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thorax, herz, gefäße  
cardiovascular  
cardiovascular  
cardiovasculaire  
cardiovascolare

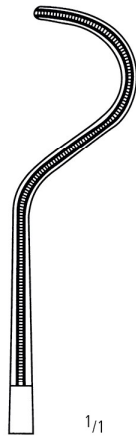
nopa<sup>®</sup> instruments



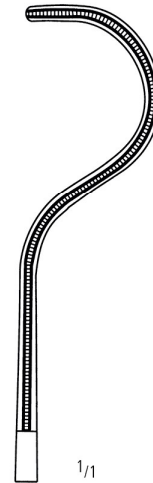
Atrauma-Klemmen  
 Atrauma Forceps  
 Pinzas Atrauma  
 Pincès atraumatiques  
 Pinze Atrauma



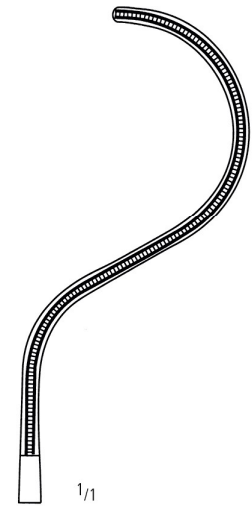
**DE BAKEY**



KK 523/17  
 17,0 cm/6<sup>1</sup>/<sub>2</sub>"

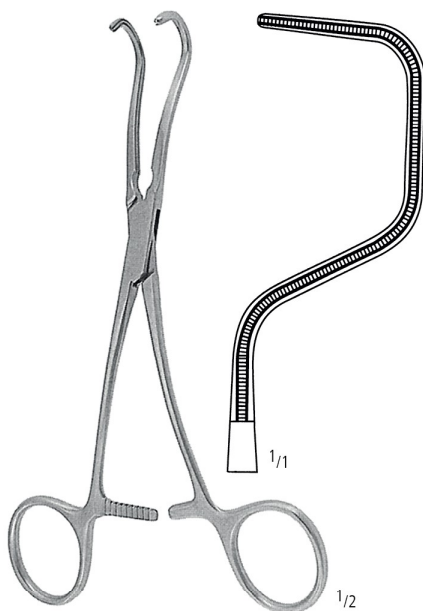


KK 523/18  
 18,0 cm/7"

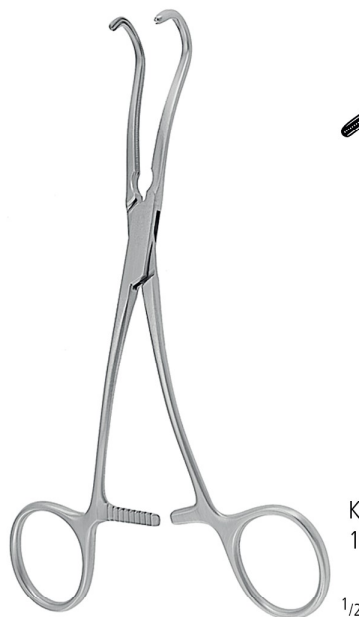


KK 523/19  
 18,5 cm/7<sup>1</sup>/<sub>4</sub>"

**DALE**



**DALE**  
 KK 525/18  
 18,5 cm/7"



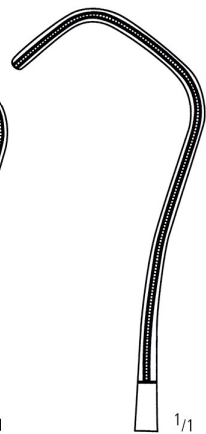
**DERRA**



KK 527/16  
 16,0 cm/6<sup>1</sup>/<sub>4</sub>"



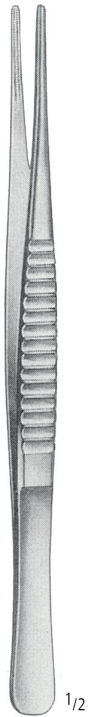
KK 527/17  
 17,0 cm/6<sup>3</sup>/<sub>4</sub>"



KK 527/18  
 18,0 cm/7"

**AB** PINZETTEN FORCEPS PINZAS PINCES PINZE

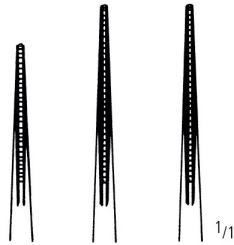
Atraumatische Pinzetten  
 Non-traumatic Vascular Tissue Forceps  
 Pinzas Atrauma  
 Pincas Atrauma  
 Pinze Atrauma



