



**Orthopedics**

## Orthopedics

1

**Knee**

2

**Shoulder**

3

**Hip**

4

**Elbow / Foot**

5

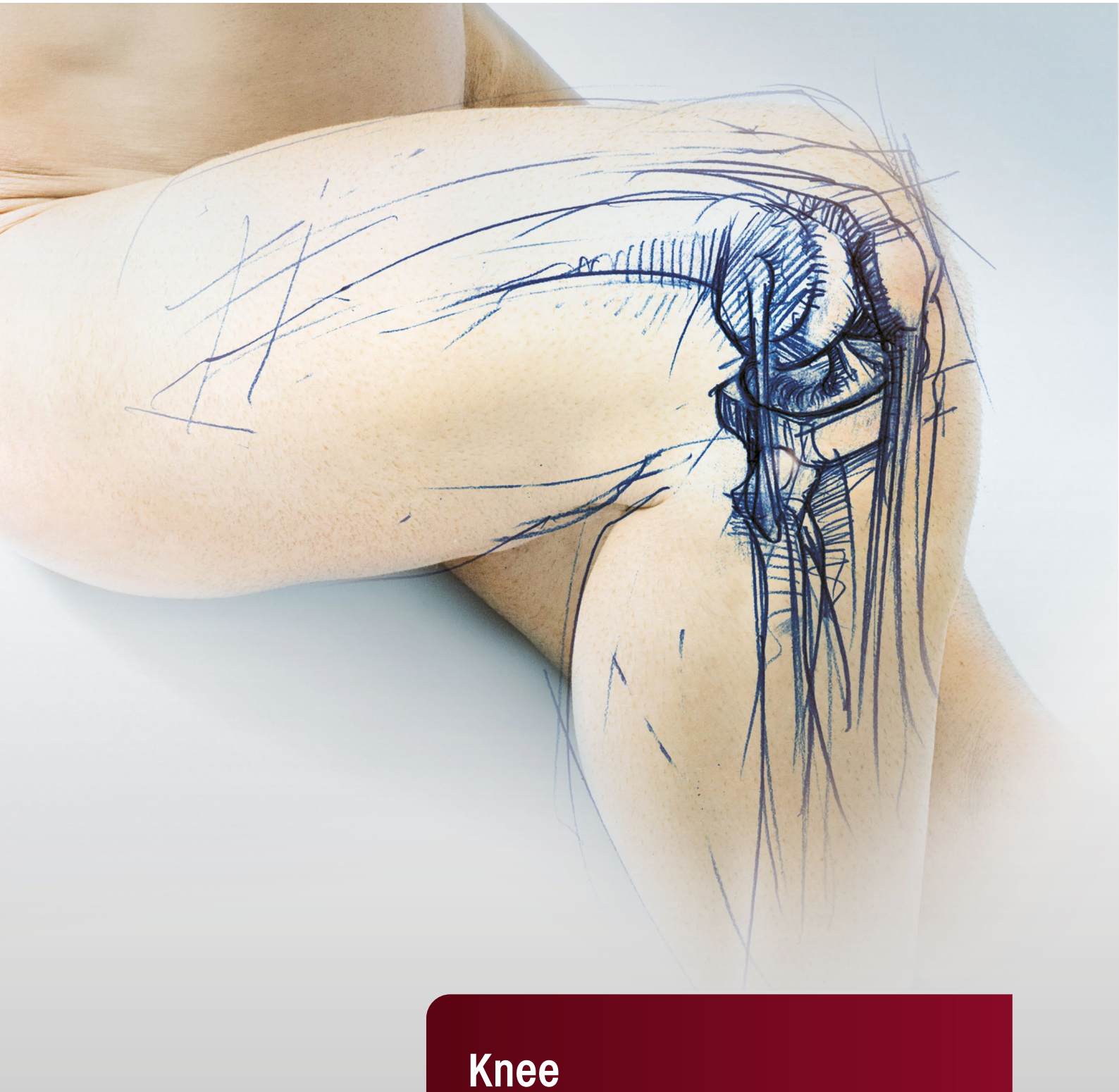
**Hand / Fingers / Toes**

6

**FLUID MANAGEMENT Suction and Irrigation Pumps**

7

**Universal Motor Systems**



# Knee

## Knee

1.1

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**Standard Equipment**

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1.2

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**Meniscal and Soft Tissue Resection / Extraction**

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1.3

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**Meniscus Refixation**

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1.4

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**Treatment of Cartilage Defects**

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1.5

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**Cruciate Ligament Reconstruction**

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1.6

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**Leg Holders**

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# Basic Equipment

for diagnostic and operative arthroscopy

Product	Product no.	Quantity	Catalog / Section
<b>Endoscopes and Instruments</b>			
PANOVIEW telescope 30° Ø 4mm SL 170mm	<b>8880.543</b>	1	Orthopedics / Knee
Sheath for arthroscope OD 6mm	<b>89121.1260</b>	1	Orthopedics / Knee
Obturator for arthroscope OD 5.5/6/6.3mm	<b>89121.0542</b>	1	Orthopedics / Knee
Fiber light cable bndl, Ø 3.5 mm, 2.3 m long	<b>806635231</b>	1	Orthopedics / Knee
Hook probe WL 115mm H 4.5mm	<b>8399.95</b>	1	Orthopedics / Knee
ARTHROline punch W 4.6mm H 1.6mm, straight sheath	<b>89140.0102</b>	1	Orthopedics / Knee
ARTHROline punch W 5.5mm H 1.6mm, sheath curved to the left	<b>89140.0101</b>	1	Orthopedics / Knee
ARTHROline punch W 5.5mm H 1.6mm, sheath curved to the right	<b>89140.0103</b>	1	Orthopedics / Knee
ARTHROline hook punch W 3mm H 1.6mm, straight sheath	<b>89140.0202</b>	1	Orthopedics / Knee
Grasping forceps Ø 3.4mm	<b>8488.096</b>	1	Orthopedics / Knee
Meniscus grasping forceps Ø 4/7mm	<b>8403.001</b>	1	Orthopedics / Knee
<b>Treatment of Cartilage Defects – Microfracture</b>			
Curette, round, Ø 4.5mm WL 95mm	<b>8435.902</b>	1	Orthopedics / Knee
Curette, round, Ø 6mm WL 95mm	<b>8435.903</b>	1	Orthopedics / Knee
Microfractor WL 170mm 15°	<b>891631521</b>	1	Orthopedics / Knee
Microfractor WL 170mm 30°	<b>891633021</b>	1	Orthopedics / Knee
Microfractor WL 170mm 35°	<b>891633522</b>	1	Orthopedics / Knee
Microfractor WL 170mm 45°	<b>891634521</b>	1	Orthopedics / Knee
Microfractor WL 170mm 60°	<b>891636021</b>	1	Orthopedics / Knee
<b>Shaver Set</b>			
PowerSpeed AS1 MOTOR CONTROL UNIT 2305	<b>2305001</b>	1	Orthopedics / Motor Systems
Remote footswitch 2 pedals+2 buttons	<b>2305100</b>	1	Orthopedics / Motor Systems
Motor handpiece max. 16000rpm	<b>8995500031</b>	1	Orthopedics / Motor Systems
Resector toothed Ø 4.5mm	<b>89975.0034</b>	1	Orthopedics / Motor Systems
Resector oval, Ø 4.5mm	<b>89975.0114</b>	1	Orthopedics / Motor Systems
Resector aggress Ø 4.7mm	<b>89975.0334</b>	1	Orthopedics / Motor Systems
Acromionizer Ø 5.5mm	<b>89975.0555</b>	1	Orthopedics / Motor Systems
<b>Fluid Management</b>			
FLUID CONTROL arthro/spine suc./irrig.pump bndl	<b>22040011</b>	1	Orthopedics / FLUID CONTROL Suction irrigation pump
Irrigation tube set spike L 3m	<b>4171223</b>	1	
<b>Imaging</b>			
ENDOCAM Logic HD Camera Controller bndl	<b>55251051</b>	1	Imaging / ENDOCAM
ENDOCAM Logic HD camera head cable 3 m	<b>85525922</b>	1	Imaging / ENDOCAM
RIWO zoom lens F 13–29mm	<b>85261504</b>	1	Imaging / ENDOCAM
Light source LED 2.2 bndl	<b>51640011</b>	1	Imaging / Light Sources
Light source LED 1.1 bndl	<b>51600011</b>	1	Imaging / Light Sources
LCD monitor 27" 4K	<b>LMD-X2705N</b>	1	Imaging / Monitors
Monitor mount VESA 75/100	<b>321165001</b>	1	Imaging / Device Carts

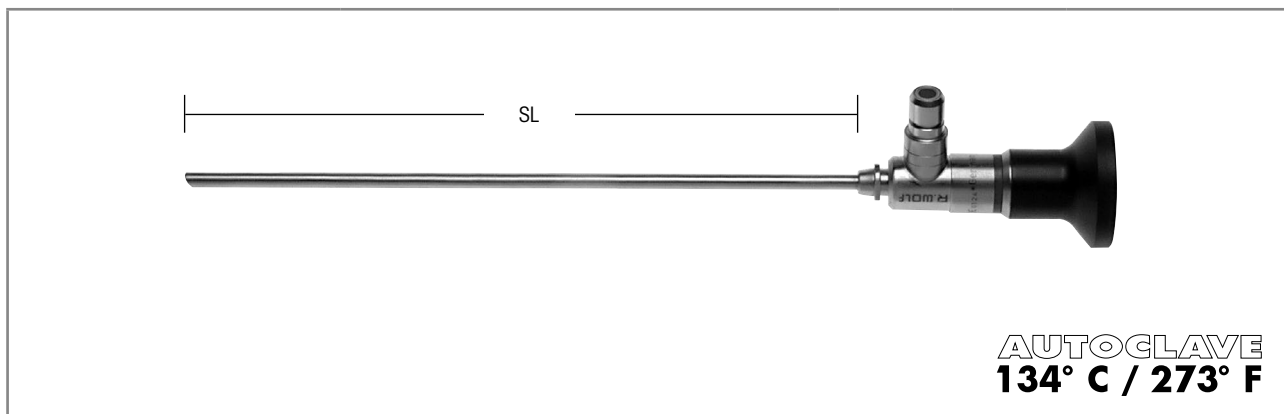
## Overview


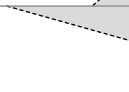
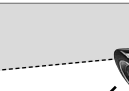
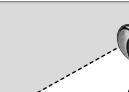
Knee  
1.1

arthro <i>lution</i>			Fingers, toes	Hand	Foot, elbow		Knee, shoulder, hip
Telescope Ø			1.9 mm	2.4 mm	2.7 mm		4.0 mm
Telescopes	30°	PANOVIEW telescope	<b>8860453</b>	<b>8871413</b>	<b>8476.433</b>	<b>8672.422</b>	<b>8880.543</b>
		PANOVIEW wide angle telescope					<b>8885.443</b>
	70°	PANOVIEW telescope					<b>8880.545</b>
		PANOVIEW wide angle telescope					<b>8885.445</b>
Sheath WL			40 mm	60 mm	77.5 mm	145 mm	130 mm
Sheaths	with 1 irrigation stopcock, fixed		<b>891220124</b>	<b>891220132</b>			
	with 2 irrigation stopcocks, fixed						<b>89121.0260</b>
	with 1 irrigation stopcock, rotatable					<b>891241141</b>	
	with 2 irrigation stopcocks, rotatable			<b>891221232</b>	<b>891221241</b>	<b>891241241</b>	<b>89121.1260</b>
	High-Flow with 1 irrigation stopcock, fixed		<b>891220128</b>				
	High-Flow with 2 irrigation stopcocks, rotatable			<b>891221235</b>			<b>89121.1263</b>
	Small-caliber with 2 irrigation stopcocks, rotatable						<b>891221255</b>
Obturator	blunt				<b>891222754</b>		<b>89121.0544</b>
	semi-blunt		<b>891221952</b>	<b>891222452</b>			<b>89121.0542</b>
	conical blunt				<b>891222750</b>	<b>891242750</b>	<b>89121.0540</b>
	sharp					<b>891242761</b>	<b>89121.0640</b>
	conical pointed		<b>891221962</b>	<b>891222462</b>	<b>891222762</b>		
Sealing part for sheath						<b>891040000</b>	

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# Arthroscope with PANOVIEW Telescope Ø 4 mm



Direction of view		SL	Ø	Product no.
	PANOVIEW telescope 0° Ø 4mm SL 170mm	170 mm	4.0 mm	<b>8880.541</b>
	PANOVIEW telescope 30° Ø 4mm SL 170mm			<b>8880.543</b>
	PANOVIEW telescope 45° Ø 4mm SL 170mm			<b>8880.544</b>
	PANOVIEW telescope 70° Ø 4mm SL 176mm	176 mm		<b>8880.545</b>

Recommended accessories		Product no.
<b>Reprocess basket</b>	(W x H x D) 287 x 54 x 59 mm	<b>38020.111</b>
<b>Fiber light cable bndl</b> Comprising: Fiber light cable (80663523), adapter, projector to light cable (8095.07), and adapter, light cable to endoscope (809509)	Ø 3.5 mm, 2.3 m long	<b>806635231</b>

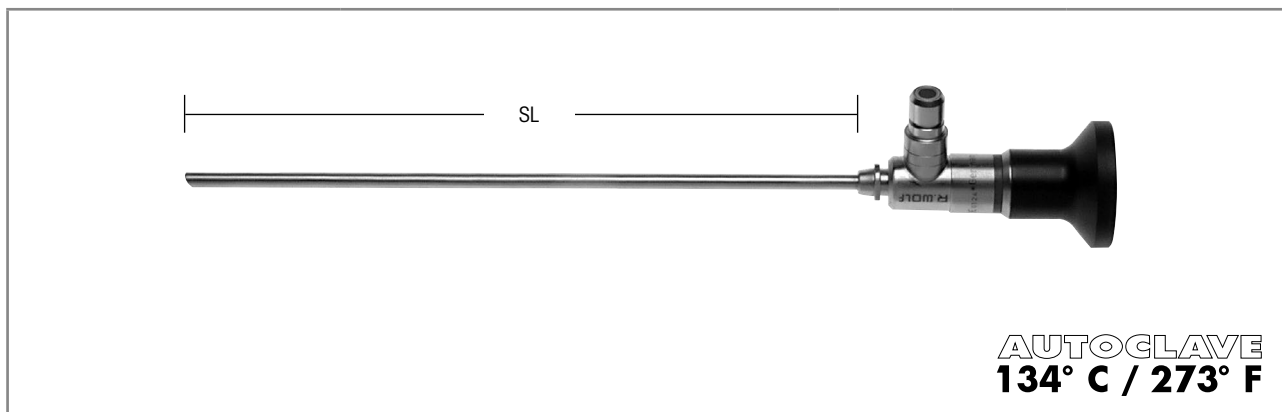
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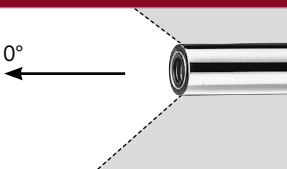
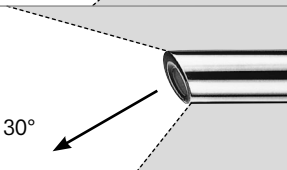
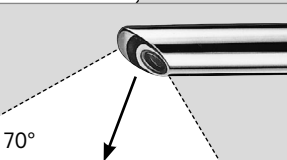
Knee  
1.1

# Arthroscope with PANOVIEW Wide Angle Telescope

Knee

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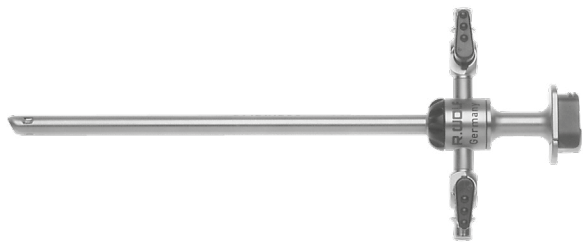

Direction of view		SL	Ø	Product no.
 <p>0°</p>	<p>PANOVIEW Wide angle telescope 0° Ø 4mm SL 171mm</p>	171 mm	4.0 mm	<b>8885.441</b>
 <p>30°</p>	<p>PANOVIEW Wide angle telescope 30° Ø 4mm SL 170mm</p>	170 mm		<b>8885.443</b>
 <p>70°</p>	<p>PANOVIEW Wide angle telescope 70° Ø 4mm SL 176mm</p>	176 mm		<b>8885.445</b>

Recommended accessories		Product no.
<b>Reprocess basket</b>	(W x H x D) 287 x 54 x 59 mm	<b>38020.111</b>
<b>Fiber light cable bndl</b> Comprising: Fiber light cable (80663523), adapter, projector to light cable (8095.07), and adapter, light cable to endoscope (809509)	Ø 3.5 mm, 2.3 m long	<b>806635231</b>



# arthro<sup>lution</sup> Sheath for Arthroscope

with automatic click-lock mechanism

										
							<b>Sheath for arthroscope OD 6mm</b>			
High-Flow	Small-caliber	2 fixed stopcocks	2 rotatable stopcocks	Outer Ø	WL	Product no.				
		●		6.0 mm	132 mm	<b>89121.0260</b>	<b>89121.0544</b>	<b>89121.0542</b>	<b>89121.0540</b>	<b>89121.0640</b>
			●	6.0 mm	130 mm	<b>89121.1260</b>				
●			●	6.3 mm	130 mm	<b>89121.1263</b>				
	●		●	5.5 mm	130 mm	<b>891221255</b>				

Spare parts	Product no.
Irrigation ring with 1 stopcock	<b>150081761</b>
Irrigation ring with 2 stopcocks	<b>150081762</b>
Stopcock insert, bundle, cap 3.0mm (PACK= 5 PCS) Also: Disassembly tool	<b>896.0002</b> <b>38310.0001</b>
Mounting ring	<b>15008.1704</b>
Spare sealing comprising: O-rings, small / large, 5 of each Also: O-ring tool (disassembly tool)	<b>15176.142</b> <b>15106.230</b>

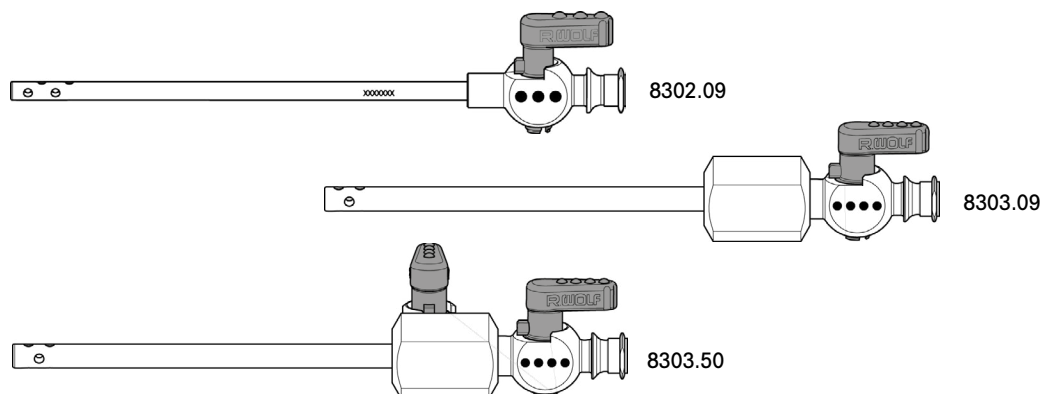
Recommended accessories	Product no.
Sealing part for sheath	<b>89101.0000</b>
Marking rod Ø 4.0mm conical blunt TL 325 mm	<b>8863.75</b>








Knee

1.1

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# Drainage Cannula Ø 2.3 mm / 3.7 mm




Drainage for cannula and obturator		Capacity	Ø	WL	Product no.
<b>Drainage for cannula Ø 3.2 mm</b> WL 80 mm with 1 insufflation stopcock		2.3 mm	3.2 mm	80 mm	<b>8302.09</b>
<b>Drainage for cannula Ø 4.5 mm</b> WL 71.5 mm with 1 insufflation stopcock		3.7 mm	4.5 mm	71.5 mm	<b>8303.09</b>
<b>Drainage for cannula Ø 4.5 mm</b> WL 71.5 mm with 2 insufflation stopcocks		3.7 mm	4.5 mm	71.5 mm	<b>8303.50</b>
<b>Obturator for cannula OD 3.2 mm</b> sharp, with slanted tip		-	2.3 mm	103 mm	<b>8302.101</b>
<b>Obturator for cannula OD 3.2 mm</b> conical blunt tip		-	2.3 mm	103 mm	<b>8302.11</b>
<b>Obturator for cannula OD 4.5 mm</b> sharp, with pyramid-shaped tip		-	4.5 mm	115 mm	<b>8303.10</b>
<b>Obturator for cannula OD 4.4 mm</b> conical blunt tip		-	4.4 mm	115 mm	<b>8303.11</b>
Also:					
<b>Silicone tube</b> with Luer fitting 886.00	for Drainage for cannula 8302.09		Length 2.0 m		<b>8302.90</b>
<b>Silicone tube</b> with Luer fitting 886.01	for Drainage for cannula 8303.09 / 50				<b>8303.90</b>


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## Hook Probe / Marking Rod




	H	WL	Product no.
<b>Hook probe WL 115mm H 7mm, graduated</b> 	7.0 mm	115 mm	<b>8399.901</b>
<b>Hook probe WL 115mm H 4.5mm, graduated</b> 	4.5 mm		<b>8399.95</b>



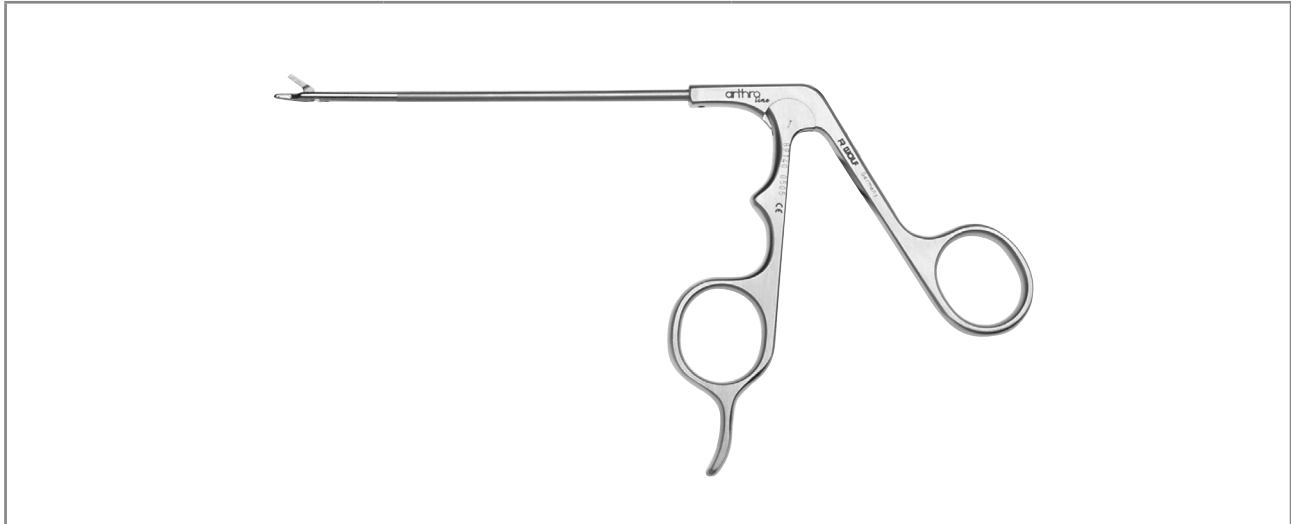
	Ø	TL	Product no.
<b>Hook probe TL 228 mm SZ 4.4mm</b> 	4.4 mm	228 mm	<b>8863.80</b>








