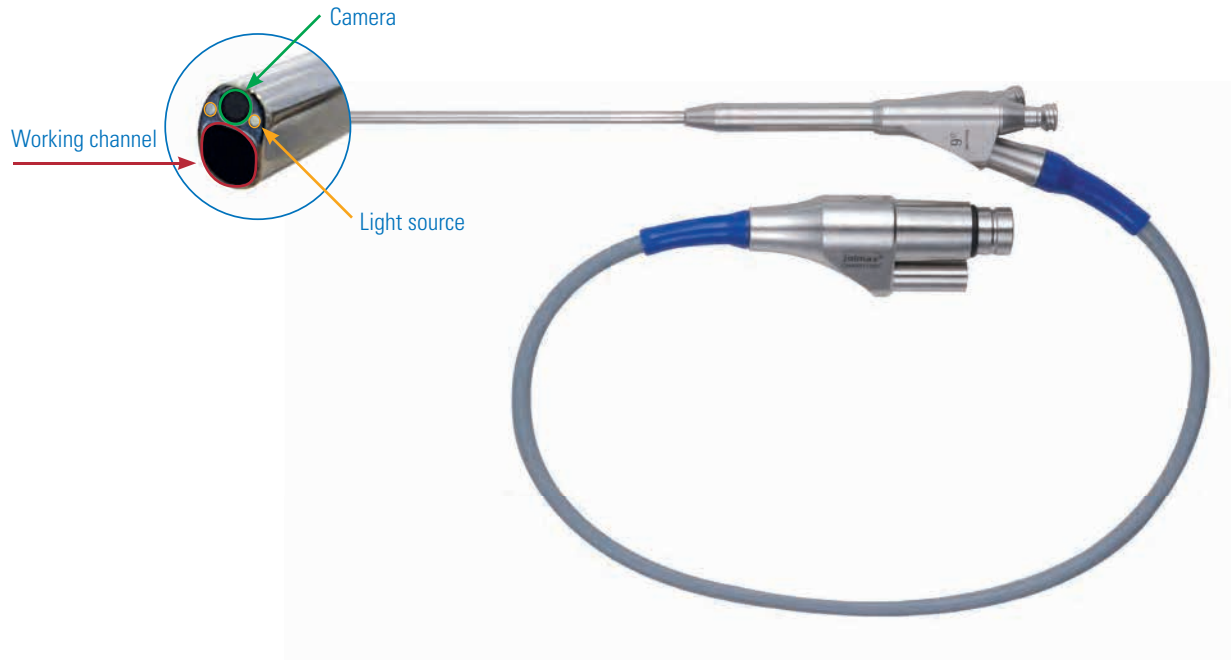
### Features

- > 18 minutes autoclavable (Prion program)
- > joimax® Endoscope in **combo version** – compatible with joimax® C-Camsource® Cameras
- > joimax® Endoscope in **ocular version** – compatible with all standard camera systems



## Cervicalscope Hybrid

REF	Description	Dimensions	Pcs.
CH402100C	CESSYS® Cervical Hybrid Scope, Combo autoclavable •	WL 100 mm / OD 3.9 mm / WChD 2.1 mm / 9°	1



C

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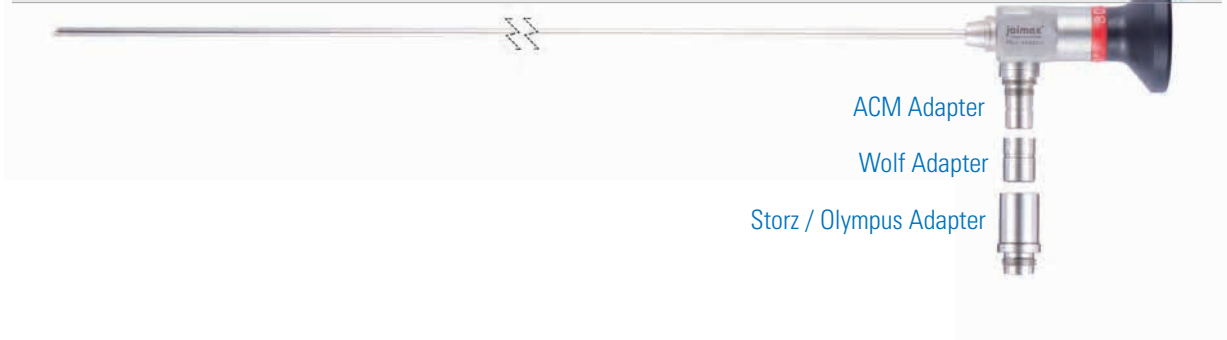


## Nucleoscope

REF	Description	Dimensions	Pcs.
<b>PS27302460</b>	HD Nucleoscope, Ocular •	WL 246 mm / OD 2.7 mm / 30°	1
<b>PS19091320</b>	HD Nucleoscope, Ocular for intENTS® Cervical	WL 132 mm / OD 1.9 mm / 9°	1

<b>PS2730246C</b>	HD Nucleoscope, Combo •	WL 246 mm / OD 2.7 mm / 30°	1
<b>PS1909132C</b>	HD Nucleoscope, Combo for intENTS® Cervical	WL 132 mm / OD 1.9 mm / 9°	1



## Nucleoscope Shaft

<b>PSD4030246</b>	Shaft with Rinse Connection for Nucleoscope •	OD 4.0 mm / ID 3.6 mm / 45°	1
<b>PSD272110</b>	Shaft with Rinse Connection for Nucleoscope cervical •	OD 2.7 mm / ID 2.1 mm / 45°	1



## Obturator cannulated

<b>PSO273002</b>	Obturator • for Nucleoscope Shaft	OD 3.5 mm / ID 1.0 mm	1
<b>PSO2010135</b>	Obturator • for Nucleoscope Shaft cervical	OD 2.0 mm / ID 1.0 mm	1





## Laparoscopes

REF	Description	Dimensions	Pcs.
<b>LS0500302</b>	Laparoscope	L 302 mm / OD 5 mm / 0°	1
<b>LS0500326</b>	Laparoscope	L 326 mm / OD 5 mm / 0°	1
<b>LS0530302</b>	Laparoscope	L 302 mm / OD 5 mm / 30°	1
<b>LS0530326</b>	Laparoscope	L 326 mm / OD 5 mm / 30°	1
<b>LS1000310</b>	Laparoscope	L 310 mm / OD 10 mm / 0°	1
<b>LS1000349</b>	Laparoscope	L 342 mm / OD 10 mm / 0°	1
<b>LS1030310</b>	Laparoscope	L 310 mm / OD 10 mm / 30°	1
<b>LS1030349</b>	Laparoscope	L 342 mm / OD 10 mm / 30°	1



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## Arthroscopes

REF	Description	Dimensions	Pcs.
<b>AS263091</b>	Arthroscope, Combo	WL 91 mm / OD 2.6 mm / 30°	1
<b>AS4000175</b>	Arthroscope, Combo	WL 175 mm / OD 4 mm / 0°	1
<b>AS4030175</b>	Arthroscope, Combo	WL 175 mm / OD 4 mm / 30°	1
<b>AS4045175</b>	Arthroscope, Combo	WL 175 mm / OD 4 mm / 45°	1
<b>AS4070175</b>	Arthroscope, Combo	WL 175 mm / OD 4 mm / 70°	1