1/2

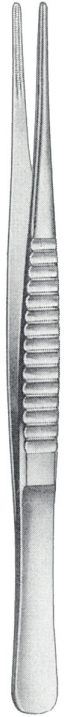
**DE BAKAY**

AB 860/16 = 16,0 cm/6 1/4"  
 AB 860/20 = 20,0 cm/8"  
 AB 860/24 = 24,0 cm/9 1/2"



1,5 mm

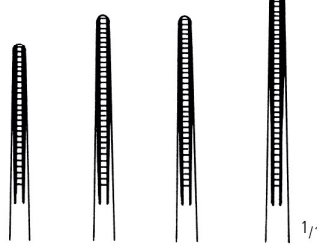
1/1



1/2

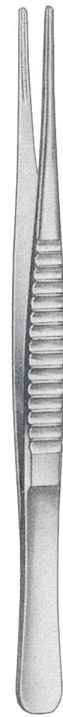
**DE BAKAY**

AB 862/16 = 16,0 cm/6 1/4"  
 AB 862/20 = 20,0 cm/8"  
 AB 862/24 = 24,0 cm/9 1/2"  
 AB 862/30 = 30,0 cm/12"



2,0 mm

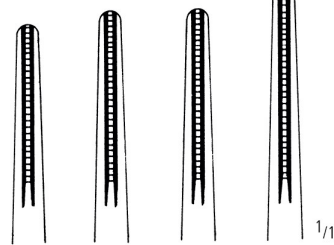
1/1



1/2

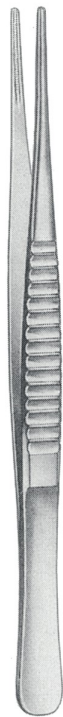
**DE BAKAY**

AB 864/16 = 16,0 cm/6 1/4"  
 AB 864/20 = 20,0 cm/8"  
 AB 864/24 = 24,0 cm/9 1/2"  
 AB 864/30 = 30,0 cm/12"



2,8 mm

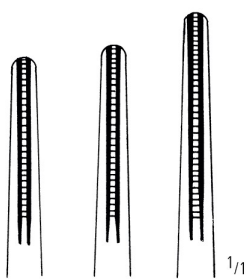
1/1



1/2

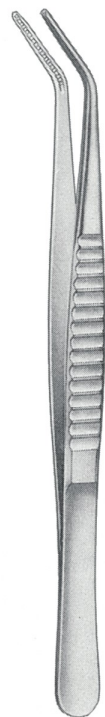
**DE BAKAY**

AB 866/20 = 20,0 cm/8"  
 AB 866/24 = 24,0 cm/9 1/2"  
 AB 866/30 = 30,0 cm/12"



3,5 mm

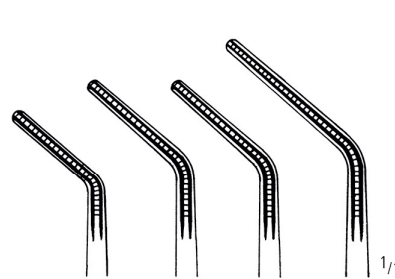
1/1



1/2

**DE BAKAY**

AB 869/16 = 16,0 cm/6 1/4"  
 AB 869/20 = 20,0 cm/8"  
 AB 869/24 = 24,0 cm/9 1/2"  
 AB 869/30 = 30,0 cm/12"



2,0 mm

1/1

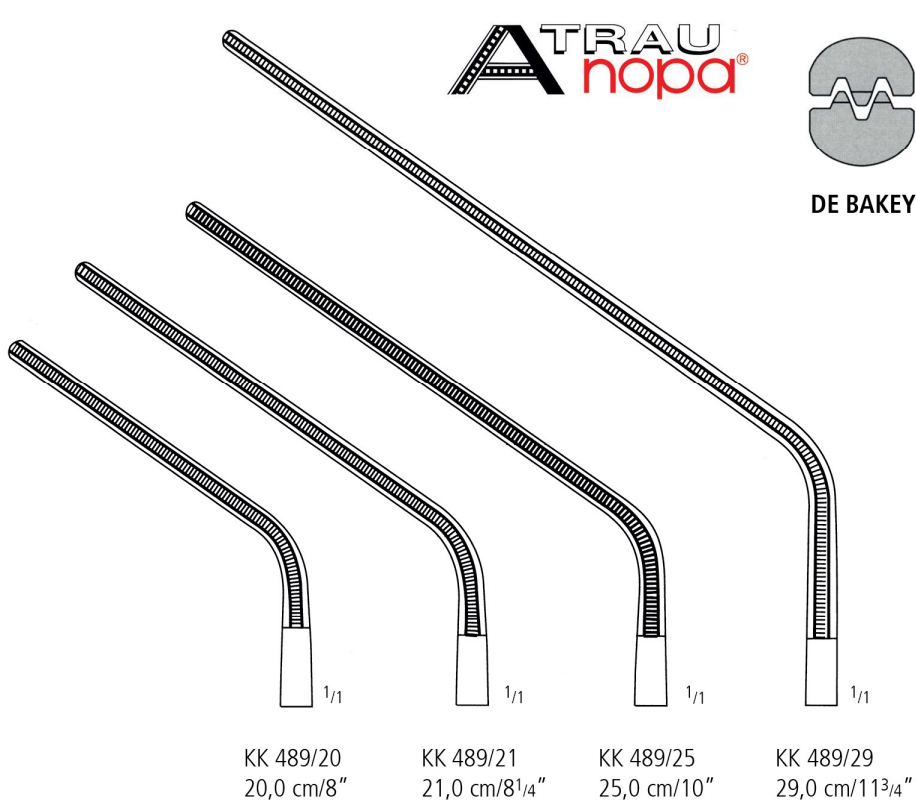
Atrauma-Klemmen  
 Atrauma Forceps  
 Pinzas Atrauma  
 Pincès atraumatiques  
 Pinze Atrauma