	Ø	TL	Product no.
<b>Marking rod Ø 4.0mm conical blunt</b> 	4.0 mm	325 mm	<b>8863.75</b>

**arthro**  
*line* Punch

Versions

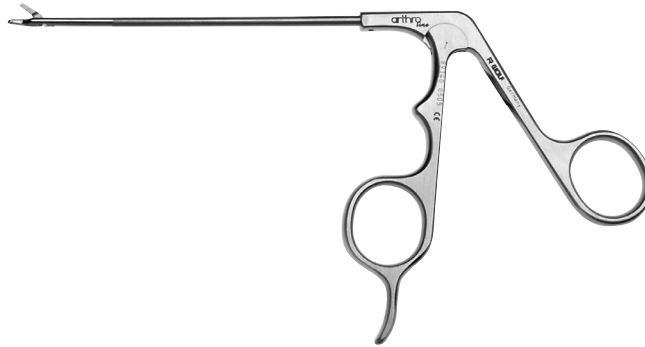












Version		Use
	<b>Straight</b>	For direct access
	<b>Jaws curved 15° upward</b>	Facilitates use, e.g., around the posterior horn
	<b>Sheath curved 15° upward</b>	Tailored to the anatomy of the condyles
	<b>Curved to the left</b>	Better access to the anterior and posterior meniscus
	<b>Curved to the right</b>	

Knee  
1.2



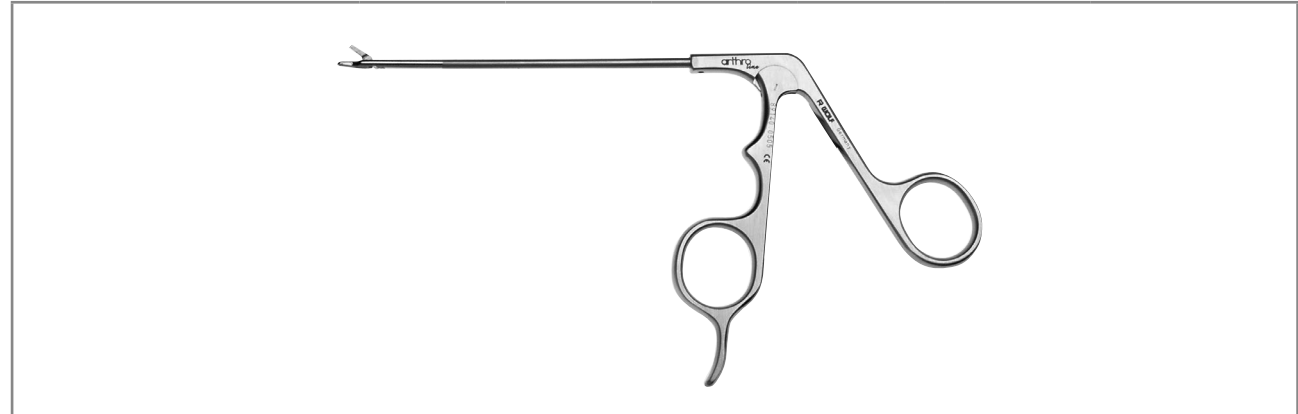
**arthro**  
*line* Punch



ARTHROline	Jaw section (Height x width)	Cut width	WL	Straight	Curved to the right	Curved to the left	Sheath curved upward	Jaw section curved upward	Product no.		
<b>Punch W 4.6mm H 1.6mm</b> movable jaw section serrated  Sectional view: 	1.6 x 4.6 mm	3.3 mm	120 mm	●					<b>89140.0105</b>		
<b>Punch W 4.6mm H 1.6mm</b> movable jaw section serrated  Sectional view: 								●	<b>89140.0102</b>		
<b>Punch W 4. mm H 1.6mm</b> movable jaw section serrated  Sectional view: 									●	<b>89140.0122</b>	
<b>Punch W 5.5mm H 1.6mm</b> movable jaw section serrated  Sectional view: 										●	<b>89140.0101</b>
<b>Punch W 5.5mm H 1.6mm</b> movable jaw section serrated  Sectional view: 										●	<b>89140.0103</b>

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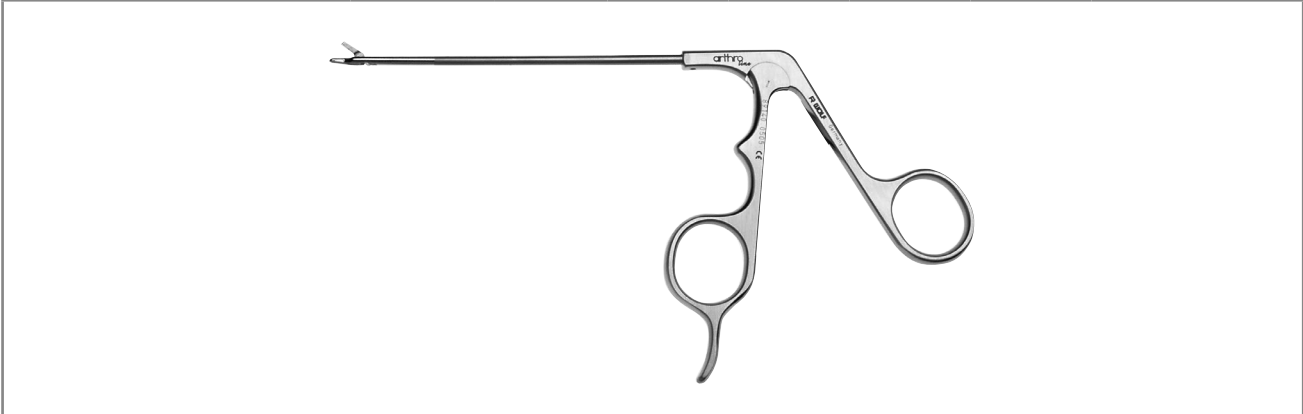
**arthro**  
*line* Hook Punch / Basket Punch











ARTHROline	Jaw section (Height x width)	Cut width	WL	Straight	Jaw section curved upward	Product no.
<b>Hook punch W 3mm H 1.6mm</b>  Sectional view: 	1.6 x 3.0 mm	1.8 mm	120 mm	●		<b>89140.0205</b>
<b>Hook punch W 3mm H 1.6mm</b>  Sectional view: 				●	<b>89140.0202</b>	
<b>Basket punch W 6.5mm H 2.1mm oval</b>  Sectional view: 	2.1 x 6.5 mm	4.5 mm		●		<b>89140.0305</b>
<b>Basket punch W 6.5mm H 2.1mm oval</b>  Sectional view: 				●	<b>89140.0302</b>	
<b>Hook punch W 4mm H 2.1mm</b>  Sectional view: 	2.1 x 4.0 mm	2.1 mm		●		<b>89140.0405</b>
<b>Hook punch W 4 mm H 2.1mm</b>  Sectional view: 				●	<b>89140.0402</b>	

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arthroline Punch / Scissors Punch






ARTHROline	Jaw section (Height x width)	Cut width	WL	Straight	Retrograde cutting	Jaw section curved upward	Product no.
<b>Scissors punch W 2.4mm H 2.1 mm</b>  Sectional view: 	2.1 x 2.4 mm	0.9 mm	120 mm	●			<b>89140.0505</b>
<b>Scissors punch W 2.4mm H 2.1 mm</b>  Sectional view: 					●		<b>89140.0502</b>
<b>Punch W 5.7mm H 4mm retrograde left-cutting</b>  Sectional view: 	4.0 x 5.7 mm	2.3 mm		●	left		<b>89140.0605</b>
<b>Punch W 5.7mm H 4mm retrograde right-cutting</b>  Sectional view: 				●	right		<b>89140.0602</b>

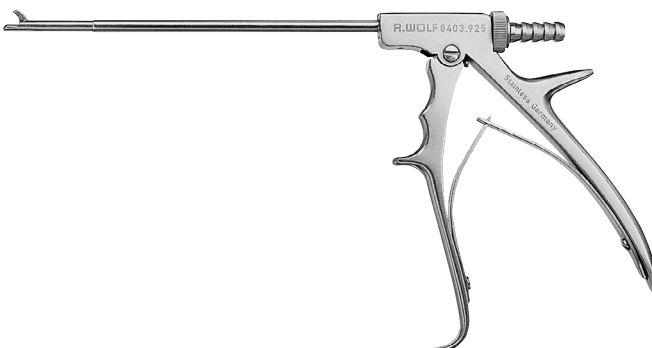
## Suction Punch / Suction Grasping Forceps with Integrated Suction Channel



Knee

1.2



With integrated suction channel	Ø	WL	Product no.
<b>Suction punch Ø 2.7mm</b>  can be dismantled	2.7 mm	110 mm	<b>89140.0027</b>
<b>Suction punch Ø 4.5mm</b>  can be dismantled	4.5 mm		<b>89140.0045</b>











With integrated suction channel	Sheath Ø	WL	Product no.
<b>Suction punch Ø 4.5mm straight</b> 	4.5 mm	130 mm	<b>8403.925</b>
<b>Suction grasping forceps straight</b> 			<b>8403.851</b>

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## Hook Punch / Punch






	Jaw section (Height x width)	Cut width	WL	Straight	Curved to the left	Curved to the right	Sheath curved 15° upward	Jaw section curved upward	Product no.	
<b>Hook punch Ø 3.4mm with shovel</b>	3.4 x 3.4 mm	1.6 mm	130 mm	●					8488.951	
					●					8488.952
						●				8488.953
Sectional view: 						●			●	8488.954
<b>Hook punch Ø 3.4mm</b>	3.4 x 3.4 mm	1.6 mm		●					8488.02	
									●	8488.025
Sectional view: 										
<b>Hook punch Ø 3.4mm serrated</b>	1.93 x 3.9 mm	2.7 mm		●					8488.121	
										●
Sectional view: 										
<b>Hook punch Ø 4.5mm with shovel, serrated</b>	1.73 x 5.4 mm	3.4 mm						●	8489.063	
										
Sectional view: 										

# Punch

Knee

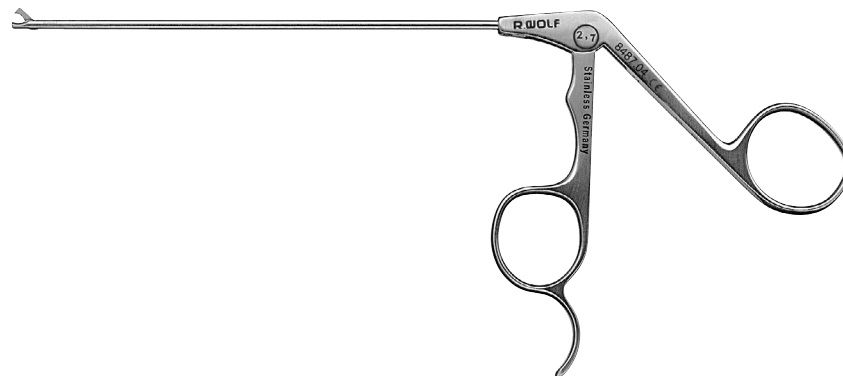
1.2








	Jaw section (Height x width)	Jaw section deflection	Cut width	WL	Product no.
<b>Punch Ø 3.4mm</b> front- and side-cutting   Sectional view: <input type="checkbox"/>	2.2 x 5.3 mm	90° left	3.4 mm	130 mm	<b>8404.017</b>
		90° right			<b>8404.018</b>
<b>Hook punch with shovel Ø 3.4mm</b>   Sectional view: <input type="checkbox"/>	2.1 x 2.0 mm	45° left	1.7 mm		<b>8404.71*</b>
		45° right			<b>8404.81*</b>

\* particularly suitable for lateral cutting and smoothing

# Scissors



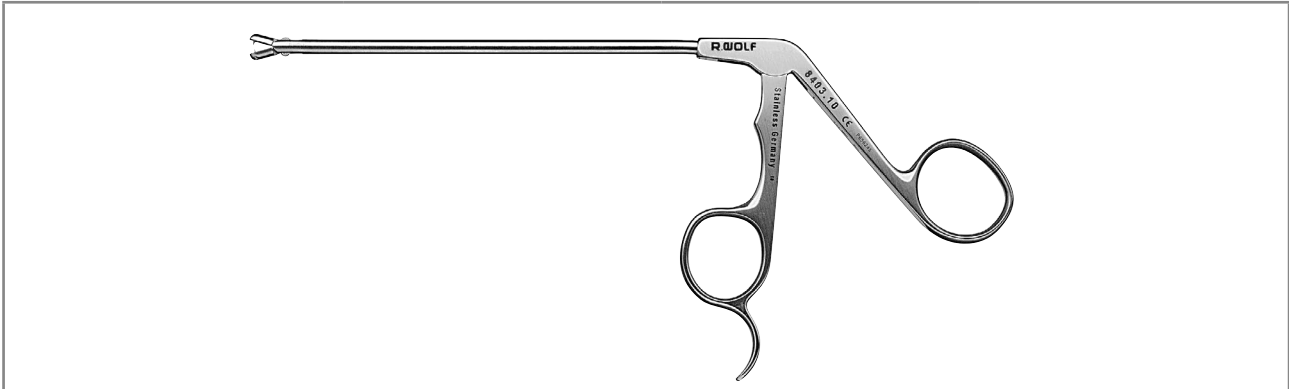
	WL	Straight jaw section	Straight sheath	Sheath curved to the left	Sheath curved to the right	Product no.	
<b>Hook scissors Ø 2.7mm</b> 	130 mm	●	●			<b>8487.04</b>	
<b>Hook scissors Ø 3.4mm</b> 		●	●			<b>8488.04</b>	
<b>Micro scissors Ø 3.4mm</b>  Sectional view: 		●		●		<b>8488.041</b>	
		●			●		<b>8488.042</b>
		●	●				<b>8488.051</b>
			●			●	<b>8488.052</b>
			●			●	<b>8488.053</b>
		WL	Jaw section deflection	Straight sheath		Product no.	
<b>Hook scissors Ø 3.4mm</b> 	130 mm	45° left		●	<b>8404.52</b>		
		45° right		●	<b>8404.62</b>		

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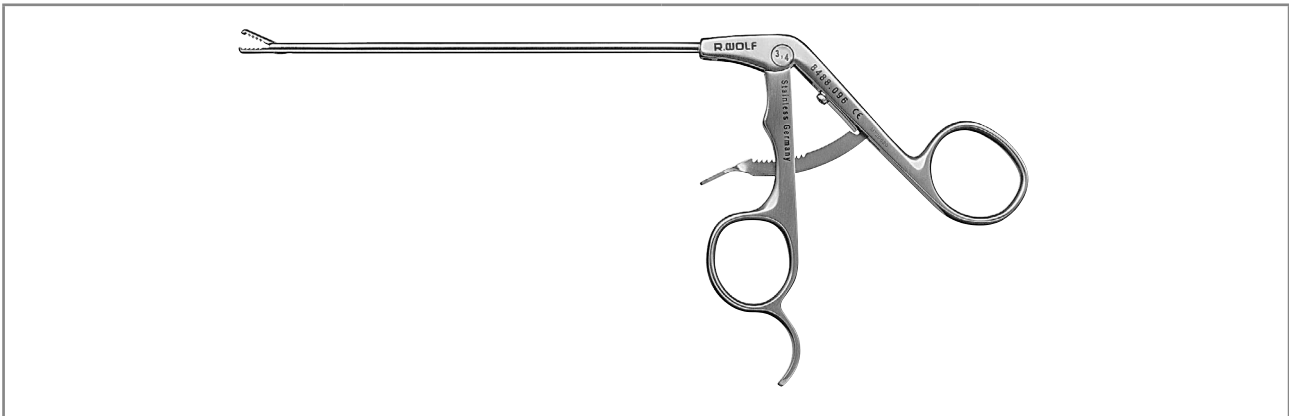
# Forceps

Knee

1.2



For retraction	Ø	WL	Product no.
<b>Biopsy forceps with spike</b> <b>Ø 4.5mm</b> smooth, double-action	4.5 mm	130 mm	<b>8403.10</b>

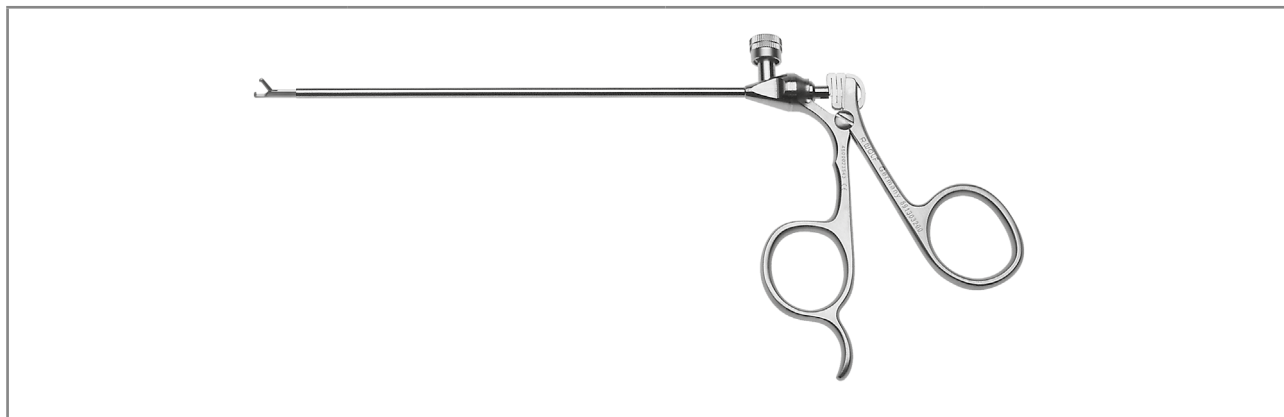



Handle with lock	Ø	WL	Product no.
<b>Grasping forceps Ø 3.4mm</b> straight jaw section, serrated	3.4 mm	130 mm	<b>8488.096</b>
<b>Grasping forceps Ø 4.5mm</b> straight jaw section, serrated	4.5 mm	134 mm	<b>8489.096</b>

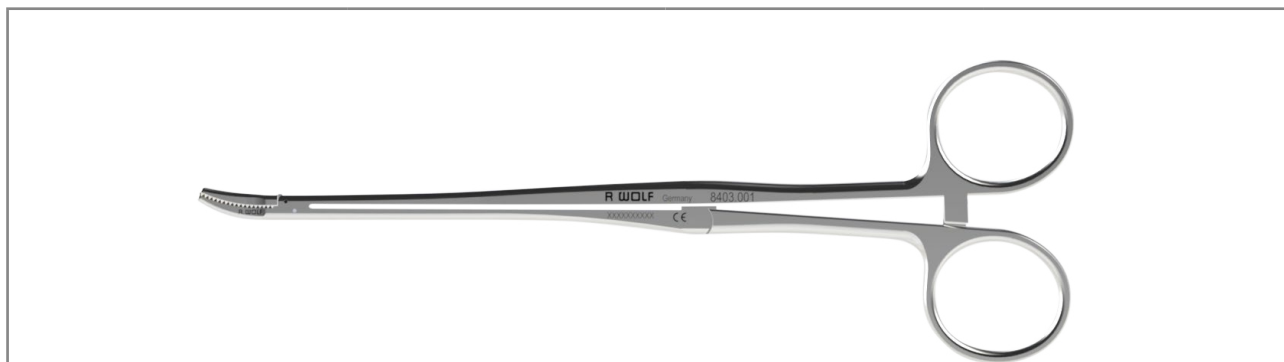






## Suture Grasping Forceps / Meniscus Grasping Forceps



	Ø	WL	Product no.
<b>Suture grasping forceps Ø 3.3mm</b> Straight 	3.3 mm	160 mm	<b>891303300</b>



Sheath with cleaning groove






	Ø	WL	Product no.
<b>Meniscus grasping forceps</b> <b>Ø 4/7mm</b> with gripping tooth 	4 / 7 mm	105 mm	<b>8403.00</b>
<b>Meniscus grasping forceps</b> <b>Ø 4/7 mm</b> 			<b>8403.001</b>

# Scalpel / Knife



Knee





1.2

	WL	Product no.
<b>Straight scalpel WL 125mm</b> 		<b>8436.101</b>
<b>Rosette knife WL 125mm</b> 		<b>8436.151</b>
<b>Hook knife WL 125mm</b> 	125 mm	<b>8436.201</b>
<b>Banana knife WL 125mm</b> 		<b>8436.251</b>
<b>Straight arthro knife WL 125mm</b> 		<b>8436.301</b>

# Hand Instruments

## Curette




	Ø	WL	Product no.
 Curette square Ø 4.5mm WL 170mm double-blade and curved upward	4.5 mm	170 mm	<b>891632245</b>
 Curette square Ø 5mm WL 170mm double-blade and curved upward	5.0 mm		<b>891632260</b>
 Curette round Ø 4.8mm WL 170mm double-blade and curved upward	4.8 mm		<b>891631255</b>
 Curette round Ø 6.3mm WL 170mm double-blade and curved upward	6.3 mm		<b>891631270</b>





# Hand Instruments

## Curette

Knee

1.3













		Inner Ø	WL	Product no.
<p><b>Curette, round Ø 3mm WL 95mm</b></p> <p>sharp at one end, curved upward, forward cutting</p> 		3.0 mm	95 mm	<b>8435.901</b>
<p><b>Curette, round Ø 4.5mm WL 95mm</b></p> <p>sharp at one end, curved upward, forward cutting</p> 		4.5 mm		<b>8435.902</b>
<p><b>Curette, round Ø 6mm WL 95mm</b></p> <p>sharp at one end, and curved upward, forward cutting</p> 		6.0 mm		<b>8435.903</b>
<p><b>Curette, round Ø 9mm WL 95mm</b></p> <p>sharp at one end, and curved upward, forward cutting</p> 		9.0 mm		<b>89160.1009</b>

