

***HILTUC***

**TUNGSTEN CARBIDE  
INSTRUMENTS**



THE ULTIMATE CHOICE

**HILBR**  
INTERNATIONAL

# Tungsten Carbide Instruments Catalog



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# company profile

Over the past decades, **Hilbro** has strengthened with new support, material and force, accumulating the skill and the practical ability. Acquired the equipment requisite to significant contribution to Pakistan's Surgical Industry, by turning out production of benchmark recognition.

**Hilbro's** management seeks ideas that help to improve its capabilities and allow it to make better decisions for its organization. The managers have the practical experience of applying their knowledge to the challenge of real-life situations.

**Hilbro** employs over 1000 skilled craftsmen. These personnels are contributing in the continuous expansion of the company's business. Emphasis is on their vocational training in the latest developments greatly influences the organizational performance.

**Hilbro's** R & D department is responsible for creating and improving products. We realize that competitive advantage results from the overall ability to bring new products to market and to satisfy customers. We make sure that new products can be produced and delivered to customers quickly and cost efficiently.

**Hilbro** is certified under ISO 9001:2008, 13485:2003 and is also compliance with FDA(USA), cGMP regulations and is authorized to mark "CE" to its products.

We introduced the first tungsten-carbide instrument in 1960. Since then more than a million tungsten-carbide instruments have left our manufacturing premises. Continued research has assured the user of the best possible product.

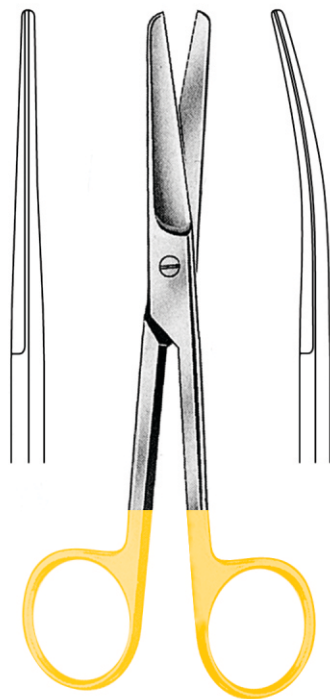
**HiITUC™** scissors are specially made to perform better and stay sharper for a significantly longer period of time when compared to non-TC scissors. The unique edging process permanently bonds the tungsten carbide to the scissors giving it a smooth and controlled performance. Moreover, our scissors provide the users with a sensitive feel and help eliminate problems associated with tissue slippage during cutting.

**HiITUC™** needle holders' teeth are precisely ground to hold the needle securely and these holders provide the surgeon with gentle but firm grasp. Our solid tungsten carbide inserts have a precisely ground, virtually indestructible pyramid profile, that is harder than the needles they hold. The pyramid profile retains its original shape much longer than other needle holders.

**HiITUC™** tungsten carbide instruments are guaranteed for two full years of normal use. During this period, if any adjustments become necessary, and/or if any malfunction occurs, Hilbro will replace the instrument.

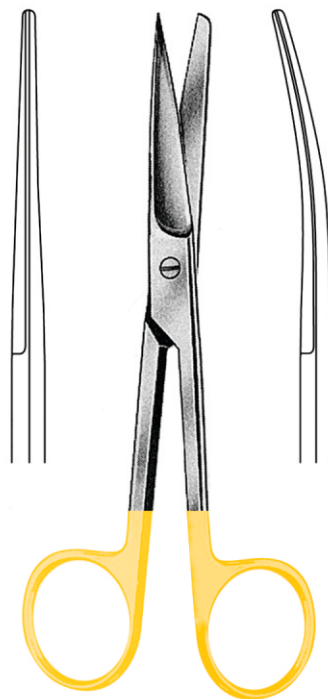
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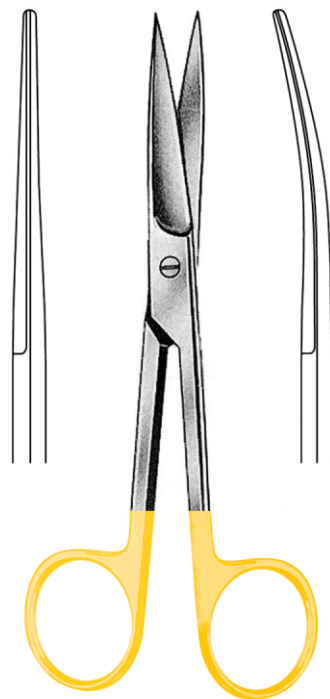
**STANDARD**

|        |            |            |
|--------|------------|------------|
| 10.5cm | 10.5010.10 | 10.5011.10 |
| 11.5cm | 10.5010.11 | 10.5011.11 |
| 13.0cm | 10.5010.13 | 10.5011.13 |
| 14.5cm | 10.5010.14 | 10.5011.14 |
| 15.5cm | 10.5010.15 | 10.5011.15 |
| 16.5cm | 10.5010.16 | 10.5011.16 |
| 18.5cm | 10.5010.18 | 10.5011.18 |
| 20.0cm | 10.5010.20 | 10.5011.20 |



**STANDARD**

|            |            |
|------------|------------|
| 10.5012.10 | 10.5013.10 |
| 10.5012.11 | 10.5013.11 |
| 10.5012.13 | 10.5013.13 |
| 10.5012.14 | 10.5013.14 |
| 10.5012.15 | 10.5013.15 |
| 10.5012.16 | 10.5013.16 |
| 10.5012.18 | 10.5013.18 |
| 10.5012.20 | 10.5013.20 |

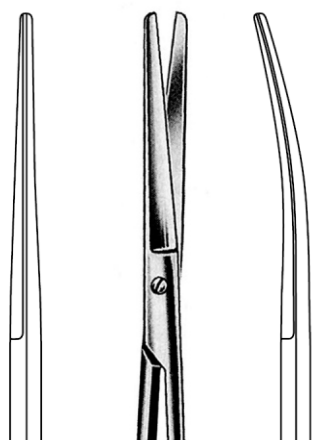


**STANDARD**

|            |            |
|------------|------------|
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| 10.5014.11 | 10.5015.11 |
| 10.5014.13 | 10.5015.13 |
| 10.5014.14 | 10.5015.14 |
| 10.5014.15 | 10.5015.15 |
| 10.5014.16 | 10.5015.16 |
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| 10.5014.20 | 10.5015.20 |

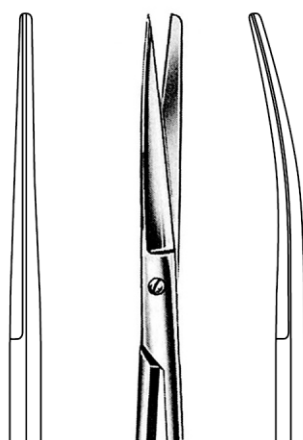
TC - SCISSORS

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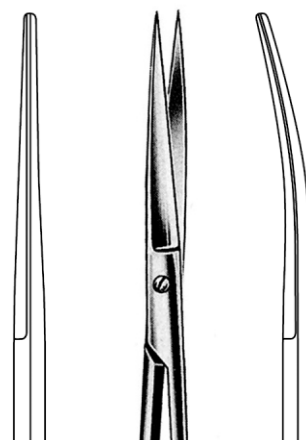
**GRAZIL**

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10.5022.14 14.0cm 10.5023.14



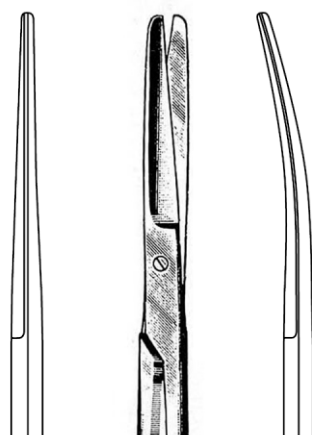
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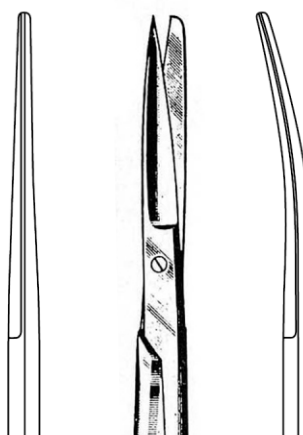
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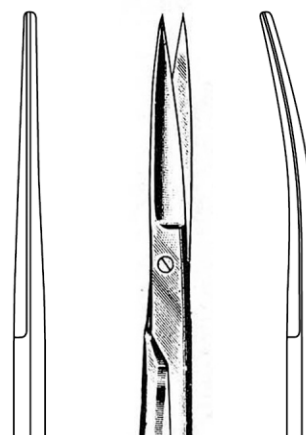
**DEAVER**

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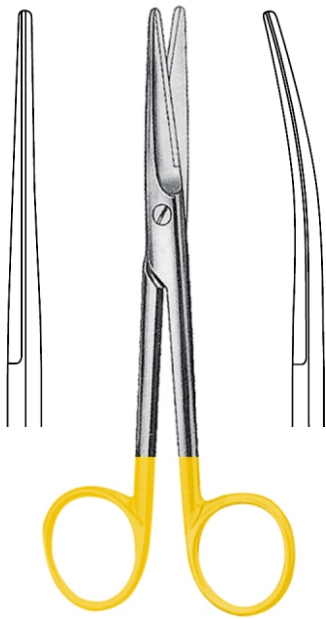
**DEAVER**

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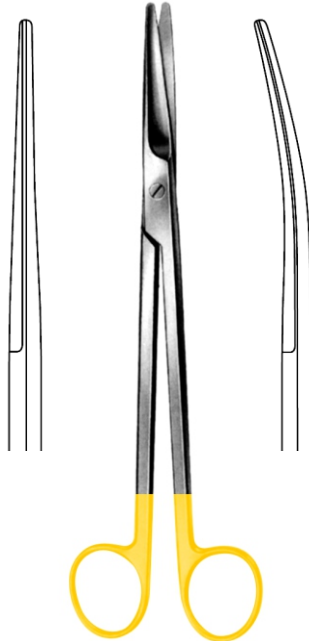
**DEAVER**

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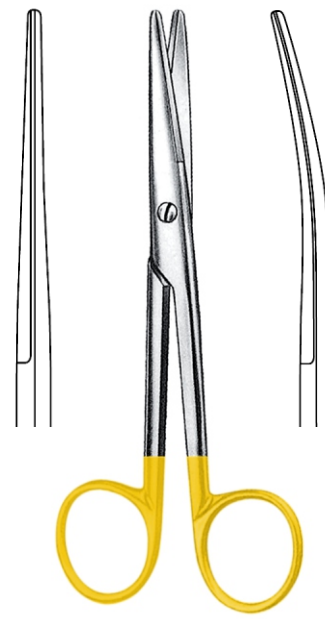
**MAYO**

|            |        |            |
|------------|--------|------------|
| 10.5052.14 | 14.0cm | 10.5053.14 |
| 10.5052.15 | 15.0cm | 10.5053.15 |
| 10.5052.16 | 16.0cm | 10.5053.16 |
| 10.5052.17 | 17.0cm | 10.5053.17 |
| 10.5052.18 | 18.0cm | 10.5053.18 |
| 10.5052.19 | 19.0cm | 10.5053.19 |
| 10.5052.23 | 23.0cm | 10.5053.23 |



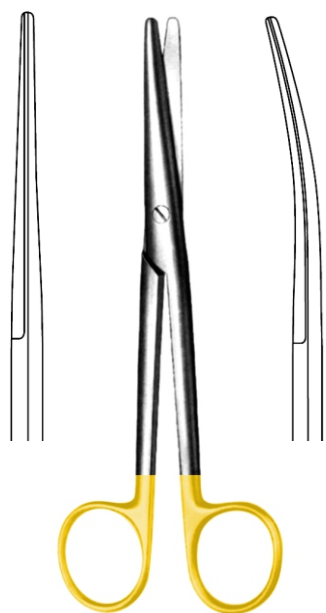
**MAYO-HARRINGTON**

|            |        |            |
|------------|--------|------------|
| 10.5058.22 | 22.5cm | 10.5059.22 |
| 10.5058.28 | 28.0cm | 10.5059.28 |
| 10.5058.30 | 30.0cm | 10.5059.30 |



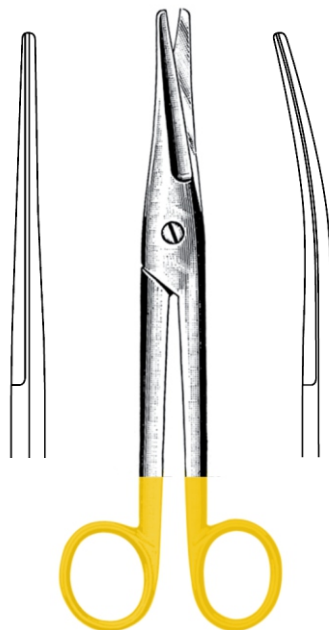
**MAYO-STILLE**

|            |        |            |
|------------|--------|------------|
| 10.5064.15 | 15.0cm | 10.5065.15 |
| 10.5064.16 | 16.0cm | 10.5065.16 |
| 10.5064.19 | 19.0cm | 10.5065.19 |
| 10.5064.21 | 21.0cm | 10.5065.21 |



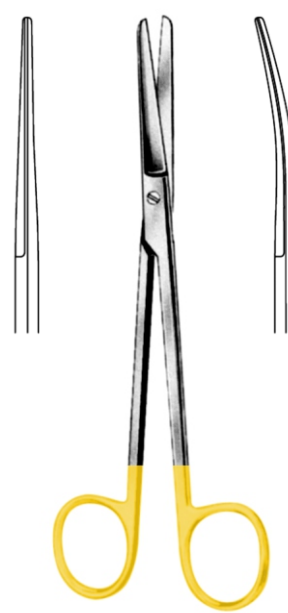
**MAYO-STILLE**

|            |        |            |
|------------|--------|------------|
| 10.5068.15 | 15.0cm | 10.5069.15 |
| 10.5068.17 | 17.0cm | 10.5069.17 |
| 10.5068.21 | 21.0cm | 10.5069.21 |



**MAYO-NOBLE**

|            |        |            |
|------------|--------|------------|
| 10.5072.17 | 17.0cm | 10.5073.17 |
|------------|--------|------------|



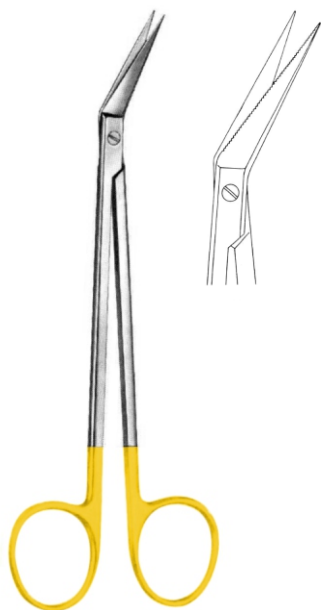
**MIXTER**

|            |        |            |
|------------|--------|------------|
| 10.5100.15 | 15.0cm | 10.5101.15 |
|------------|--------|------------|