AA  
 AB  
 AC  
 AD  
 AE  
 AF  
 AK  
 AL  
 AO  
 KA  
 KK  
 X

**KK**



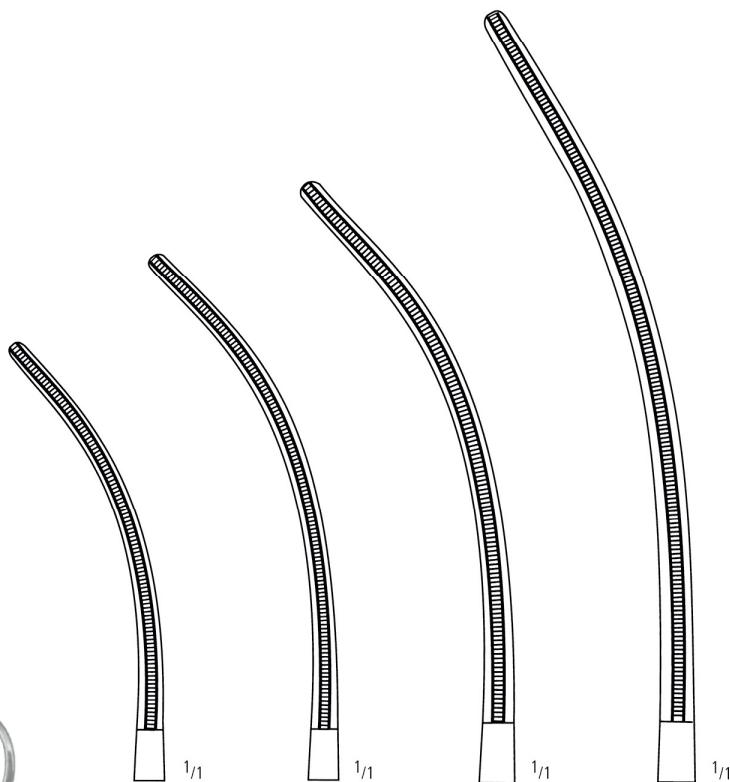
DE BAKEY



KK 489/20 20,0 cm/8"  
 KK 489/21 21,0 cm/8<sup>1</sup>/<sub>4</sub>"  
 KK 489/25 25,0 cm/10"  
 KK 489/29 29,0 cm/11<sup>3</sup>/<sub>4</sub>"



DE BAKEY



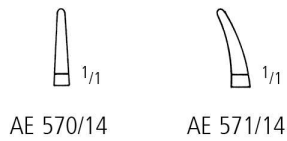
KK 491/21 21,5 cm/8<sup>1</sup>/<sub>2</sub>"  
 KK 491/23 23,0 cm/9"  
 KK 491/27 27,0 cm/10<sup>1</sup>/<sub>2</sub>"  
 KK 491/31 31,0 cm/12<sup>1</sup>/<sub>2</sub>"



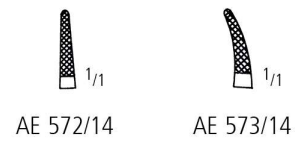
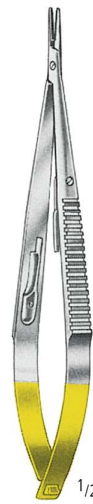
DE BAKEY