# Hand Instruments

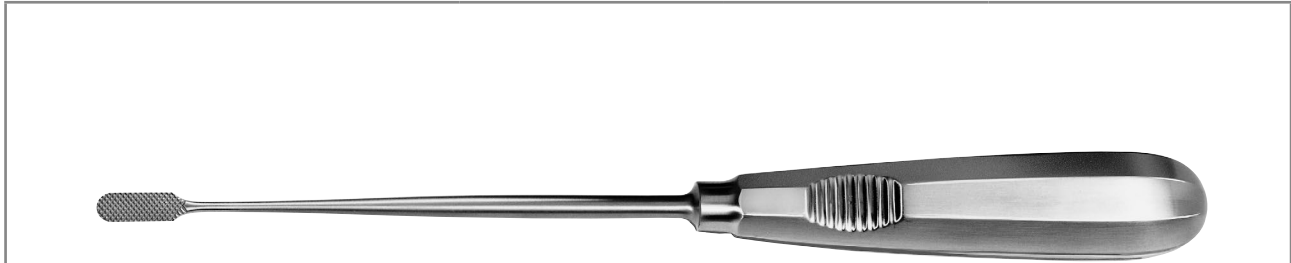
## Microfractor



	Deflection	WL	Product no.
<b>Microfractor</b> WL 170mm 15°	 Curved 15°	170 mm	<b>891631521</b>
<b>Microfractor</b> WL 170mm 30°	 Curved 30°		<b>891633021</b>
<b>Microfractor</b> WL 170mm 45°	 Curved 45°		<b>891634521</b>
<b>Microfractor</b> WL 170mm 35°	 35° S-shaped		<b>891633522</b>
<b>Microfractor</b> WL 170mm 60°	 Curved 60°		<b>891636021</b>
<b>Microfractor</b> WL 170mm 60°	 60° S-shaped		<b>891636022</b>
<b>Microfractor</b> WL 170mm 80°	 Curved 80°		<b>891638021</b>
<b>Microfractor</b> WL 65mm 30°	 Curved 30°	65 mm	<b>891643011</b>
<b>Microfractor</b> WL 65mm 45°	 Curved 45°		<b>891644511</b>
<b>Microfractor</b> WL 65mm 60°	 Curved 60°		<b>891646011</b>






# Hand Instruments

## Cartilage File, Spoon, Curette

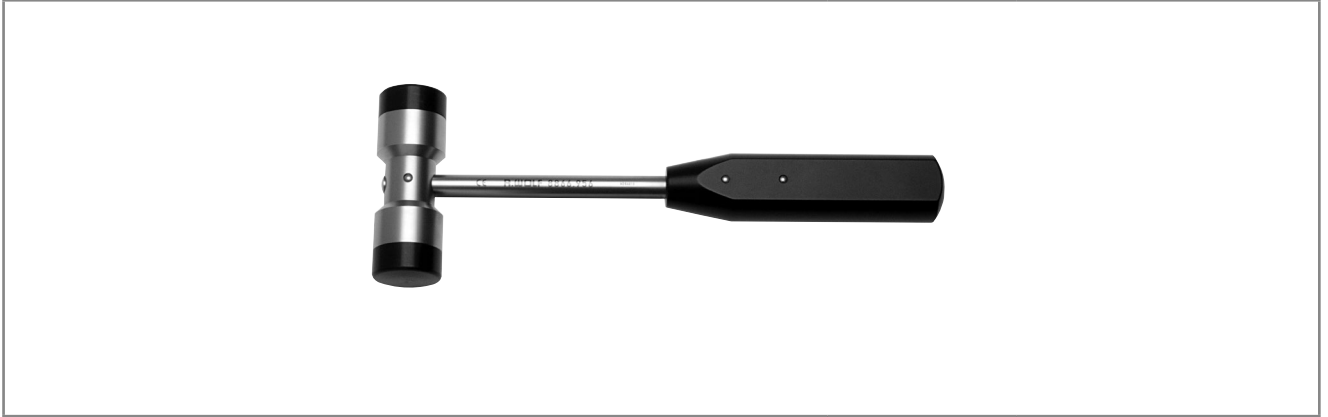


Knee

1.4

	Version	WL	Product no.
<p><b>Cartilage file straight WL 125mm W 6.25mm</b></p>  <p>rough</p>	Straight	125 mm	<b>8436.501</b>
<p><b>Cartilage file convex WL 125mm W 6.25mm</b></p>  <p>rough</p>	Convex		<b>8436.511</b>
<p><b>Cartilage file concave WL 125mm W 6.25mm</b></p>  <p>W 6.25 mm, rough</p>	Concave		<b>8436.521</b>
<p><b>Spoon Ø 6.5 x 10mm WL 125mm</b></p>  <p>rough</p>	Curved		<b>8436.601</b>
<p><b>Curette round Ø 5mm WL 125mm</b></p>  <p>double-blade</p>	Angled		<b>8436.701</b>

# ACL Hammer



	TL	Product no.
<b>ACL hammer TL 248mm</b>	<b>248 mm</b>	<b>8866.956</b>

Knee  
1.4

IV20 || Subject to modifications. Please note that some products may not be available in all countries. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

# graft<sup>line</sup>

## Instrument System

for arthroscopic cruciate ligament surgery



### Modular concept

The system's outstanding performance is provided by its unparalleled diversity and universality. **Graftline** offers highly specialized – and in some cases patented – technology for a huge range of surgical options.

- **Efficiency goes hand in hand.** Minimal handles and intuitive connection options for all instruments save on space and weight.
- **ACL and PCL in one instrument.** **Graftline** provides the instruments for anterior and posterior cruciate ligament plastic surgery in intelligent combinations.
- **Well prepared for optimum grip.** With the Graftline instruments and implants, the surgeon is perfectly prepared for all eventualities, for example, if reruptures occur.

### A choice of fixing options

**Graftline** allows the ideal fixation method to be selected for the cruciate ligament graft, without the need for major adjustments. We offer a tried-and-tested range of fixing implants.

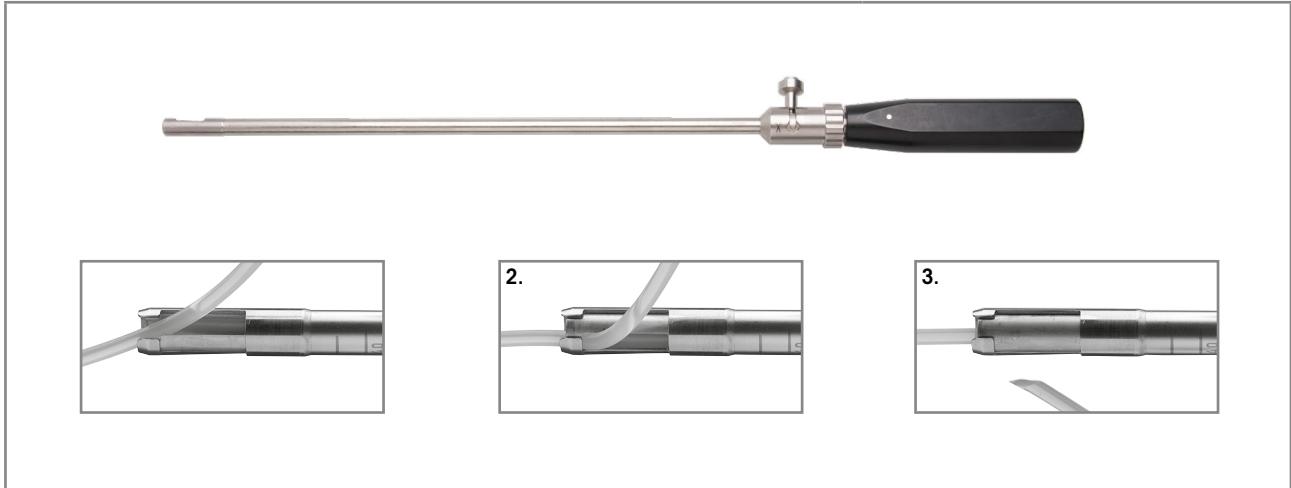
### Unique perspectives


**Graftline** gives surgeons access to all methodological channels – from standard techniques to innovative specific solutions. BTB, BT grafts, hamstrings, allografts, oval tunnel technique, and hollow-burr technique: one system – a wealth of possibilities.

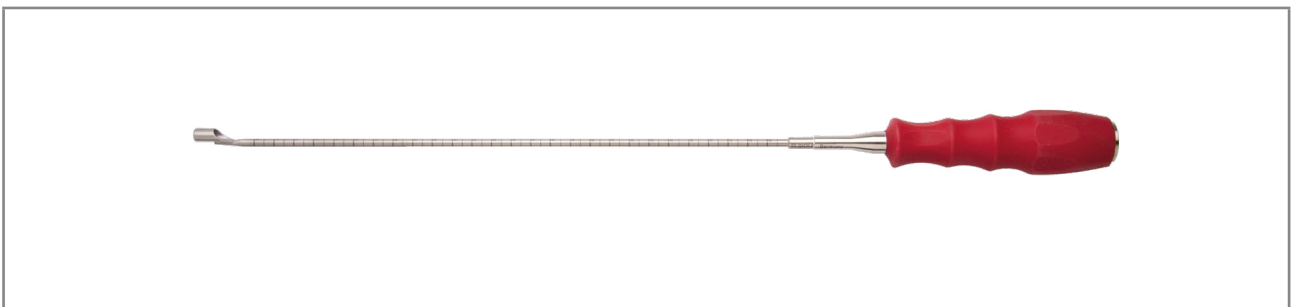


# Removal of an Autologous Tendon

## Semitendinosus Tendon and/or Gracilis Tendon












1. Retract		2. Secure		3. Sever	
		Ring Ø	WL	Product no.	
 <b>Tendon stripper, universal</b> <b>300mm, SZ8 mm</b>  by Pässler	<ul style="list-style-type: none"> <li>● Universal use: open / closable / cutting function</li> <li>● Blunt distal end</li> <li>● Can be disassembled</li> </ul>	8.0 mm	300 mm	<b>8866.951</b>	






		Ring Ø	WL	Product no.	
 <b>Tendon stripper, standard</b> <b>300 mm, size 7 mm</b>	<ul style="list-style-type: none"> <li>● Closed</li> <li>● Sharp distal end</li> </ul>	8.0 mm	300 mm	<b>891610070</b>	

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Knee  
1.4

			Product no.
<b>Preparation table</b> 		<ul style="list-style-type: none"> <li>Stable table design for efficient graft preparation</li> </ul>	<b>88669023</b>
<b>Transplant template SZ 5-13mm</b> oval-shaped tunnels D 5 x 10, D 6 x 12, D 7 x 14 		<ul style="list-style-type: none"> <li>Quick and simple determination of graft diameter</li> <li>Additional oval templates for precise determination of graft diameter for oval tunnels</li> </ul>	<b>8866953</b>
<b>Clamp insert</b> 		<ul style="list-style-type: none"> <li>Holds the clamps</li> </ul>	<b>8866962</b>
<b>Clamp small</b> TL 125mm		<ul style="list-style-type: none"> <li>Holds the graft during preparation</li> </ul>	TL 125 mm <b>8866938</b>
<b>Clamp large</b> TL 130mm			TL 130 mm <b>8866939</b>
<b>Hook clamp</b> 		<ul style="list-style-type: none"> <li>Holds a tendon loop for hamstring grafts</li> </ul>	<b>8866935</b>
<b>Parallel screw clamp</b> 		<ul style="list-style-type: none"> <li>Holds bone-tendon grafts</li> <li>Drill hole for shuttle suture possible via guide in the clamp screw</li> </ul>	<b>8866961</b>
<b>RIWObutton interface</b> 		<ul style="list-style-type: none"> <li>Holds the RIWObutton and similar implants</li> <li>Sets the loop length on the preparation table</li> </ul>	<b>8866969</b>
<b>Tendon transplantat</b> BT / BTB 6mm 		<ul style="list-style-type: none"> <li>Holds bone-tendon- and hamstring grafts (tendon knot – press-fit technique)</li> </ul>	Ø 6.0 mm <b>8866966</b>
			Ø 8.0 mm <b>8866968</b>
<b>Leading hook</b> 		<ul style="list-style-type: none"> <li>Holds a tendon loop for hamstring grafts → Pretensions the graft</li> </ul>	<b>8866936</b>

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	With coupling	Cannulated	Product no.
<b>Modular handle</b> Straight 		Inner Ø 3.5 mm	<b>893011135</b>
<b>Modular handle</b> impact / deflection plate 	●	Inner Ø 3.5 mm	<b>893011136</b>
<b>Modular handle ID 3.2mm</b> L-shaped 		Inner Ø 3.2 mm	<b>893011132</b>



891013 050/060/070/080/510/612/714



891014070/080/090/100

ACL		Size	Color coding	∅	WL	Product no.
 cannulated, for the anteromedial portal	ACL aiming device SZ 5mm	5 mm	blue	2.5 mm	120 mm	891013050
	ACL aiming device SZ 6mm	6 mm	green			891013060
	ACL aiming device SZ 7mm	7 mm	red			891013070
	ACL aiming device SZ 8mm	8 mm	none			891013080
 cannulated, for the anteromedial portal	ACL aiming device SZ 5x10mm	oval 5 x 10 mm	blue	2.5 mm	120 mm	891013510
	ACL aiming device SZ 6x12mm	oval 6 x 12 mm	green			891013612
	ACL aiming device SZ 7x14mm	oval 7 x 14 mm	red			891013714
 cannulated, for the transtibial portal	ACL aiming device AT SZ 5mm	5 mm	blue	2.5 mm	120 mm	891015050
	ACL aiming device AT SZ 6mm	6 mm	green			891015060
	ACL aiming device AT SZ 7mm	7 mm	red			891015070
<b>PCL</b>						
 cannulated, for the anteromedial portal	PCL aiming device AL SZ 7mm	7 mm	red	2.5 mm	120 mm	891014070
	PCL aiming device AL SZ 8mm	8 mm	none			891014080
	PCL aiming device AL SZ 9mm	9 mm	yellow			891014090
	PCL aiming device AL SZ 10mm	10 mm	white			891014100

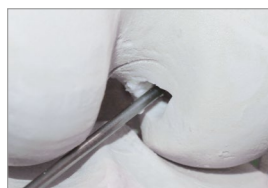
● For use with the modular handles

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graft<sub>line</sub>

Preparing the Femoral Tunnel  
Instruments

**UniCracker**



For use with the modular handles

WL

Product no.

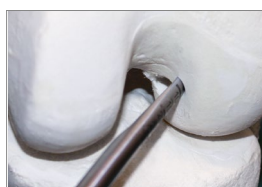


**Univ. tunnel notcher**  
Ø 4–9 mm WL 130mm

Impacting chisel for indentation of the tunnel  
from Ø 4 to 9 mm, cannulated 2.5 mm

130 mm

**891611110**



For use with the modular handles

WL

Product no.

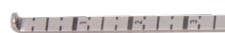


**Notch chisel WL 130mm**  
one-sided grinding  
cannulated, Ø 2.5 mm

Gentle graft fixation when using interference screws

130 mm

**891511000**



**Tunnel probe WL 140 mm**  
graduated

For determining the length of the femoral tunnel –  
particularly when using the RIWObutton  
to determine the loop length

WL

Product no.


140 mm


**891510012**




## Preparing the Femoral Tunnel

Instruments for preparing oval tunnels





For use with the modular handles			Size	Color coding	WL	Product no.
 <b>Tunnel rasp</b> oval, cannulated Ø 2.5 mm	<b>Tunnel rasp</b> Ø 5 x 10mm WL 130mm	For preparing the oval-shaped femoral tunnel on the joint side	5 x 10 mm	blue	130 mm	<b>891611101</b>
	<b>Tunnel rasp</b> Ø 6 x 12mm WL 130mm		6 x 12 mm	green		<b>891611102</b>
	<b>Tunnel rasp</b> Ø 7 x 14mm WL 130mm		7 x 14 mm	red		<b>891611103</b>




			∅	WL	Product no.
 <p><b>Compactor</b> cannulated ∅ 2.5 mm graduated</p>	<b>Compactor SZ 8</b>	Compacting the spongiosa during simultaneous, asymmetric formation of the femoral tunnel using a compactor head flattened at the side. For the positioning and press-fit anchorage of bone plugs for BT and BTB grafts. ● For use with the modular handles	8.0	290 mm	<b>891511708</b>
	<b>Compactor SZ 9</b>		9.0		<b>891511709</b>
	<b>Compactor SZ 10</b>		10.0		<b>891511710</b>
Also:					
	<b>Deflection sleeve</b>	For removal of compactors			<b>8868.992</b>
	<b>Tunnel stopper</b>	For the direct closure of tibial drill holes			<b>8868.941</b>

## Preparing the Tibial Tunnel




Hollow drill extension set for harvesting bone cylinders

Double-bundle ACL reconstruction		Product no.
 <p><b>Alignment arc ZG tibial ACL right</b> For the double-bundle technique on the right knee</p>	<p>The special shape of the respective aiming device takes into account the anatomical characteristics of the right and left knees.</p> <p>Two alignment wires are drilled in succession. Following the first drilling operation, the distal fork is created on the first alignment wire → the second alignment wire is drilled at a defined distance.</p>	<b>8874130</b>
 <p><b>Alignment arc ZG tibial ACL left</b> For the double-bundle technique on the left knee</p>		<b>88741301</b>

PCL reconstruction		Product no.
 <p><b>Alignment spoon ZG PCL</b></p>	<ul style="list-style-type: none"> <li>● The alignment spoon protects the dorsal structures when drilling the alignment wire</li> </ul>	<b>8874129</b>



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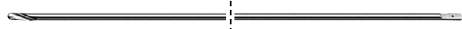
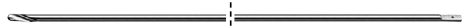

		WL	Ø	Product no.
 <p><b>Impactor, cannulated</b> For alignment wire / Kirschner wire Ø 2.5 mm</p>	Impactor Ø 5mm WL 150mm	150 mm	5.0 mm	<b>88660011</b>
	Impactor Ø 5.5mm WL 150mm		5.5 mm	<b>88660012</b>
	Impactor Ø 6.0mm WL 150mm		6.0 mm	<b>8866.001</b>
	Impactor Ø 6.5mm WL 150mm		6.5 mm	<b>8866.002</b>
	Impactor Ø 7.0mm WL 150mm		7.0 mm	<b>8866.003</b>
	Impactor Ø 7.5mm WL 150mm		7.5 mm	<b>8866.004</b>
	Impactor Ø 8.0mm WL 150mm		8.0 mm	<b>8866.005</b>
	Impactor Ø 8.5mm WL 150mm		8.5 mm	<b>8866.006</b>
	Impactor Ø 9.0mm WL 150mm		9.0 mm	<b>8866.007</b>
	Impactor Ø 9.5mm WL 150mm		9.5 mm	<b>8866.008</b>
	Impactor Ø 10.0mm WL 150mm		10.0 mm	<b>8866.009</b>
	Impactor Ø 10.5mm WL 150mm		10.5 mm	<b>8866.011</b>
Impactor Ø 11.0mm WL 150mm	11.0 mm	<b>8866.012</b>		
 <p><b>Stepped impactor, cannulated</b> For alignment wire / Kirschner wire Ø 2.5 mm</p>	Staged impactor Ø 8/5mm WL 150mm	150 mm	8/5 mm	<b>8866.014</b>
	Staged impactor Ø 9/6mm WL 150mm		9/6 mm	<b>8866.015</b>
	Staged impactor Ø 10/6mm WL 150mm		10/6 mm	<b>8866.016</b>
	Staged impactor Ø 11/6mm WL 150mm		11/6 mm	<b>8866.017</b>
	Staged impactor Ø 12/6mm WL 150mm		12/6 mm	<b>8866.018</b>
<b>Also:</b>			Dimensions	Product no.
	<b>TRAY W 412 mm H 33.5 mm</b> for impactor set based on Pässler	For storing and sterilizing up to 14 impactors	(L x W x H) 410 x 295 x 22 mm	<b>8866.982</b>

Knee  
1.5

graft<sup>line</sup>

## Preparing the Tibial Tunnel

Cannulated head drill

		WL	Ø	Product no.
  <b>Head drill</b> cannulated, Ø 2.65 mm TiN coating For alignment wire / Kirschner wire Ø 2.5 mm	Head drill Ø 4.5mm	145 mm	4.5 mm	<b>89960.1045</b>
	Head drill Ø 5mm		5.0 mm	<b>89960.1050</b>
	Head drill Ø 5.5mm		5.5 mm	<b>89960.1055</b>
	Head drill Ø 6mm		6.0 mm	<b>89960.1060</b>
	Head drill Ø 6.5mm		6.5 mm	<b>89960.1065</b>
	Head drill Ø 7mm		7.0 mm	<b>89960.1070</b>
	Head drill Ø 7.5mm		7.5 mm	<b>89960.1075</b>
	Head drill Ø 8mm		8.0 mm	<b>89960.1080</b>
	Head drill Ø 8.5mm		8.5 mm	<b>89960.1085</b>
	Head drill Ø 9mm		9.0 mm	<b>89960.1090</b>
	Head drill Ø 9.5mm		9.5 mm	<b>89960.1095</b>
	Head drill Ø 10mm		10.0 mm	<b>89960.1010</b>
	Head drill Ø 10.5mm		10.5 mm	<b>89960.1910</b>
	Head drill Ø 11mm		11.0 mm	<b>89960.1011</b>
	Head drill Ø 11.5mm		11.5 mm	<b>89960.1911</b>
Head drill Ø 12mm	12.5 mm	<b>89960.1012</b>		
Head drill Ø 12.5mm	12.5 mm	<b>89960.1912</b>		
Head drill Ø 13mm	13.0 mm	<b>89960.1013</b>		
 <b>Kirschner alignment wire Ø 2.5mm</b> triangular grinding		TL 300 mm without suture eyelet	2.5 mm	<b>89120.3025</b>
 <b>Kirschner alignment wire Ø 2.5mm</b> spiral grinding		TL 310 mm without suture eyelet	2.5 mm	<b>89960.1025</b>
 <b>Kirschner alignment wire Ø 2.5mm</b> spiral grinding		TL 430 mm with suture eyelet	2.5 mm	<b>89960.1125</b>





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graft<sup>line</sup>

Sterilization Basket for Instruments

Knee Arthroscopy

Sterilization – storage – transport

		Width mm	Total height mm	Depth mm	Product no.
 <p>For hand instruments, punches, telescopes, and meniscus instruments, etc.</p>	<p><b>Instrument basket knee basic tray</b> Comprising: Basket lower part, 2 instrument racks with support bars and silicone holders for "knee" basic instrument set, basket lid with spring lock and 2 handles</p>	530	150	250	<b>85841221</b>
 <p>For modular handles, ACL/PCL aiming devices, tendon strippers, hammers, etc.</p>	<p><b>Instrument basket ACL/PCL 1</b> Comprising: Basket lower part, 2 instrument racks with support bars and silicone holders as well as additional level for ACL/PCL 1 instruments, basket lid with spring lock and 2 handles</p>	530	150	250	<b>85841220</b>
 <p>For impactors, modular instruments, compressed air drill with hollow burr and accessories, etc.</p>	<p><b>Instrument basket ACL/PCL 2</b> Comprising: Basket lower part, 2 instrument racks with support bars and silicone holders for ACL / PCL 2 instruments, basket lid with spring lock and 2 handles</p>	530	150	250	<b>85841219</b>
 <p>For preparation table and accessories</p>	<p><b>Instrument sieve-workplate</b> Comprising: Basket lower part, 2 instrument racks with support bars and silicone holders for preparation table, basket lid with spring lock and 2 handles</p>	530	150	250	<b>85841218</b>