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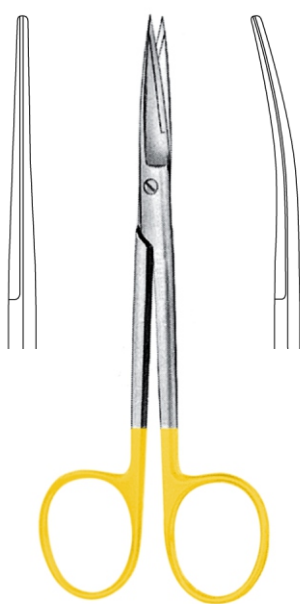
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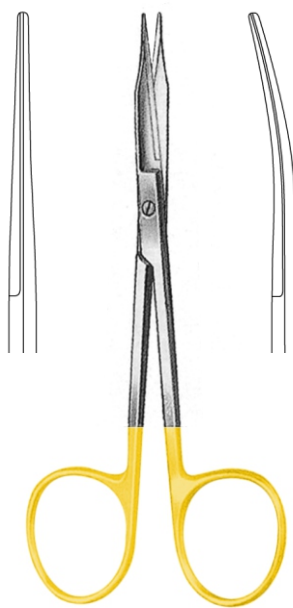
**LOCKLIN**  
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**NEUMANN**  
10.5124.12 12.0cm



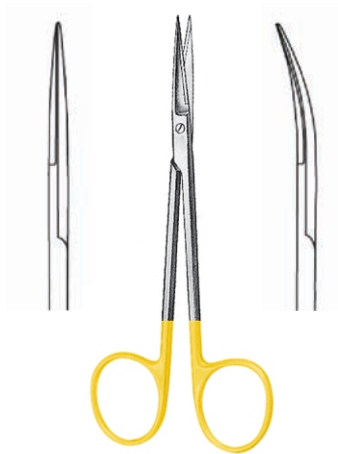
**WAGNER**  
10.5130.12 12.0cm 10.5131.12



**GOLDMAN-FOX**  
10.5136.13 13.0cm 10.5137.13



**IRIS**  
10.5142.09 9.0cm 10.5143.09  
10.5142.10 10.5cm 10.5143.10



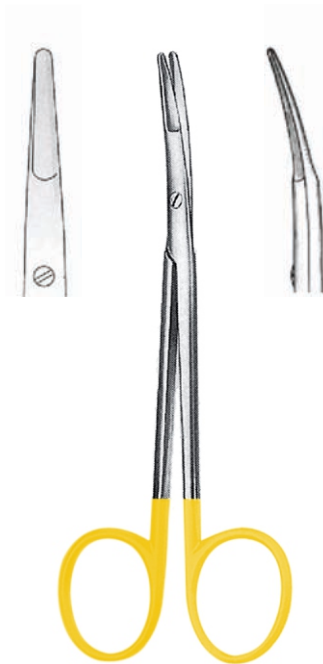
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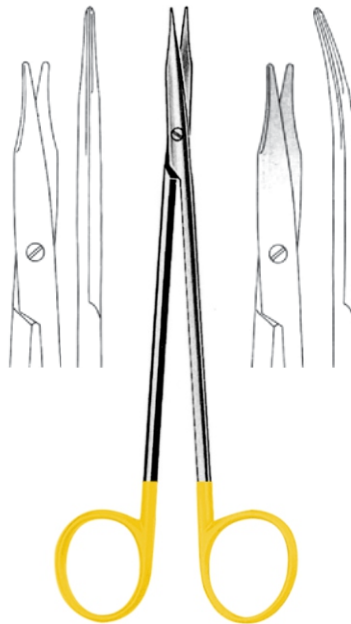
**IRIS**  
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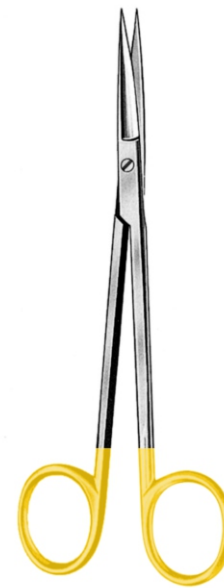
**STRABISMUS**  
 10.5160.11 11.5cm 10.5161.11



**KILNER**  
 10.5174.12 12.0cm  
 10.5174.15 15.0cm

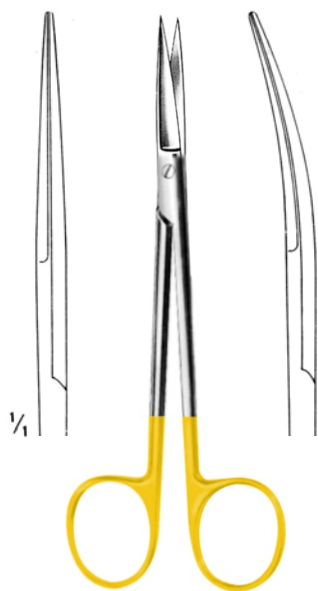


**REYNOLDS**  
 10.5184.15 15.0cm 10.5185.15  
 10.5184.18 18.0cm 10.5185.18

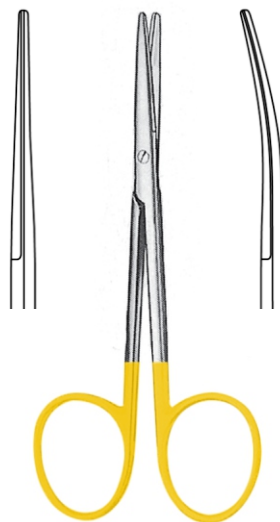


**SANVENERO**  
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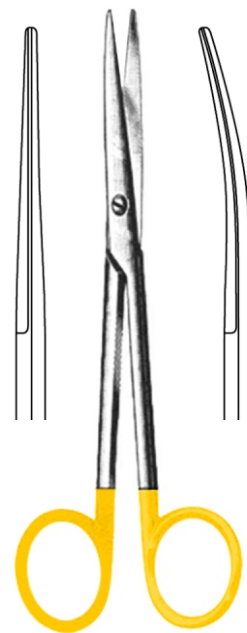
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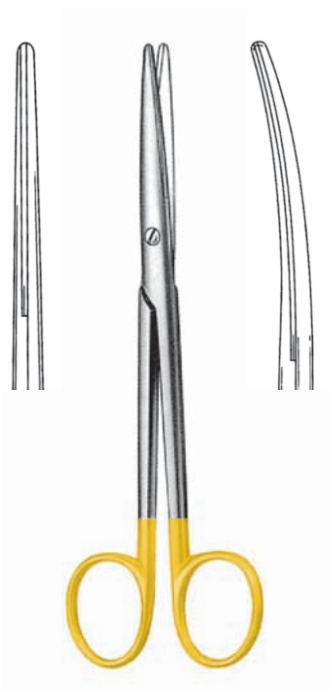
**JOSEPH**  
10.5196.14 14.0cm 10.5197.14



**LEXER-BABY**  
10.5300.10 10.0cm 10.5301.10



**LEXER**  
10.5306.16 16.0cm 10.5307.16  
10.5306.21 21.0cm 10.5307.21



**MAYO-LEXER**  
10.5308.16 16.0cm 10.5309.16



**LEXER-FINO**  
10.5310.16 16.0cm 10.5311.16

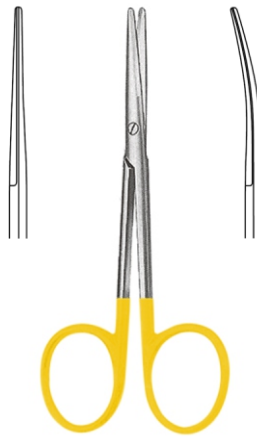


**FOMON**  
10.5320.13 13.5cm

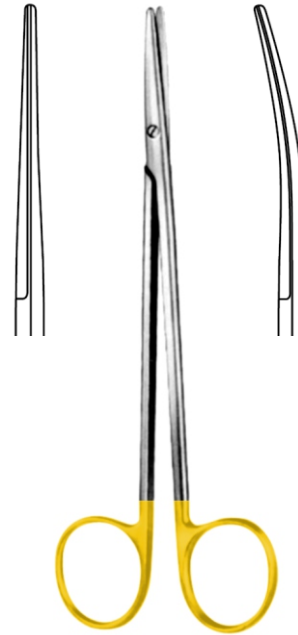




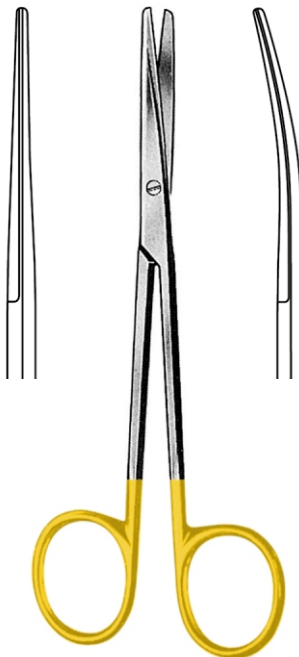
**THOREK**  
 10.5326.19 19.0cm



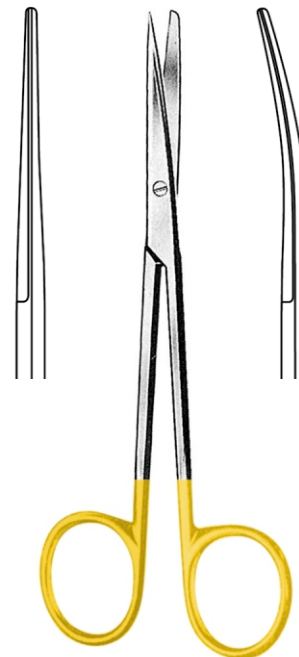
**METZENBAUM-BABY**  
 10.5330.11 11.5cm 10.5331.11



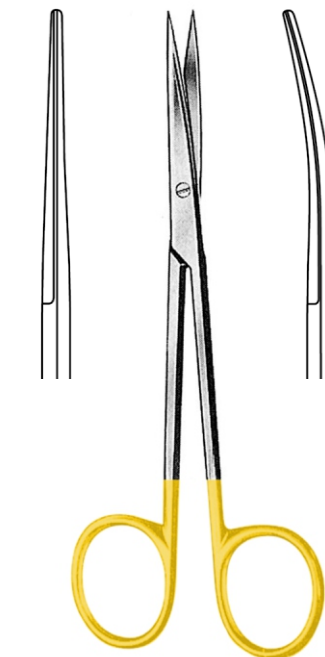
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 10.5336.14 14.0cm 10.5337.14  
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**METZENBAUM**  
 10.5340.14 14.5cm 10.5341.14

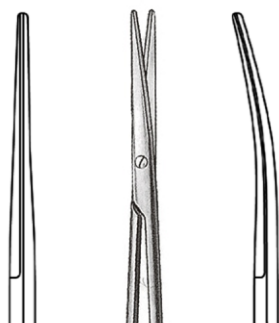


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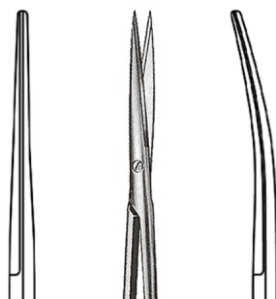


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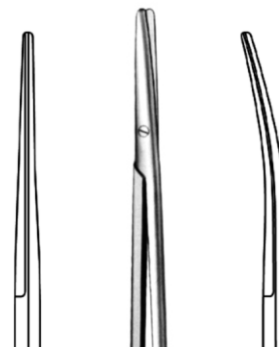
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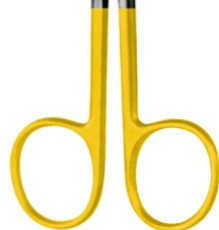
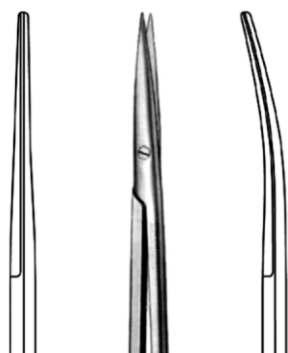
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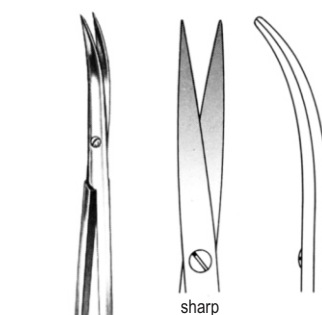
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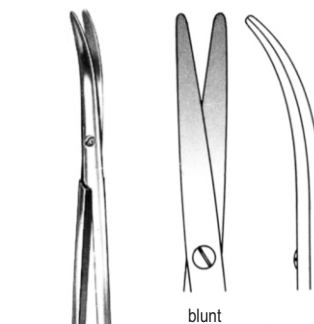
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10.5360.18 18.0cm 10.5361.18  
10.5360.20 20.0cm 10.5361.20  
10.5360.23 23.0cm 10.5361.23  
10.5360.25 25.0cm 10.5361.25  
10.5360.28 28.0cm 10.5361.28



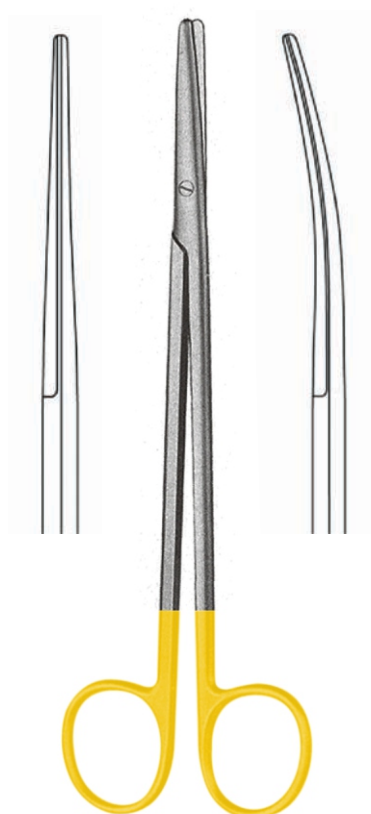
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10.5362.20 20.0cm 10.5363.20  
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10.5362.25 25.0cm 10.5363.25  
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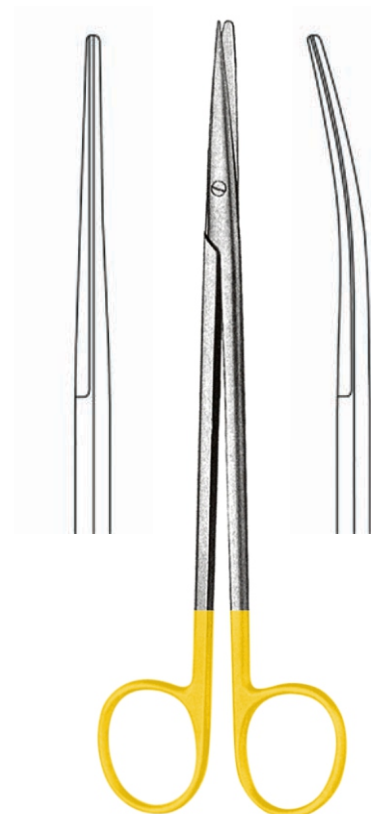
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10.5370.20 20.0cm  
10.5370.23 23.0cm