**AE** NAHT SUTURE SUTURA SUTURE SUTURA

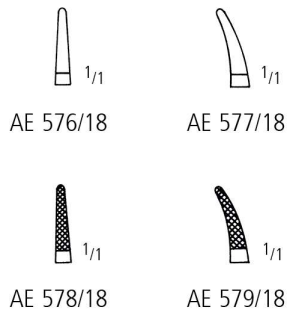
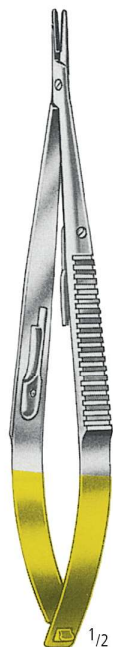
Mikro-Nadelhalter mit Hartmetalleinsätzen  
 Micro-Needle Holders with Tungsten Carbide Inserts  
 Micro-Porta-agujas con bocas de carburo de Tungsteno  
 Micro-Porte-aiguilles à mors en carbure de tungstène  
 Micro-Portaghi con placche di carburo di tungsteno



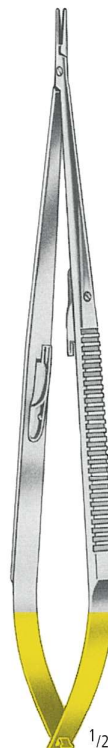
**CASTROVIEJO**  
 14,0 cm/5 1/2"



**CASTROVIEJO**  
 14,0 cm/5 1/2"



18,0 cm/7"

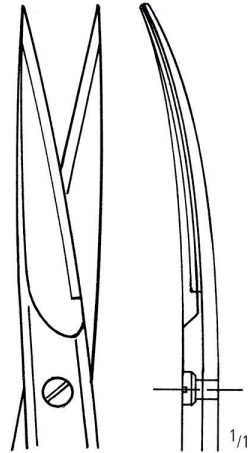
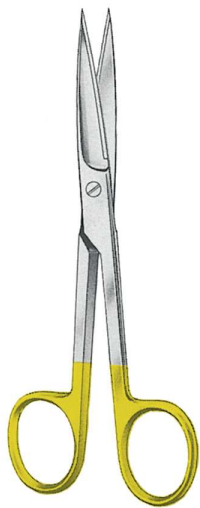


**JACOBSON**  
 21,0 cm/8 1/4"

SCHEREN SCISSORS TIJERAS CISEAUX FORBICI

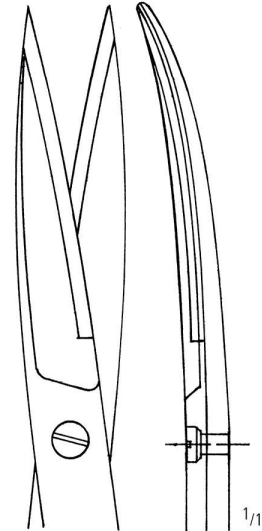
Scheren mit Hartmetalleinlagen  
 Scissors with Tungsten Carbide Inserts  
 Tijeras con filos de carburo de tungsteno  
 Ciseaux avec plaquettes en carbure de tungstène  
 Forbici con taglio al carburo di tungsteno

AA  
 AB  
**AC**  
 AD  
 AE  
 AF  
 AK  
 AL  
 AO  
 KA  
 KK  
 X



**STANDARD**  
 Fig. 3

14,5 cm/5<sup>3</sup>/<sub>4</sub>"  
 straight: AC 904/14  
 curved: AC 905/14



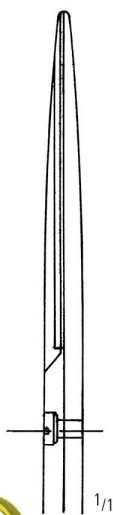
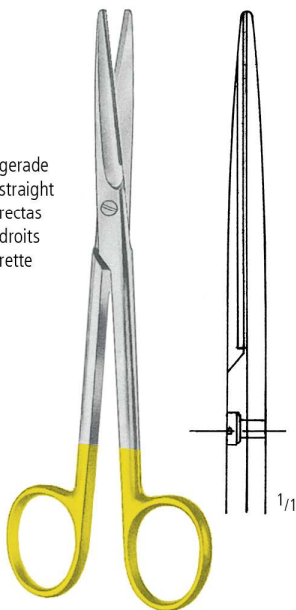
16,5 cm/6<sup>1</sup>/<sub>2</sub>"  
 AC 904/16  
 AC 905/16