## Accessories

REF	Description	Dimensions	Pcs.
<b>ASB002110</b>	Shaft-Obturator for Arthroscope Shaft, blunt	WL 110 mm / ID 2.7 mm	1
<b>ASB004175</b>	Shaft-Obturator for Arthroscope Shaft, blunt	WL 175 mm / ID 4 mm	1
<b>AST307740</b>	Arthroscope Tray	L 298 mm / W 77 mm / H 38.5 mm Distance between Holder: 161mm	1
<b>AST221450</b>	Arthroscope Tray	suitable for Arthroscopes L 110 mm	
<b>AST281255</b>	Arthroscope Tray	suitable for 2 Arthroscopes, 1 Obturator Shaft, 1 Arthroscope Shaft, 1 Shaft Trocar	1
<b>ASTS02110</b>	Arthroscope Shaft	OD 2.7 mm / 1 Irrigation Stop-cock	1
<b>ASTS04175</b>	Arthroscope Shaft	OD 4 mm / 2 Irrigation Stop-cocks	1
<b>ASTT02110</b>	Shaft-Trocar for Arthroscope Shaft, triangular	WL 110 mm / OD 2.7 mm	1
<b>ASTT04175</b>	Shaft-Trocar for Arthroscope Shaft, triangular	WL 175 mm / OD 4 mm	1
<b>FCB353017</b>	Foraminoscope Cleaning Brush for Irrigation Channel	L 350 mm / OD 3 mm / Brush Area 17 mm	1
<b>FCB353930</b>	Foraminoscope Cleaning Brush	L 350 mm / OD 4.7 mm / Brush Area 40 mm	1
<b>FSCAL0015</b>	Cleaning Adapter for Foraminoscope		1
<b>FSSC00001</b>	Stop-cock for Foraminoscope, disposable		1
<b>FS-ADAPT1</b>	Lightsource Adapter for Foraminoscope (Wolf)		1
<b>FS-ADAPT2</b>	Lightsource Adapter for Foraminoscope (Storz)		1
<b>TCC04010</b>	Closing Cap for Endoscopes, blue	OD 10 mm / ID 5 mm / Bore 1 mm	1
<b>TCC150700</b>	Closing Cap for joimax® Endoscopes	OD 15 mm / ID 11 mm / Bore 1 mm	1
<b>SST381666</b>	Endoscope Sterilization and Transport Tray	L 380 mm / W 162 mm / H 66 mm	1
<b>CET381645</b>	CESSYS® Endoscope Sterilization and Transport Tray	L 380 mm / W 162 mm / H 45 mm	1
<b>UNI3816C</b>	Universal Lid for Sterilization Tray	L 380 mm / W 162 mm	1

Camera accessories (cable and adapter) for C-Camsource® and D-Camsource® please see chapter „Devices“.

# DISPOSABLES



**Access Kits**



A

**Reamers & Drills**



B

**Needles & Wires**



C

**RF Probes**



D

**Shaver Blades**



E

**Tubing Set**



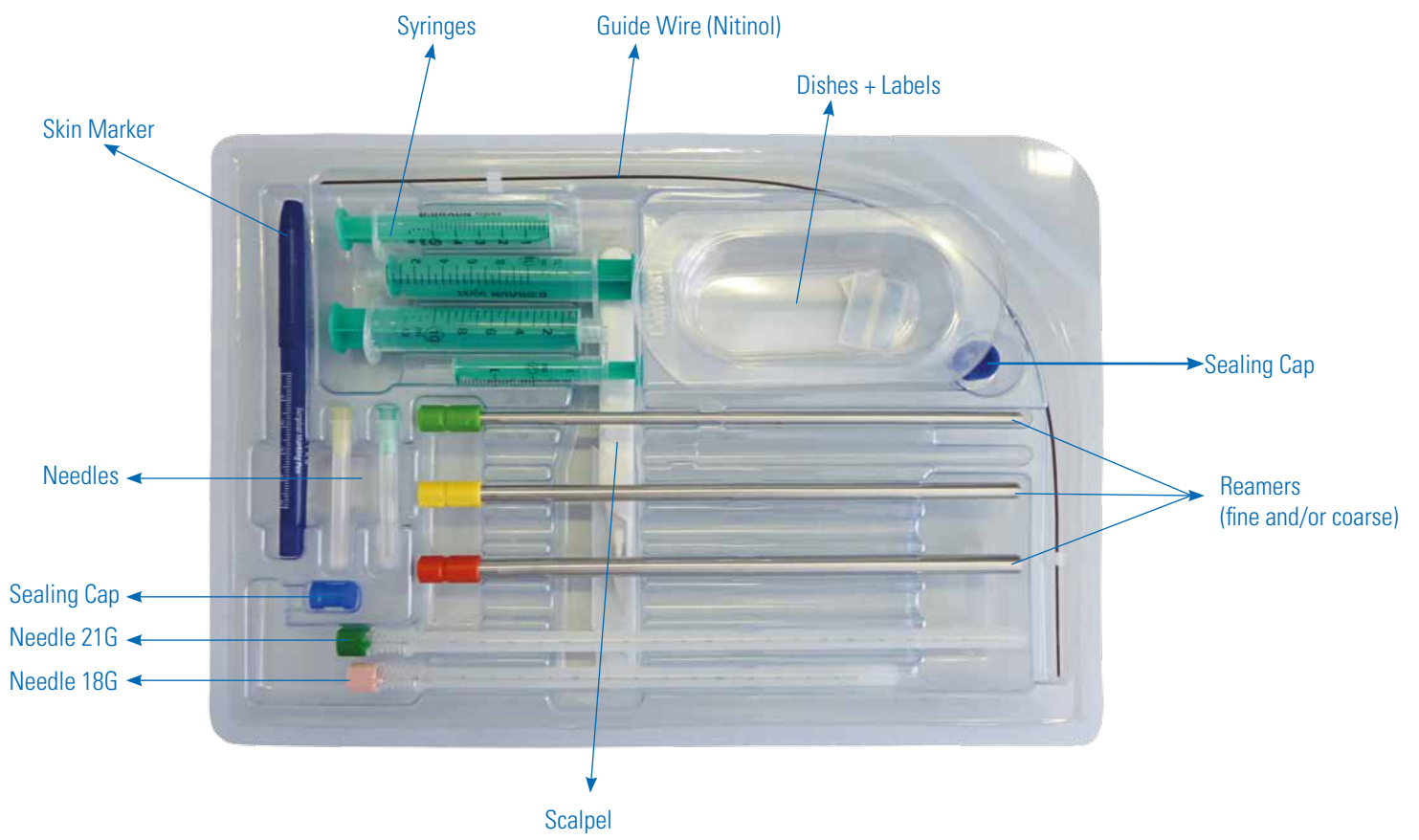
F

**Sterile Drapes, Paper Filters, Cable Cover**

G

H

I





## Access Kits

A

REF	Description	Dimensions	PU
<b>TDAK0010</b>	<b>TESSYS® Disposable Access KIT1</b> Content: 2 Needles (20G and 21G), 1x 2 ml / 1x 5 ml / 2x 10 ml Syringe, Scalpel, Skin Marker, 3 Dishes, 2 Guide Wires, 2 Sealing Caps, 2 Discography / Chromography Needles (18G and 21G)		<b>10</b>
<b>TDAK0020</b>	<b>TESSYS® Disposable Access KIT2, with 3 fine Reamers</b> Content: 2 Needles (20G and 21G), 1x 2 ml / 1x 5 ml / 2x 10 ml Syringe, Scalpel, Skin Marker, 3 Dishes, 2 Guide Wires, 2 Sealing Caps, 2 Discography / Chromography Needles (18G and 21G), 3 Reamers fine		<b>10</b>
<b>TDAK0021</b>	<b>TESSYS® Disposable Access KIT2 ECO, with 3 fine Reamers</b> Content: 1 Needle 20G, 1 Guide Wire, 2 Sealing Caps, 1 Needle 18G (180 mm), 1 Skin Marker, 3 Reamers fine		<b>10</b>
<b>TDAK0040</b>	<b>TESSYS® Disposable Access KIT4, with 3 coarse and 3 fine Reamers</b> Content: 2 Needles (20G and 21G), 1x 2 ml / 1x 5 ml / 2x 10 ml Syringe, Scalpel, Skin Marker, 3 Dishes, 2 Guide Wires, 2 Sealing Caps, 2 Discography / Chromography Needles (18G and 21G), 3 Reamers coarse, 3 Reamers fine		<b>10</b>
<b>TDAK0050</b>	<b>TESSYS® Disposable Access KIT5, with 4 fine Reamers</b> Content: 2 Needles (20G and 21G), 1x 2 ml / 1x 5 ml / 2x 10 ml Syringe, Scalpel, Skin Marker, 3 Dishes, 2 Guide Wires, 2 Sealing Caps, 2 Discography / Chromography Needles (18G and 21G), 4 Reamers fine		<b>10</b>
<b>TDAK0060</b>	<b>TESSYS® Disposable Access KIT6, with 4 fine Reamers</b> Content: 2 Needles (20G and 21G), 1x 2 ml / 1x 5 ml / 2x 10 ml Syringe, Scalpel, Skin Marker, 3 Dishes, 2 Guide Wires, 2 Sealing Caps, 2 Discography / Chromography Needles (18G and 21G), 4 Reamers coarse		<b>10</b>
<b>JMSN18G</b>	joimax® Needle 18, Quincke graduated, with silicone coating	L 150 mm / OD 1.25 mm / ID 1.00 mm	<b>10</b>
<b>JMSN21G</b>	joimax® Needle 21G, Pencil Point, graduated, with silicone coating	L 200 mm / OD 0.80 mm / ID 0.50 mm	<b>10</b>