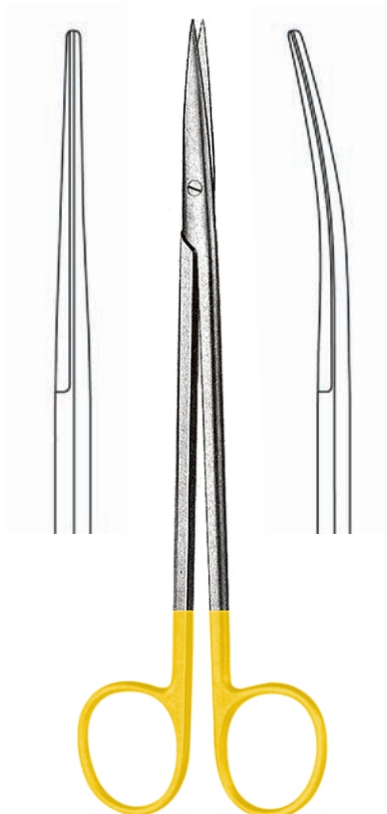
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10.5374.20 20.0cm  
10.5374.23 23.0cm



**METZENBAUM - NELSON**  
 10.5380.18 18.0cm 10.5381.18  
 10.5380.20 20.0cm 10.5381.20  
 10.5380.23 23.0cm 10.5381.23  
 10.5380.25 25.0cm 10.5381.25  
 10.5380.28 28.0cm 10.5381.28  
 10.5380.30 30.0cm 10.5381.30



**METZENBAUM - NELSON**  
 10.5382.18 18.0cm 10.5383.18  
 10.5382.20 20.0cm 10.5383.20  
 10.5382.23 23.0cm 10.5383.23  
 10.5382.25 25.0cm 10.5383.25  
 10.5382.28 28.0cm 10.5383.28  
 10.5382.30 30.0cm 10.5383.30



**METZENBAUM - NELSON**  
 10.5384.18 18.0cm 10.5385.18  
 10.5384.20 20.0cm 10.5385.20  
 10.5384.23 23.0cm 10.5385.23  
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TC - SCISSORS



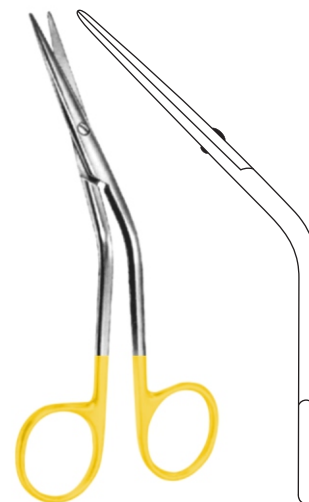
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10.5388.23 23.0cm  
10.5388.28 28.0cm



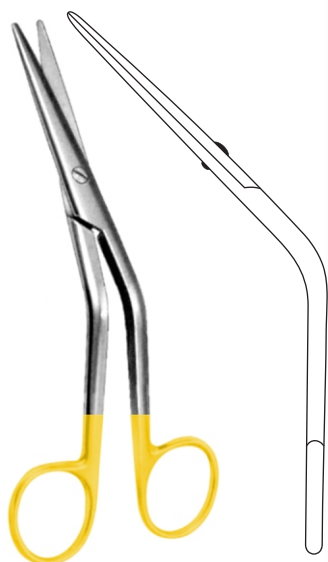
**METZENBAUM-S**

10.5392.20 20.0cm  
10.5392.23 23.0cm  
10.5392.25 25.0cm  
10.5392.28 28.0cm



**FOMON**

10.5400.15 15.0cm



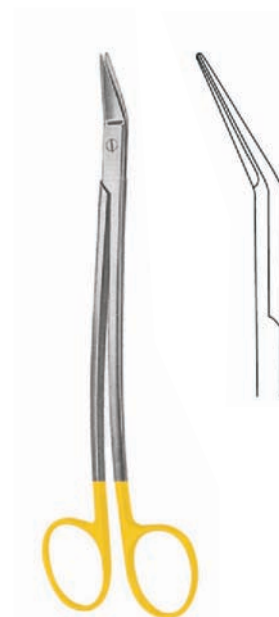
**COTTLE**

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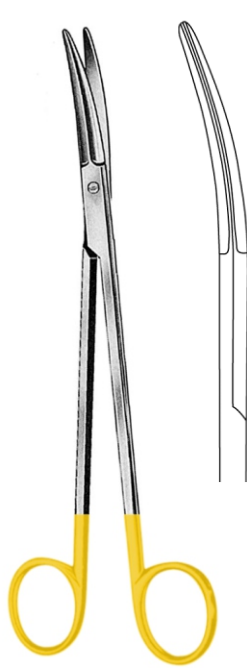
**HEYMANN**

10.5410.18 18.0cm

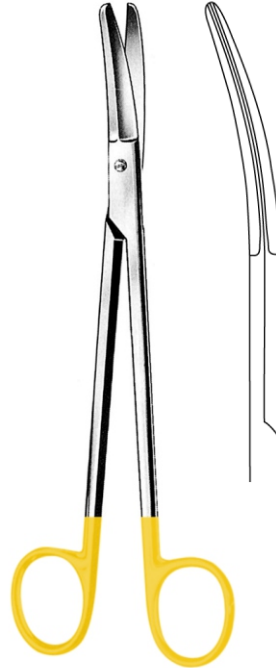


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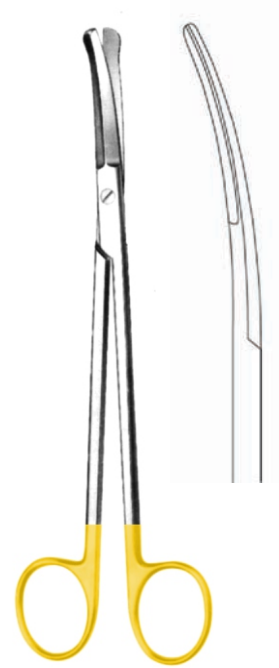
10.5416.17 17.0cm



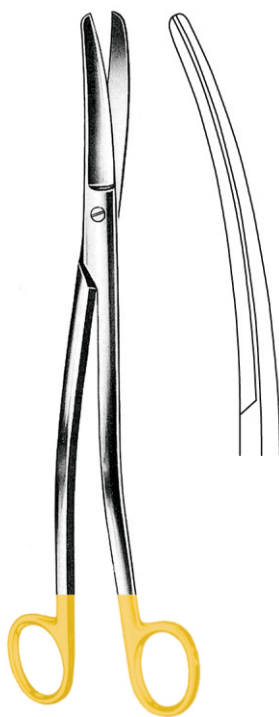
**BOETTCHER**  
 10.5420.18 18.0cm



**PRINCE**  
 10.5424.17 17.0cm



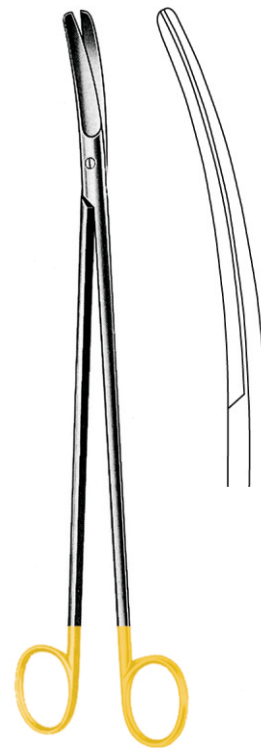
**GOOD**  
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**KLINKENBERGH-LOTH**  
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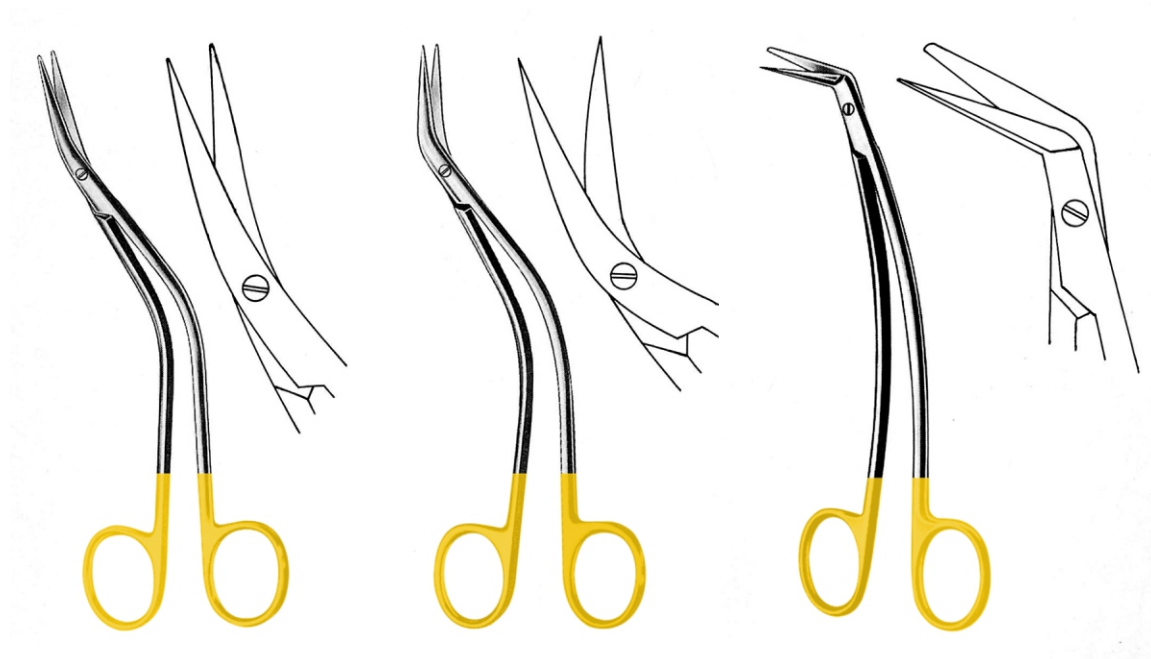


**SATINSKY**  
 10.5504.24 24.5cm



**CRAFOORD**  
 10.5510.30 30.0cm

TC - SCISSORS



**DE BAKEY**  
10.5514.15 15.5cm

**DE BAKEY**  
10.5516.15 15.5cm

**FAVALORO**  
10.5520.15 15.0cm

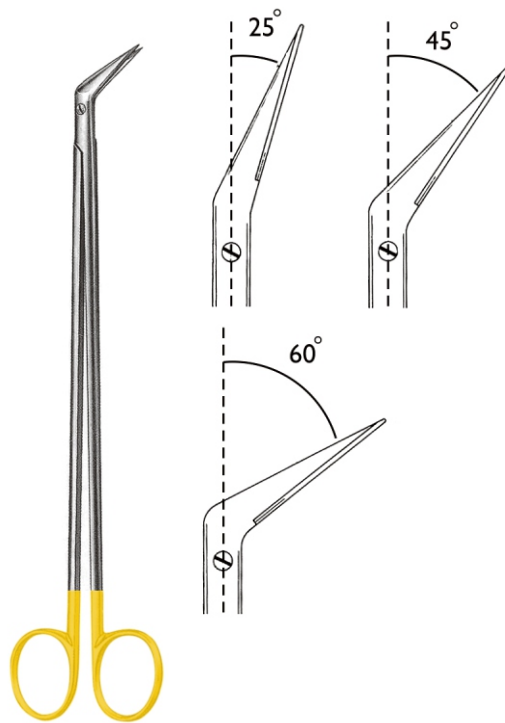


**PARAMETRIUM**  
10.5522.22 22.5cm  
10.5522.23 23.0cm

**MC INDOE**  
10.5524.19 19.0cm

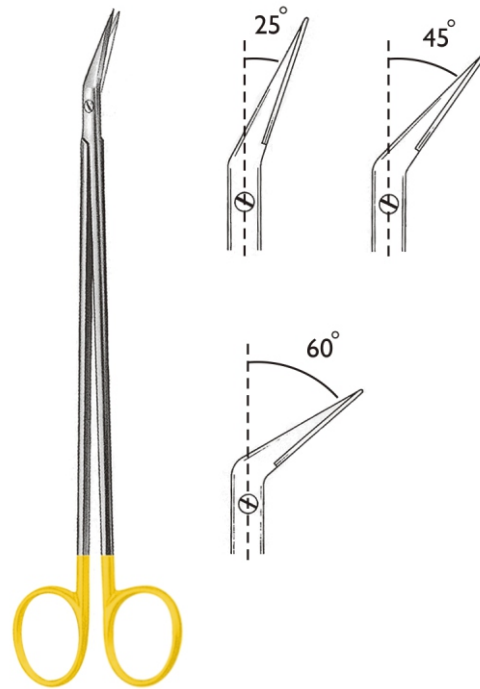
**POTTS DE MARTEL**  
10.5530.21 21.0cm  
10.5530.24 24.0cm





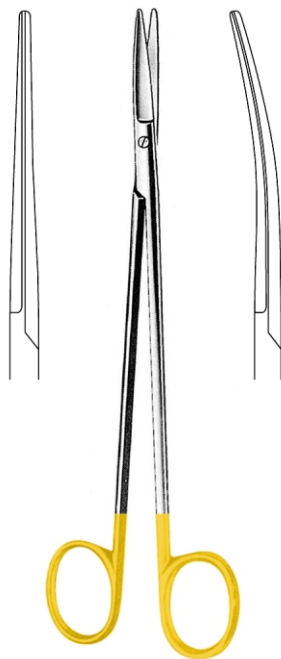
**DE BAKEY**

|        | 25°        | 45°        | 60°        |
|--------|------------|------------|------------|
| 16.0cm | 10.5534.16 | 10.5536.16 | 10.5538.16 |
| 23.0cm | 10.5534.23 | 10.5536.23 | 10.5538.23 |
| 28.0cm | 10.5534.28 | 10.5536.28 | 10.5538.28 |