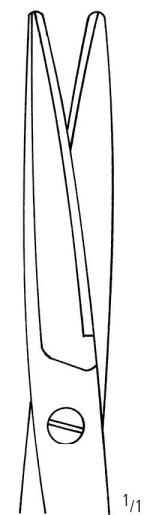
18,5 cm/7<sup>1</sup>/<sub>3</sub>"  
 AC 904/18  
 AC 905/18

nopa<sup>®</sup>  
**TUC**

gerade  
 straight  
 rectas  
 droits  
 rette



**MAYO**  
 AC 910/14\*  
 AC 910/17\*  
 AC 910/23

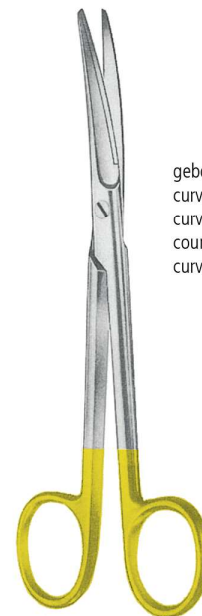


Original 17,0 cm

14,5 cm/5<sup>1</sup>/<sub>2</sub>"  
 17,0 cm/6<sup>3</sup>/<sub>4</sub>"  
 23,0 cm/9"



gebogen  
 curved  
 curvas  
 courbes  
 curve

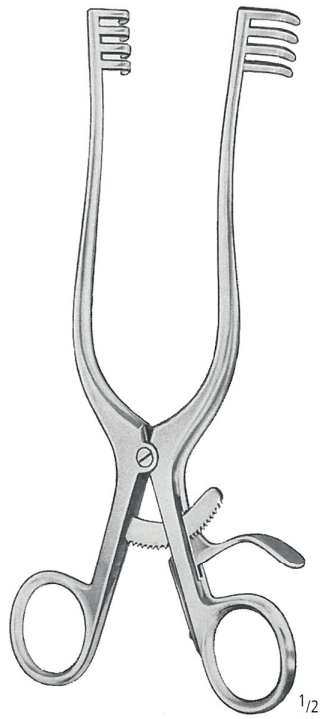


**MAYO**  
 AC 911/14\*  
 AC 911/17\*  
 AC 911/23

**AK**

WUNDHAKEN RETRACTORS SEPARADORES ECARTEURS DIVARICATORI

Selbsthaltende Wundsperrer  
 Selfretaining Retractors  
 Separadores autoestaticos  
 Ecarteurs autostatiques  
 Divaricatori autostatici



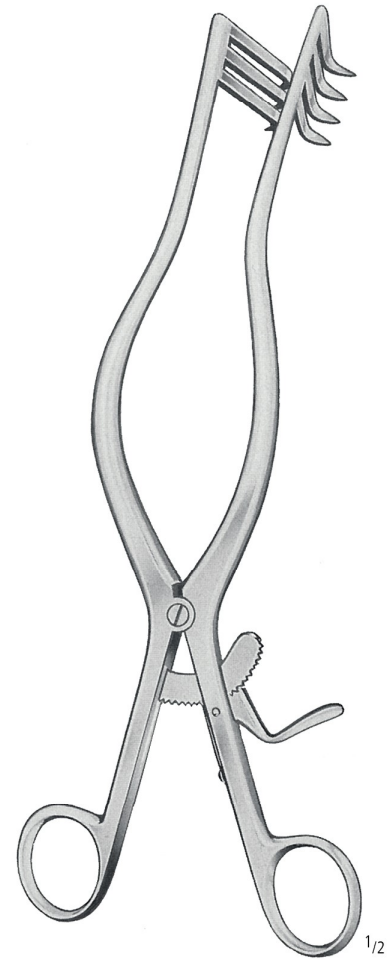
**ADSON**

AK 554/20      AK 555/20  
 20,0 cm/8"



**ANDERSON-ADSON**

AK 556/20      AK 557/20  
 20,0 cm/8"

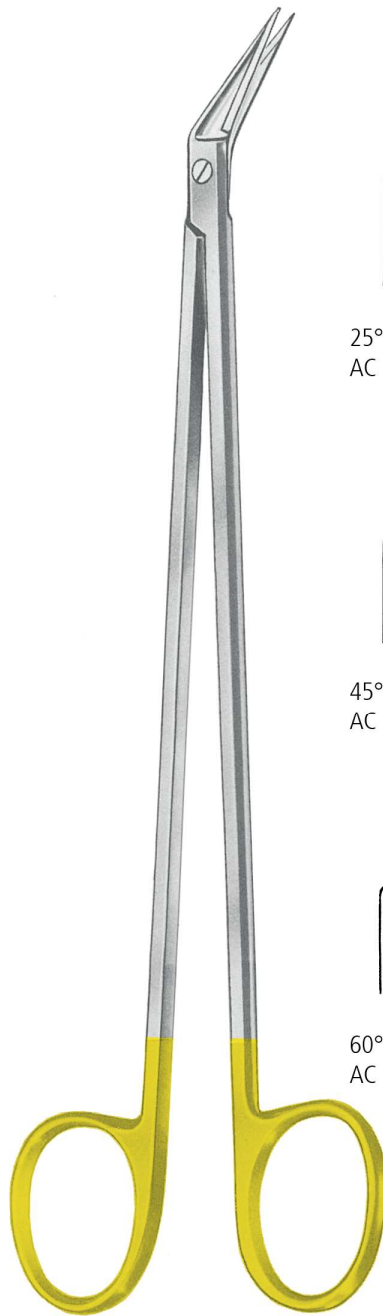


**ADSON**

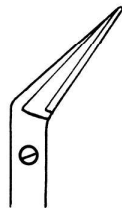
AK 558/27      AK 559/27  
 27,0 cm/10<sup>3</sup>/<sub>4</sub>"