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## Reamers single packed, sterile

REF	Description	Dimensions	Pcs.
<b>CRF213240</b>	TESSYS® Crown Reamer, blue, fine ●●	L 210 mm / ID 3.0 mm / OD 4.0 mm	5
			
<b>CRF214250</b>	TESSYS® Crown Reamer, green, fine ●●	L 210 mm / ID 4.0 mm / OD 5.0 mm	5
			
<b>CRF215565</b>	TESSYS® Crown Reamer, yellow, fine ●●	L 210 mm / ID 5.5 mm / OD 6.5 mm	5
			
<b>CRF216575</b>	TESSYS® Crown Reamer, red, fine ●●	L 210 mm / ID 6.5 mm / OD 7.5 mm	5
			
<b>CRF217585</b>	TESSYS® Crown Reamer, violet, fine ●●	L 210 mm / ID 7.5 mm / OD 8.5 mm	5
			
<b>CRC213240</b>	TESSYS® Crown Reamer, blue, coarse ●●	L 210 mm / ID 3.0 mm / OD 4.0 mm	5
			
<b>CRC214250</b>	TESSYS® Crown Reamer, green, coarse ●●	L 210 mm / ID 4.0 mm / OD 5.0 mm	5
			
<b>CRC215565</b>	TESSYS® Crown Reamer, yellow, coarse ●●	L 210 mm / ID 5.5 mm / OD 6.5 mm	5
			

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## Reamers single packed, sterile

REF	Description	Dimensions	Pcs.
<b>CRC216575</b>	TESSYS® Crown Reamer, red, coarse ●●	L 210 mm / ID 6.5 mm / OD 7.5 mm	5
<b>CRC217585</b>	TESSYS® Crown Reamer, violet, coarse ●●	L 210 mm / ID 7.5 mm / OD 8.5 mm	5
<b>CER112835</b>	CESSYS® Cervical Reamer ●	WL 128 mm / ID 2.8 mm / OD 3.5 mm	5
<b>TER352835</b>	TESSYS® Endoscopic Reamer	L350 mm / ID 2.8 mm / OD 3.5 mm	5
<b>DCC114021</b>	joimax® Bone Drill, cannulated	L 210 mm / ID 1.0 mm / OD 4.0 mm	5

Next sizes of drill are non disposable products and can be found in chapter Instruments.

## Accessories can also be found in chapter Instruments/Other Instruments

<b>RHC108590</b>	TESSYS® Reamer Handle XT, cannulated ●●●	Quick-Lock-System, pull-release	1
<b>RHC107090</b>	TESSYS® Reamer Handle, cannulated ●	Quick-Lock-System, pull-release	1
<b>RHC108080</b>	TESSYS® Reamer Handle, cannulated	Quick-Lock-System, push-release	1
<b>RHC107090</b>	TESSYS® Reamer Handle, cannulated, Quick-Lock-System, pull-release		1
<b>TRPH25100</b>	Palm Handle ●●●●●●	L 100 mm / ID 25.0 mm	1
<b>TECH12121</b>	Multifunctional Palm Handle ●●●●●	L 107.5 mm / OD 20.0 mm / Quick-Lock	1
<b>BHR4137</b>	Ball Handle for Reamer	Quick-Lock-System	1




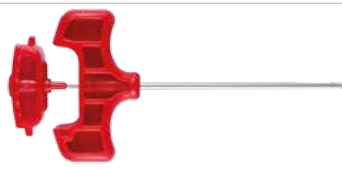
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## Needles & Wires

REF	Description	Dimensions	PU
<b>Needles</b>			
<b>JMSN18GW</b>	<b>joimax® 18G Needle and Guide Wire Set</b> Content: joimax® Needle 18G (JMSN18G) and joimax® Guide Wire (TGWS40007)		10
<b>JMSN18GW11</b>	<b>joimax® 18G Needle and Guide Wire Set</b> Content: joimax® Needle 18G (JMSN18G11) and joimax® Guide Wire		10
			
<b>JMSN18G11</b>	joimax® Needle 18G, Quincke, graduated, with silicone coating	L 110 mm / ID 1.0 mm / OD 1.25 mm	10
<b>JMSN18G</b>	joimax® Needle 18G, Quincke, graduated, with silicone coating	L 150 mm / ID 1.0 mm / OD 1.25 mm	10
<b>JMSN18XG</b>	joimax® Needle 18G, Quincke, graduated, with silicone coating	L 180 mm / ID 1.0 mm / OD 1.25 mm	10
			
<b>JMSN21G</b>	joimax® Needle 21G, Pencil Point, graduated, with silicone coating	L 200 mm / ID 0.5 mm / OD 0.8 mm	10
<b>JMSN21XG</b>	joimax® Needle 21G, Quincke, graduated, with silicone coating	L 230 mm / ID 0.5 mm / OD 0.8 mm	10
			
<b>JMSWSNT20</b>	Yamshidi/Starting Needle (Trocar Type)	L 200 mm	10
<b>JMSWSNT23</b>	Yamshidi/Starting Needle 11G	L 200 mm	10
			
<b>Guide Wires</b> unsterile			
<b>TGWS40007</b>	joimax® Guide Wire, super elastic	L 400 mm / OD 0.8 mm	5
<b>TGWS50007</b>	joimax® Guide Wire, super elastic	L 500 mm / OD 0.8 mm	5
<b>TGWS40020</b>	joimax® Guide Wire super elastic	L 400 mm / OD 2.0 mm	5
<b>TGWS50020</b>	joimax® Guide Wire super elastic	L 500 mm / OD 2.0 mm	5
<b>TGWS60016</b>	joimax® Guide Wire super elastic	L 600 mm / OD 1.6 mm	5
<b>JMPS1028ST</b>	Guide Wire with Markers	L 380 mm / OD 1.5 mm	

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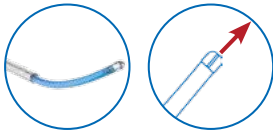
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## RF Probes

REF	Description	Dimensions	Pcs.
<b>Vaporflex®</b>			
<b>JVP32024</b>	Vaporflex® Probe 320, Ball Tip, bipolar, sterile	WL 320 mm / OD 2.5 mm / 1.200 Vp	5
<b>JVPT32024</b>	Vaporflex® Probe 320, Paddle Tip, bipolar, sterile	WL 320 mm / OD 2.5 mm / 1.200 Vp	5
<b>JVFT32024</b>	Vaporflex® Probe 320, Forc Tip, bipolar, sterile	WL 320 mm / Shaft OD 2.5mm / 1.200 Vp	5
<b>JVP27525S</b>	Vaporflex® Probe 275, bipolar, sterile	WL 275 mm / OD 2.0 mm / 1.200 Vp	5

**Vaporflex® / Triggerflex™**

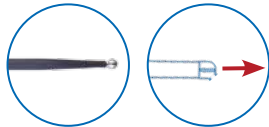
<b>JSMDTF32</b>	Vaporflex®/Triggerflex™ Bipolar System Content: Hand Piece, Cable and Probe, distal emitting	L 320 mm / OD 2.5 mm	1
<b>JSMDTF38</b>	Vaporflex®/Triggerflex™ Bipolar System Content: Hand Piece, Cable and Probe, distal emitting	L 380 mm / OD 2.5 mm	1
<b>JSMDTF39</b>	Vaporflex®/Triggerflex™ Bipolar System Content: Hand Piece, Cable and Probe, distal emitting	L 390 mm / OD 2.5 mm	1
<b>JSMDTF40</b>	Surgi-Max™ Trigger-Flex™ Probe, distal emitting	L 400 mm / OD 2.5 mm	

**Vaporflex® Probe bipolar for TESSYS®, iLESSYS®, Multiuse RT**

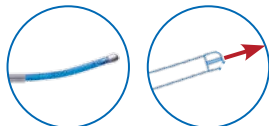
Sterile, Disposable, 5 per Box

**Legato®**

<b>JMPP27025</b>	Legato® Probe, Ball Tip, monopolar, sterile	WL 270 mm / Shaft OD 2.8 mm / 3.200 Vp	5
<b>JBPP27020</b>	Legato® Probe, Ball Tip, bipolar, sterile	WL 270 mm / Shaft OD 2.0 mm / 850 Vp	5

**Legato® monopolar for CESSYS® and Multiuse RT**

Sterile, Disposable, 5 per Box

**Legato® bipolar for Intradiscal and Multiuse RT**

Sterile, Disposable, 5 per Box






Corresponding Hand Pieces, see chapter "Instruments".