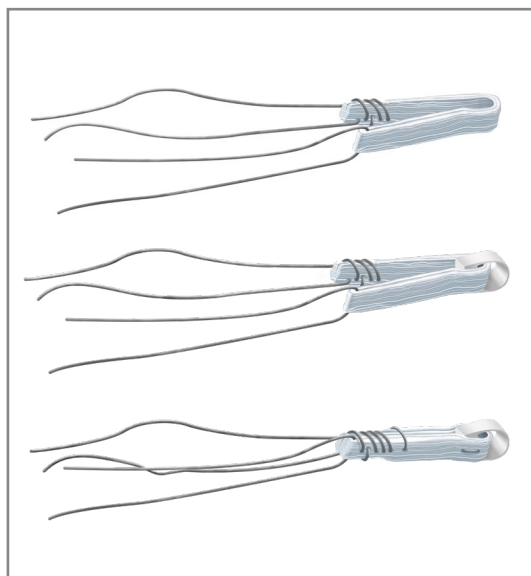
Suitable for standard container


graft<sup>line</sup>

Graft Fixation

Tendon anchor / RIWObutton

Tendon anchor		Size	Product no.
 <p><b>T-Lock OSTEOTRANS</b></p> <p>T-Lock OSTEOTRANS tendon anchor, sterile</p>		6	<b>OLRA-6</b>
		7	<b>OLRA-7</b>
		8	<b>OLRA-8</b>
		9	<b>OLRA-9</b>



RIWObutton		Ø	Loop length	Product no.
 <p><b>RIWObutton</b> sterile, for tendon fixation, 2 threads (green/white)</p>	<b>RIWObutton 15mm</b>	0.7 mm	15 mm	<b>491801015</b>
	<b>RIWObutton 20mm</b>		20 mm	<b>491801020</b>
	<b>RIWObutton 25mm</b>		25 mm	<b>491801025</b>

**BioactIF** OSTEOTRANS

"BK" interference screws\*



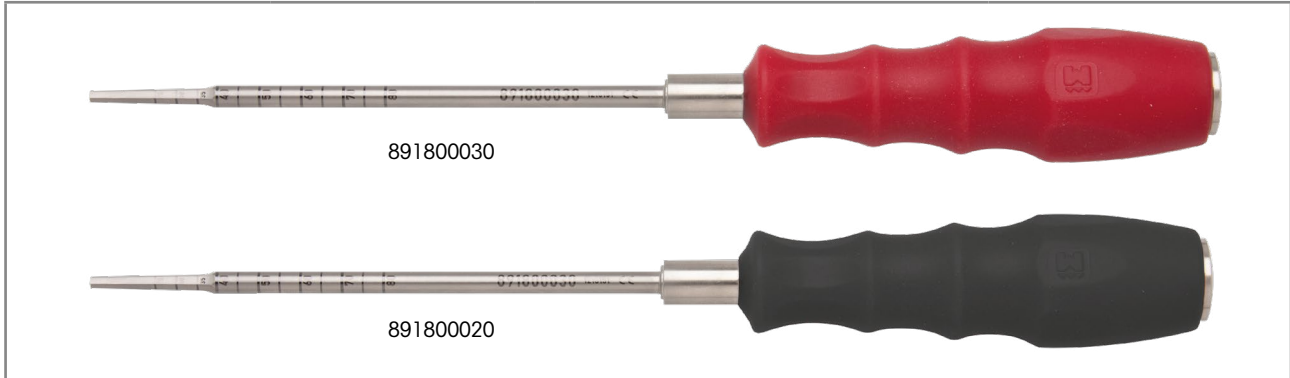
	Thread Ø	Length	Hole	Product no.
BioactIF OSTEOTRANS 6 X 20, sterile	6 mm	20 mm	1.7 mm	<b>BK0620</b>
BioactIF OSTEOTRANS 7 X 20, sterile	7 mm	20 mm		<b>BK0720</b>
BioactIF OSTEOTRANS 7 X 25, sterile		25 mm		<b>BK0725</b>
BioactIF OSTEOTRANS 7 X 30, sterile		30 mm		<b>BK0730</b>
BioactIF OSTEOTRANS 8 X 20, sterile	8 mm	20 mm		<b>BK0820</b>
BioactIF OSTEOTRANS 8 X 25, sterile		25 mm		<b>BK0825</b>
BioactIF OSTEOTRANS 8 X 30, sterile		30 mm		<b>BK0830</b>
BioactIF OSTEOTRANS 9 X 20, sterile	9 mm	20 mm		<b>BK0920</b>
BioactIF OSTEOTRANS 9 X 25, sterile		25 mm		<b>BK0925</b>
BioactIF OSTEOTRANS 9 X 30, sterile		30 mm		<b>BK0930</b>
BioactIF OSTEOTRANS 10 X 25, sterile	10 mm	25 mm		<b>BK1025</b>
BioactIF OSTEOTRANS 10 X 30, sterile		30 mm		<b>BK1030</b>
<b>Also:</b>				<b>Product no.</b>
<b>Screwdriver BK SZ 6MM</b>  for screw size 6 mm			Cannulated, color code black, graduated	<b>891800020</b>
<b>Screwdriver OK/BK SZ 7-11mm</b>  for screw size 7-11 mm			Cannulated, color code red, graduated	<b>891800030</b>



**BioactIF** OSTEOTRANS


"OK" interference screws\*




	Thread Ø	Length	Hole	Product no.
BioactIF OSTEOTRANS 7 X 25, sterile	7 mm	25 mm	2.2 mm	<b>OK0725A</b>
BioactIF OSTEOTRANS 7 X 30, sterile		30 mm		<b>OK0730A</b>
BioactIF OSTEOTRANS 8 X 25, sterile	8 mm	25 mm		<b>OK0825</b>
BioactIF OSTEOTRANS 8 X 30, sterile		30 mm		<b>OK0830</b>
BioactIF OSTEOTRANS 9 X 25, sterile	9 mm	25 mm		<b>OK0925</b>
BioactIF OSTEOTRANS 9 X 30, sterile		30 mm		<b>OK0930</b>
<b>Also:</b>				<b>Product no.</b>
Screwdriver OK/BK SZ 7 -11mm  for screw size 7-11 mm	Cannulated, color code red, graduated			<b>891800030</b>



Screwdriver		For interference screws with thread size	Product no.
	<b>Screwdriver OK/BK SZ 7 -11mm</b> cannulated, color code red, graduated	7-11 mm	<b>891800030</b>
	<b>Screwdriver BK SZ 6MM</b> cannulated, color code black	6 mm	<b>891800020</b>



Guide wire		Ø	TL	Product no.
	<b>Nitinol guide wire Ø 1.2mm</b>	1.2 mm	350 mm	<b>89120.2012</b>
	<b>Nitinol guide wire Ø 1.5mm</b>	1.5 mm		<b>89120.2015</b>
	<b>Nitinol guide wire Ø 2.0mm</b>	2.0 mm		<b>89120.2020</b>

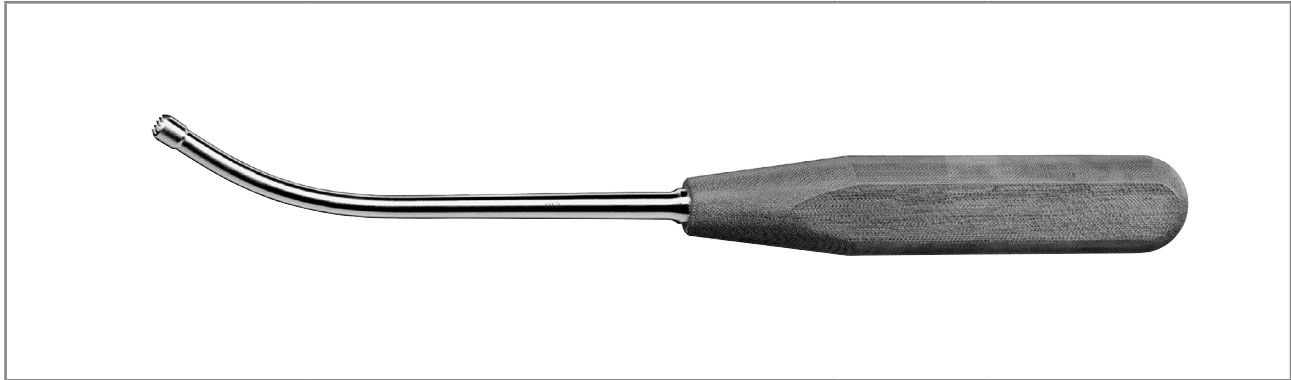



Thread cutter		For OK screws	Product no.
	<b>Thread cutter for OK screws SZ 7 mm</b>	Size 7 mm	<b>891800700</b>
	<b>Thread cutter for OK screws SZ 8 mm</b>	Size 8 mm	<b>891800800</b>
	<b>Thread cutter for OK screws SZ 9 mm</b>	Size 9 mm	<b>891800900</b>

graft<sup>line</sup>

Graft Fixation

Implant-free press-fit fixation for patella or quadriceps tendon



		WL	Product no.
 <p><b>Curved pusher, WL 110mm</b></p>	<p>Reimplantation and press-fit fixation of the bone plugs of BT and BTB grafts. Straight version available on request.</p>	<p>110 mm</p>	<p><b>8869.991</b></p>





## Shoulder

## Shoulder

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**1** Standard Equipment / Arthroscopes

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**2** ARTHROline Punches

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**3** Hook Probe / Marking Rod

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**4** Reconstructive Shoulder Arthroscopy

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## Basic Equipment

### for shoulder arthroscopy

Product	Product no.	Quantity	Catalog / Section
<b>Endoscopes and Instruments</b>			
PANOVIEW telescope 30° Ø 4mm SL 170mm	<b>8880.543</b>	1	Orthopedics / Shoulder
Fiber light cable bndl, Ø 3.5mm, 2.3m long	<b>806635231</b>	1	Orthopedics / Shoulder
Sheath for arthroscope OD 6mm	<b>89121.1260</b>	1	Orthopedics / Shoulder
Obturator for arthroscope OD 5.5/6/6.3mm tip, semi-blunt	<b>89121.0542</b>	1	Orthopedics / Shoulder
Hook probe WL 115mm H 4.5mm graduated	<b>8399.95</b>	1	Orthopedics / Shoulder
ARTHROline punch W 4.6mm H 1.6mm jaws curved upward	<b>89140.0102</b>	1	Orthopedics / Shoulder
ARTHROline punch W 5.5mm H 1.6mm jaws curved upward, sheath curved to the left	<b>89140.0103</b>	1	Orthopedics / Shoulder
ARTHROline punch W 4.6mm H 1.6mm jaw section serrated, sheath curved upward	<b>89140.0122</b>	1	Orthopedics / Shoulder
ARTHROline hook punch W 4mm H 21.1mm straight jaw section	<b>89140.0405</b>	1	Orthopedics / Shoulder

## Overview

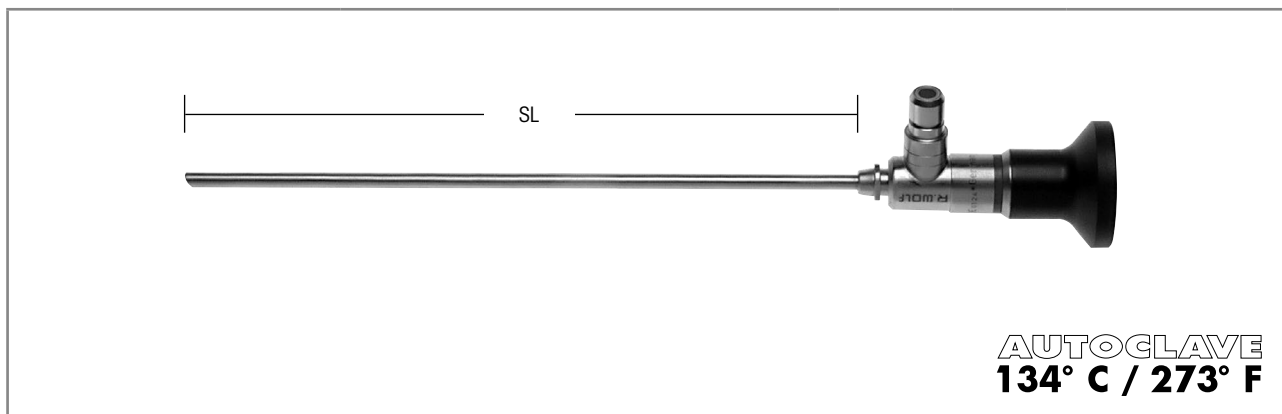
Shoulder

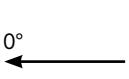


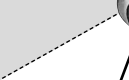
2.1

arthro <i>lution</i>			Fingers, toes	Hand	Foot, elbow		Knee, shoulder, hip
Telescope Ø			1.9 mm	2.4 mm	2.7 mm		4.0 mm
Telescopes	30°	PANOVIEW telescope	<b>8860453</b>	<b>8871413</b>	<b>8476.433</b>	<b>8672.422</b>	<b>8880.543</b>
		PANOVIEW wide angle telescope					<b>8885.443</b>
	70°	PANOVIEW telescope					<b>8880.545</b>
		PANOVIEW wide angle telescope					<b>8885.445</b>
Sheath WL			40 mm	60 mm	77.5 mm	145 mm	130 mm
Sheaths	with 1 irrigation stopcock, fixed		<b>891220124</b>	<b>891220132</b>			
	with 2 irrigation stopcocks, fixed						<b>89121.0260</b>
	with 1 irrigation stopcock, rotatable					<b>891241141</b>	
	with 2 irrigation stopcocks, rotatable			<b>891221232</b>	<b>891221241</b>	<b>891241241</b>	<b>89121.1260</b>
	High-Flow with 1 irrigation stopcock, fixed		<b>891220128</b>				
	High-Flow with 2 irrigation stopcocks, rotatable			<b>891221235</b>			<b>89121.1263</b>
	Small-caliber with 2 irrigation stopcocks, rotatable						<b>891221255</b>
Obturator	blunt				<b>891222754</b>		<b>89121.0544</b>
	semi-blunt		<b>891221952</b>	<b>891222452</b>			<b>89121.0542</b>
	conical blunt				<b>891222750</b>	<b>891242750</b>	<b>89121.0540</b>
	sharp					<b>891242761</b>	<b>89121.0640</b>
	conical pointed		<b>891221962</b>	<b>891222462</b>	<b>891222762</b>		
Sealing part for sheath						<b>891040000</b>	

IV20 || Subject to modifications. Please note that some products may not be available in all countries. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

# Arthroscope with PANOVIEW Telescope Ø 4 mm



Direction of view		SL	Ø	Product no.
	PANOVIEW telescope 0° Ø 4mm SL 170mm	170 mm	4.0 mm	<b>8880.541</b>
	PANOVIEW telescope 30° Ø 4mm SL 170mm			<b>8880.543</b>
	PANOVIEW telescope 45° Ø 4mm SL 170mm			<b>8880.544</b>
	PANOVIEW telescope 70° Ø 4mm SL 176mm	176 mm		<b>8880.545</b>

Recommended accessories		Product no.
<b>Reprocess basket</b>	(W x H x D) 287 x 54 x 59 mm	<b>38020.111</b>
<b>Fiber light cable bndl</b> Comprising: Fiber light cable (80663523), adapter, projector to light cable (8095.07), and adapter, light cable to endoscope (809509)	Ø 3.5 mm, 2.3 m long	<b>806635231</b>

Shoulder

2.1

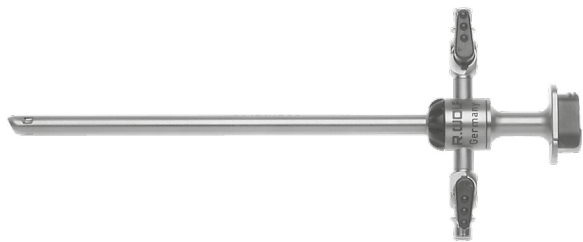



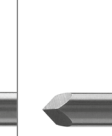
IV20 || Subject to modifications. Please note that some products may not be available in all countries. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

**arthro** *lution* Sheath for Arthroscope

with automatic click-lock mechanism

Shoulder

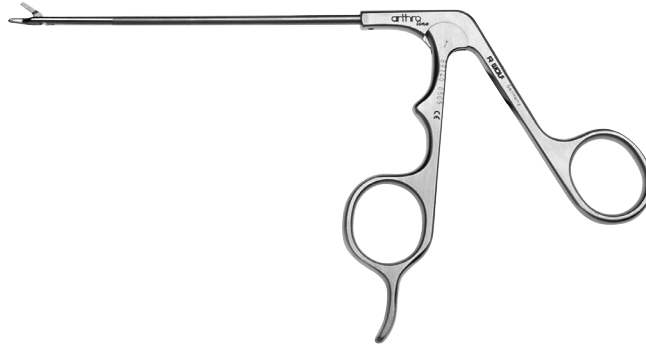
2.1











										
High-Flow	Small-caliber	2 fixed stopcocks	2 rotatable stopcocks	Outer Ø	WL	Product no.	89121.0544	89121.0542	89121.0540	89121.0640
		●		6.0 mm	132 mm	89121.0260				
			●	6.0 mm	130 mm	89121.1260				
●			●	6.3 mm	130 mm	89121.1263				
	●		●	5.5 mm	130 mm	891221255				

Spare parts	Product no.
Irrigation ring with 1 stopcock	150081761
Irrigation ring with 2 stopcocks	150081762
Stopcock insert, bundle, cap 3.0mm (PACK= 5 PCS) Also: Disassembly tool	896.0002 38310.0001
Mounting ring	15008.1704
Spare sealing comprising: O-rings, small / large, 5 of each Also: O-ring tool (disassembly tool)	15176.142 15106.230

Recommended accessories	Product no.
Sealing part for sheath	89101.0000
Marking rod Ø 4.0mm conical blunt TL 325 mm	8863.75

arthroline Punch





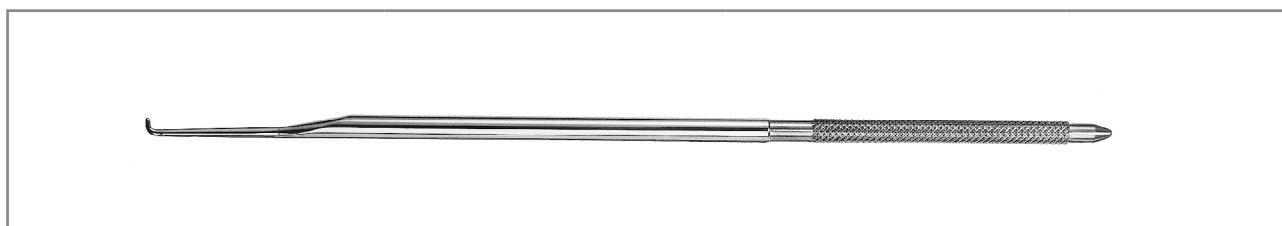
ARTHROline	Jaw section (Height x width)	Cut width	WL	Straight	Curved to the left	Sheath curved upward	Jaw section curved upward	Product no.		
<b>Punch W 4.6mm H 1.6mm</b> movable jaw section serrated  Sectional view: 	1.6 x 4.6 mm	3.3 mm	120 mm	●				89140.0105		
<b>Punch W 4.6mm H 1.6mm</b> movable jaw section serrated  Sectional view: 							●	89140.0102		
<b>Punch W 4.6mm H 1.6mm</b> movable jaw section serrated  Sectional view: 								●	89140.0122	
<b>Punch W 5.5mm H 1.6mm</b> movable jaw section serrated  Sectional view: 								●	●	89140.0101
<b>Punch W 5.5mm H 1.6mm</b> movable jaw section serrated  Sectional view: 									●	89140.0103


IV20 || Subject to modifications. Please note that some products may not be available in all countries. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

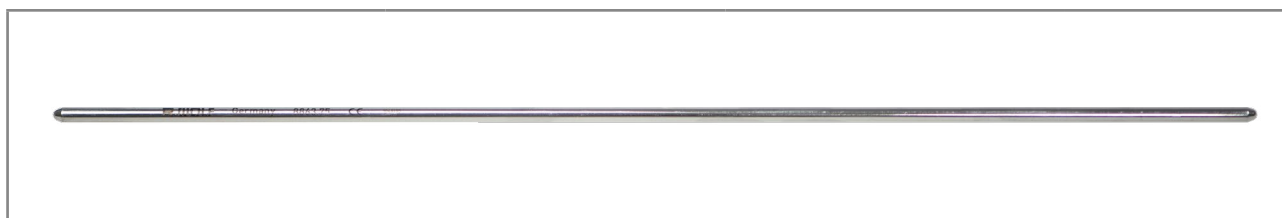
## Hook Probe / Marking Rod




	H	WL	Product no.
<b>Hook probe WL 115mm H 7mm, graduated</b> 	7.0 mm	115 mm	<b>8399.901</b>
<b>Hook probe WL 115mm H 4.5mm, graduated</b> 	4.5 mm		<b>8399.95</b>



	Ø	TL	Product no.
<b>Hook probe TL 228 mm SZ 4.4mm</b> 	4.4 mm	228 mm	<b>8863.80</b>



	Ø	TL	Product no.
<b>Marking rod Ø 4.0mm conical blunt</b> 	4.0 mm	325 mm	<b>8863.75</b>