SCHEREN SCISSORS TIJERAS CISEAUX FORBICI

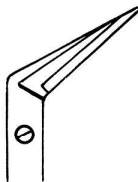
Scheren mit Hartmetalleinlagen  
 Scissors with Tungsten Carbide Inserts  
 Tijeras con filos de carburo de tungsteno  
 Ciseaux avec plaquettes en carbure de tungstène  
 Forbici con taglio al carburo di tungsteno



25°  
AC 948/25

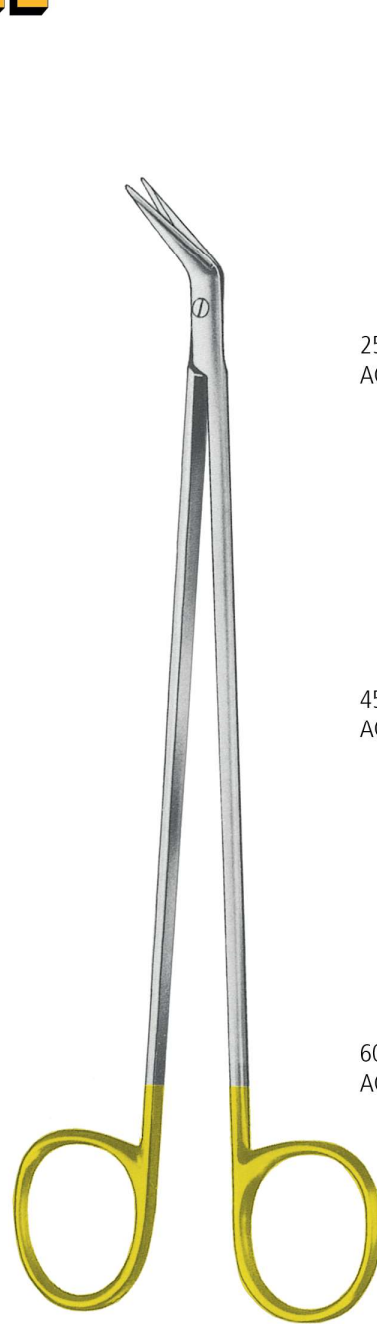


45°  
AC 948/45

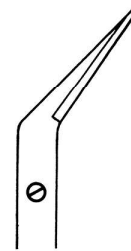


60°  
AC 948/60

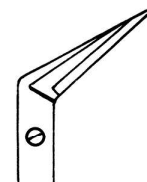
**POTT-SMITH**  
19,0 cm/7 1/2"



25°  
AC 949/25



45°  
AC 949/45



60°  
AC 949/60

**DE BAKEY**  
18,0 cm/7"

- AA
- AB
- AC
- AD
- AE
- AF
- AK
- AL
- AO
- KA
- KK
- X






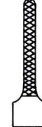



NAHT SUTURE SUTURA SUTURE SUTURA

Nadelhalter mit Hartmetalleinsätzen  
 Needle Holders with Tungsten Carbide Inserts  
 Porta-agujas con bocas de carburo de tungsteno  
 Porte-aiguilles à mors en carbure de tungstène  
 Portaghi con placche di carburo di tungsteno



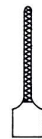



AA  
AB  
AC  
AD  
**AE**  
AF  
AK  
AL  
AO  
KA  
KK  
X

**RYDER/FRENCH-EYE**











					
AE 430/13 13,0 cm/5"	AE 430/15 15,0 cm/6"	AE 430/18 18,0 cm/7"	AE 430/20 20,0 cm/8"	AE 430/23 23,0 cm/9"	AE 430/26 26,0 cm/10 <sup>1</sup> / <sub>2</sub> "