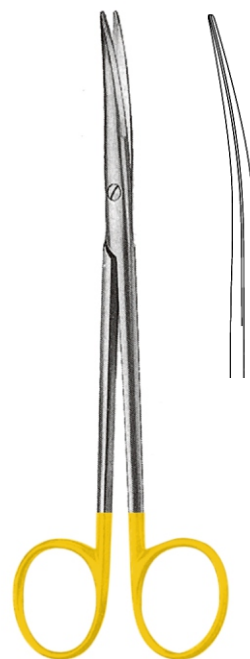
**POTTS - SMITH**

|            | 19.0cm |
|------------|--------|
| 10.5540.25 | 25°    |
| 10.5540.45 | 45°    |
| 10.5540.60 | 60°    |



**TOENNIS**

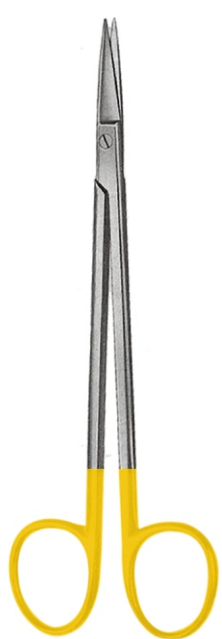
|            |        |            |
|------------|--------|------------|
| 10.5600.18 | 18.0cm | 10.5601.18 |
|------------|--------|------------|



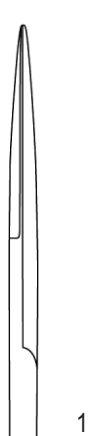
**TOENNIS-ADSON**

|            |        |
|------------|--------|
| 10.5606.17 | 17.5cm |
|------------|--------|

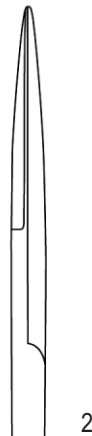
TC - SCISSORS



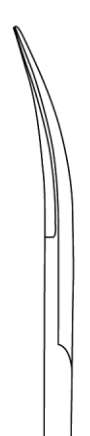
**KELLY**



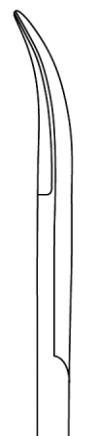
10.5630.16  
16.0cm



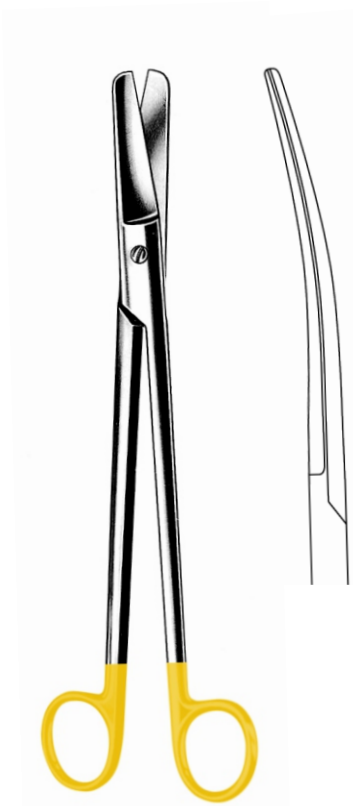
10.5630.18  
18.0cm



10.5631.16  
16.0cm

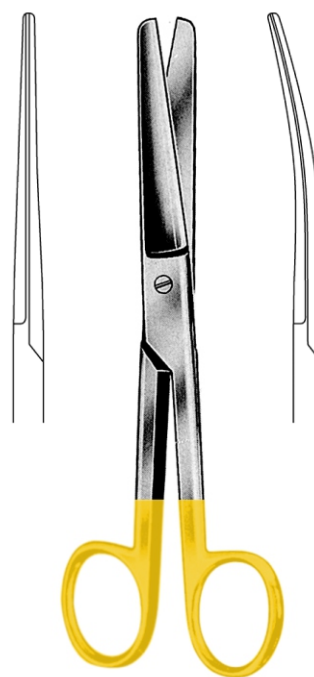


10.5631.18  
18.0cm



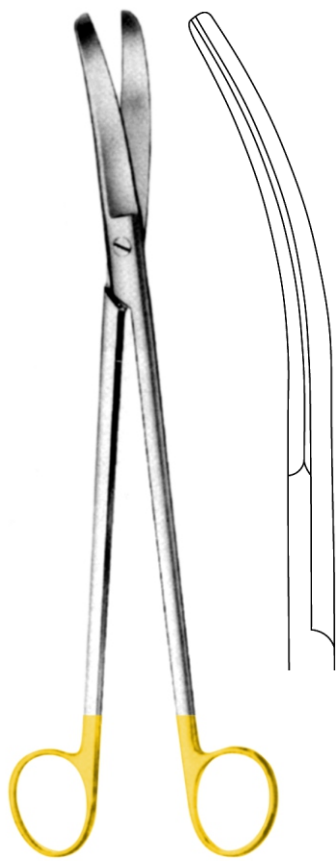
**DUBOIS**

10.5636.27 27.0cm 10.5637.27

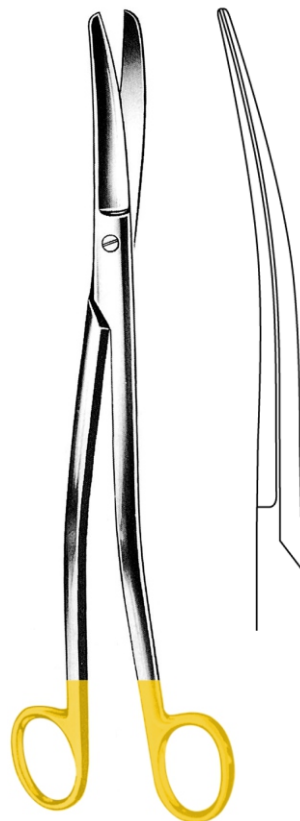


**DOYEN**

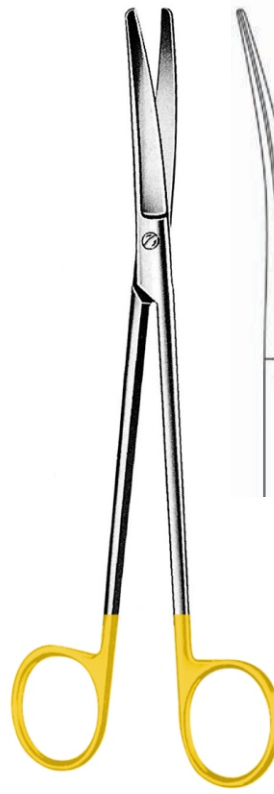
10.5640.17 17.0cm 10.5641.17



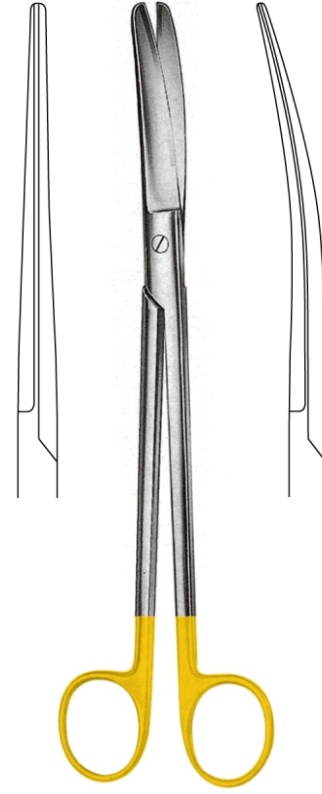
**LLOYD-DAVIES ( GOLIGHER'S )**  
10.5646.25 25.5cm



**SIEBOLD**  
10.5650.24 24.0cm

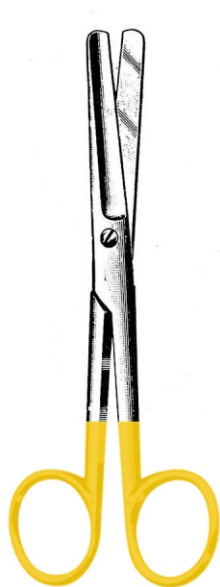


**WERTHEIM**  
10.5654.14 14.5cm  
10.5654.19 19.5cm  
10.5654.22 22.5cm

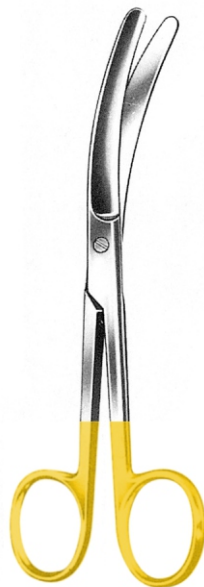


**SIMS**  
10.5660.20 20.0cm 10.5661.20  
10.5660.23 23.0cm 10.5661.23

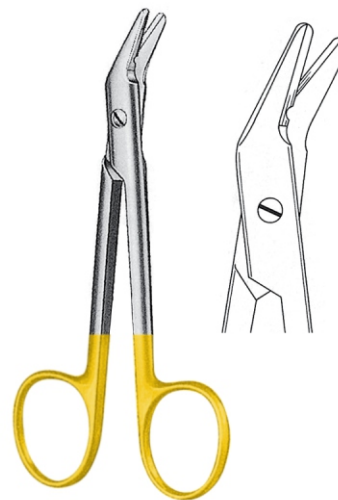
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**BUSCH**  
10.5670.16 16.0cm



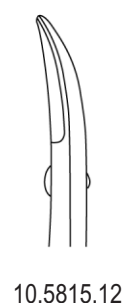
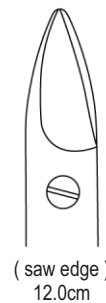
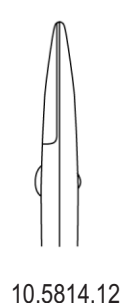
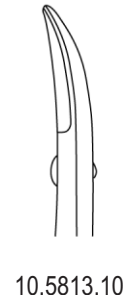
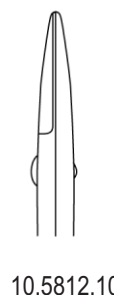
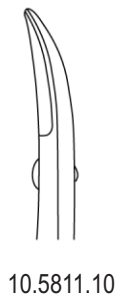
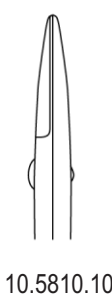
**BUSCH**  
10.5672.16 16.0cm

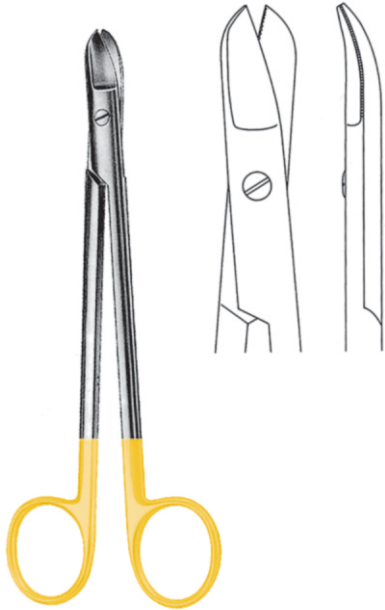


**UNIVERSAL**  
10.5808.12 12.0cm

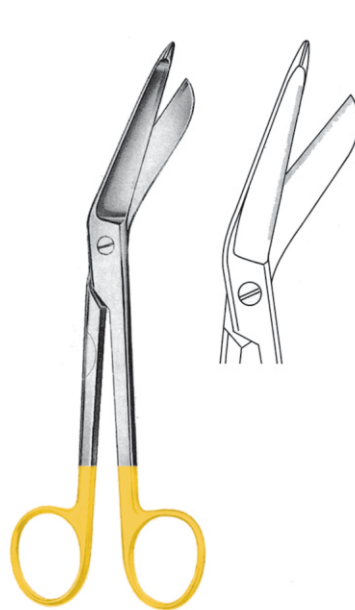


**BEEBEE**

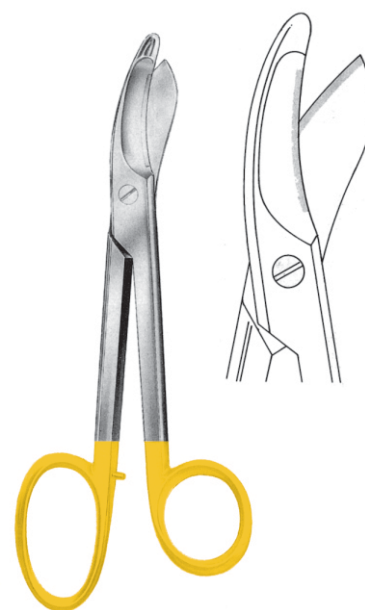




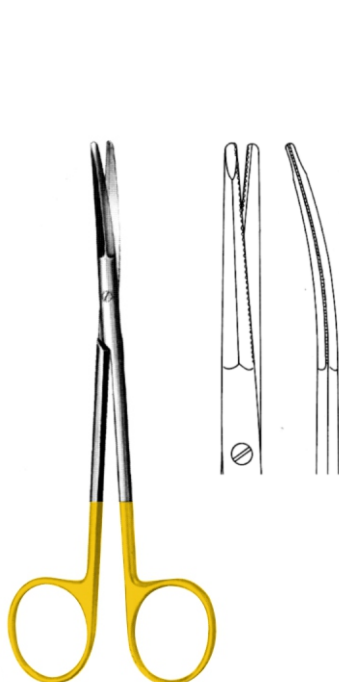
**SMITH**  
10.5817.16 16.0cm



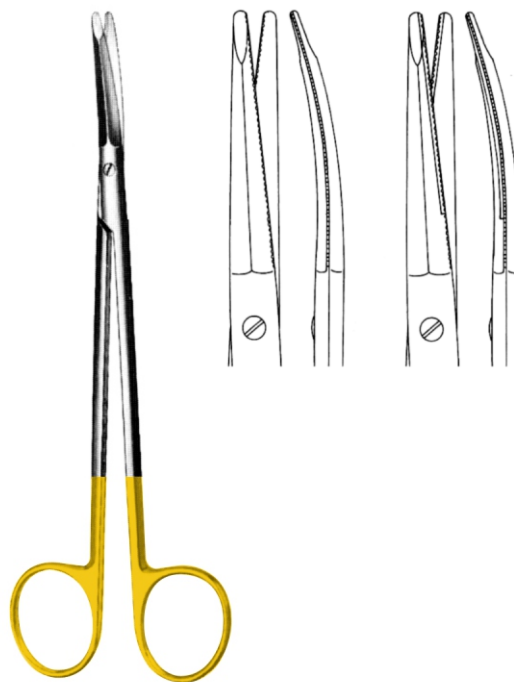
**LISTER**  
24.5010.09 9.0cm  
24.5010.11 11.0cm  
24.5010.14 14.0cm  
24.5010.16 16.0cm  
24.5010.18 18.0cm  
24.5010.20 20.0cm