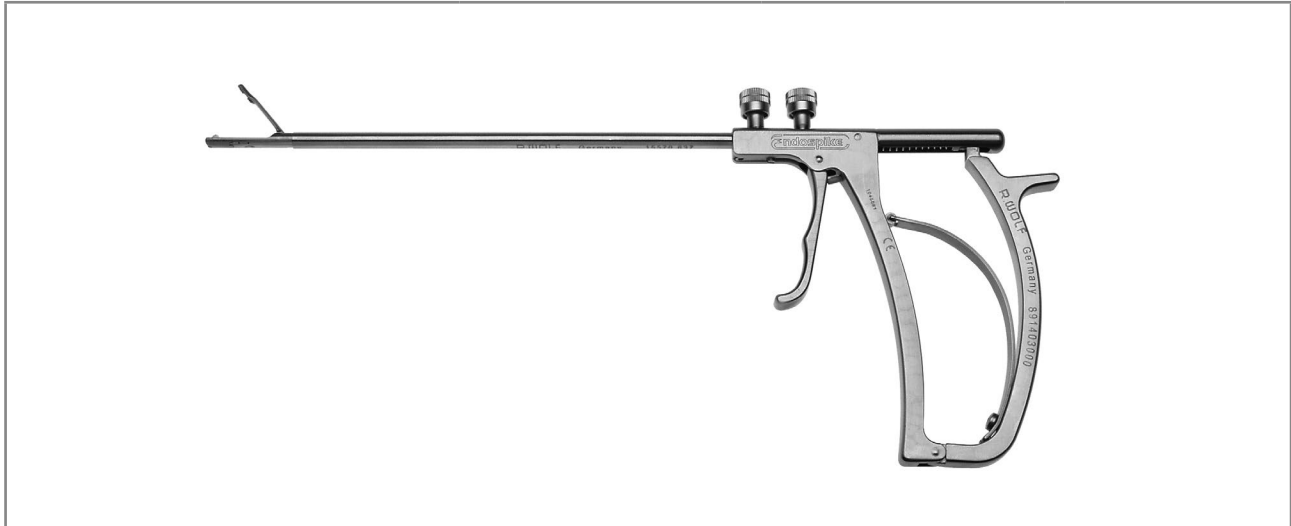
## Basic Instrument Set


for reconstructive shoulder arthroscopy

Product	Product no.	Quantity	Catalog / Section
<b>Endoscopes and Instruments</b>			
Knot pusher WL 170mm	<b>89150.3000</b>	1	Orthopedics / Shoulder
Suture catcher WL 160mm	<b>89150.3003</b>	1	Orthopedics / Shoulder
Concave rasp WL 175mm W 4.75mm	<b>89160.3003</b>	1	Orthopedics / Shoulder
Convex rasp WL 175 mm W 4.75mm	<b>89160.3002</b>	1	Orthopedics / Shoulder
Straight rasp WL 175mm W 4.75mm	<b>89160.3005</b>	1	Orthopedics / Shoulder
Knife angled 15° WL 160mm W 4.5mm	<b>89160.3015</b>	1	Orthopedics / Shoulder
Distally cutting knife WL 160mm W 4.5mm	<b>89160.3001</b>	1	Orthopedics / Shoulder
Suture cutter Ø 5mm WL 200mm	<b>891603000</b>	1	Orthopedics / Shoulder
Suture grasping forceps Ø 3.3mm	<b>891303300</b>	1	Orthopedics / Shoulder
Grasping forceps Ø 3.4mm	<b>8488.096</b>	1	Orthopedics / Shoulder
Marking rod Ø 4.0mm, conical blunt	<b>8863.75</b>	1	Orthopedics / Shoulder
ENDOSPIKE shoulder suture instrument Ø 5.3mm	<b>891403000</b>	1	Orthopedics / Shoulder
Also: Needles for suture forceps, sterile	<b>491403000</b>	1	Orthopedics / Shoulder
Sterilization basket for shoulder suture set	<b>85841213</b>	1	Orthopedics / Shoulder

**Endospike**

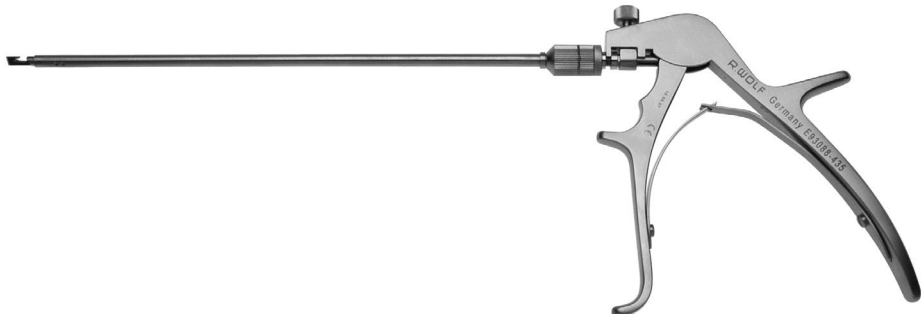

Shoulder Suture Instrument

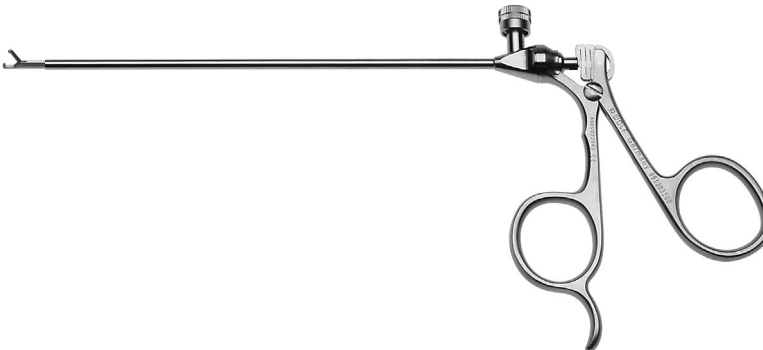





	Ø	WL	Product no.
<p><b>ENDOSPIKE</b> shoulder suture instrument Ø 5.3mm</p>  <p>with irrigation connector, can be dismantled</p>	5.3 mm	169 mm	<b>891403000</b>
Also:			
<p><b>Needles for stitching forceps,</b> sterile, disposable (PACK= 5 PCS)</p>			<b>491403000</b>

Shoulder  
2.4


## Suture Cutter / Suture Grasping Forceps

			
	Ø	WL	Product no.
<b>Suture cutter Ø 5mm WL 200mm</b>  can be dismantled	5.0 mm	200 mm	<b>891603000</b>

			
	Ø	WL	Product no.
<b>Suture grasping forceps Ø 3.3mm</b>  jaw section straight, sheath straight	3.3 mm	160 mm	<b>891303300</b>
<b>Suture grasping forceps Ø 3.3mm</b>  straight jaw section, pointed			<b>891303200</b>
<b>Suture grasping forceps Ø 3.3mm</b>  jaw section curved 45° upward, pointed			<b>891303230</b>







IV20 || Subject to modifications. Please note that some products may not be available in all countries. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

## Grasping Forceps

		Ø	WL	Product no.
 <p>Grasping forceps Ø 3.4 mm</p> <p>straight jaw section, serrated, handle with lock</p>		3.4 mm	130 mm	<b>8488.096</b>

Grasping forceps for holding and repositioning the rotator cuff.

# Hand Instruments


		WL	Product no.
			
<b>Knot pusher WL 170 mm</b> 	For applying and tightening slip knots in arthroscopically applied sutures	170 mm	<b>89150.3000</b>
<b>Suture catcher WL 160mm</b> 	Hook eye for suture management	160 mm	<b>89150.3003</b>
<b>Distally cutting knife WL 160mm W 4.5mm</b> 	For loosening soft tissue from the glenoid edge	160 mm	<b>89160.3001</b>
<b>Knife angled 15° WL 160mm W 4.5mm</b> 			<b>89160.3015</b>
<b>Convex rasp WL 175mm W 4.75mm</b> rough 	For arthroscopic "freshening" of the bone at the glenoid in Bankart and SLAP lesions and of the greater tubercle in reconstruction of the rotator cuff	175 mm	<b>89160.3002</b>
<b>Concave rasp WL 175mm W 4.75mm</b> rough 			<b>89160.3003</b>
<b>Straight rasp WL 175mm W 4.75mm</b> rough 			<b>89160.3005</b>

IV20 || Subject to modifications. Please note that some products may not be available in all countries. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

# Sterilization Basket

## for Instruments Used in Shoulder Arthroscopy

Sterilization – storage – transport

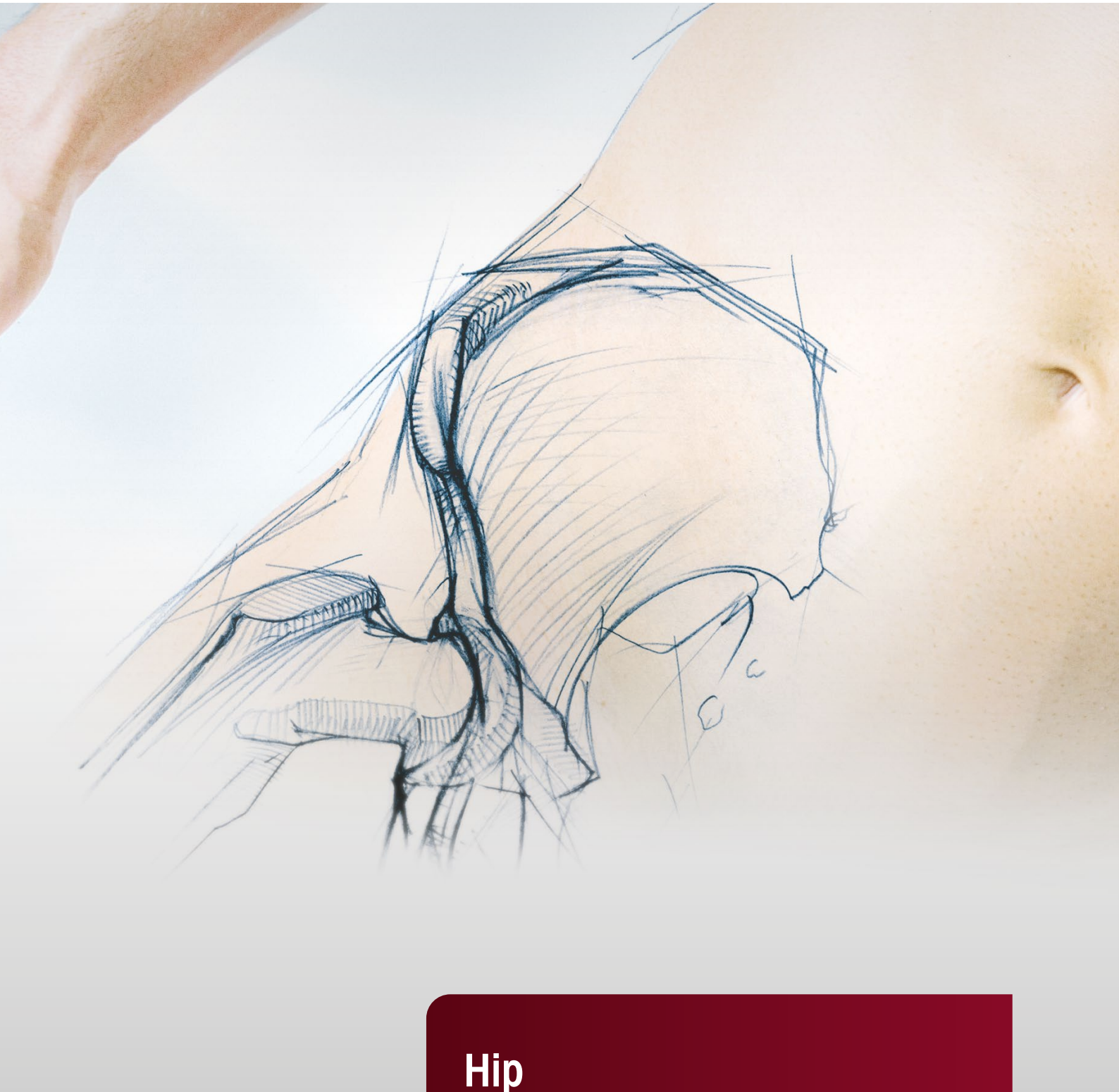


top

bottom

	Width mm	Total height mm	Depth mm	Product no.
<p><b>Sterilization basket for shoulder sut.</b> Comprising: Basket lower part, 2 instrument racks with support bars and silicone holders for "shoulder" instrument set, basket lid with spring lock and 2 handles</p>	530	108	250	<b>85841213</b>

Suitable for standard container



# Hip

## Hip

3.1

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**Arthrolution Arthroscopes Overview**

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3.2

**Telescopes and Sheaths**

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3.3

**Access Instruments**

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3.4

**Dilation Systems**

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3.5

**Irrigation Cannula**

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3.6

**Aiming Device**

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3.7

**Instruments**

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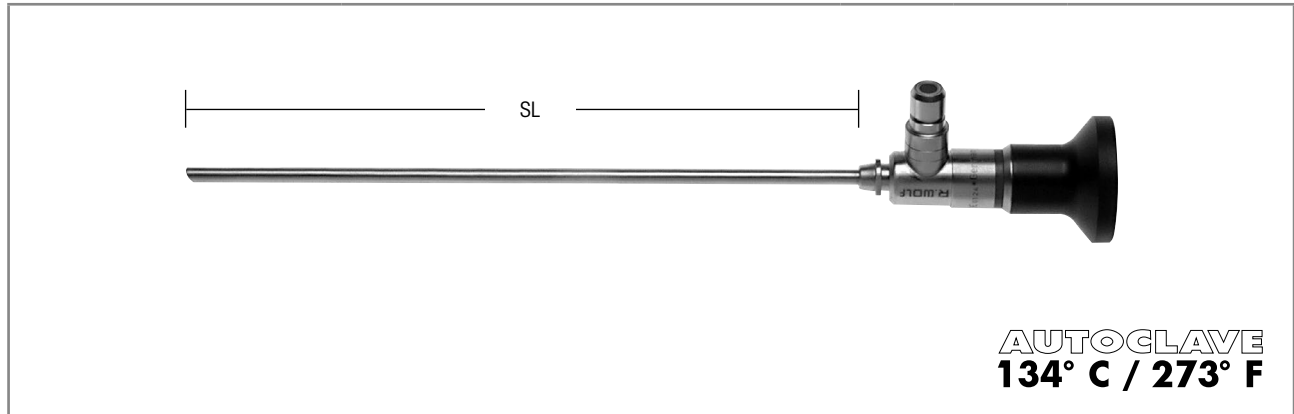
## Overview

arthro <i>lution</i>			Fingers, toes	Hand	Foot, elbow		Knee, shoulder, hip
Telescope Ø			1.9 mm	2.4 mm	2.7 mm		4.0 mm
Telescopes	30°	PANOVIEW telescope	<b>8860453</b>	<b>8871413</b>	<b>8476.433</b>	<b>8672.422</b>	<b>8880.543</b>
		PANOVIEW wide angle telescope					<b>8885.443</b>
	70°	PANOVIEW telescope					<b>8880.545</b>
		PANOVIEW wide angle telescope					<b>8885.445</b>
Sheath WL			40 mm	60 mm	77.5 mm	145 mm	130 mm
Sheaths	with 1 irrigation stopcock, fixed		<b>891220124</b>	<b>891220132</b>			
	with 2 irrigation stopcocks, fixed						<b>89121.0260</b>
	with 1 irrigation stopcock, rotatable					<b>891241141</b>	
	with 2 irrigation stopcocks, rotatable			<b>891221232</b>	<b>891221241</b>	<b>891241241</b>	<b>89121.1260</b>
	High-Flow with 1 irrigation stopcock, fixed		<b>891220128</b>				
	High-Flow with 2 irrigation stopcocks, rotatable			<b>891221235</b>			<b>89121.1263</b>
	Small-caliber with 2 irrigation stopcocks, rotatable						<b>891221255</b>
Obturator	blunt				<b>891222754</b>		<b>89121.0544</b>
	semi-blunt		<b>891221952</b>	<b>891222452</b>			<b>89121.0542</b>
	conical blunt				<b>891222750</b>	<b>891242750</b>	<b>89121.0540</b>
	sharp					<b>891242761</b>	<b>89121.0640</b>
	conical pointed		<b>891221962</b>	<b>891222462</b>	<b>891222762</b>		
Sealing part for sheath						<b>891040000</b>	

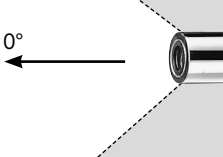
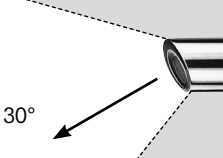
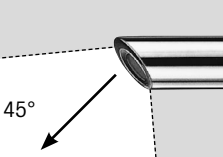
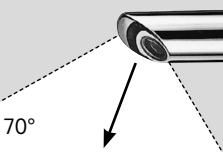
# COXARTIS

Telescope Ø 4 mm

for 4 mm arthroscopes



**AUTOCLAVE**  
**134° C / 273° F**

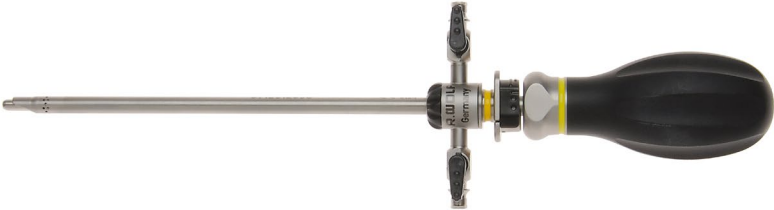


Direction of view		SL	Ø	Product no.
	PANOVIEW telescope 0° Ø 4mm SL 170mm	170 mm	4.0 mm	<b>8880.541</b>
	PANOVIEW telescope 30° Ø 4mm SL 170mm			<b>8880.543</b>
	PANOVIEW telescope 45° Ø 4mm SL 170mm			<b>8880.544</b>
	PANOVIEW telescope 70° Ø 4mm SL 171 mm	176 mm		<b>8880.547</b>




Recommended accessories		Product no.
<b>Reprocess basket</b>	(W x H x D) 287 x 54 x 59 mm	<b>38020.111</b>
<b>Fiber light cable bndl</b> Comprising: Fiber light cable (80663523), adapter, projector to light cable (8095.07), and adapter, light cable to endoscope (809509)	Ø 3.5 mm, 2.3 m long	<b>806635231</b>

# COXARTIS

Sheath Ø 4 mm

for 4 mm arthroscopes

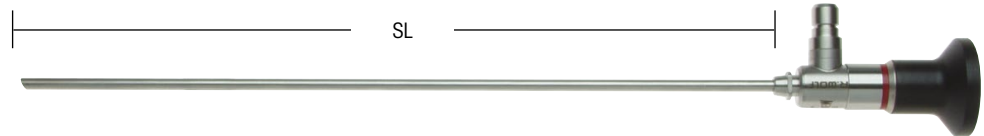
					
					
	2 rotatable stopcocks	Outer Ø	WL	Product no.	Obturator for arthroscope OD 6/6.3mm cannulated, capacity 2mm
ArthroLution sheath for arthroscope OD 6mm with automatic click-lock mechanism	●	6.0 mm	145 mm	<b>8912312603</b>	<b>891234073</b>
Also: Sealing part for sheath					<b>89101.0000</b>

						
						
		2 rotatable stopcocks	Outer Ø	WL	Product no.	Obturator for arthroscope OD 5.3/6 mm, semi-blunt, capacity 2mm
<b>ArthroLution sheath and outer sheath</b>	ArthroLution sheath for arthroscope OD 5.3mm, with automatic click-lock mechanism		5.3 mm		<b>8912312533</b>	<b>891234052</b>
	Outer sheath for arthroscope OD 6.3mm	●	6.3 mm	130 mm	<b>8912300633</b>	
Also: Sealing part for sheath						<b>89101.0000</b>

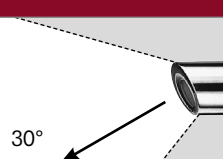
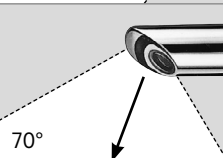
# COXARTIS

## Telescope and Sheath Systems

for 4 mm arthroscopes, extra long



**AUTOCLAVE**  
**134° C / 273° F**

Direction of view		SL	Ø	Product no.
	PANOVIEW telescope 30° Ø 4 mm SL 248 mm	248 mm	4.0 mm	<b>891134030</b>
	PANOVIEW telescope 70° Ø 4 mm SL 251 mm	251 mm		<b>891134070</b>

Recommended accessories		Product no.
<b>Reprocess basket</b>	(W x H x D) 287 x 54 x 59 mm	<b>38020.111</b>
<b>Fiber light cable bndl</b> Comprising: Fiber light cable (80663523), adapter, projector to light cable (8095.07), and adapter, light cable to endoscope (809509)	Ø 3.5 mm, 2.3 m long	<b>806635231</b>




	2 rotatable stopcocks	Outer Ø	WL	Product no.	Obturator for arthroscope OD 6 mm, cannulated, capacity 2 mm
ArthroLution <b>sheath for arthroscope OD 6mm,</b> with automatic click-lock mechanism	●	6.0 mm	145 mm	<b>8912312607</b>	<b>891234077</b>
Also: <b>Sealing part for sheath</b>					<b>89101.0000</b>


# COXARTIS

## Access Instruments


Cannula for punction, guide wire, marking rod



	Ø	Capacity	WL	Product no.
<b>Cannula for punction Ø 2.6/2mm WL 200mm</b> with internal needle, (PACK= 2 PCS)	2.6 mm	2.0 mm	200 mm	<b>891732018</b>



	Ø	TL	Product no.
<b>Nitinol guide wire Ø 2mm</b> (PACK= 2 PCS)	2.0 mm	450 mm	<b>891534020</b>



	Ø	Capacity	TL	Product no.
<b>Marking rod Ø 4.0mm</b> cannulated	4.0 mm	2.25 mm	325 mm	<b>891532040</b>
<b>Marking rod Ø 4.0mm</b> conical blunt	4.0 mm	-	325 mm	<b>8863.75</b>

# COXARTIS

## Access Instruments

### Guide tube




	∅	Capacity	WL	Product no.
<b>Guide sheath slitted WL 120 mm SZ 7 mm</b> slotted	2.6 mm	2 mm	200 mm	<b>891237012</b>
<b>Obturator for guide tube</b> cannulated			142 mm	<b>891232070</b>

# COXARTIS





## Access Instruments

### Dilation system



891532050 / 891532070 / 891532090

891530000

	Color coding	Ø	Capacity	WL	Product no.
<b>Dilatator Ø 5mm WL 200mm</b>  cannulated	green	5.0 mm	2.0 mm	200 mm	<b>891532050</b>
<b>Dilatator Ø 7mm WL 200mm</b>  cannulated	blue	7.0 mm			<b>891532070</b>
<b>Dilatator Ø 9mm WL 200mm</b>  cannulated	red	9.0 mm			<b>891532090</b>
<b>Handle attachment for dilators</b> 					<b>891530000</b>

# COXARTIS

## Irrigation Cannula



	Ø	Capacity	WL	Product no.
Cannula for irrigation Ø 8mm WL 168mm	8 mm	7 mm	168 mm	<b>891737080</b>

Hip  
3.5







# COXARTIS

## Aiming Device

IV20 || Subject to modifications. Please note that some products may not be available in all countries. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.