**Accessories**

<b>JEVN0001</b>	joimax® Neutral Electrode, <a href="#">Easy Universal</a> , without Connecting Cable, Disposable
<b>JEVNC0001</b>	joimax® Neutral Electrode Connecting Cable, <a href="#">Connecting Cable international</a>



## Shrill® Shaver Blades

REF	Description	Dimensions	PU		
<b>JSBMV0001</b>	<b>joimax® Shaver Blades Starter-Box</b>	mixed packaging with 5 most common used blades	<b>5</b>		
	JSBDA3235, Diamond Abrasor		JSBST3235, Side Trimmer		JSBTR3235, Tissue Resector
	JSBBC3235, Barrel Cutter		JSBRR3235, Bone Resector		



### Bone Resection without Protection max. 6000 rpm (milling)



<b>JSBDA252019</b>	Diamond Abrasor, Ball Tip use for CESSYS® Cervical System	L 250 mm / OD 2.0 mm / Ball OD 1.9 mm	5
<b>JSBDA244544</b>	Diamond Abrasor, Ball Tip use for iLESSYS® Delta	L 240 mm / OD 4.5 mm / Ball OD 4.4 mm	5
<b>JSBDA3235</b>	Diamond Abrasor, Ball Tip	L 320 mm / OD 3.5 mm / Ball OD 2.0 mm	5
<b>JSBDA323534</b>	Diamond Abrasor, big Ball Tip	L 320 mm / OD 3.5 mm / Ball OD 3.4 mm	5
<b>JSBDA243534</b>	Diamond Abrasor, Ball Tip	L 240 mm / OD 3.5 mm / Ball OD 3.4 mm	5
<b>JSBDA243029</b>	Diamond Abrasor, big Ball Tip	L 240 mm / OD 3.0 mm / Ball OD 2.9 mm	5



### Resection of Bone Tissue max. 6000 rpm (milling)



<b>JSBBA3235</b>	Ball Abrasor, Ball Tip, with protection	L 320 mm / OD 3.5 mm / Ball OD 2.0 mm	5
<b>JSBBT3235</b>	Acorn Trimmer, Cone Tip, with protection	L 320 mm / OD 3.5 mm / Acorn L 4.0 mm	5
<b>JSBBC3235</b>	Barrel Cutter, Barrel Tip, with protection	L 320 mm / OD 3.5 mm / Barrel L 4.0 mm	5

### Resection of Bone Tissue with small Protection Lip max. 6000 rpm (milling)



<b>JSBST3235</b>	Side Trimmer, Acorn Tip, one-side protection	L 320 mm / OD 3.5 mm / Acorn L 4.0 mm	5
<b>JSBSC3235</b>	Side Cutter, Barrel Tip, one-side protection	L 320 mm / OD 3.5 mm / Barrel L 4.0 mm	5
<b>JSBSC2435</b>	Side Cutter, Barrel Tip, one-side protection	L 240 mm / OD 3.5 mm / Barrel L 4.0 mm	5
<b>JSBSC2430</b>	Side Cutter, Barrel Tip, one-side protection	L 240 mm / OD 3.0 mm / Barrel L 4.0 mm	5
<b>JSBOC244536</b>	Olive Cutter, Olive Tip, with one-side protection use for iLESSYS® Delta	L 240 mm / OD 4.5 mm / Olive L 3.6 mm	5



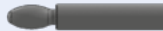







Color coding of the joimax® endoscopic spinal systems:

• TESBASIC • TESBASICXT • TESXTD • TESMORST • TESSMORXT • TESFTR • FASXTD1 • iLESSYSST • iLESSYSSTH • CESSYSANT • MUSTD • intENTS01

Definition: L = Length / W = Width / H = height / WL = Working Length / D = Diameter / ID = Inner Diameter / OD = Outer Diameter / WChD = Working Channel / IC = Irrigation Channel / JL = Jaw Length



## Shrill® Shaver Blades

REF	Description	Dimensions	PU
<b>Resection of Bone Tissue without Protection</b> max. 6000 rpm (milling) 			
<b>JSBBR3235</b>	Bone Resector, Ball Tip 	L 320 mm / OD 3.5 mm / Ball OD 2.0 mm	5
<b>JSBOC252019</b>	Olive Cutter, Olive Tip use for CESSYS® Cervical System 	L 250 mm / OD 2.0 mm / Olive 1.9 mm	5
<b>Ablation of Soft Tissue</b> max. 3000 rpm (cutting with oscillating mode) 			
<b>JSBTC3235</b>	Tissue Cutter, middle window size, without teeth 	L 320 mm / OD 3.5 mm / Window L 5.0 mm, beveled	5
<b>JSBTT3235</b>	Tissue Trimmer, middle windows size, with teeth 	L 320 mm / OD 3.5 mm / Window L 5.0 mm, beveled	5
<b>JSBTR3235</b>	Tissue Resector, biggest window size, with teeth 	L 320 mm / OD 3.5 mm / Window L 6.0 mm	5
<b>Deflector Shaver Blade Set</b>			
<b>JSBDD3235</b>	Deflector Diamond Abrasor 	L 320 mm / OD 3.0 mm	5
<b>JSBDR3235</b>	Deflector Resector 	L 320 mm / OD 3.0 mm	5
<b>JSBDS3222</b>	Deflector Shaft 	L 305 mm / OD 3.5 mm	5
			10

Color coding of the joimax® endoscopic spinal systems:

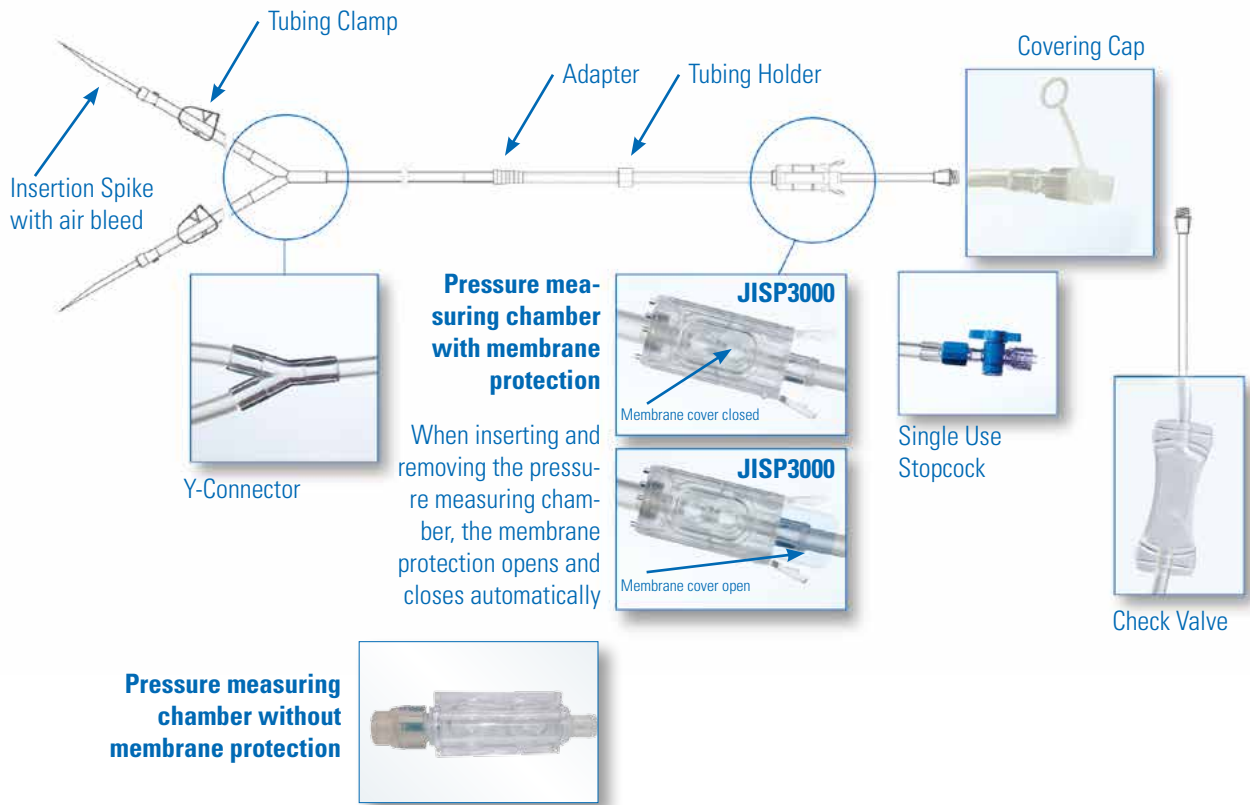
• TESBASIC • TESBASICXT • TESXTD • TESMORST • TESSMORXT • TESFTR • FASXTD1 • iLESSYSST • iLESSYSSH • CESSYSANT • MUSTD • intENTS01