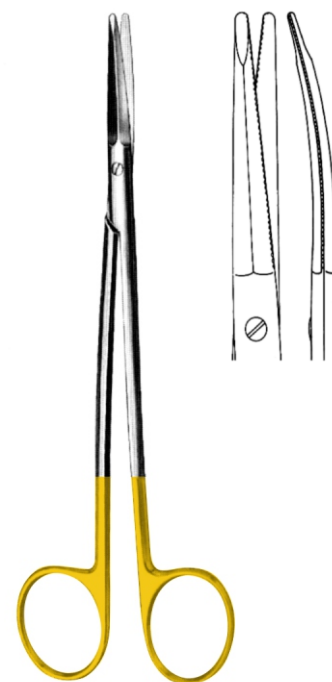
**BRUNS**  
24.5040.24 24.0cm



**GREGORY**  
40.5501.14 14.0cm



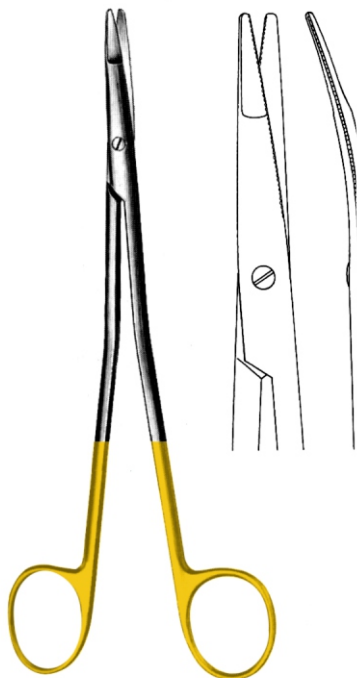
**KAYE**  
40.5511.15 15.0cm  
40.5511.18 18.0cm



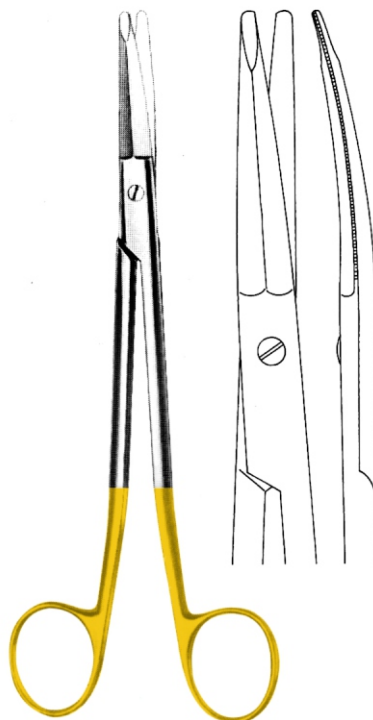
**STELLA-S**  
40.5521.18 18.0cm

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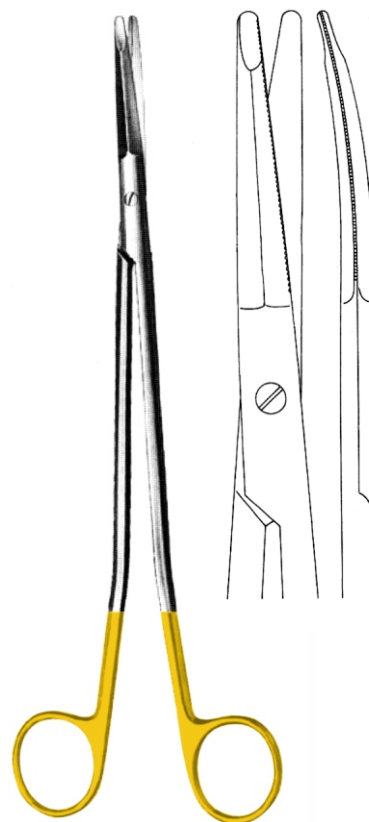
TC - SCISSORS



**GORNEY**  
40.5531.18 18.0cm



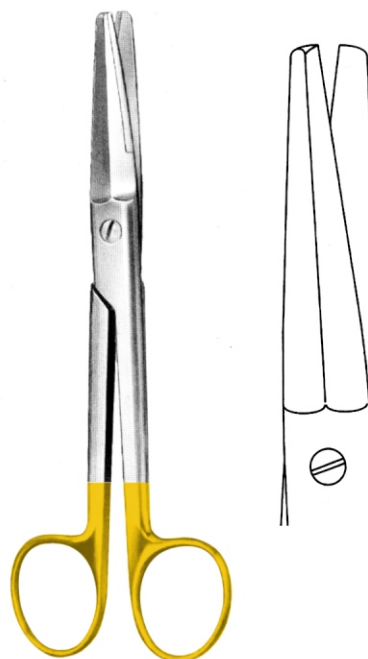
**FREEMAN-KAYE**  
40.5541.18 18.0cm



**FREEMAN**  
40.5551.22 22.0cm



**TESSIER**  
49.5500.14 14.0cm

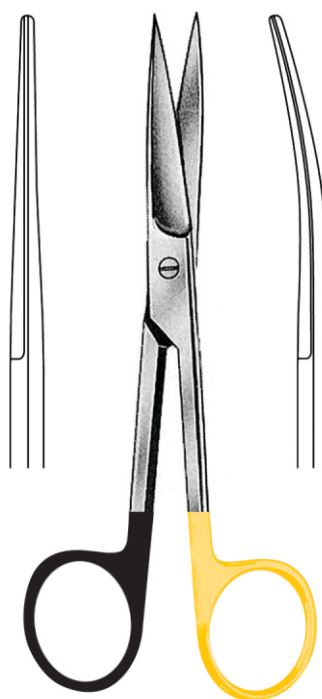
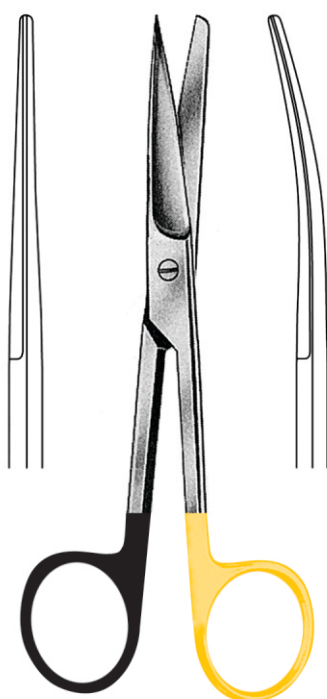
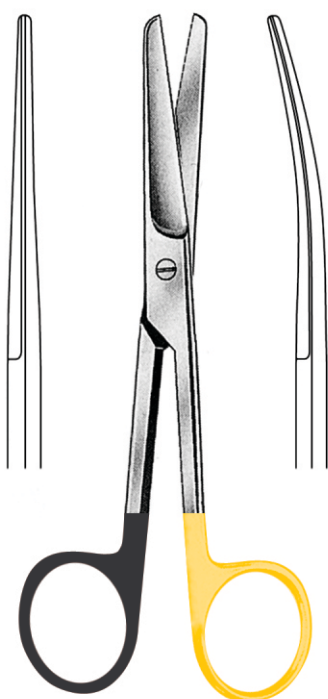


**TESSIER**  
49.5510.16 16.0cm





Operating Scissors  
Chirurgische Scheren  
Tijeras para cirugía



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**STANDARD**

|        |            |            |
|--------|------------|------------|
| 10.5cm | 09.5010.10 | 09.5011.10 |
| 11.5cm | 09.5010.11 | 09.5011.11 |
| 13.0cm | 09.5010.13 | 09.5011.13 |
| 14.5cm | 09.5010.14 | 09.5011.14 |
| 15.5cm | 09.5010.15 | 09.5011.15 |
| 16.5cm | 09.5010.16 | 09.5011.16 |
| 18.5cm | 09.5010.18 | 09.5011.18 |
| 20.0cm | 09.5010.20 | 09.5011.20 |

**STANDARD**

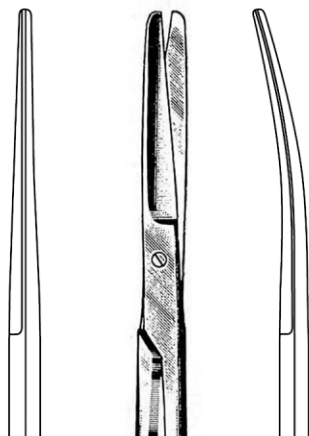
|            |            |
|------------|------------|
| 09.5012.10 | 09.5013.10 |
| 09.5012.11 | 09.5013.11 |
| 09.5012.13 | 09.5013.13 |
| 09.5012.14 | 09.5013.14 |
| 09.5012.15 | 09.5013.15 |
| 09.5012.16 | 09.5013.16 |
| 09.5012.18 | 09.5013.18 |
| 09.5012.20 | 09.5013.20 |

**STANDARD**

|            |            |
|------------|------------|
| 09.5014.10 | 09.5015.10 |
| 09.5014.11 | 09.5015.11 |
| 09.5014.13 | 09.5015.13 |
| 09.5014.14 | 09.5015.14 |
| 09.5014.15 | 09.5015.15 |
| 09.5014.16 | 09.5015.16 |
| 09.5014.18 | 09.5015.18 |
| 09.5014.20 | 09.5015.20 |

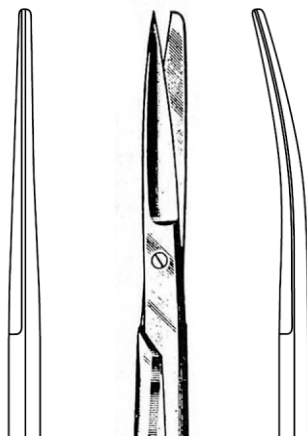


TC SUPER CUT - SCISSORS



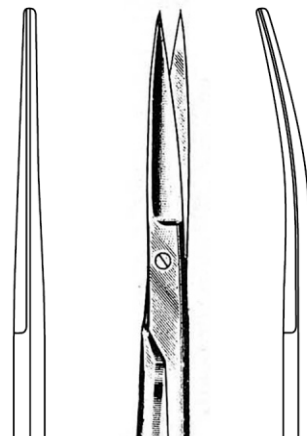
**DEAVER**

09.5034.14 14.0cm 09.5035.14



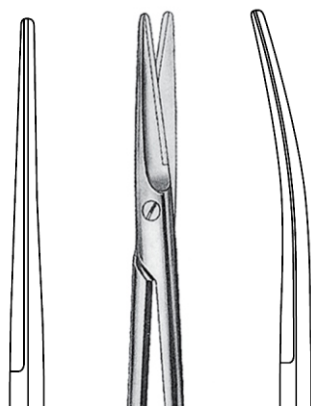
**DEAVER**

09.5036.14 14.0cm 09.5037.14



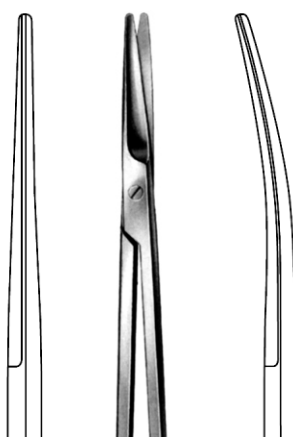
**DEAVER**

09.5038.14 14.0cm 09.5039.14



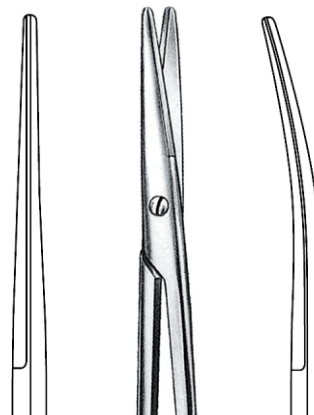
**MAYO**

09.5052.14 14.0cm 09.5053.14  
09.5052.15 15.0cm 09.5053.15  
09.5052.16 16.0cm 09.5053.16  
09.5052.17 17.0cm 09.5053.17  
09.5052.18 18.0cm 09.5053.18  
09.5052.19 19.0cm 09.5053.19  
09.5052.23 23.0cm 09.5053.23



**MAYO-HARRINGTON**

09.5058.22 22.5cm 09.5059.22  
09.5058.28 28.0cm 09.5059.28  
09.5058.30 30.0cm 09.5059.30

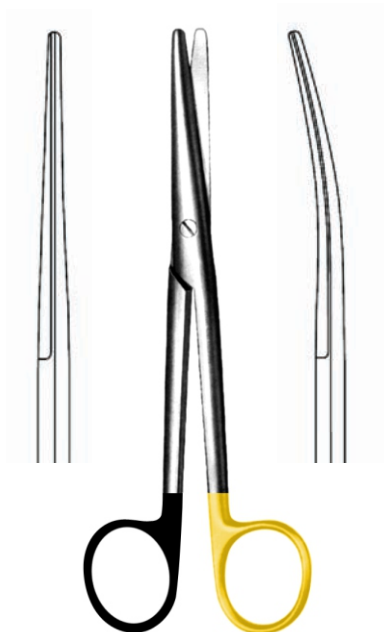


**MAYO-STILLE**

09.5064.15 15.0cm 09.5065.15  
09.5064.16 16.0cm 09.5065.16  
09.5064.19 19.0cm 09.5065.19  
09.5064.21 21.0cm 09.5065.21

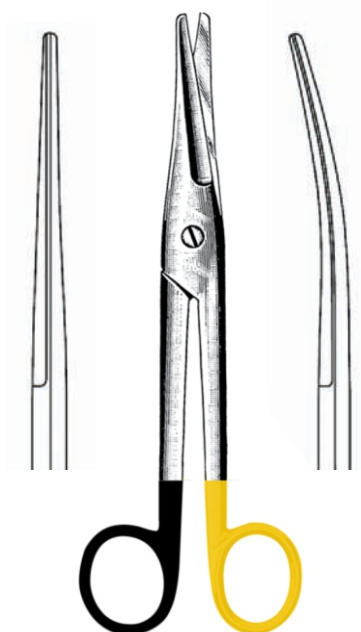


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Chirurgische Scheren  
Tijeras para cirugía



**MAYO-STILLE**

09.5068.15 15.0cm 09.5069.15  
09.5068.17 17.0cm 09.5069.17  
09.5068.21 21.0cm 09.5069.21