		Product no.
<b>Aiming device bndl</b> Comprising:	Hip alignment ARC (891240100), Hip guide sleeve (891240200), Guide attachment AD hip (891240300), Rotatable irrigation ring hip (891240400)	<b>891240000</b>
<b>Hip alignment ARC</b> with adapter for rotatable irrigation ring		891240100
<b>Hip guide sleeve</b> for connection to puncture cannula 891732018		891240200
<b>Guide attachment AD hip</b> for connection to guide sleeve		891240300
<b>Rotatable irrigation ring hip</b> rotatable with 2 stopcocks and adapter for alignment bracket		891240400


Hip  
3.6

# COXARTIS

## Hook Probe / Banana Knife

			
	Height	WL	Product no.
<p>Hook probe WL 150mm H 4.5mm</p> 	4.5 mm	150 mm	<b>891534515</b>





		
	WL	Product no.
<p>Banana knife WL 125mm</p> 	125 mm	<b>8436.251</b>

			
	Width	WL	Product no.
<p>Convex rasp WL 175mm W 4.75mm</p> <p>rough</p> 	4.75 mm	175 mm	<b>89160.3002</b>

# COXARTIS




## Curette and Microfractor



		Ø	WL	Product no.
<b>Curette, square, Ø 4.5mm WL 170mm</b>		4.5 mm	170 mm	<b>891632245</b>
<b>Curette, square, Ø 5mm WL 170mm</b>		5.0 mm		<b>891632260</b>
<b>Curette, round, Ø 4.8mm WL 170mm</b>		4.8 mm		<b>891631255</b>
<b>Curette, round, Ø 6.3mm WL 170mm</b>		6.3 mm		<b>891631270</b>

double-blade and curved upward





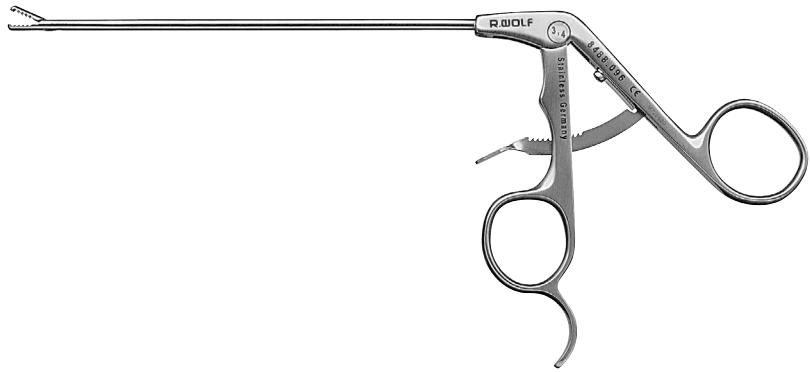

	Deflection	WL	Product no.
<b>Microfractor WL 170mm 15°</b>	 Curved 15°	170 mm	<b>891631521</b>
<b>Microfractor WL 170mm 30°</b>	 Curved 30°		<b>891633021</b>
<b>Microfractor WL 170mm 45°</b>	 Curved 45°		<b>891634521</b>
<b>Microfractor WL 170 mm 35°</b>	 35° S-shaped		<b>891633522</b>
<b>Microfractor WL 170mm 60°</b>	 Curved 60°		<b>891636021</b>
<b>Microfractor WL 170mm 60°</b>	 60° S-shaped		<b>891636022</b>
<b>Microfractor WL 170mm 80°</b>	 Curved 80°		<b>891638021</b>

IV20 || Subject to modifications. Please note that some products may not be available in all countries. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

# COXARTIS

## PULSEShifter Microfractor / Grasping Forceps









		WL	Product no.
<p>PULSEShifter Microfractor WL 170 mm 45°</p> 	<p>curved 45°, can be dismantled</p>	<p>170 mm</p>	<p><b>891634530</b></p>

				
		Ø	WL	Product no.
<p>Grasping forceps Ø 3.4mm</p>  <p>straight jaw section, serrated, handle with lock</p>	<p>3.4 mm</p>	<p>130 mm</p>	<p><b>8488.096</b></p>	




COXARTIS

arthroline Punch



ARTHROline	Jaw section (Height)	WL	Straight	Curved to the left	Curved to the right	Sheath curved upward	Jaws curved upward	Product no.
<p>Punch WL 180mm H 1.6mm</p>  <p>Sectional view: </p>	1.6 mm	180 mm	●				●	891432102
<p>Punch WL 180mm H 1.6mm</p>  <p>Sectional view: </p>			●			●	891432101	
<p>Punch WL 180mm H 1.6mm</p>  <p>Sectional view: </p>			●		●	●	891432103	
<p>Punch WL 180mm H 1.6mm</p>  <p>Sectional view: </p>			●			●	891432122	

IV20 || Subject to modifications. Please note that some products may not be available in all countries. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

Spare part and accessory		Product no.
<p><b>Sterile adapter</b> eyecup for replacing the endoscope under sterile conditions, locking mechanism</p>		<p><b>8580.91</b></p>
<p><b>Sealing part for sheath</b></p>		<p><b>89101.0000</b></p>
<p><b>Irrigation ring with 1 stopcock</b></p>		<p><b>150081761</b></p>
<p><b>Irrigation ring with 2 stopcocks</b></p>		<p><b>150081762</b></p>
<p><b>Stopcock bndl cap 3.0mm</b> (PACK= 5 PCS)</p>		<p><b>896.0002</b></p>
<p><b>Mounting ring</b></p>		<p><b>15008.1704</b></p>
<p><b>Spare seal set</b> Comprising: O-ring 9.25X 1.78 VMQ-70 coated (15364396) O-ring 7.65X 1.78 VMQ-70 coated (15364395) (PACK= 5 PCS)</p>		<p><b>15176.142</b></p>
<p><b>Also:</b> <b>O-ring tool</b></p>		<p><b>15106.230</b></p>



**Elbow / Foot**

## Elbow / Foot

4.1

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**Arthrolution Arthroscopes Overview**

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4.2

**Telescopes and Sheaths**

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4.3

**Instruments – Drainage Cannulas / Hook Probes / Guide and Marking Rods /  
ARTHROline Punches / Scissors / Forceps**

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4.4

**Instruments for Endoscopically Assisted Decompression of the Ulnar Nerve**

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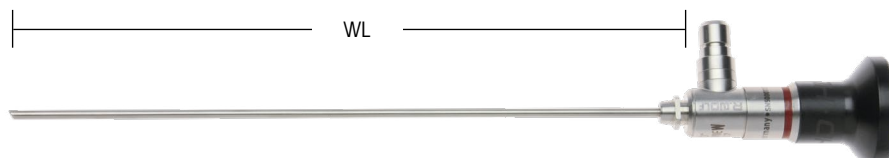


**arthro**  
*lution* Arthroscope

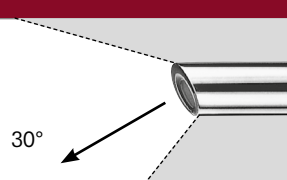
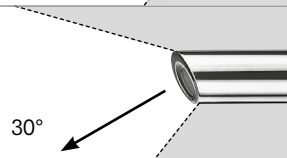
Overview

arthro <i>lution</i>			Fingers, toes	Hand	Foot, elbow		Knee, shoulder, hip
Telescope Ø			1.9 mm	2.4 mm	2.7 mm		4.0 mm
Telescopes	30°	PANOVIEW telescope	<b>8860453</b>	<b>8871413</b>	<b>8476.433</b>	<b>8672.422</b>	<b>8880.543</b>
		PANOVIEW wide angle telescope					<b>8885.443</b>
	70°	PANOVIEW telescope					<b>8880.545</b>
		PANOVIEW wide angle telescope					<b>8885.445</b>
Sheath WL			40 mm	60 mm	77.5 mm	145 mm	130 mm
Sheaths	with 1 irrigation stopcock, fixed		<b>891220124</b>	<b>891220132</b>			
	with 2 irrigation stopcocks, fixed						<b>89121.0260</b>
	with 1 irrigation stopcock, rotatable					<b>891241141</b>	
	with 2 irrigation stopcocks, rotatable			<b>891221232</b>	<b>891221241</b>	<b>891241241</b>	<b>89121.1260</b>
	High-Flow with 1 irrigation stopcock, fixed		<b>891220128</b>				
	High-Flow with 2 irrigation stopcocks, rotatable			<b>891221235</b>			<b>89121.1263</b>
	Small-caliber with 2 irrigation stopcocks, rotatable						<b>891221255</b>
Obturator	blunt				<b>891222754</b>		<b>89121.0544</b>
	semi-blunt		<b>891221952</b>	<b>891222452</b>			<b>89121.0542</b>
	conical blunt				<b>891222750</b>	<b>891242750</b>	<b>89121.0540</b>
	sharp					<b>891242761</b>	<b>89121.0640</b>
	conical pointed		<b>891221962</b>	<b>891222462</b>	<b>891222762</b>		
Sealing part for sheath						<b>891040000</b>	

## Telescope 2.7 mm for Standard Arthroscope

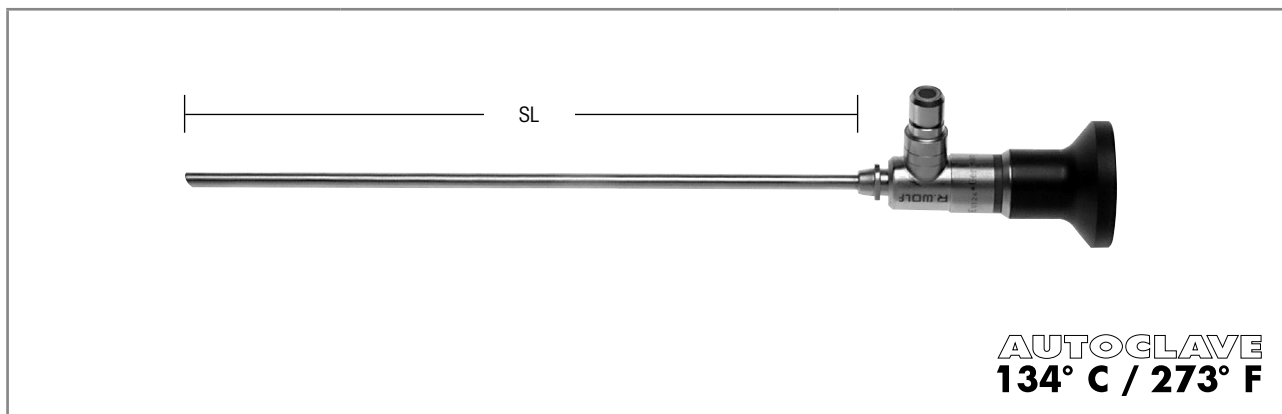


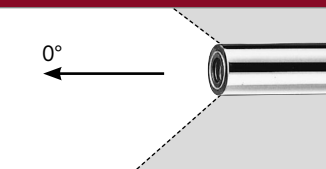
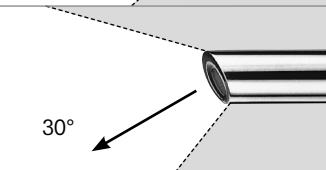
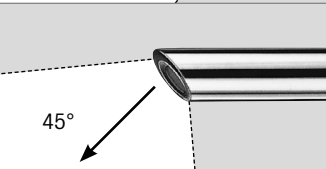
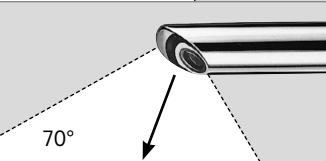
**AUTOCLAVE**  
**134° C / 273° F**

Direction of view		WL	Ø	Product no.
	PANOVIEW PLUS HD telescope 30° Ø 2.7mm WL 103mm	103 mm	2.7 mm	<b>8476.433</b>
	PANOVIEW TELESCOPE 30° Ø 2.7mm WL 182mm	182 mm		<b>8672.422</b>

Recommended accessories		Product no.
<b>Reprocess basket</b>	(W x H x D) 287 x 54 x 59 mm	<b>38020.111</b>
<b>Fiber light cable bndl</b> Comprising: Fiber light cable (80663523), adapter, projector to light cable (8095.07), and adapter, light cable to endoscope (809509)	Ø 3.5 mm, 2.3 m long	<b>806635231</b>

## Telescope 4.0 mm for Standard Arthroscope



Direction of view		SL	Ø	Product no.
	PANOVIEW telescope 0° Ø 4mm SL 170mm	170 mm	4.0 mm	<b>8880.541</b>
	PANOVIEW telescope 30° Ø 4mm SL 170mm			<b>8880.543</b>
	PANOVIEW telescope 45° Ø 4mm SL 170mm			<b>8880.544</b>
	PANOVIEW telescope 70° Ø 4mm SL 176mm	176 mm		<b>8880.545</b>


Recommended accessories		Product no.
<b>Reprocess basket</b>	(W x H x D) 287 x 54 x 59 mm	<b>38020.111</b>
<b>Fiber light cable bndl</b> Comprising: Fiber light cable (80663523), adapter, projector to light cable (8095.07), and adapter, light cable to endoscope (809509)	Ø 3.5 mm, 2.3 m long	<b>806635231</b>

IV20 || Subject to modifications. Please note that some products may not be available in all countries. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

**arthro** *lution* Sheath for Arthroscope

with automatic click-lock mechanism

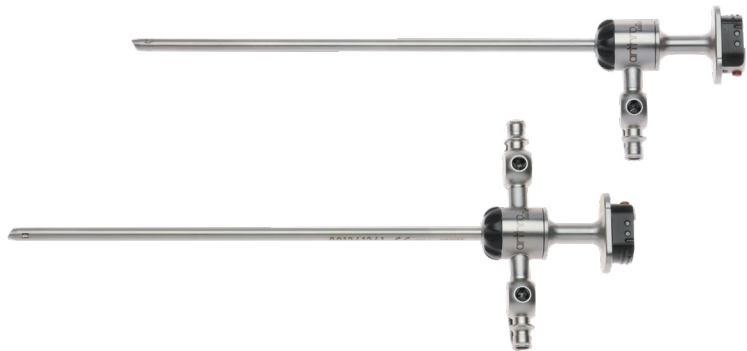


						
2 rotatable stop-cocks	Outer ø	WL	Product no.			
●	4.1 mm	77.5 mm	<b>891221241</b>	<b>891222754</b>	<b>891222750</b>	<b>891222762</b>


Recommended accessories		Product no.
Sealing part for sheath		<b>89101.0000</b>
Marking rod ø 4.0 mm, TL 325 mm	conical blunt	<b>8863.75</b>
<b>Spare parts</b>		
Irrigation ring with 1 stopcock		<b>150081761</b>
Irrigation ring with 2 stopcocks		<b>150081762</b>
Stopcock bndl cap 3.0mm (PACK= 5 PCS)		<b>896.0002</b>
Also: Disassembly tool		<b>38310.0001</b>
Mounting ring		<b>15008.1704</b>
Spare seal set (O-rings)	Comprising: O-ring, small (PACK= 5 PCS) O-ring, large (PACK= 5 PCS)	<b>15176.142</b>
Also: O-ring tool (disassembly tool)		<b>15106.230</b>

IV20 || Subject to modifications. Please note that some products may not be available in all countries. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

**arthro**  
*lution* Sheath for Arthroscope

with automatic click-lock mechanism

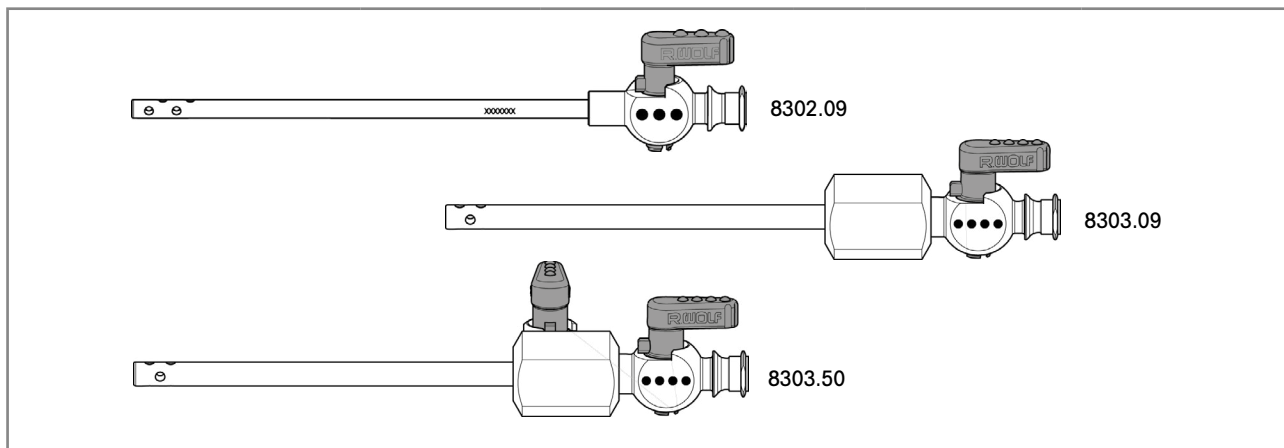
						
Sheath for arthroscope OD 4.1 mm					Obturator for arthroscope OD 4.1 mm sharp, with slanted tip	Obturator for arthroscope OD 4.1 mm conical blunt
1 rotatable stopcock	2 rotatable stopcocks	Outer Ø	WL	Product no.		
●		4.1 mm	145 mm	891241141	891242761	891242750
	●			891241241		








Recommended accessories		Product no.
Sealing part for sheath		891040000
Marking rod Ø 2.7 mm, TL 250 mm	conical pointed	891242725
<b>Spare parts</b>		
Irrigation ring with 1 stopcock		150081761
Irrigation ring with 2 stopcocks		150081762
Stopcock bndl cap 3.0mm (PACK= 5 PCS)		896.0002
Also: Disassembly tool		38310.0001
Mounting ring		15008.1704
Spare seal set (O-rings)	Comprising: O-ring, small (PACK= 5 PCS) O-ring, large (PACK= 5 PCS)	15176.142
Also: O-ring tool (disassembly tool)		15106.230

# Drainage Cannula Ø 2.3 mm / 3.7 mm









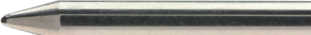
Elbow / Foot

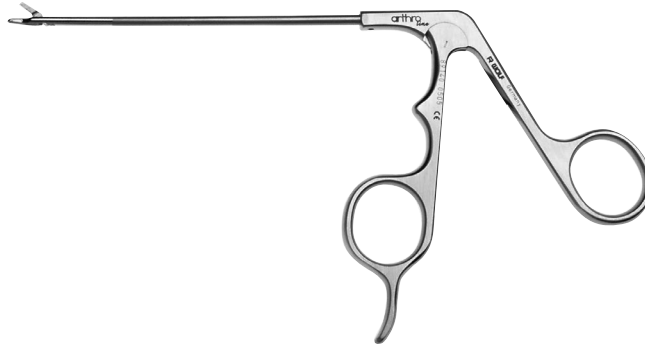
4.3













Drainage for cannula and obturator		Capacity	Ø	WL	Product no.
Drainage for cannula Ø 3.2mm WL 80mm with 1 insufflation stopcock		2.3 mm	3.2 mm	80 mm	<b>8302.09</b>
Drainage for cannula Ø 4.5mm WL 71.5mm with 1 insufflation stopcock		3.7 mm	4.5 mm	71.5 mm	<b>8303.09</b>
Drainage for cannula Ø 4.5mm WL 71.5mm with 2 insufflation stopcocks		3.7 mm	4.5 mm	71.5 mm	<b>8303.50</b>
Obturator for cannula OD 3.2mm sharp, with slanted tip		-	2.3 mm	103 mm	<b>8302.101</b>
Obturator for cannula OD 3.2mm conical blunt tip		-	2.3 mm	103 mm	<b>8302.11</b>
Obturator for cannula OD 4.5mm sharp, with pyramid-shaped tip		-	4.5 mm	115 mm	<b>8303.10</b>
Obturator for cannula OD 4.4mm conical blunt tip		-	4.4 mm	115 mm	<b>8303.11</b>
Also:					
Silicone tube with Luer fitting 886.00	for Drainage for cannula 8302.09		Length 2.0 m		<b>8302.90</b>
Silicone tube with Luer fitting 886.01	for Drainage for cannula 8303.09 / 50				<b>8303.90</b>

## Hook Probe / Marking Rod

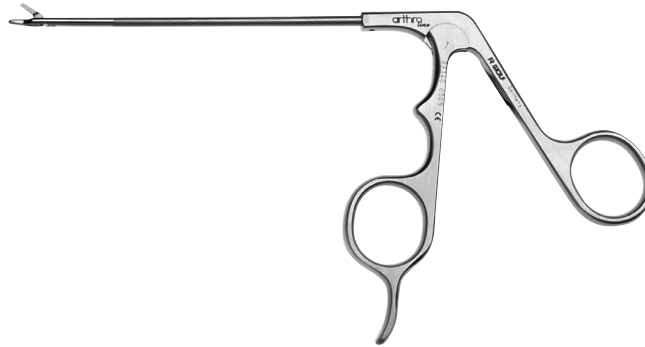
			
	<b>H</b>	<b>WL</b>	<b>Product no.</b>
<b>Hook probe WL 115mm H 7mm, graduated</b> 	7.0 mm	115 mm	<b>8399.901</b>
<b>Hook probe WL 115mm H 4.5mm, graduated</b> 	4.5 mm		<b>8399.95</b>
			
	<b>Ø</b>	<b>TL</b>	<b>Product no.</b>
<b>Hook probe TL 228 mm SZ 4.4mm</b> 	4.4 mm	228 mm	<b>8863.80</b>
 <p style="text-align: center;">8863.75</p>  <p style="text-align: center;">891242725</p>			
	<b>Ø</b>	<b>TL</b>	<b>Product no.</b>
<b>Marking rod Ø 4.0mm conical blunt</b> 	4.0 mm	325 mm	<b>8863.75</b>
<b>Marking rod Ø 2.7mm conical pointed</b> 	2.7 mm	250 mm	<b>891242725</b>














ARTHROline	Jaw section (Height x width)	Cut width	WL	Straight	Curved to the left	Sheath curved upward	Jaw secti- on curved upward	Product no.
<b>Punch W 4.6 mm H 1.6 mm</b> movable jaw section serrated  Sectional view: 	1.6 x 4.6 mm	3.3 mm	120 mm	●				<b>89140.0105</b>
<b>Punch W 4.6 mm H 1.6 mm</b> movable jaw section serrated  Sectional view: 							●	<b>89140.0102</b>
<b>Punch W 4.6 mm H 1.6 mm</b> movable jaw section serrated  Sectional view: 								●
<b>Punch W 5.5 mm H 1.6 mm</b> movable jaw section serrated  Sectional view: 	1.6 x 5.5 mm				●		●	<b>89140.0101</b>
<b>Punch W 5.5 mm H 1.6 mm</b> movable jaw section serrated  Sectional view: 								



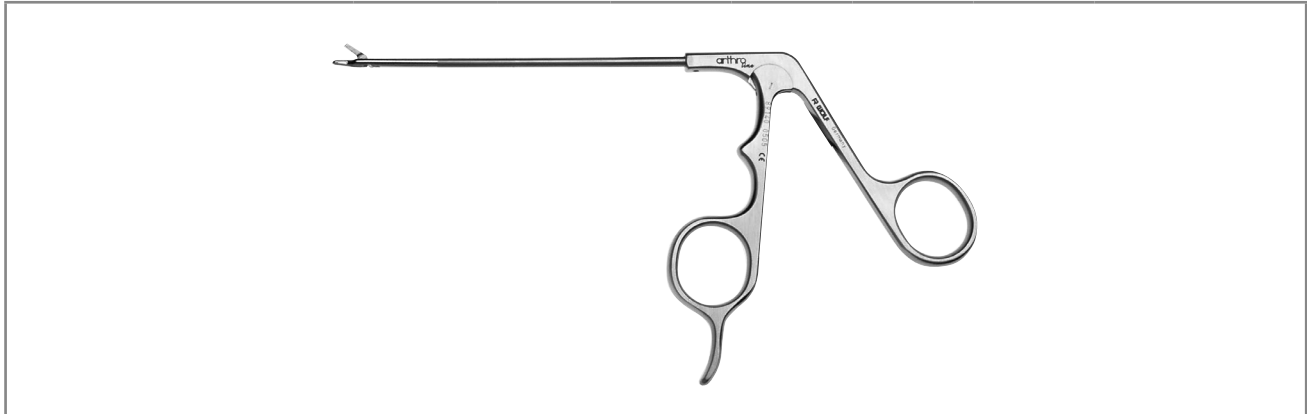
**arthro**  
*line* Hook Punch / Basket Punch