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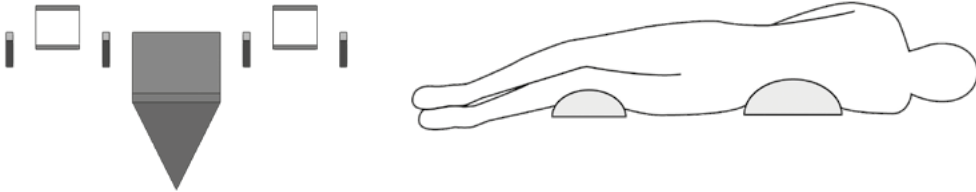
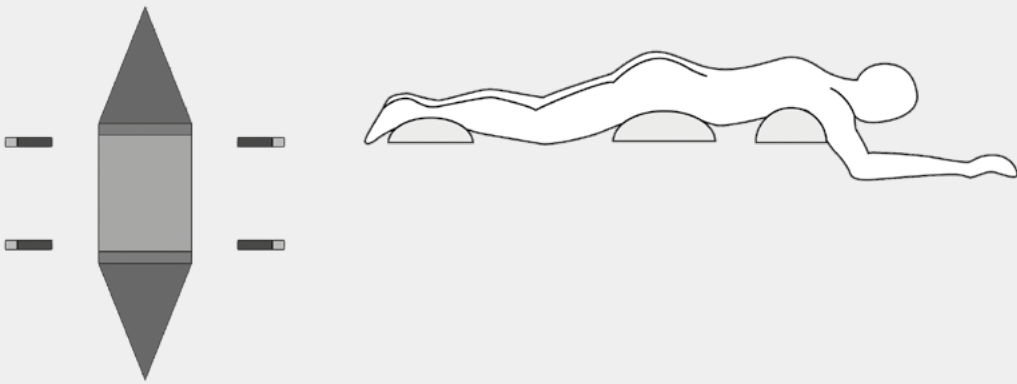


## Tubing Set

REF	Description	Dimensions	PU
	for joimax® Multi-Range Irrigation Pump JIFP2000		
<b>JTSB350D</b>	Single-use Tubing Set	L 3.5 m	10
	for joimax® Versicon® JISP3000		
<b>JPPL0350</b>	Disposable Patient Line	L 3.5 m	20
	for joimax® Versicon® JISP3000		
<b>FSSC00001</b>	Stopcock for Foraminoscope		1
<b>SCLL1520</b>	Sealing Cap for JTSB300D		10



## Sterile Drapes

REF	Description	Dimensions	PU
<b>JMVID3224</b>	joimax® Vertical Isolation Drape, lateral position	320 cm x 245 cm (126" x 96")	10
 <p>The diagram shows a vertical isolation drape with a central rectangular opening and four side tabs. To the right, a line drawing of a human figure is shown lying on their side, with the drape positioned around them to isolate the surgical site.</p>			
<b>JMHID3224</b>	joimax® Horizontal Isolation Drape, prone position	320 cm x 245 cm (126" x 96")	10
 <p>The diagram shows a horizontal isolation drape with a central rectangular opening and four side tabs. To the right, a line drawing of a human figure is shown lying on their stomach, with the drape positioned around them to isolate the surgical site.</p>			

## Paper Filters

<b>TITF153320</b>	Disposable Paper Filters für 1/1, 3/4, 1/2 Container	100
<b>TITF185000</b>	Filter Holder for 1/1, 3/4, 1/2 Container	1

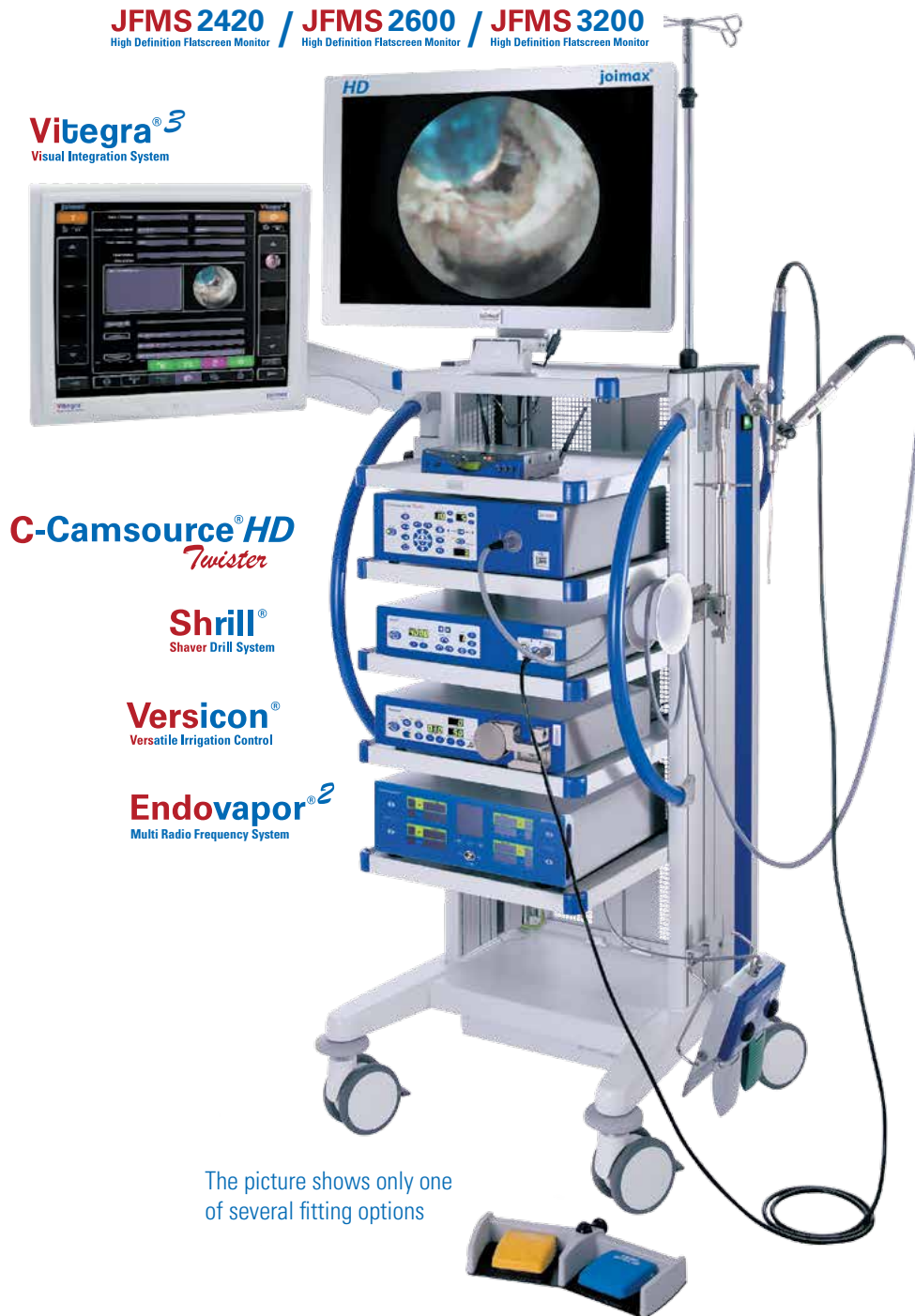
## Cable Cover

<b>CSCC1223</b>	C-Camsource® Camera Cable Cover, telescopic folded with perforation and adhesive tape	L 230 cm / W 12.5 cm	50
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## joimax® HD Endoscopic Tower

The expert solution for spinal surgery and neurosurgery. All devices are optimally matched and designed especially for sensitive structures.