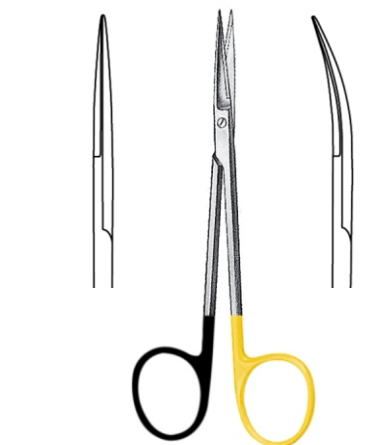
**MAYO-NOBLE**

09.5072.17 17.0cm 09.5073.17



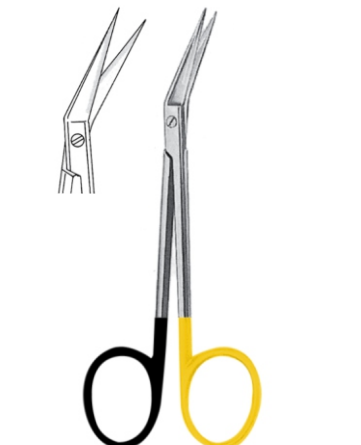
**IRIS**

09.5142.09 9.0cm 09.5143.09  
09.5142.10 10.5cm 09.5143.10



**IRIS**

09.5144.11 11.5cm 09.5145.11



**IRIS**

09.5149.11 11.0cm



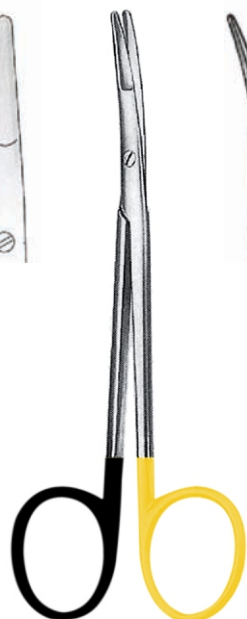
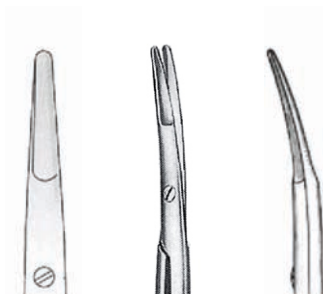
**STRABISMUS**

09.5160.11 11.5cm 09.5161.11

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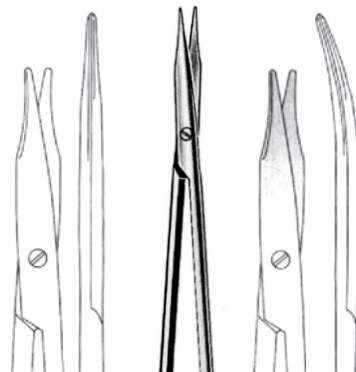


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**KILNER**

09.5174.12 12.0cm  
09.5174.15 15.0cm



**REYNOLDS**

09.5184.15 15.0cm 09.5185.15  
09.5184.18 18.0cm 09.5185.18



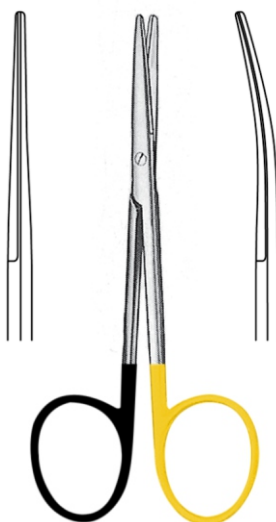
**SANVENERO**

09.5190.14 14.0cm 09.5191.14



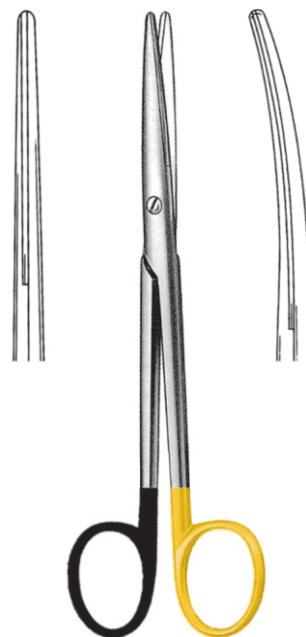
**JOSEPH**

09.5196.14 14.0cm 09.5197.14



**LEXER-BABY**

09.5300.10 10.0cm 09.5301.10

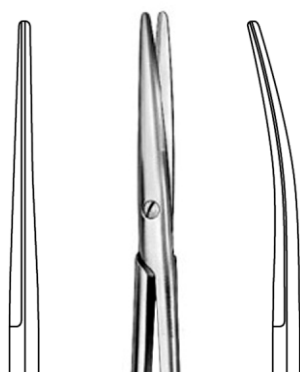


**LEXER**

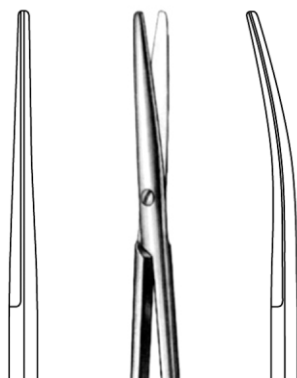
09.5306.16 16.0cm 09.5307.16  
09.5306.21 21.0cm 09.5307.21



Fine Operating Scissors, Dissecting Scissors  
 Fine Chirurgische Scheren, Präparierscheren  
 Tijeras Finas para Cirugia, Tijeras para preparaciones



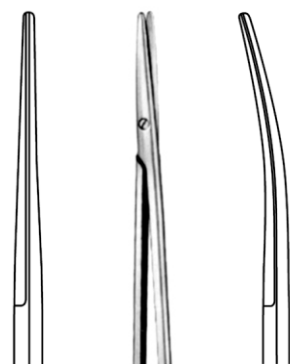
**MAYO-LEXER**  
 09.5308.16 16.0cm 09.5309.16



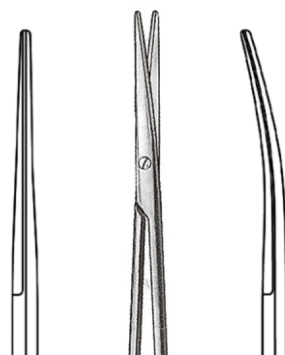
**LEXER-FINO**  
 09.5310.16 16.0cm 09.5311.16



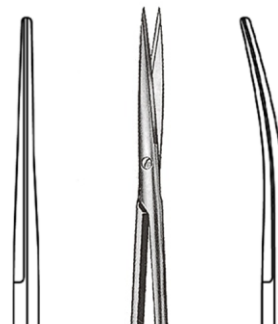
**FOMON**  
 09.5320.13 13.5cm



**METZENBAUM**  
 09.5336.14 14.0cm 09.5337.14  
 09.5336.15 15.0cm 09.5337.15



**METZENBAUM-FINO**  
 09.5350.14 14.5cm 09.5351.14  
 09.5350.18 18.0cm 09.5351.18  
 09.5350.20 20.0cm 09.5351.20  
 09.5350.23 23.0cm 09.5351.23

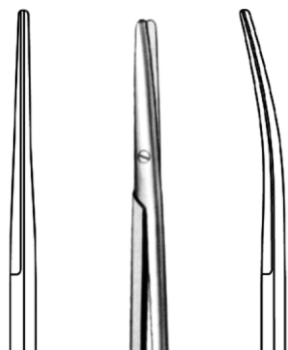


**METZENBAUM-FINO**  
 09.5352.14 14.5cm 09.5353.14  
 09.5352.18 18.0cm 09.5353.18  
 09.5352.20 20.0cm 09.5353.20  
 09.5352.23 23.0cm 09.5353.23

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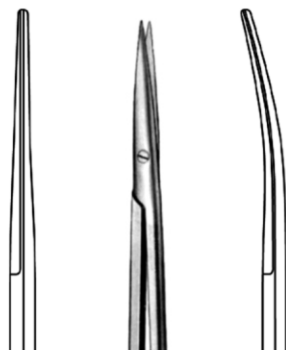


TC SUPER CUT - SCISSORS



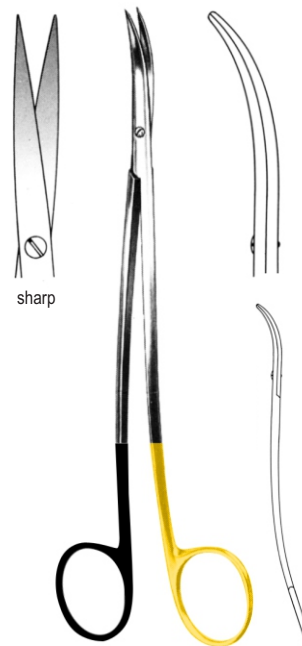
**METZENBAUM-FINO**

09.5360.18 18.0cm 09.5361.18  
09.5360.20 20.0cm 09.5361.20  
09.5360.23 23.0cm 09.5361.23



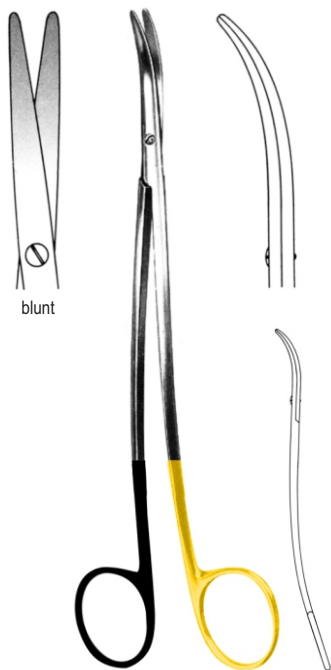
**METZENBAUM-FINO**

09.5362.18 18.0cm 09.5363.18  
09.5362.20 20.0cm 09.5363.20  
09.5362.23 23.0cm 09.5363.23



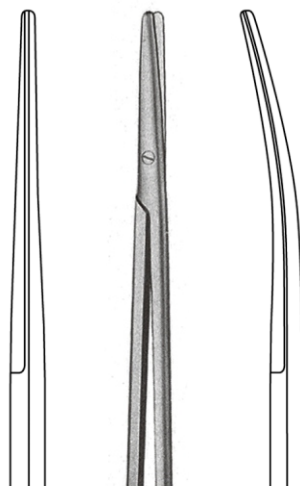
**METZENBAUM-FINO**

09.5370.18 18.0cm  
09.5370.20 20.0cm  
09.5370.23 23.0cm



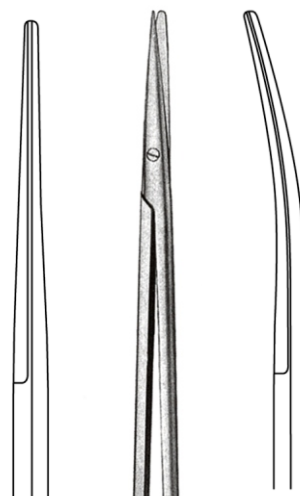
**METZENBAUM-FINO**

09.5374.18 18.0cm  
09.5374.20 20.0cm  
09.5374.23 23.0cm



**METZENBAUM - NELSON**

09.5380.18 18.0cm 09.5381.18  
09.5380.20 20.0cm 09.5381.20  
09.5380.23 23.0cm 09.5381.23  
09.5380.25 25.0cm 09.5381.25  
09.5380.28 28.0cm 09.5381.28  
09.5380.30 30.0cm 09.5381.30



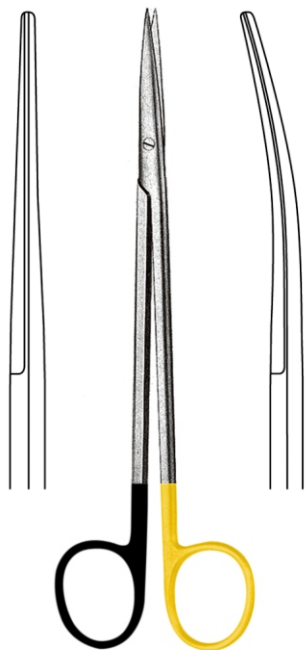
**METZENBAUM - NELSON**

09.5382.18 18.0cm 09.5383.18  
09.5382.20 20.0cm 09.5383.20  
09.5382.23 23.0cm 09.5383.23  
09.5382.25 25.0cm 09.5383.25  
09.5382.28 28.0cm 09.5383.28  
09.5382.30 30.0cm 09.5383.30



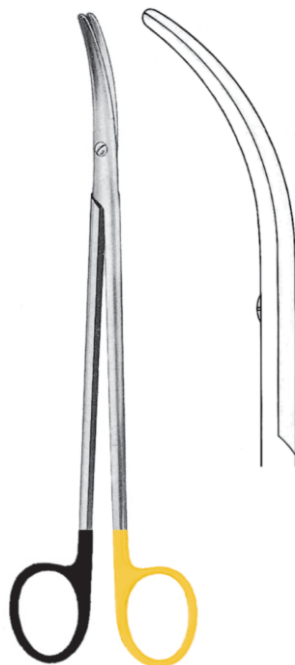


Dissecting Scissors, Vascular Scissors  
 Präparierscheren, Gefäßscheren  
 Tijeras para Preparaciones, Tijeras vasculares



#### METZENBAUM - NELSON

|            |        |            |
|------------|--------|------------|
| 09.5384.18 | 18.0cm | 09.5385.18 |
| 09.5384.20 | 20.0cm | 09.5385.20 |
| 09.5384.23 | 23.0cm | 09.5385.23 |
| 09.5384.25 | 25.0cm | 09.5385.25 |
| 09.5384.28 | 28.0cm | 09.5385.28 |
| 09.5384.30 | 30.0cm | 09.5385.30 |



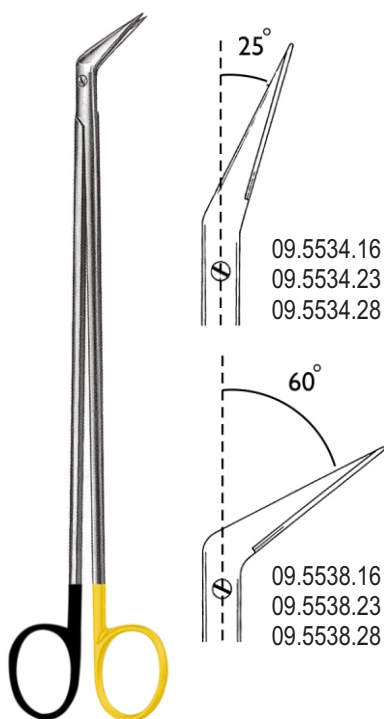
#### METZENBAUM-THOREK

|            |        |
|------------|--------|
| 09.5388.20 | 20.0cm |
| 09.5388.23 | 23.0cm |
| 09.5388.28 | 28.0cm |