ARTHROline	Jaw section (Height x width)	Cut width	WL	Straight	Jaw section curved upward	Product no.
<b>Hook punch W 3mm H 1.6mm</b>  Sectional view: 	1.6 x 3.0 mm	1.8 mm	120 mm	●		89140.0205
<b>Hook punch W 3mm H 1.6mm</b>  Sectional view: 				●		89140.0202
<b>Basket punch W 6.5mm H 2.1mm oval</b>  Sectional view: 	2.1 x 6.5 mm	4.5 mm		●		89140.0305
<b>Basket punch W 6.5mm H 2.1mm oval</b>  Sectional view: 				●		89140.0302
<b>Hook punch W 4mm H 2.1mm</b>  Sectional view: 	2.1 x 4.0 mm	2.1 mm		●		89140.0405
<b>Hook punch W 4 mm H 2.1mm</b>  Sectional view: 				●		89140.0402

IV20 || Subject to modifications. Please note that some products may not be available in all countries. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

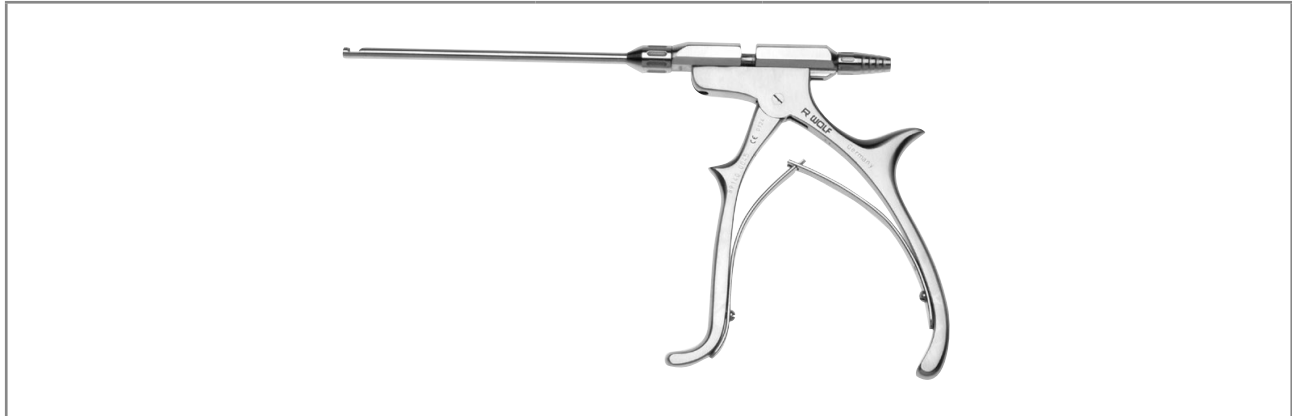
**arthro**  
*line* Punch / Scissors Punch




ARTHROline	Jaw section (Height x width)	Cut width	WL	Straight	Retrograde cutting	Jaw section curved upward	Product no.
<b>Scissors punch W 2.4mm H 2.1 mm</b>  Sectional view: 	2.1 x 2.4 mm	0.9 mm	120 mm	●			<b>89140.0505</b>
<b>Scissors punch W 2.4mm H 2.1 mm</b>  Sectional view: 					●		<b>89140.0502</b>
<b>Punch W 5.7mm H 4mm retrograde left-cutting</b>  Sectional view: 	4.0 x 5.7 mm	2.3 mm		●	left		<b>89140.0605</b>
<b>Punch W 5.7mm H 4mm retrograde right-cutting</b>  Sectional view: 				●	right		<b>89140.0602</b>

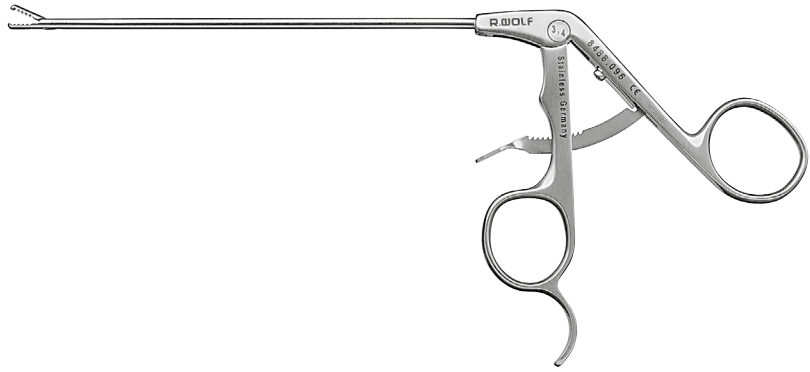

IV20 || Subject to modifications. Please note that some products may not be available in all countries. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.





## Suction Punch with Integrated Suction Channel



	Ø	WL	Product no.
<p><b>Suction punch Ø 2.7 mm</b> with integrated suction channel</p> 	2.7 mm	110 mm	<b>89140.0027</b>







## Grasping Forceps / Miniature Forceps

			
	Ø	WL	Product no.
<b>Grasping forceps Ø 3.4mm</b> straight jaw section, serrated, handle with lock 	3.4 mm	130 mm	<b>8488.096</b>

			
With overload protection and irrigation connector	Sheath Ø	WL	Product no.
<b>Miniature forceps Ø 2.7mm</b>  with double spoon jaw	2.7 mm	110 mm	<b>8486.614</b>
<b>Miniature grasping forceps Ø 2.7mm</b> 			<b>8486.624</b>
<b>Hook punch Ø 2.7mm</b> 			<b>8486.604</b>

## Hook Punch / Punch

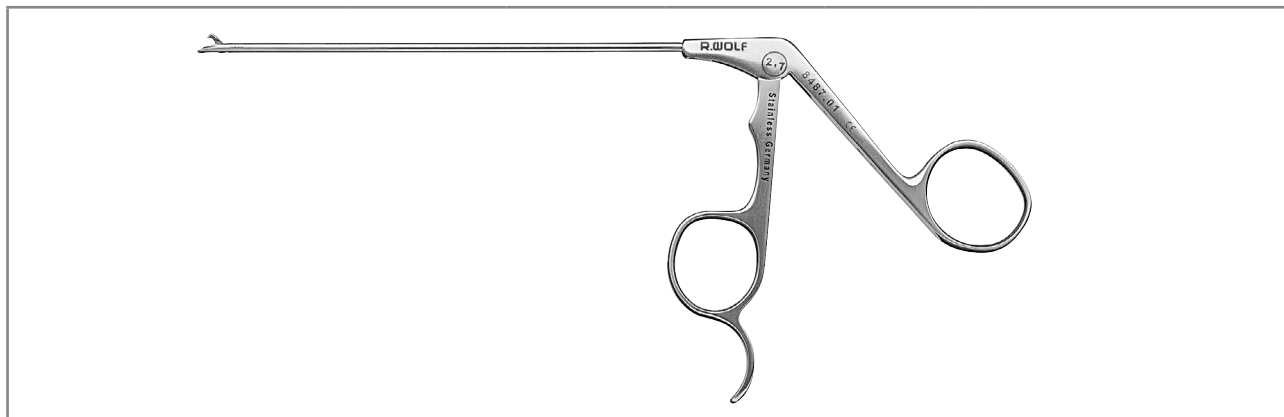






	Sheath Ø	WL	Jaw section (Height x width)	Cut width	Straight	Curved to the left	Curved to the right	Sheath curved 15° upward	Jaw section curved 15° upward	Product no.			
<b>Hook punch Ø 3,4mm with shovel</b>	3,4 mm	130 mm	3,4 x 3,4 mm	1,6 mm	●					8488.951			
						●						8488.952	
Sectional view: 										●			8488.953
											●		8488.954
<b>Hook punch Ø 3.4mm movable jaw section serrated</b>	3,4 mm	130 mm	3,4 x 3,4 mm	1,6 mm	●					8488.02			
											●	8488.025	
<b>Hook punch Ø 3.4mm serrated</b>	3,4 mm	130 mm	1,93 x 3,9 mm	2,7 mm	●					8488.121			
												●	8488.063
<b>Hook punch Ø 4.5mm with shovel, serrated</b>	4,5 mm		1,73 x 5,4 mm	3,4 mm						8489.063			
													
Sectional view: 													

## Punch / Double Spoon Forceps

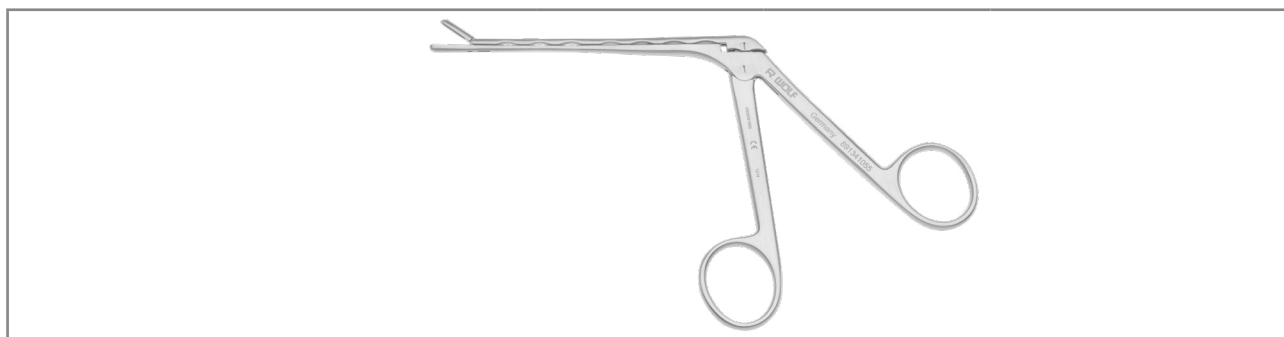
Elbow / Foot


4.3



	Jaw section (Height x width)	Deflection	Cut width	WL	Product no.
<b>Punch Ø 3.4mm</b> front- and side-cutting   Sectional view: 	2.2 x 5.3 mm	90° left	3.4 mm	130 mm	<b>8404.017</b>
		90° right			<b>8404.018</b>
<b>Hook punch with shovel</b> Ø 3.4mm   Sectional view: 	2.1 x 2.0 mm	45° left	1.7 mm		<b>8404.71*</b>
		45° right			<b>8404.81*</b>

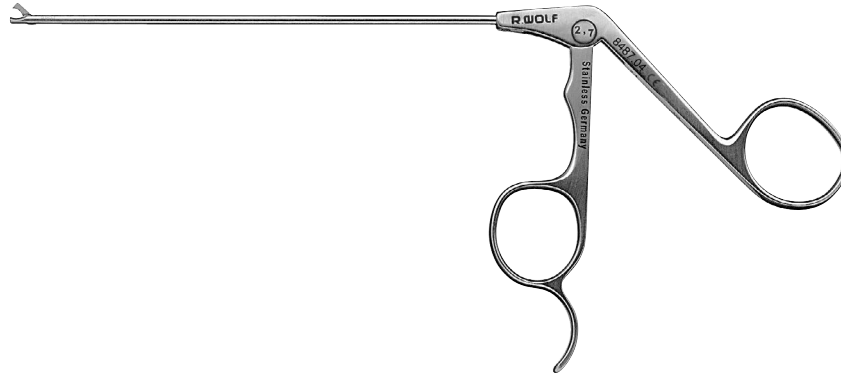
\* particularly suitable for lateral cutting and smoothing








	Jaw section (Height x width)	WL	Product no.
<b>Double spoon forceps W 3.1mm H 4.6mm</b> wave-shaped sheath  	4.6 x 3.1 mm	105 mm	<b>891341055</b>

IV20 || Subject to modifications. Please note that some products may not be available in all countries. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

# Hook Scissors







	WL	Straight jaw section	Straight sheath	Sheath curved to the left	Sheath curved to the right	Product no.	
<b>Hook scissors Ø 2.7mm</b> 	130 mm	●	●			<b>8487.04</b>	
<b>Hook scissors Ø 3.4mm</b> 		●	●			<b>8488.04</b>	
<b>Micro scissors Ø 3.4mm</b>  Sectional view: 		●		●		<b>8488.041</b>	
		●			●		<b>8488.042</b>
		●		●			<b>8488.052</b>
		●				●	<b>8488.053</b>
	WL	Jaw section deflection	Straight sheath		Product no.		
<b>Hook scissors Ø 3.4mm</b> 	130 mm	45° left		●	<b>8404.52</b>		
		45° right		●	<b>8404.62</b>		

Hand Instruments  
Curette / Microfractor

Elbow / Foot

4.3



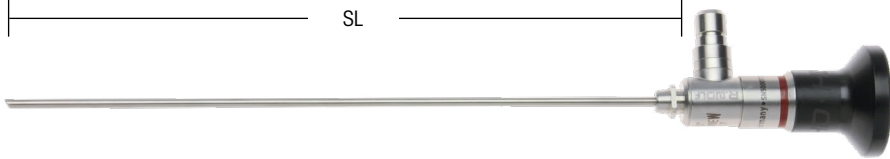
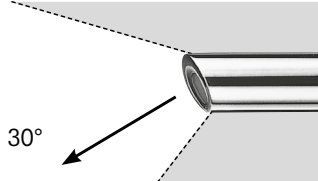
		Deflection	WL	Product no.
<b>Microfractor</b> WL 65mm 30°		Curved 30°	65 mm	<b>891643011</b>
<b>Microfractor</b> WL 65mm 45°		Curved 45°		<b>891644511</b>
<b>Microfractor</b> WL 65mm 60°		Curved 60°		<b>891646011</b>



# Instruments for Endoscopically Assisted Decompression of the Ulnar Nerve

Optical dissector / telescope

		
	WL	Product no.
<b>Opt. dissector WL 158mm graduated</b>	158 mm	<b>891607001</b>

				
<b>AUTOCLAVE 134° C / 273° F</b>				
Direction of view		SL	Ø	Product no.
	<b>PANOVIEW telescope 30° Ø 4mm SL 170mm</b>	170 mm	4.0 mm	<b>8880.543</b>

Recommended accessories		Product no.
<b>Reprocess basket</b>	(W x H x D) 287 x 54 x 59 mm	<b>38020.111</b>
<b>Fiber light cable bndl</b> Comprising: Fiber light cable (80663523), adapter, projector to light cable (8095.07), and adapter, light cable to endoscope (809509)	Ø 3.5 mm, 2.3 m long	<b>806635231</b>

# Instruments for Endoscopically Assisted Decompression of the Ulnar Nerve

## Speculum



	WL	Product no.
<b>Speculum w. Removable light rod WL 55 mm</b> comprising: Speculum WL 55mm (8916070021) and light rod (8916070022)	55 mm	<b>891607002</b>

Elbow / Foot

4.4



**Hand / Fingers / Toes**

## Hand / Fingers / Toes

5.1

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**Arthrolution Arthroscopes Overview**

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5.2

**Telescopes and Sheaths**

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5.3

**Punches / Forceps / Instruments for Small Joints**

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5.4

**ENDO-CARTRIS – Instruments for Carpal Tunnel Release**

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**arthro**  
*lution* Arthroscope

Overview

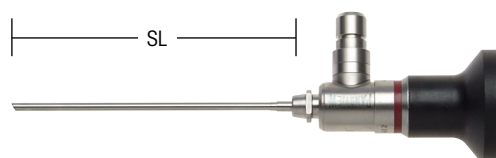
arthro <i>lution</i>			Fingers, toes	Hand	Foot, elbow		Knee, shoulder, hip
Telescope Ø			1.9 mm	2.4 mm	2.7 mm		4.0 mm
Telescopes	30°	PANOVIEW telescope	<b>8860453</b>	<b>8871413</b>	<b>8476.433</b>	<b>8672.422</b>	<b>8880.543</b>
		PANOVIEW wide angle telescope					<b>8885.443</b>
	70°	PANOVIEW telescope					<b>8880.545</b>
		PANOVIEW wide angle telescope					<b>8885.445</b>
Sheath WL			40 mm	60 mm	77.5 mm	145 mm	130 mm
Sheaths	with 1 irrigation stopcock, fixed		<b>891220124</b>	<b>891220132</b>			
	with 2 irrigation stopcocks, fixed						<b>89121.0260</b>
	with 1 irrigation stopcock, rotatable					<b>891241141</b>	
	with 2 irrigation stopcocks, rotatable			<b>891221232</b>	<b>891221241</b>	<b>891241241</b>	<b>89121.1260</b>
	High-Flow with 1 irrigation stopcock, fixed		<b>891220128</b>				
	High-Flow with 2 irrigation stopcocks, rotatable			<b>891221235</b>			<b>89121.1263</b>
	Small-caliber with 2 irrigation stopcocks, rotatable						<b>891221255</b>
Obturator	blunt				<b>891222754</b>		<b>89121.0544</b>
	semi-blunt		<b>891221952</b>	<b>891222452</b>			<b>89121.0542</b>
	conical blunt				<b>891222750</b>	<b>891242750</b>	<b>89121.0540</b>
	sharp					<b>891242761</b>	<b>89121.0640</b>
	conical pointed		<b>891221962</b>	<b>891222462</b>	<b>891222762</b>		
Sealing part for sheath						<b>891040000</b>	

Hand

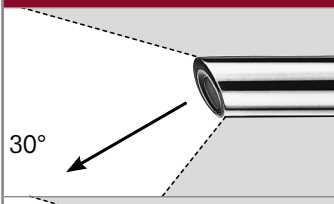
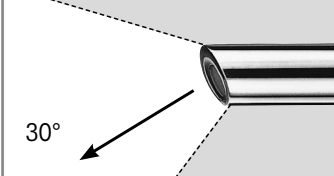
5.1

IV20 || Subject to modifications. Please note that some products may not be available in all countries. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

## Telescope 1.9 mm / 2.4 mm for Standard Arthroscope






**AUTOCLAVE**  
**134° C / 273° F**

Direction of view		SL	∅	Product no.
	PANOVIEW telescope 30° ∅ 1.9mm SL 61mm	61 mm	1.9 mm	<b>8860453</b>
	PANOVIEW telescope ∅ 2.4mm SL 98mm	98 mm	2.4 mm	<b>8871413</b>

Recommended accessories		Product no.
<b>Reprocessing basket</b>	(W x H x D) 287 x 54 x 59 mm	<b>38020.111</b>
<b>Fiber light cable bndl</b> Comprising: Fiber light cable (80663523), adapter, projector to light cable (8095.07), and adapter, light cable to endoscope (809509)	∅ 3.5 mm, 2.3 m long	<b>806635231</b>

**arthro** *lution* Sheath for Arthroscope

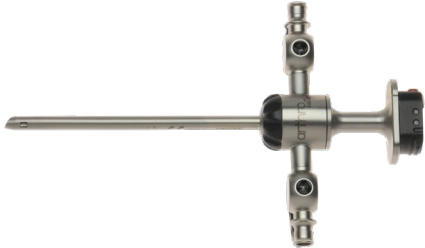


with automatic click-lock mechanism

						
<b>Sheath for arthroscope OD 2.4 mm (telescope Ø 8860453)</b>					<b>Obturator for arthroscope OD 2.4/2.8 mm semi-blunt</b>	<b>Obturator for arthroscope OD 2.4/2.8 mm conical pointed</b>
High-Flow	1 fixed stopcock	Outer Ø	WL	Product no.		
	●	2.4 mm	40 mm	<b>891220124</b>	<b>891221952</b>	<b>891221962</b>
●	●	2.8 mm		<b>891220128</b>		

<b>Spare parts</b>		<b>Product no.</b>
<b>Irrigation ring with 1 stopcock</b>		<b>150081761</b>
<b>Stopcock bndl cap 3.0mm (PACK= 5 PCS)</b>		<b>896.0002</b>
Also: <b>Disassembly tool</b>		<b>38310.0001</b>
<b>Mounting ring</b>		<b>15008.1704</b>
<b>Spare seal set (O-rings)</b>	Comprising: O-ring, small (PACK= 5 PCS) O-ring, large (PACK= 5 PCS)	<b>15176.142</b>
Also: <b>Disassembly tool</b>		<b>15106.230</b>

**arthro** *lution* Sheath for Arthroscope

with automatic click-lock mechanism

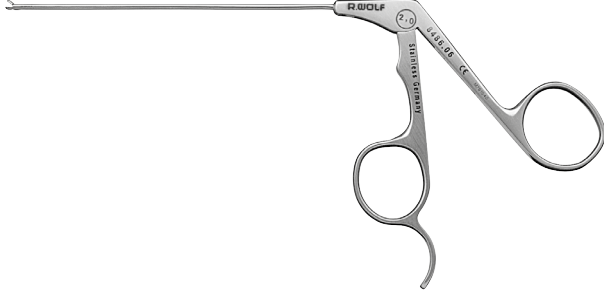
							
<b>Sheath for arthroscope OD 3.2 / 3.5 mm (telescope Ø 8871413)</b>						<b>Obturator for arthroscope OD 3.2/3.5 mm semi-blunt</b>	<b>Obturator for arthroscope OD 3.2/3.5 mm conical pointed</b>
High-Flow	1 fixed stopcock	2 rotatable stopcocks	Outer Ø	WL	Product no.		
	●		3.2 mm	60 mm	<b>891220132</b>	<b>891222452</b>	<b>891222462</b>
		●			<b>891221232</b>		
●		●	3.5 mm		<b>891221235</b>		





Spare parts		Product no.
Irrigation ring with 1 stopcock		<b>150081761</b>
Irrigation ring with 2 stopcocks		<b>150081762</b>
Stopcock bndl cap 3.0mm (PACK= 5 PCS)		<b>896.0002</b>
Also: Disassembly tool		<b>38310.0001</b>
Mounting ring		<b>15008.1704</b>
Spare seal set (O-rings)		<b>15176.142</b>
Also: Disassembly tool		<b>15106.230</b>

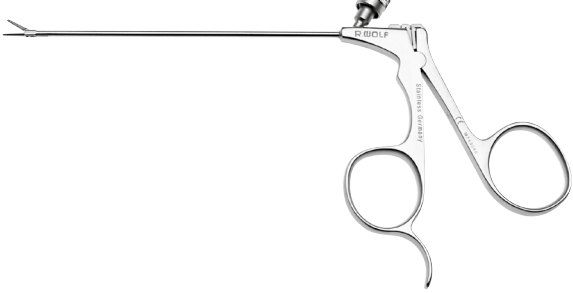
IV20 || Subject to modifications. Please note that some products may not be available in all countries. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.