# DEVICES



**C-Camsource® HD**  
*Twister*



A

**D-Camsource® HD LED**  
Double Camera & Light Source System



B

**Shrill®**  
Shaver Drill System



C

**Versicon®**  
Versatile Irrigation Control



D

**Endovapor®**  
Dual High Radio Frequency System



E

**Endovapor® 2**  
Dual High Radio Frequency System



F

**Vitegra® 3**  
Visual Integration System



G

**Medical Displays &  
Endoscopic Trolley**



H

**Accessories**



I



## C-Camsource® HD Twister

REF	Description
<b>CSCHD8000P</b>	<b>C-Camsource® HD Twister</b> 5-in-1-System: HD-Camera, 100W Xenon Light Source, Video Twister with virtual Diaphragm, Storage Capability and Text Generator (incl. Accessories and Instruction for Use)
<b>CSCHD8000P*</b>	<b>C-Camsource® HD Twister</b> same like CSCHD8000P but with sterilizable Cable
<b>CSCHDU80P</b>	C-Camsource® HD Twister Control Unit
<b>CSCHDC80P</b>	Camera Head for C-Camsource® HD Twister single cable technology with integrated focus/coupler, Cable L 3 m
<b>CSCHDC80P*</b>	Camera Head for C-Camsource® HD Twister, plasma sterilizable
<b>JMUSBS20</b>	joimax® USB Flash Drive 4 GB
<b>JDVI0020</b>	joimax® DVI Cable, high-flexible, L 2 m
<b>JBNC0020</b>	joimax® BNC Cable, high-flexible, double shielded, L 2 m
<b>JSVHS020</b>	joimax® S-Video Cable, high-flexible, double shielded, gold-plated connectors, L 2 m
<b>JMPLE180</b>	joimax® Power Cable (Europe), shock-proof plug, 230 V, L 1.8 m

### Accessories

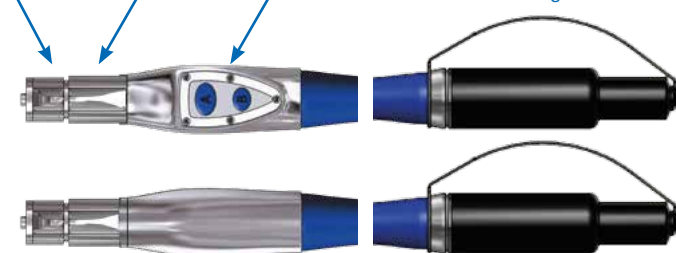
<b>CSHDL0100</b>	C-/D-Camsource® HD Twister Replacement Lamp, 100 Watt
<b>CSCC1223</b>	Camsource® HD Camera Cable Cover disposable, telescopic folded, with perforation and adhesive Tape, L 230 cm / W 12.5 cm
<b>JMKB00002</b>	joimax® Medical Keyboard
<b>JMMO00001</b>	joimax® Medical Mouse



### 5-in-1-System

- 1 Chip-Technology** HD Resolution Standard in Single Cable Technology
- 2 Light Source / 100 Watt Xenon**
- 3 Integrated Twister Function** > Zoom, Rotate, Move Picture Function, Diaphragm Function
- 4 Image Capture Function** > Direct via USB Port
- 5 Text Generator** > Simple describing and marking of selected surgery steps

Scope fixation    Focus adjustment    Function buttons  
A = Save to USB / B = Image rotation



**Camera Head (REF CSCHDC80P):** wipeable and soakable, non sterilizable and autoclavable, with scope fixation, focus adjustment and function buttons

**Camera Head (REF CSCHDC80P\*):** soakable and sterilizable (Sterrad NX and Sterrad 100), non autoclavable, with scope fixation and focus adjustment, without function buttons



## D-Camsource® HD LED

Double Camera & Light Source System

REF	Description
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<b>CSDHD8000P</b>	<b>D-Camsource® HD LED</b> combined Camera and Light Source System with dual Cable Technology, incl. Accessories: autoclavable Camera Cable with TV Adapter, Sterilization Basket, fibre-optic Light Guide, S-Video-, HDMI-DVI- and Powersupply Cable, User Manual
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- > **HD Camera System**
- > **LED Light Source**
  - > for longer durability
  - > cool light for endoscopic spinal treatments
- > **Autoclavable**
  - > camera head at 134°C / 273°F



### Front Panel:



- |                    |                     |
|--------------------|---------------------|
| 1 On/Off           | 4 Full Menu Buttons |
| 2 Camera Connector | 5 Light On/Off      |
| 3 White Balance    | 6 Light Connector   |

### Rear Connections:



- |  |                    |
|--|--------------------|
| 1 Power Cable Connector/<br>Power Switch/Fuses | 5 Composite Video  |
| 2 HDMI   | 6 Y/C (S-Video)    |
| 3 Grounding Pin                                | 7 Composite Video  |
| 4 Remote Connector                             | 8 Remote Connector |

<b>CSDHDU80P</b>	D-Camsource® HD LED Control Unit (PAL)
<b>JMST80</b>	Sterilization Tray for Camera Head and Fiber Optic Cable





## D-Camsource® HD LED

Double Camera & Light Source System



REF	Description
<b>CSDHDC80P</b>	D-Camsource® HD LED Camera Head Cable (PAL) for Endoscopes with Ocular, autoclaveable, L 3.6 m
<b>CSDHDC80P01</b>	joimax® Focus Adapter for D-Camsource® HD LED Camera Head Cable autoclaveable, for Endoscopes with Ocular
<b>CSDHDC80P02</b>	D-Camsource® HD LED Camera Head Cable autoclaveable, for Endoscopes with Ocular
<b>CSDHDC81P</b>	D-Camsource® HD LED Camera Head Cable (PAL) non-autoclaveable, with Zoom Adapter for Endoscopes with Ocular



<b>CSDHDC81P.1</b>	D-Camsource® HD LED Camera Head Cable non-autoclaveable, C-mount / L 3.6 m
<b>CSDHDC81P.2</b>	Zoom Adapter for Ocular Endoscopes, C-mount / 16-34mm

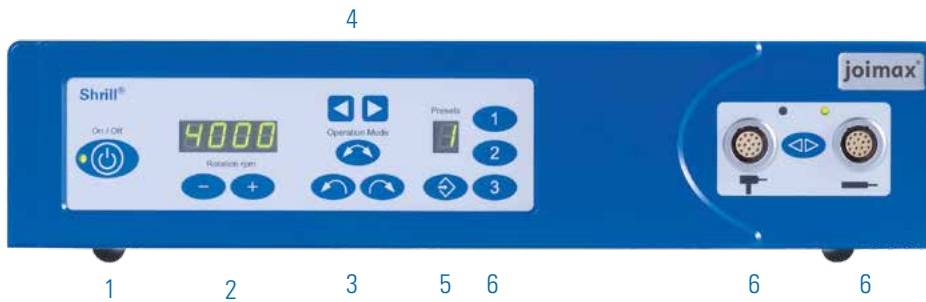
<b>CSLC0348</b>	joimax® Fiber Optic Cable Optical Fibers fused, Tube blue, Adapter orange, L 3.0 m
<b>CSLC0348.E1</b>	Fiber Optic Cable Adapter joimax® and STORZ, Endoscope sided
<b>CSLC0350</b>	joimax® Fiber Optic Cable Adapter Light Source sided for C-Camsource® HD LED (CSDHD8000P), STORZ Light Cable adapted to joimax®
<b>CSLC0351</b>	joimax® Fiber Optic Cable, Optical Fibers fused, Tube blue, Adapter orange, L 3.0 m with joimax® Fibre Optic and STORZ adapter endoscope-sided
<b>CSLC0348.L1</b>	Fiber Optic Cable Adapter STORZ, Light Source sided
<b>CSLC0348.L2</b>	Fiber Optic Cable Adapter WOLF, Light Source sided
<b>CSLC0348.L5</b>	Fiber Optic Cable Adapter OLYMPUS / ACM, Light Source sided





## Shril® Shaver Drill System

REF	Description
<b>JSDC25012</b>	<b>joimax® Shril® System</b> Multi-functional Drill and Resection System, Content: joimax® Shril® Console (JSDC25000), joimax® Shaver Hand Piece (JSHP06000), joimax® Sterilization Tray (JSHP06020), joimax® Shaver Cleaning Adapter (2 Pieces) (JSHP06010), joimax® Footswitch for Shril® System (JSFSV0001) and User Manual
<b>JSDC25000</b>	joimax® Shril® Console, incl. User Manual



- |   |   |
|---|---|
| 1 On / Off  | 4 Rotation direction                                |
| 2 Decrease and increase of speed                      | 5 Save and enter button                             |
| 3 Direction of rotation (left, right and oscillating) | 6 Connector sockets for Drill and Shaver Hand Piece |