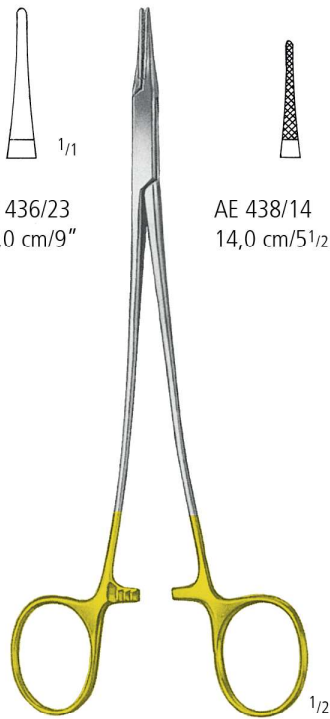
**MICRO RYDER**

					
AE 434/13 13,0 cm/5"	AE 434/15 15,0 cm/6"	AE 434/18 18,0 cm/7"	AE 434/20 20,0 cm/8"	AE 434/23 23,0 cm/9"	AE 434/26 26,0 cm/10 <sup>1</sup> / <sub>2</sub> "




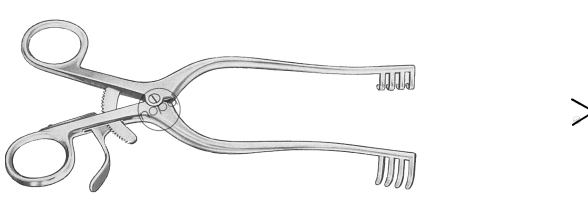
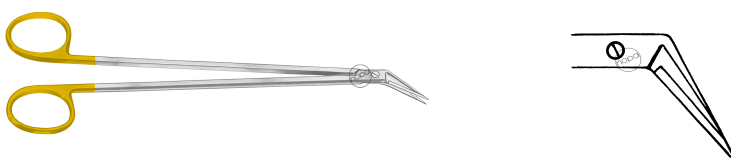
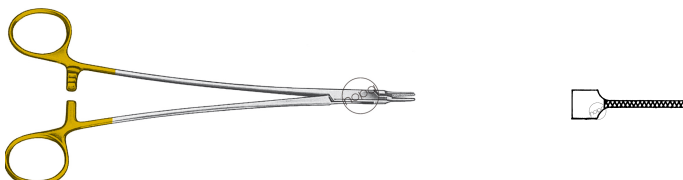
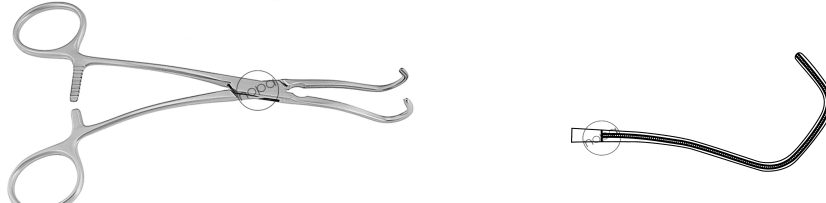
							
AE 436/14 14,0 cm/5 <sup>1</sup> / <sub>2</sub> "	AE 436/18 18,0 cm/7"	AE 436/20 20,0 cm/8"	AE 436/23 23,0 cm/9"	AE 438/14 14,0 cm/5 <sup>1</sup> / <sub>2</sub> "	AE 438/18 18,0 cm/7"	AE 438/20 20,0 cm/8"	AE 438/23 23,0 cm/9"

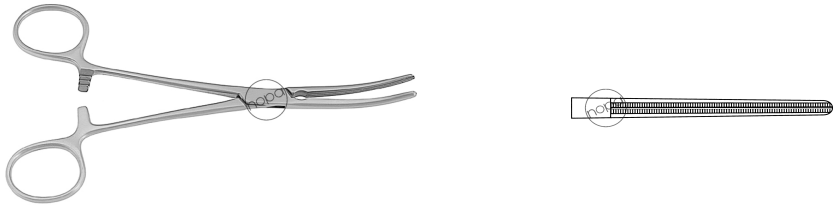

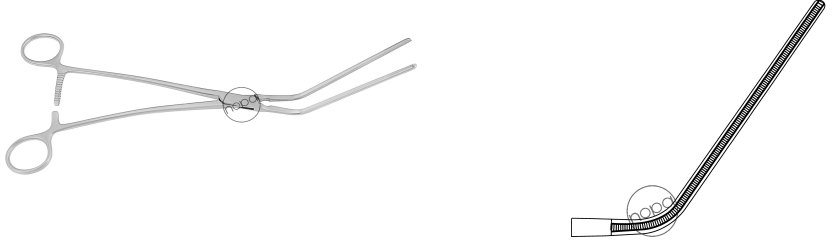

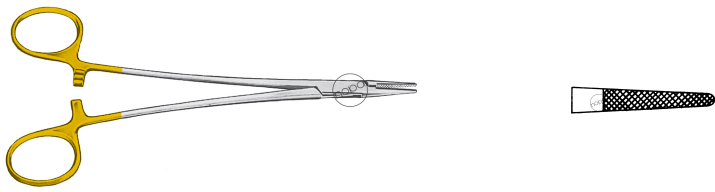
**EUFRATE PASQUÉ**



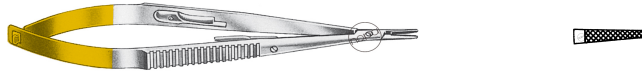
extrem fein  
 extremely delicate  
 muy fino  
 très fin  
 molto fino