## Miniature Punch / Forceps








		Ø	WL	Product no.
<b>Hook punch</b> Ø 2 mm		2.0 mm	65 mm	<b>8486.601</b>
<b>Miniature punch</b> Ø 2.2 mm		2.2 mm	75 mm	<b>8486.602</b>
<b>Miniature forceps</b> Ø 2 mm with double spoon jaw		2.0 mm	60 mm	<b>8486.611</b>
<b>Miniature grasping forceps</b> Ø 2 mm		2.0 mm	60 mm	<b>8486.621</b>



		Sheath Ø	WL	Product no.
<b>Miniature forceps</b> Ø 2.7mm with double spoon jaw		2.7 mm	110 mm	<b>8486.614</b>
<b>Miniature grasping forceps</b> Ø 2.7mm				<b>8486.624</b>
<b>Hook punch</b> Ø 2.7mm				<b>8486.604</b>

## Instruments for Small Joints

			
	∅	WL	Product no.
<b>Spoon ∅ 2.4x1mm WL 100mm</b> 	2.4 x 1 mm	100 mm	<b>8871.562</b>
<b>Curette round ∅ 1.45mm WL 100mm</b> 	1.45 mm		<b>8871.571</b>
<b>Knife with handle WL 100mm</b> 	--		<b>8871.586</b>
<b>Hook probe WL 100mm H2mm</b> H = 2.0 mm 	--		<b>8871.721</b>



**FLUID CONTROL**  
**Irrigation and Suction Pumps**

## FLUID CONTROL Irrigation and Suction Pump

6.1

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### FLUID CONTROL Arthro 2204

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## FLUID CONTROL Arthro 2204

Suction and irrigation pump for arthroscopy  
with automatic tube recognition



### FLUID CONTROL Arthro

is a new pump system for arthroscopy and fully endoscopic spinal surgery. The particular strength of this system lies in a practical combination of high performance and a cost-effective overall concept. The new software and technical enhancements make the **FLUID CONTROL Arthro** ideal for diagnostic and therapeutic arthroscopies.

**FLUID CONTROL Arthro** has already been prepared for integration in core, the digital OR from Richard Wolf.

## FLUID CONTROL Arthro 2204

Suction and irrigation pump for arthroscopy  
with automatic tube recognition



### Arthro/spine suc./irrig.pump bndl

for arthroscopy ..... **22040011**

Comprising:

- 1 x arthro/spine suc./irrig.pump 200mmHG ..... 2204001
- 1 x irrigation tube set spike ..... 8171223
- 1 x tube set for vacuum, incl. filter ..... 2206207
- 1 x protection filter for gas filtration ..... 4171.121
- 1 x power cable ..... 2440.03

### Arthro/spine suc./irrig.pump bndl

with Spine Mode software module for arthroscopy and  
fully endoscopic spinal surgery ..... **22040012**

Comprising:

- 1 x arthro/spine suc./irrig.pump 200mmHG ..... 2204001
- 1 x Spine mode software module .....2204101
- 1 x irrigation tube set spike ..... 8171223
- 1 x tube set for vacuum, incl. filter ..... 2206207
- 1 x protection filter for gas filtration ..... 4171.121
- 1 x power cable ..... 2440.03

Recommended accessories		Product no.
Footswitch		<b>2204901</b>

# FLUID CONTROL Arthro 2204

## Irrigation and suction pump for arthroscopy with automatic tube recognition

### Day-patient tube set

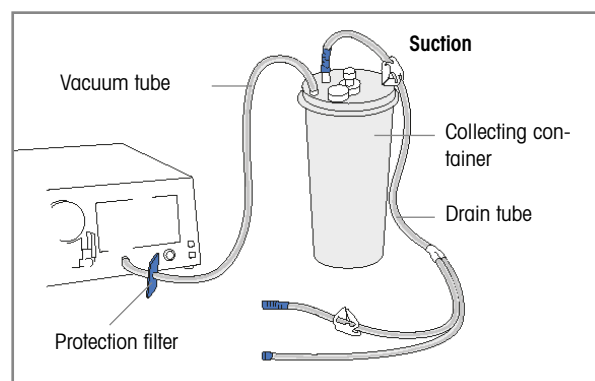
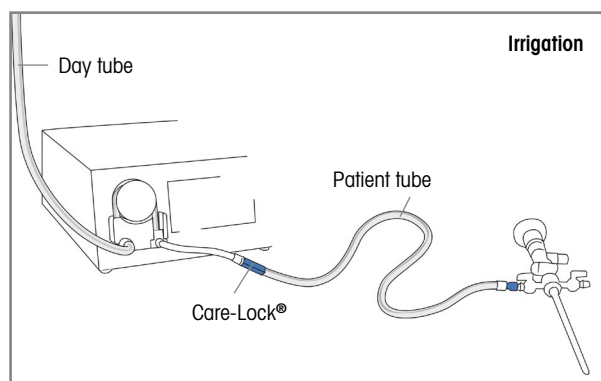
#### From two interventions/patients per day:

Use the **day-patient tube set**, which comprises a day tube and a connected patient tube. The day tube remains in the pump throughout the day, while the patient tube has to be changed for each operation. The irrigation fluid bag can remain on the pump until it has been comple-

tely used up. **This significantly reduces the amount of waste and cuts costs.**

**Further tube versions are available to complement the system.**

**Note:** The use of the day-patient tube set has not been approved for the Spine Mode application.



Irrigation			Product no.
Accessories – reusable	Irrigation tube set spike	With Luer-Lock connection, autoclavable, incl. 10 spare membranes, reusable for 20 reprocessing cycles	8171223
	Irrigation tube set with spike L 3 m	(PACK= 10 PCS), with Luer-Lock connection, sterile, disposable product	4171223
Accessories – disposable	Irrigation tube set CARE-LOCK, L 3 m	(PACK= 10 PCS), sterile, disposable product	4171224
	Day irrigation tube set	(PACK= 10 PCS), with piercing spike, sterile disposable product, PVC	4171226
	Patient irrigation tube set L 3m	(PACK= 10 PCS), with Luer-Lock connection, sterile, disposable product, PVC	4171227
<i>Note: Day tube and patient tube can only be used together. A new patient tube is required for each patient – the day tube can be used for up to 20 patients.</i>			

Suction			Product no.
Accessories – reusable	Tube set for vacuum, incl. filter	with integrated hygiene filter, PACK= 10 PCS, service life of 30 days (connected to irrigation pump)	2206207
Accessories – disposable	Secretion container, 2 L	2 liters, no lid	8170.6551
	Secretion container, 2.5 L	2.5 liters (PACK= 2 PCS)	41706566
	Tube set, L 5 m	PVC, with Y connector, length 5 m, sterile, disposable, (PACK= 10 PCS) for connecting instruments to collecting container	4170.901

IV20 || Subject to modifications. Please note that some products may not be available in all countries. For more detailed information, please consult with your contact partner or directly with Richard Wolf GmbH.

## Technical Data

### FLUID CONTROL Arthro 2204

<b>Arthro/spine suc./irrig.pump 200mmHG</b>	<b>2204001</b>
Power supply connection	100–240 VAC, 50/60 Hz
Power consumption	118 VA
Protection class to VDE 0750 / IEC 601	1
Classification	CF
Pressure range (infinite preselection)	15–200 mmHg
Delivery rate (can be preselected in 50 ml increments)	0–2 l/min
Dimensions (W x H x D)	300 x 157 x 436 mm
Weight	8.3 kg
Interfaces	USB / CAN bus (core) service interface





## Universal Motor Systems

## Universal Motor Systems

6.1

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**PowerSpeed AS1** Universal Motor System

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6.2

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**Power Stick M5/3 and M5/0** Motor Handpieces for PowerSpeed AS1

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6.3

**Reusable Shaver Blades and Burrs**

for Power Stick M5/3, Power Stick M5/0, and Micro Stick S1

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6.4

**Disposable Shaver Blades and Burrs**

for Power Stick M5/3, Power Stick M5/0, and Micro Stick S1

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## PowerSpeed AS1

### Universal motor system



**The PowerSpeed AS1 motor system has been developed for universal use and provides extremely comfortable and ergonomic handling.**

**Quick and powerful resecting, drilling, burring, or sawing – anything is possible.**

- Wide range of disposable and reusable shaver blades and burrs
- Intelligent tool detection via RFID chip
- Touchscreen makes user interface easy to operate
- Communication interface with FLUID CONTROL ArthroPump 2204 and **core nova**
- Universal use of all current Richard Wolf motor handpieces
- Wireless footswitch
- Universal use in spinal surgery, bronchoscopy, and arthroscopy

# PowerSpeed AS1

## Universal motor system

Motor Systems  
6.1




### MOTOR CONTROL UNIT 2305

Power supply connection 50/60 Hz, 100–240 V

includes power supply cable,

CAN bus connection cable, and packaging ..... **2305001**

Universal motor system for orthopedics and spinal surgery, for connecting motor handpieces when working with shaver and high-speed applications, and for connecting the Power Drill M1.

Recommended accessories		Product no.
Remote footswitch 2 pedals+2 buttons		<b>2305100</b>
Also:		
Power supply unit 6600403		<b>FW8002M/08</b>
Backup cable, WL 3m		<b>2305300</b>

# Technical Data

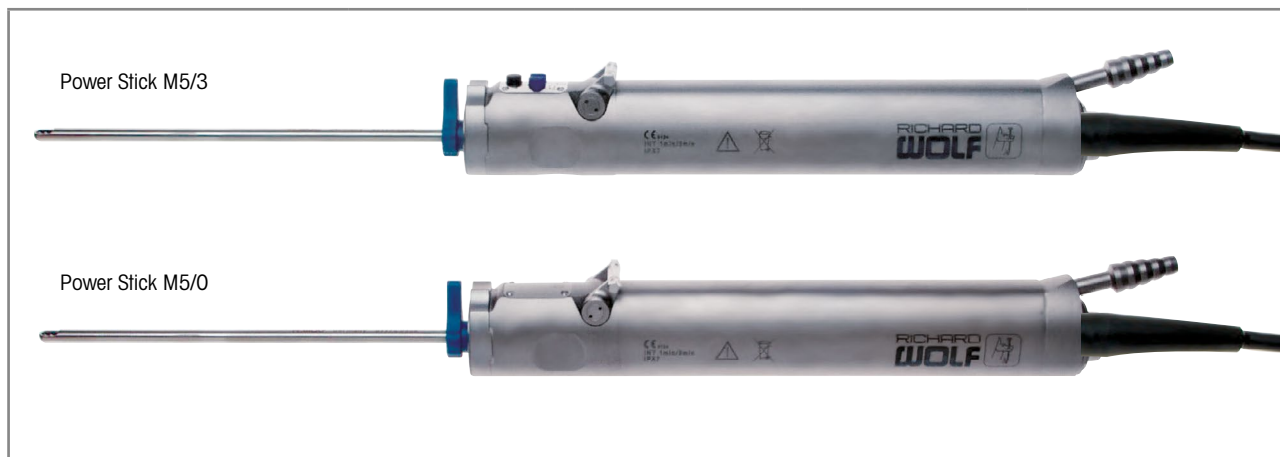
## PowerSpeed AS1

MOTOR CONTROL UNIT 2305	2305001
Power supply connection	100–240 VAC, 50/60 Hz
Power consumption	250 VA
Electromagnetic compatibility EMC to	IEC / EN 60601-1-2
Medical Devices Directive 93/42/EEC	Class IIa
Protection class to IEC / EN 60601-1 (ANSI / AAMI ES60601-1 / CAN CSA-C22.2 No. 60601-1)	I
Protection against electric shock	Type BF applied part
Degree of protection against the ingress of liquids	IP 20 (not protected)
Operating mode	Continuous operation
Degree of protection in the presence of flammable mixtures	Device is not protected against explosions (do not operate device in areas where there is a danger of explosion)
Weight	9.2 kg
Dimensions (W x H x D)	300 x 159.5 x 404 mm

## Power Stick M5/3

## Power Stick M5/0

### Motor Handpieces for PowerSpeed AS1



For driving rotation tools with three function buttons			Ø for shaver tools	Product no.
Power Stick M5/3 <b>Motor handpiece max. 16000 rpm</b>	with fixed connection cable, 3.0 m	Operated via button cluster and footswitch	2–6.5 mm	<b>8995500031</b>
	with removable connection cable, 3.0 m			<b>89955.0003</b>
For driving rotation tools			Ø for shaver tools	Product no.
Power Stick M5/0 <b>Motor handpiece max. 16000 rpm</b>	with fixed connection cable, 3.0 m	Operated via footswitch	2–6.5 mm	<b>8995500001</b>
	with removable connection cable, 3.0 m			<b>89955.0000</b>

- Handpieces with/without control panel
- Up to 16,000 rpm
- For tools with a diameter of 2.5–6.5 mm
- Oscillation frequency of up to 4 Hz

Recommended accessories		Product no.
<b>Connection cable, WL 3m</b>	3.0 m long	<b>8564.851</b>
RIWO-System-Tray <b>Steri container W 200 mm L 400mm H 60mm</b> incl. lid and peg mats for motor handpiece and shaver blade	(W x H x D) 400 x 60 x 200 mm	<b>38201.486</b>

# Micro Stick S1

Motor handpiece for PowerSpeed AS1



For driving rotation tools with one function button			Ø for shaver tools	Product no.
<b>Motor handpiece max. 3000 rpm</b>	with fixed connection cable, 3.0 m	Operated via the ON/OFF button	2–3.5 mm	<b>899510001</b>

- Mini motor handpiece for exceptional precision in small joints
- Up to 3,000 rpm
- Practical range of accessories
- For shaver tools with a diameter of 2–3.5 mm





Recommended accessories	Product no.	
RIWO-System-Tray <b>Steri container W 200 mm L 400 mm H 60 mm</b> incl. lid and peg mats for motor handpiece and shaver blade	(W x H x D) 400 x 600 x 200 mm	<b>38201.486</b>



## Reusable Shaver Blades and Burrs

for Power Stick M5/3 and M5/0 motor handpiece,  
large interface









	Reusable (1 PC)	Color coding	WL	∅	Product no.
	Resector smooth ∅ 3.5mm	canary yellow	130 mm	3.5 mm	<b>899750003</b>
	Resector smooth ∅ 4.5mm			4.5 mm	<b>899750004</b>
	Resector smooth ∅ 5.5mm			5.5 mm	<b>899750005</b>
	Resector toothed ∅ 2mm	ocher	45 mm	2.0 mm	<b>89975.0032</b>
	Resector toothed ∅ 2.7mm		80 mm	2.7 mm	<b>899750132</b>
	Resector toothed ∅ 3.5mm		130 mm	3.5 mm	<b>89975.0033</b>
	Resector toothed ∅ 4.5mm			4.5 mm	<b>89975.0034</b>
	Resector toothed ∅ 5.5mm			5.5 mm	<b>89975.0035</b>
	Resector aggress ∅ 2.7mm	red	80 mm	2.7 mm	<b>899750332</b>
	Resector aggress ∅ 3.7mm		130 mm	3.7 mm	<b>89975.0333</b>
	Resector aggress ∅ 4.7mm			4.7 mm	<b>89975.0334</b>
	Resector aggress ∅ 5.85mm			5.85 mm	<b>899750335</b>
	Resector oval ∅ 3.5mm	white	130 mm	3.5 mm	<b>89975.0113</b>
	Resector oval ∅ 4.5mm			4.5 mm	<b>89975.0114</b>
	Resector oval ∅ 5.5mm			5.5 mm	<b>89775.0115</b>



## Reusable Shaver Blades and Burrs

for Power Stick M5/3 and M5/0 motor handpiece,  
large interface



	Reusable (1 PC)	Color coding	WL	Ø	Product no.
	Resector convex curved smooth Ø 3.5mm	canary yellow	130 mm	3.5 mm	<b>89975.0253</b>
	Resector convex curved smooth Ø 4.5mm			4.5 mm	<b>89975.0254</b>
	Resector concave curved smooth Ø 3.5mm	canary yellow	130 mm	3.5 mm	<b>89975.0263</b>
	Resector concave curved smooth Ø 4.5mm			4.5 mm	<b>89975.0264</b>
	End cutter Ø 3.5mm	black	130 mm	3.5 mm	<b>89975.0493</b>
	End cutter Ø 4.5mm			4.5 mm	<b>89975.0494</b>
 with lateral protection	Burr round Ø 3mm	gulf blue	80 mm	3.0 mm	<b>89975.0503</b>
	Burr round Ø 4.5mm		130 mm	4.5 mm	<b>89975.0504</b>
	Burr round Ø 5.5mm			5.5 mm	<b>89975.0505</b>
 no hood	Burr round Ø 6mm	royal blue	130 mm	6.0 mm	<b>89975.0516</b>
 with lateral protection	Acromionizer Ø 3.5mm	purple	130 mm	3.5 mm	<b>89975.0553</b>
	Acromionizer Ø 4.5mm			4.5 mm	<b>89975.0554</b>
	Acromionizer Ø 5.5mm			5.5 mm	<b>89975.0555</b>
	Acromionizer Ø 6.5mm			6.5 mm	<b>89975.0556</b>

## Reusable Shaver Blades and Burrs

for Power Stick M5/3 and M5/0 motor handpiece  
for hip arthroscopy



	Reusable (1 PC)	Color coding	WL	Ø	Product no.
	Resector toothed Ø 4.7mm	ocher	200 mm	4.7 mm	899732004*
	Resector aggress Ø 4.7mm	red	200 mm	4.7 mm	899732334*
	Resector convex curved aggress Ø 4.7mm	red	200 mm	4.7 mm	899732254
	Resector convex curved aggress Ø 4.7mm	red	200 mm	4.7 mm	899732264
 with 2 mm retracted lateral protection	Burr round Ø 5.5mm	gulf blue	200 mm	5.5 mm	899732504
 with 2 mm retracted lateral protection	Acromionizer Ø 5.5mm	purple	200 mm	5.5 mm	899732555

\* Shaver blade with distal guide hole for guide wire Ø 2.0 mm

## Reusable Shaver Blades and Burrs

for Micro Stick S1,  
small interface



	Reusable (1 pc)	Color coding	WL	∅	Product no.
	Resector toothed ∅ 2mm	ocher	45 mm	2.0 mm	<b>89971.0032</b>
	Resector toothed ∅ 3.5mm		130 mm	3.5 mm	<b>89971.0033</b>
	Resector toothed ∅ 4.5mm			4.5 mm	<b>89971.0034</b>
	Resector toothed ∅ 2.5mm		80 mm	2.5 mm	<b>899710132</b>
	Resector aggress ∅ 2.7mm	red	80 mm	2.7 mm	<b>899710332</b>
	Resector oval ∅ 3.5mm	white	130 mm	3.5 mm	<b>89971.0113</b>
	Resector oval ∅ 4.5mm			4.5 mm	<b>89971.0114</b>
	Resector convex curved smooth ∅ 4.5mm	canary yellow	130 mm	4.5 mm	<b>89971.0254</b>
	Resector concave curved smooth ∅ 4.5mm	canary yellow	130 mm	4.5 mm	<b>89971.0264</b>
 with lateral protection	Burr round ∅ 3mm	gulf blue	80	3.0 mm	<b>89971.0503</b>

## Disposable Shaver Blades and Burrs

for Power Stick M5/3 and M5/0 motor handpiece



	Disposable (5 PCS, in individual sterile packaging)	Color coding	WL	Ø	Product no.
	Resector smooth Ø 3.5mm	canary yellow	130 mm	3.5 mm	<b>49975.0003</b>
	Resector smooth Ø 4.5mm			4.5 mm	<b>49975.0004</b>
	Resector smooth Ø 5.5mm			5.5 mm	<b>49975.0005</b>
	Resector toothed Ø 3.5mm	ocher	130 mm	3.5 mm	<b>49975.0033</b>
	Resector toothed Ø 4.5mm			4.5 mm	<b>49975.0034</b>
	Resector toothed Ø 5.5mm			5.5 mm	<b>49975.0035</b>
	Resector aggress Ø 2.5mm	red	80 mm	2.5 mm	<b>499750332</b>
	Resector aggress Ø 3.5mm		130 mm	3.5 mm	<b>49975.0333</b>
	Resector aggress Ø 4.5mm			4.5 mm	<b>49975.0334</b>
	Resector aggress Ø 5.5mm			5.5 mm	<b>49975.0335</b>
	Resector oval Ø 3.5mm	white	130 mm	3.5 mm	<b>49975.0113</b>
	Resector oval Ø 4.5mm			4.5 mm	<b>49975.0114</b>
	Resector oval Ø 5.5mm			5.5 mm	<b>49975.0115</b>

## Disposable Shaver Blades and Burrs

for Power Stick M5/3 and M5/0 shaver handle






	Disposable (5 PCS. in individual sterile packaging)	Color coding	WL	Ø	Product no.
	Resector convex curved smooth Ø 3.5mm	canary yellow	130 mm	3.5 mm	<b>49975.0253</b>
	Resector convex curved smooth Ø 4.5mm			4.5 mm	<b>49975.0254</b>
	Resector convex curved smooth Ø 5.5mm			5.5 mm	<b>49975.0255</b>
	Resector concave curved smooth Ø 3.5mm	canary yellow	130 mm	3.5 mm	<b>49975.0263</b>
	Resector concave curved smooth Ø 4.5mm			4.5 mm	<b>49975.0264</b>
	Resector concave curved smooth Ø 5.5mm			5.5 mm	<b>49975.0265</b>
	End cutter Ø4.5 mm	black	130 mm	4.5 mm	<b>49975.0494</b>
 with lateral protection	Burr round Ø 4.5mm	gulf blue	130 mm	4.5 mm	<b>49975.0504</b>
 no hood	Burr round Ø 6mm	gulf blue	130 mm	6.0 mm	<b>49975.0516</b>
 with lateral protection	Acromionizer Ø 3.5mm	purple	130 mm	3.5 mm	<b>49975.0553</b>
	Acromionizer Ø 4.5mm			4.5 mm	<b>49975.0554</b>
	Acromionizer Ø 5.5mm			5.5 mm	<b>49975.0555</b>
	Acromionizer Ø 6.5mm			6.5 mm	<b>49975.0556</b>

## Disposable Shaver Blades and Burrs

for Power Stick M5/3 and M5/0 shaver handle

for hip arthroscopy



	Disposable (5 PCS, in individual sterile packaging)	Color coding	WL	∅	Product no.
	<b>Resector curved universal ∅ 4.5mm</b>	gray	160 mm	4.5 mm	<b>499732274</b>
 with 2 mm retracted lateral protection	<b>Resector universal ∅ 4.5mm</b>	gray	160 mm	4.5 mm	<b>499732344</b>
 with 2 mm retracted lateral protection	<b>Burr oval ∅ 5.5mm</b>	purple	160 mm	5.5 mm	<b>499732565</b>

# Disposable Shaver Blades and Burrs

for Micro Stick S1



	Disposable (5 PCS, in individual sterile packaging)	Color coding	WL	∅	Product no.
	<b>Resector toothed ∅ 2mm</b>	ocher	45 mm	2.0 mm	<b>49971.0032</b>
	<b>Resector toothed ∅ 3.5mm</b>		130 mm	3.5 mm	<b>49971.0033</b>
	<b>Resector aggress ∅ 2.5mm</b>	red	80 mm	2.5 mm	<b>499710332</b>
	<b>Resector oval ∅ 3.5mm</b>	white	130 mm	3.5 mm	<b>49971.0113</b>
 with lateral protection	<b>Burr round ∅ 3mm</b>	gulf blue	130 mm	3.0 mm	<b>49971.0503</b>
 with lateral protection	<b>Burr oval ∅ 3.5mm</b>	canary yellow	130 mm	3.5 mm	<b>49971.0553</b>