<b>JSHP06000</b>	joimax® Shaver Hand Piece, incl. 2x joimax® Cleaning Adapter (JSHP06010)
------------------	--



- |                                |
|--------------------------------|
| 1 On / Off button              |
| 2 Connection to suction tube   |
| 3 Switch for suction           |
| 4 Quick-Connect for all blades |

<b>JSHPP8000</b>	joimax® Shaver Hand Piece, plus
------------------	---------------------------------







- |                                |
|--------------------------------|
| 1 On / OFF + Function button   |
| 2 Connection to suction tube   |
| 3 Switch for suction           |
| 4 Quick-Connect for all blades |

<b>JSDWD1500</b>	joimax® Universal Motor Hand Piece
------------------	------------------------------------





## Shrill® Shaver Drill System

REF	Description
<b>JSDCKL032</b>	joimax® Drill Chuck, keyless
	
<b>JSDCA0100</b>	joimax® Drill Chuck, keyless, A0
	
<b>JSWDA0618</b>	joimax® Wire Driver Adapter
	
<b>JSFSV0001</b>	Footswitch for Shrill® System
	
<b>JSHP06010</b>	Cleaning Adapter for joimax® Shaver Hand Piece
<b>JSHP06020</b>	Sterilization Tray for joimax® Shrill® Hand Piece

C



## Versicon®

Versatile Irrigation Control

REF	Description
-----	-------------

<b>JISP3000</b>	joimax® Versicon® Spine Pump 2 Medical Applications: Arthroscopy (10–200 mm Hg; 0–2500 ml / min.), Spine (0–100 mm Hg; 0–750 ml / min.) incl. Power Supply Cable, Replacement Fuses and User Manual
-----------------	--



for USA: only  
Spine Program

### For endoscopic spinal surgery and arthroscopy

The joimax® Versicon® System was developed for endoscopic spinal surgery and arthroscopy. With its special function and design characteristics, it is equipped for all future jobs.

## Technical data

### Specifications Arthro Program

Irrigation Range	0 – 2500 ml / min
Pressure Range	10 – 200 mm HG

### Specifications Spine Program

Irrigation Range	0 – 750 ml / min
Pressure Range	10 – 100 mm HG

### General Specifications

Temperature Range in Operation	+10° C to + 40° C
rel. Humidity Range	30 to 70 %
Power Supply	100 – 240 VAC, 50 – 60 Hz
Fuse	2x T 3.15 AL 250 (5x20 mm)
Power consumption	max. 60 W
Dimensions in mm	(H x W x D) 95 x 380 x 310 mm
Weight	22 lb (10 kg)
Safety Class	Ila
Splash water protection	IXP 1
Standards	MDD93/42/EEC, DIN EN ISO 13485





**Versicon®**  
Versatile Irrigation Control

REF	Description
<b>JTSB350D</b>	Single-use Tubing Set, L 3.5 m
<b>JPPL0350</b>	Dispoasable Patient Line, L 3.5 m, to replace the patient-side line
<b>FSSC00001</b>	Single-use Stopcock for Foraminoscope, sterile
<b>JIFS0001</b>	Footswitch
<b>SCLL1520</b>	Sealing Cap
<b>JISPSEN01</b>	joimax® Sensor Protection

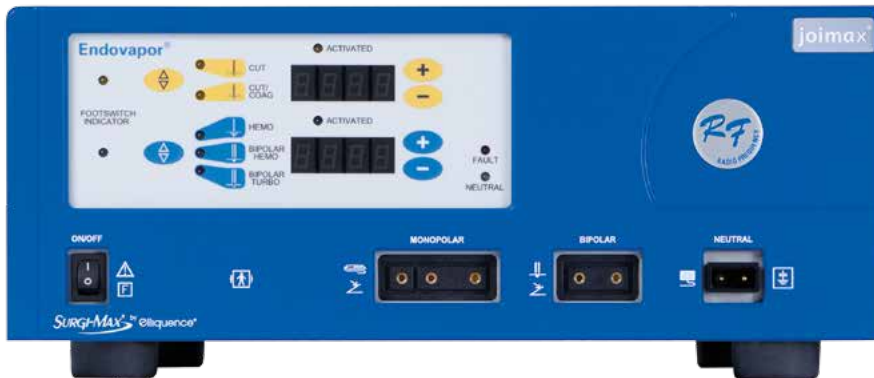




## Endovapor®

Dual High Radio Frequency System

REF	Description
JSM120	joimax® Endovapor® Dual High Radio Frequency System, incl. Device, Triple Footswitch, Power Cable and User Manual



## The Ultimate Precision Energy Source

### High Frequency/Low Temperature

High frequency is what separates the Endovapor® from all other radio-frequency and electrosurgical units. Research indicates the frequency combination of the Endovapor® is optimal for controlled absorption and surgical precision.

### Minimal Penetration

High frequency radiowaves are absorbed in cellular water resulting in shallow absorption reducing the risk of injury to surrounding structures and tissue. The specific high frequency vaporizes tissue by cell conversion.

## Two bipolar Energy Waves

### Bipolar Hemo – Annulus Modulation Ablation

- > Short burst of energy for non-ablative effect
- > Controlled soft tissue contraction/hemostasis
- > Contraction/shrinkage of annulus fibers (fissures/tears)



### Bipolar Turbo – Nucleus Ablation

- > Elongated energy burst for enhanced effect
- > Controlled soft tissue ablation; Nucleus Decompression





## Endovapor®

Dual High Radio Frequency System

REF	Description
JSM120FS3	joimax® Endovapor® Footswitch, triple with Turbo Function

### Triple Foot Switch

Triple action footswitch for all monopolar and bipolar functions.

Additionally with the black button the unique Endovapor® turbo function (Dual Energy) is activated providing the highest energy specifically for scar tissue ablation.



Corresponding Hand Pieces for Vaporflex® and Legato® see chapter "Instruments / RF Instruments".

Corresponding Probes see chapter "Disposables / RF Probes"



## Endovapor®2

Dual High Radio Frequency System

REF	Description
<b>JEVS0201</b>	joimax® Endovapor®2 System Dual High Frequency System for mains voltage 220-240 V and Footswitch
<b>JEVS0202</b>	joimax® Endovapor®2 System Dual High Frequency System for mains voltage 100-127 V and Footswitch
<b>JEVD0201</b>	joimax® Endovapor®2 Device, Dual High Frequency System, 220-240 V
<b>JEVD0202</b>	joimax® Endovapor®2 Device, Dual High Frequency System, 100-127 V
<b>REFUSS01</b>	Footswitch for joimax® Endovapor®2, Cable L 2.5 m
<b>JEVN0001</b>	joimax® Neutral Electrode, Easy Universal, without Connecting Cable, Disposable
<b>JEVNC0001</b>	joimax® Neutral Electrode Connecting Cable, Connecting Cable international



Corresponding Hand Pieces for Vaporflex® and Legato® see chapter "Instruments / RF Instruments".

Corresponding Probes see chapter "Disposables / RF Probes"

### Triple Foot Switch

Triple action footswitch for all monopolar and bipolar functions. Additionally with the black button the unique Endovapor®2 turbo function (Dual Energy) is activated providing the highest energy specifically for scar tissue ablation.





## Vitegra®3

Visual Integration System

REF	Description
ICS1900	Vitegra®3 Visual Integration System

### Technical data

#### Main Specifications

Processor	Intel® Core™ 2 Duo Processor (up to 2.16GHz)
System Memory	2GB RAM
OP System	Windows® XP
Storage Disk Drive	Slim DVD/CD x 1, 500 GB Hard Drive

#### Display

Size	19"
Resolution	1280 x 1024
Touch Screen	Resistive
Contrast Ratio	550:1
View Angle	140°(H) / 135°(V)

#### In/ Out

Audio	MIC-in, Line-in, Line-out
USB	External x 5
Others	Serial Port RS-232 x 3, Ethernet Isolated Gigabit LAN x 2, Keyboard & Mouse PS/2 Keyboard x 1, PS / 2 Mouse x 1, S-Video out/VGA out

#### Video In/ Out

Digital HD	2 x HD SDI in / 2 x HD SDI out
Analog Standard	1 x FBAS in (Composite Video), 1 x RGB in, S-Video in (Y / C)

#### Technical Data and Certificates

Power Requirement	115 / 230 AC
Operation Temperature	32°F ~ 104°F (0°C to 40°C)
Storage Temperature	4°F ~ 240°F (-20°C to +60°C)
Mounting	VESA 75 / 100
Gross Weight	22 lb (10 kg)
EMC	CE/FCC Class B, UL 60601-1, EN 60601-1



#### Dedicated for OR-Environment

Clearly laid out menus allow for safe and quick application of the Vitegra®3. Recording of videos and pictures in HD quality, as well as, easy data saving are possible due to intuitive user interfaces. The voice and touch screen functions are very user friendly.