**MICROVASCULAR**

Pos.	Cat.-no.	Quantity	Description
1	AC 911/17	2,00	MAYO DISS.SCS TUC CVD BL/BL 17.0 CM
			
2	AK 554/20	2,00	ADSON RETRACTOR SHARP 20.0 CM
			
3	AC 948/60	2,00	POTTS-SMITH SCISSORS TUC 60° 19.0 CM
			
4	AE 434/18	2,00	MICRO RYDER NEEDLE HOLDER TUC 18.0 CM
			
5	KK 527/18	2,00	DERRA ATRAUMA FORCEPS 18,0 CM
			

Pos.	Cat.-no.	Quantity	Description
6	KK 414/20	2,00	DE BAKEY-PEAN FORCEPS 20,0 CM
			
7	KK 486/21	2,00	DE BAKEY ATRAUMA FORCEPS 21,0CM
			
8	KK 489/21	2,00	DE BAKEY ATRAUMA FORCEPS 21,0CM
			
9	AC 109/11 SC	2,00	METZENBAUM BABY SCHERE 11,5 CM GEB.SC
			
10	AE 420/23	2,00	DE BAKEY NEEDLE HOLDER TUC 23.0 CM
			

Pos.	Cat.-no.	Quantity	Description
11	AE 578/18	2,00	MICRO-NH TUC STR RA SERRATED 18.0 CM



DIN 58298:2010-09

Product Group

Code letter according to DIN EN ISO 7153-1	Material Number according to EN 10088-1	Material Symbol according to DIN EN 1088-1	Hardness in Rockwell	Elevators/Raspatories	Forceps	Scissors	Ring Forceps / Pliers	Bone Cutting Forceps/Bone Rongeurs/Bone Punches	Shank Forceps / Pliers	Conchotomes	Scalpels / Knives	Retractors / Specula	Probes / Trocars / Suction Tubes	Chisels / Bone Curettes	Mallets, wire baskets, hollow ware, Retractors	Needleholder	Handle (hollow)	Handle (solid)
Group of nopa Item Numbers				KA,KO, PF,PI, PS,PT,Y Z	AA,AB,AE, AF,AM,AP, KD,KA,KB, KC,KD,KK, KL,KM,KO, KS,PV,XX, YZ		AM, KA,KB, KM,KS KU,PA, PB,PT, PU,PV, YZ				AD,KA, KL,KM, KO,KS, KU,YZ	AK,AP, KA,KB, KD,KI, KL,KM, KO,KS, YZ	AL,AO, XK,KB, KC,PL, YZ	KA,KB, KC,KL, KM,KO, KU,PK, PM,XX, SU,AK, YZ			AE, AK,YZ	AK,YZ
Code letter according to DIN EN ISO 7153-1	Material Number according to EN 10088-1	Material Symbol according to DIN EN 1088-1	Hardness in Rockwell	Application														
B	1.4021	X20Cr13	42 - 50	x	x	x	x	x	x	x								
A	1.4024	X15Cr13	40 - 48	x	x													
D	1.4034	X46Cr13	50 - 58	x														
H	1.4117	X38CrMoV15	50 - 58	x														
N	1.4305	X8CrNiS18-9																
M	1.4301	X5CrNi18-10																
P	1.4401	X5CrNiMo17-12-2																

EN ISO 7153-1:2016

	C	Si, max	Mn, max	P, max	S	Cr	Mo	Ni	Div	DIN10088-1/AISI F899
A	0,09 - 0,15	1	1	0,04	0,03 max	11,5 - 13,5		1 max		1.4024 / 410
B	0,16 - 0,25	1	1	0,04	0,03 max	12 - 14		1 max		1.4021 / 420A
D	0,42 - 0,50	1	1	0,04	0,03 max	12,5 - 14,5		1 max		1.4034 / 420C
H	0,35 - 0,40	1	1	0,045	0,03 max	14 - 15	0,4 - 0,6		V:0,1 - 0,15	1.4117 / 420B
M	0,07 max	1	2	0,045	0,03 max	17 - 19		8 - 11		1.4301 / 304
N	0,12 max	1	2	0,06	0,15 - 0,35	17 - 19		8 - 10		1.4305 / 303
P	0,07 max	1	2	0,045 max	0,03 max	16,5 - 18,5	2 - 2,5	10,5 - 13,5		1.4401 / 316

material\_A\_en

02.11.2021