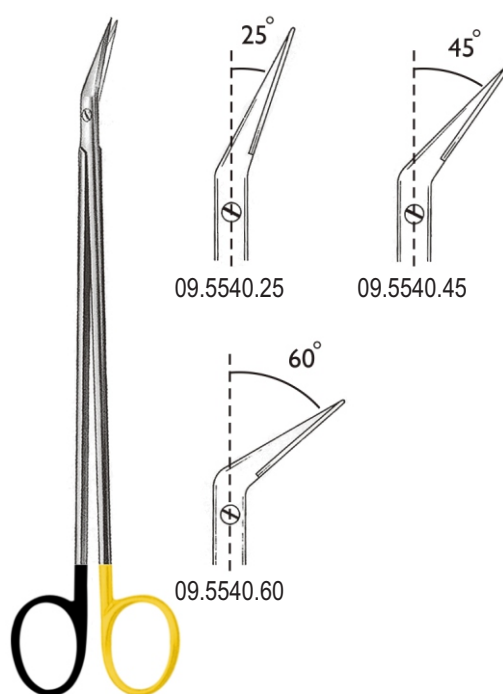
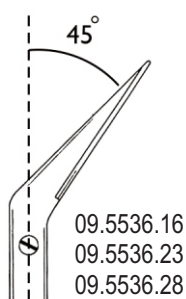
#### METZENBAUM-S

|            |        |
|------------|--------|
| 09.5392.20 | 20.0cm |
| 09.5392.23 | 23.0cm |
| 09.5392.25 | 25.0cm |
| 09.5392.28 | 28.0cm |



#### DE BAKEY

16.0cm, 23.0cm, 28.0cm



#### POTTS - SMITH

19.0cm

TC SUPER CUT - SCISSORS

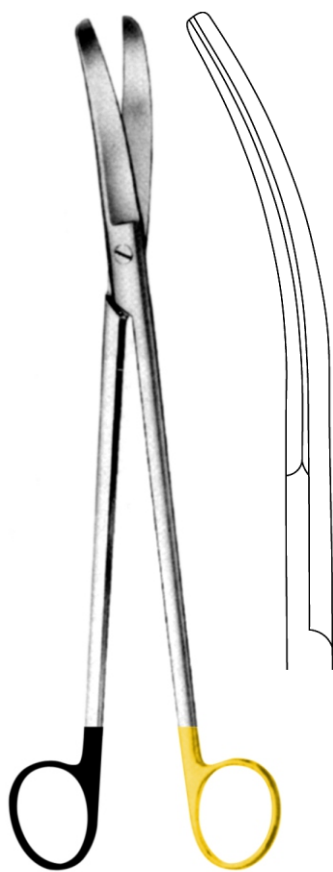
**09**

09-025

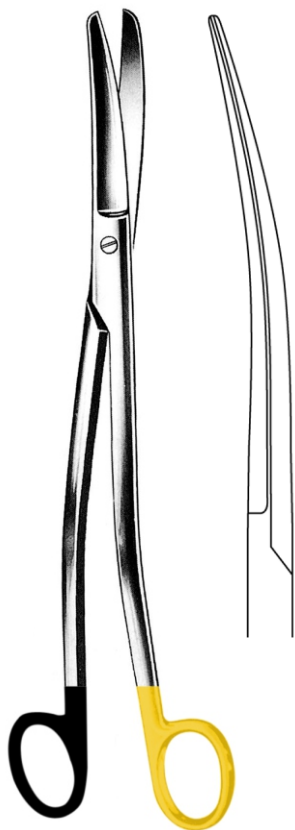
[www.hilbrointl.com](http://www.hilbrointl.com)



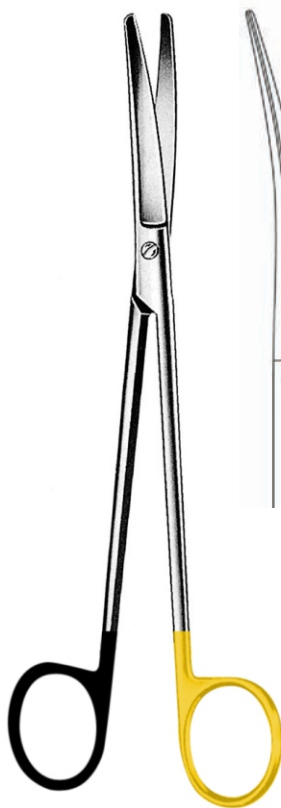
TC SUPER CUT - SCISSORS



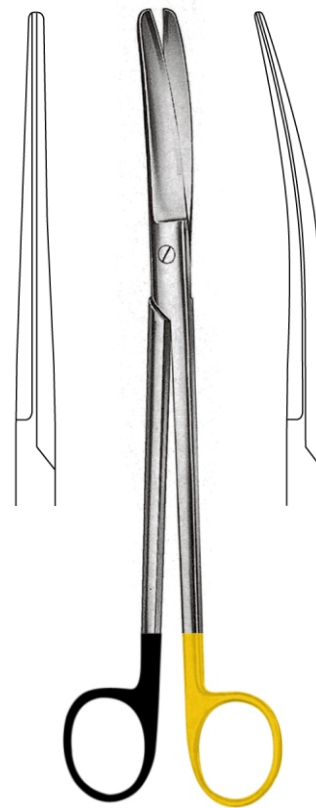
**LLOYD-DAVIES ( GOLIGHER'S )**  
09.5646.25 25.5cm



**SIEBOLD**  
09.5650.24 24.0cm



**WERTHEIM**  
09.5654.14 14.5cm  
09.5654.19 19.5cm  
09.5654.22 22.5cm



**SIMS**  
09.5660.20 20.0cm 09.5661.20  
09.5660.23 23.0cm 09.5661.23



**STANDARD**



**STANDARD**

|            |        |
|------------|--------|
| 11.5010.10 | 10.5cm |
| 11.5010.11 | 11.5cm |
| 11.5010.13 | 13.0cm |
| 11.5010.14 | 14.5cm |
| 11.5010.16 | 16.0cm |
| 11.5010.18 | 18.0cm |
| 11.5010.20 | 20.0cm |
| 11.5010.23 | 23.0cm |
| 11.5010.25 | 25.0cm |
| 11.5010.30 | 30.0cm |



**NARROW**

|            |        |
|------------|--------|
| 11.5012.10 | 10.5cm |
| 11.5012.11 | 11.5cm |
| 11.5012.13 | 13.0cm |
| 11.5012.14 | 14.5cm |
| 11.5012.16 | 16.0cm |
| 11.5012.18 | 18.0cm |
| 11.5012.20 | 20.0cm |
| 11.5012.23 | 23.0cm |
| 11.5012.25 | 25.0cm |
| 11.5012.30 | 30.0cm |



**BONNEY**  
17.5cm



11.5046.17



11.5048.17



**WANGENSTEEN**



|            |        |
|------------|--------|
| 11.5058.15 | 15.0cm |
| 11.5058.23 | 23.0cm |
| 11.5058.25 | 25.0cm |



**ADSON**



|            |        |
|------------|--------|
| 11.5066.12 | 12.0cm |
| 11.5066.15 | 15.0cm |
| 11.5066.19 | 19.0cm |



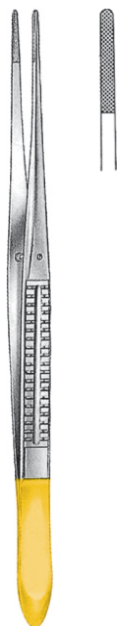
**McINDOE**  
11.5070.15 15.0cm



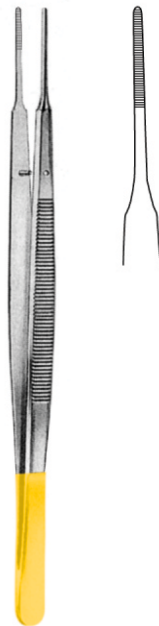
**CUSHING**  
11.5080.17 17.0cm



**POTTS.SMITH**  
11.5084.18 18.0cm  
11.5084.21 21.0cm  
11.5084.25 25.0cm  
11.5084.30 30.0cm



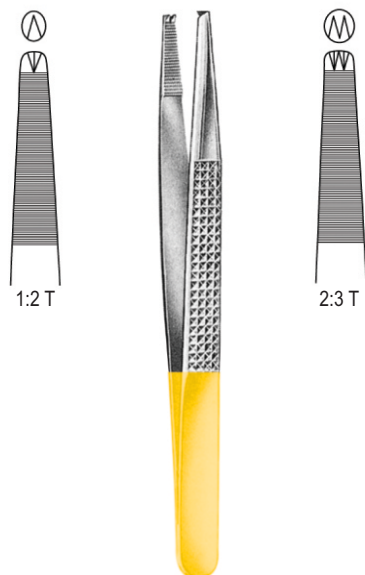
**POTTS.SMITH**  
11.5086.18 18.0cm



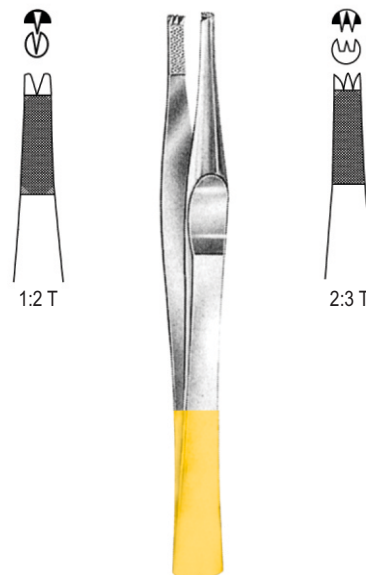
**GERALD**  
11.5094.18 18.0cm



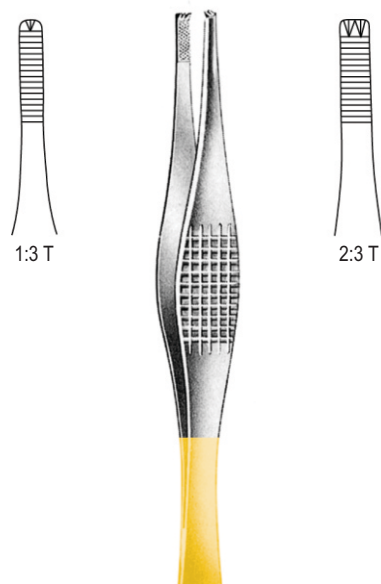
**TAYLOR**  
11.5104.17 17.5cm



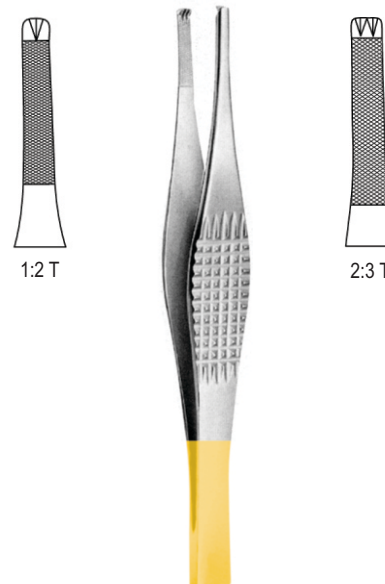
**BONNEY (Heavy Patt.)**  
11.5156.18 18.0cm 11.5158.18



**LANES**  
11.5166.12 12.5cm 11.5168.12  
11.5166.15 15.5cm 11.5168.15  
11.5166.18 18.0cm 11.5168.18  
11.5166.20 20.0cm 11.5168.20

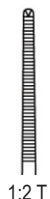


**FERRIS-SMITH**  
11.5172.18 18.0cm 11.5174.18



**RAMSAY**  
11.5178.18 18.0cm 11.5180.18

TC - DRESSING & TISSUE FORCEPS



**McINDOE**  
11.5200.15 15.0cm



**GILLIES**  
11.5204.15 15.0cm



**GERALD**  
11.5218.18 18.0cm



**CUSHING**  
11.5222.17 17.5cm

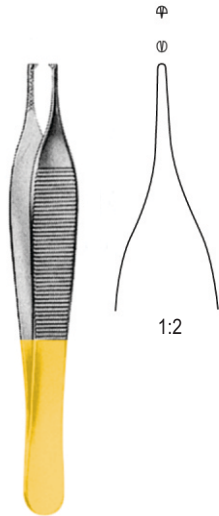


**CUSHING**  
11.5224.17 17.5cm 11.5225.17

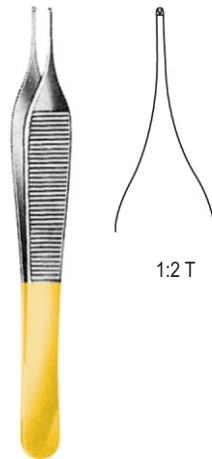


**ADSON**  
11.5246.12 12.0cm  
11.5246.15 15.0cm





**ADSON**  
11.5250.12 12.0cm



**MICRO-ADSON**  
11.5254.12 12.0cm  
11.5254.15 15.0cm



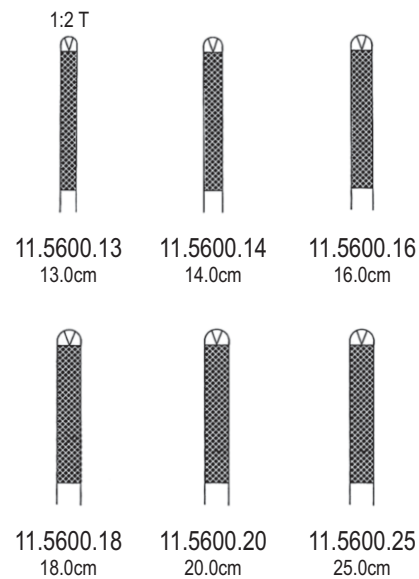
**ADSON-BROWN**  
11.5258.12 12.0cm



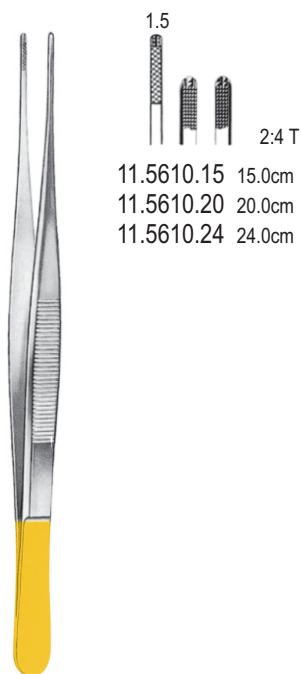
**MICRO ADSON**  
11.5302.12 12.0cm



**Öehler**  
11.5600.30 30.0cm

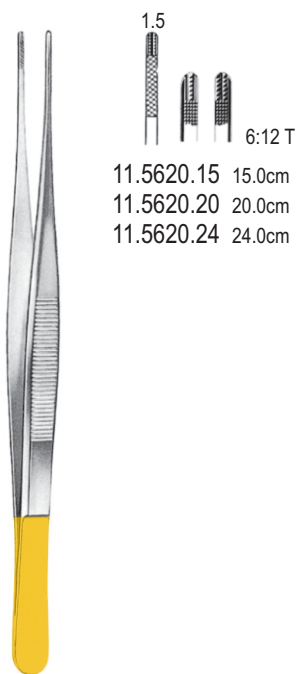


TC - DRESSING & TISSUE FORCEPS



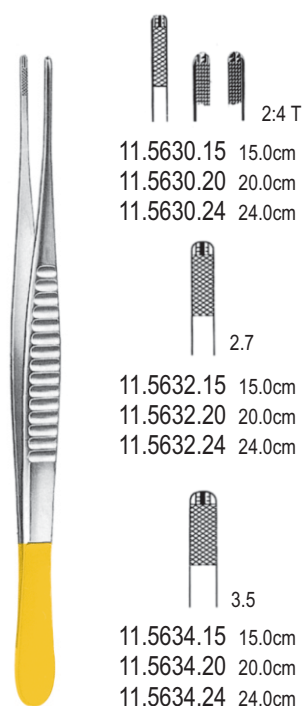
11.5610.15 15.0cm  
11.5610.20 20.0cm  
11.5610.24 24.0cm