## Vitegra® 3

Visual Integration System

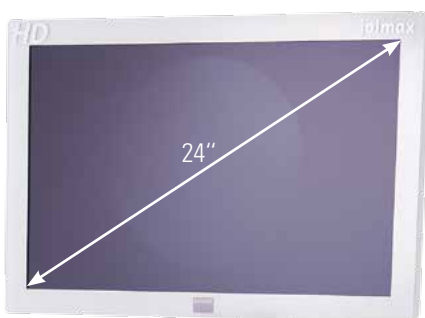
REF	Description
<b>ICS1905</b>	Dicom Modul for Vitegra®3
<b>ICS1910</b>	Monitor Base for Vitegra®3
<b>ICWSR400</b>	joimax® Wireless Microphone System for voice control (Band II and V) incl. multi-channel receiver, pocket transmitter, behind-the-neck headset, battery charger
<b>ICAP0001</b>	joimax® Adaptor Mounting Plate (iTd)
<b>ICAP0002</b>	joimax® Adaptor Mounting Plate (Knürr)
<b>ICAP0003</b>	joimax® Adaptor Mounting Plate (Storz)
<b>ICBCS001</b>	Barcode Scanner Basic Medical, joimax® approved laser technology
<b>ICDV4710J</b>	joimax® DVD+R 4.7 GB special coated, 20 years of data integrity, for medical use, with slimline case
<b>ICCD0730</b>	joimax® CD-R 700 MB special coated, 20 years of data integrity, for medical use, with slimline case
<b>JMUSBS20</b>	joimax® USB Flash Drive 4 GB
<b>JMUSBS10</b>	joimax® USB Flash Drive 16 GB
<b>ICHA620G</b>	joimax® Holding Arm, grey 5 axes, pivoted and height adjustment (clamp, rotation adaptor, balance lift)
<b>ICPS300G</b>	Uninterruptible Power Supply 300 VA/165 W, 230 V, 2 x UPS socket with overload protection, 1 x regular sockets with overload protection, LED state indication for battery power supply, overload and battery change
<b>ICPS400G</b>	Uninterruptible Power Supply 400 VA/240 W, 230 V, 4 x UPS socket with overload protection, 4 x regular sockets with overload protection, LED state indication for battery power supply, overload and battery change
<b>JDC1900</b>	joimax® Display Cover 19"
<b>JDC2400</b>	joimax® Display Cover 24"
<b>JDC3200</b>	joimax® Display Cover 32"
<b>JDC4200</b>	joimax® Display Cover 42"
<b>JMHDD500</b>	External Hard Drive 500 GB, Hard Drive 2.5 / 500 GB with 2 m USB Cable
<b>JMKB00002</b>	joimax® Medical Keyboard
<b>JMMO00001</b>	joimax® Medical Mouse



## Medical Displays & Endoscopic Trolley

REF	Description
<b>JFMS2420</b>	joimax® Flatscreen Monitor 24" LCD Medical Display, High Resolution 1920 x 1200 pixel, Full HD, LED Backlight, picture in picture mode, viewing angle 178°, Video Inputs: DVI, RGBS/YPbPr, S-Video, Composite video, 3G-SDI
<b>JFMS2600</b>	joimax® Flatscreen Monitor 26" LCD Medical Display, Full HD surgical display, 1920 x 1080 natural resolution & LED back light, picture in picture mode, viewing angle 178°, Video Inputs: DVI, RGBS/YPbPr, S-Video, Composite video, 3G-SDI, VGAincl. Power Supply, User Manual and joimax® Display Cover
<b>JFMS3200</b>	joimax® Flatscreen Monitor 32" LCD Model Panasonic, Full HD surgical display, LCD panel, picture and picture Function, Trolley mounting possible with adaptar, plate or wall mounting
<b>JFMS4200</b>	joimax® Flatscreen Monitor 42" LCD Model Barco, Full HD surgical display, LCD panel, Wall mounting required
<b>JFMS4200.1</b>	joimax® VESA Wall Mount for 42" TFT
<b>FSMBV101</b>	Monitor Base for JFMS2400
<b>FSMBV102</b>	Monitor Base for JFMS2600
<b>FSRA400S</b>	joimax® VESA Adaptor Plate VESA 100/75 Adapter for Mounting on Holding System, Distance between Holes 75 mm, light grey (RAL 9022)

### JFMS 2420



- > High-Definition resolution 1920 x 1080 Pixel, Full HD compatible
- > High depth of field
- > Superior image brightness
- > Brilliance of the images
- > Picture in Picture
- > Touch Control Panel
- > Video Inputs: DVI, VGA, S-VHS, FBAS





## Medical Displays & Endoscopic Trolley

REF	Description
-----	-------------

<b>JEST1290</b>	joimax® Endoscopic Trolley with isolating transformer 1200 VA, four shelves, one drawer, complete pre-wiring, sub-assembly system, infusion rod
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<b>JEST1300</b>	joimax® Endoscopy Trolley, Monitor Trolley with isolating transformer 1200 VA, with three shelves, pre-wired
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## Accessories

REF	Description
<b>JMKB00002</b>	joimax® Medical Keyboard
<b>JMMO00001</b>	joimax® Medical Mouse
<b>ICDV4710J</b>	joimax® DVD+R 4.7 GB special coated, 20 years of data integrity, for medical use, with slimline case
<b>ICCD0730</b>	joimax® CD-R 700 MB special coated, 20 years of data integrity, for medical use, with slimline case
<b>JMUSBS20</b>	joimax® USB Flash Drive 4 GB
<b>JMUSBS10</b>	joimax® USB Flash Drive 16 GB
<b>JMHDD500</b>	External Hard Drive 500 GB                      Hard Drive 2.5 / 500 GB with 2 m USB Cable
<b>JDC1900</b>	joimax® Display Cover 19"
<b>JDC2400</b>	joimax® Display Cover 24"
<b>JDC3200</b>	joimax® Display Cover 32"
<b>JDC4200</b>	joimax® Display Cover 42"
<b>JMTOOL001</b>	joimax® Tool Kit
<b>CSCC1223</b>	C-Camsource® Camera Cable Cover, telescopic folded with perforation and adhesive tape                      L 230 cm / W 12.5 cm





## X-ray Protection

A

REF	Description
<b>JVX-S810A</b>	joimax® Radiation Protective Apron incl. Monogram
<b>JVX-S840H3</b>	joimax® Radiation Protective Half Apron
<b>JVX-830VS</b>	joimax® Radiation Protective Vest / Skirt incl. Monogram

### Description

- > Worn over the scrub suit and under the OR gown
- > Designed for quick removal without breaking the sterile field after X-ray procedures are completed
- > Tungsten with 0.50 mm Pb equivalency



### Men's Size

Size	Width in cm	Euro Suit	UK Suit	Chest in cm	Length in cm
Small	61	46	36	86-90	115
Medium	61	48-50	38-40	91-98	115
Large	61	52-54	42-44	99-107	115
X-Large	63	56-58	44-48	108-115	115
XX-Large	66	58-62	48-54	116-130	115

### Women's Size

Size	Width in cm	Euro Suit	UK Suit	Chest in cm	Length in cm
X-Small	51	34-36	6-8	80-84	110
Small	56	36-38	10-12	85-89	110
Medium	56	40-42	14-16	90-94	110
Large	61	42-44	18-20	95-107	110
X-Large	63	46-50	20-22	108-115	110

- > Width dimensions measured at hip
- > Length measured from shoulder to bottom edge
- > Available in different colors and configurations



## OR Clothing

REF	Description
<b>JVX-BLT300</b>	joimax® Radiation Protective Glasses
<b>JVXBLTBF</b>	Cut Glasses, bifocal
<b>JVXBLTMF</b>	Cut Glasses, monofocal



<b>JVX-S840T</b>	joimax® Thyroid Collars incl. Monogram
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<b>JVX-S940GL</b>	joimax® Radiation Protective Gloves
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- > Excellent anatomic fit
- > Abrade surface for excellent grip
- > Made of less protein natural rubber, powder-free
- > No toxic materials, therefore no hazardous waste