DEBAKEY



11.5620.15 15.0cm  
11.5620.20 20.0cm  
11.5620.24 24.0cm

DEBAKEY

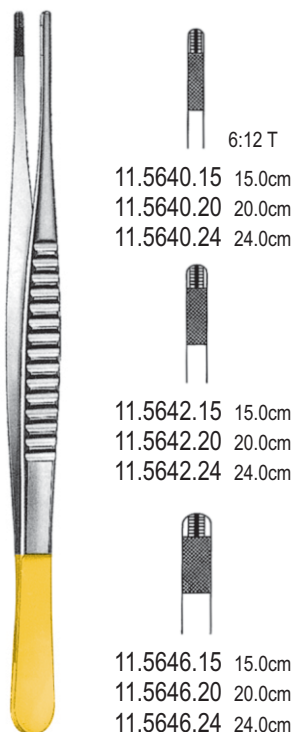


11.5630.15 15.0cm  
11.5630.20 20.0cm  
11.5630.24 24.0cm

11.5632.15 15.0cm  
11.5632.20 20.0cm  
11.5632.24 24.0cm

11.5634.15 15.0cm  
11.5634.20 20.0cm  
11.5634.24 24.0cm

DEBAKEY



11.5640.15 15.0cm  
11.5640.20 20.0cm  
11.5640.24 24.0cm

11.5642.15 15.0cm  
11.5642.20 20.0cm  
11.5642.24 24.0cm

11.5646.15 15.0cm  
11.5646.20 20.0cm  
11.5646.24 24.0cm

DEBAKEY



**DERF**  
21.5012.12 12.5cm



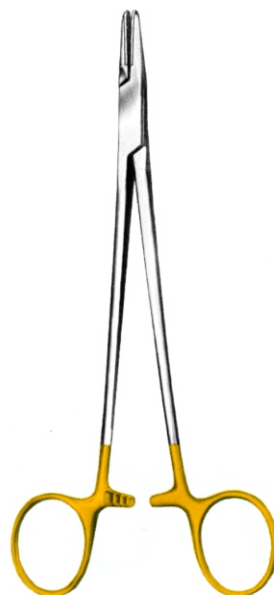
**WEBSTER**  
21.5024.13 13.0cm 21.5026.13  
smooth



**HALSEY**  
21.5030.13 13.0cm 21.5032.13  
smooth



**HEGAR-BAUMGARTNER**  
21.5040.12 12.5cm  
21.5040.14 14.0cm



**MAYO-HEGAR**  
21.5050.14 14.0cm  
21.5050.15 15.0cm  
21.5050.16 16.0cm  
21.5050.18 18.0cm  
21.5050.20 20.0cm  
21.5050.22 22.0cm  
21.5050.24 24.0cm  
21.5050.26 26.0cm  
21.5050.30 30.0cm

16.0cm

18.0cm

20.0cm

24.0cm

26.0cm

30.0cm

TC - SUTURE



**MAYO-HEGAR**

21.5056.16 16.0cm  
21.5056.18 18.0cm  
21.5056.20 20.0cm  
21.5056.24 24.0cm



**NEW ORLEANS**

21.5058.18 18.0cm



**CRILE-WOOD (NEWMAN)**

21.5062.15 15.0cm  
21.5062.18 18.0cm  
21.5062.20 20.0cm  
21.5062.23 23.0cm  
21.5062.26 26.0cm



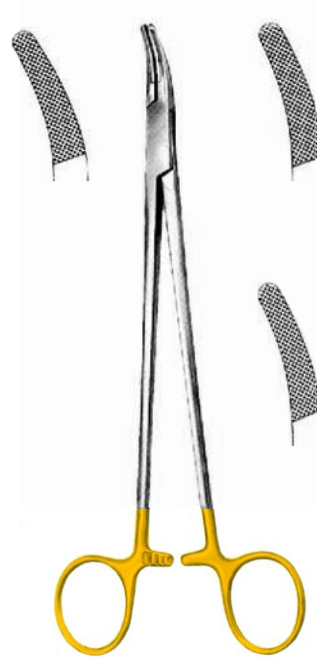
**CRILE-WOOD**

21.5066.13 13.0cm  
21.5066.15 15.0cm  
21.5066.18 18.0cm  
21.5066.20 20.0cm  
21.5066.23 23.0cm



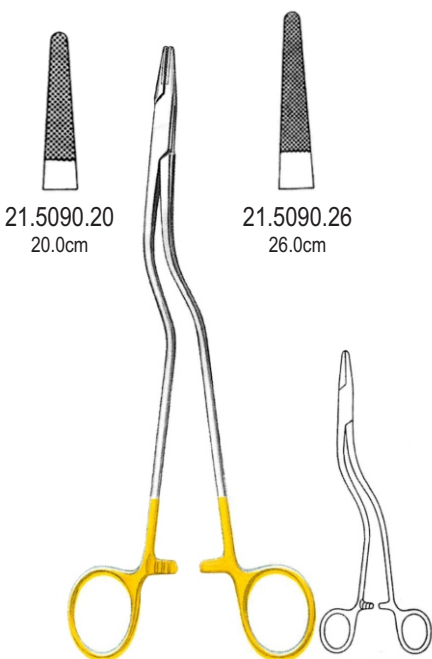
**HEGAR**

21.5070.20 20.0cm  
21.5070.24 24.0cm



**HEANEY**

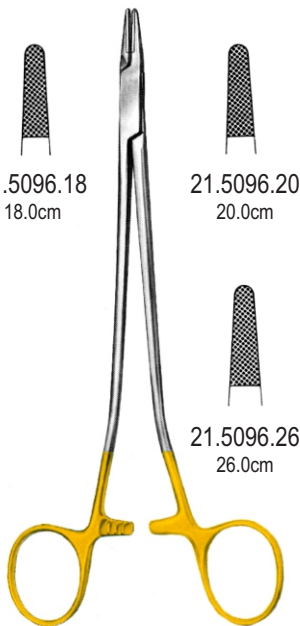
21.5080.21 21.0cm  
21.5080.24 24.0cm  
21.5080.26 26.0cm



21.5090.20  
20.0cm

21.5090.26  
26.0cm

**MASSON-LUETHY**

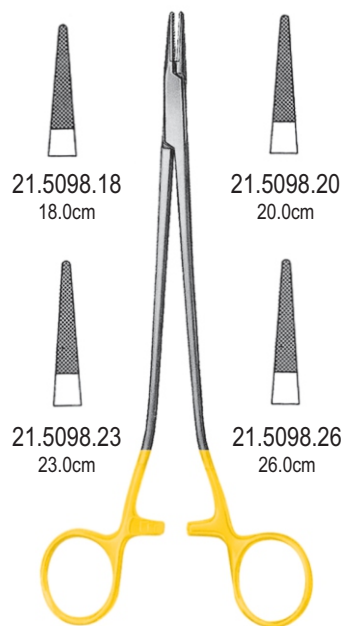


21.5096.18  
18.0cm

21.5096.20  
20.0cm

21.5096.26  
26.0cm

**SAROT**



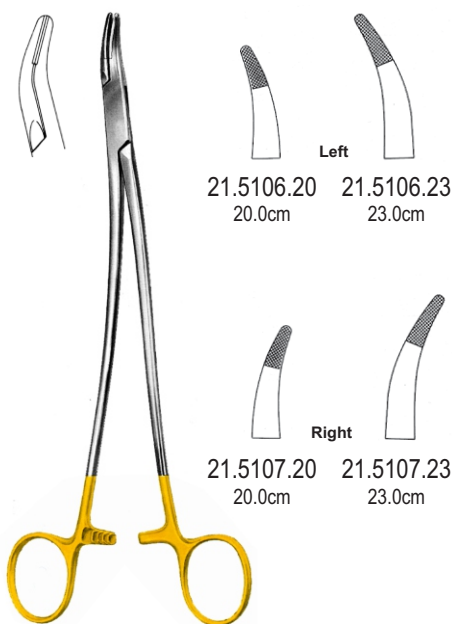
21.5098.18  
18.0cm

21.5098.20  
20.0cm

21.5098.23  
23.0cm

21.5098.26  
26.0cm

**SAROT**  
Delicate



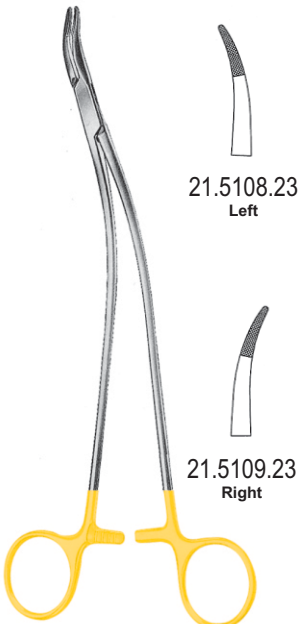
21.5106.20  
20.0cm

**Left**  
21.5106.23  
23.0cm

21.5107.20  
20.0cm

**Right**  
21.5107.23  
23.0cm

**STRATTE**



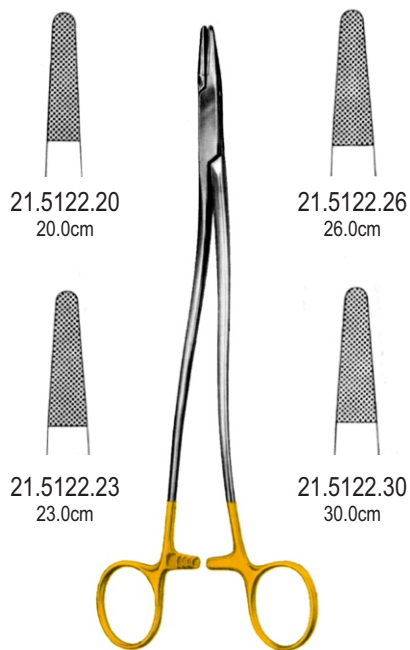
21.5108.23  
**Left**

21.5109.23  
**Right**

**STRATTE**  
23.0cm



**KILNER**  
21.5116.13 13.5cm  
21.5116.16 16.5cm



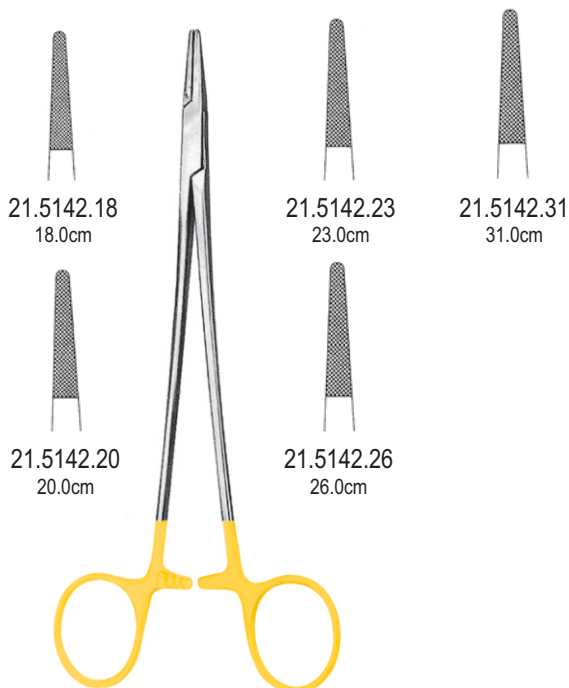
**BOZEMANN**



**FINOCCHIETTO**



**MASSON**



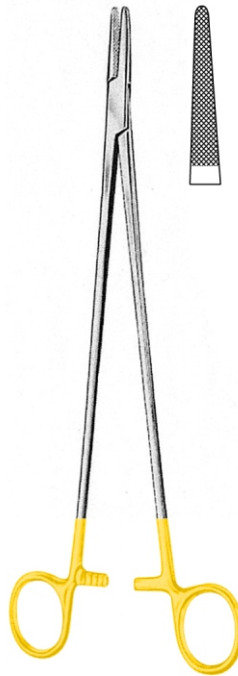
**DeBakey**

21.5142.37 37.0cm

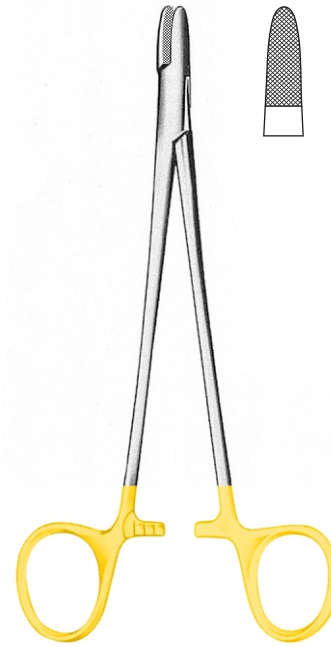




**WANGENSTEEN**  
21.5144.27 27.0cm



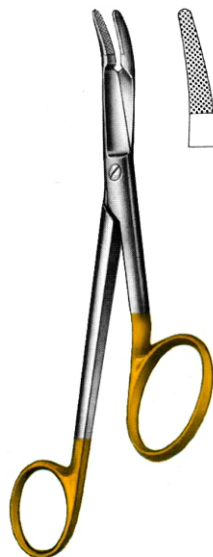
**JAMISON**  
21.5150.23 23.5cm



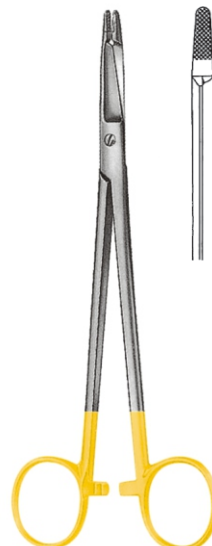
**M.G.H.(mass-general-hospital)**  
21.5156.17 17.0cm



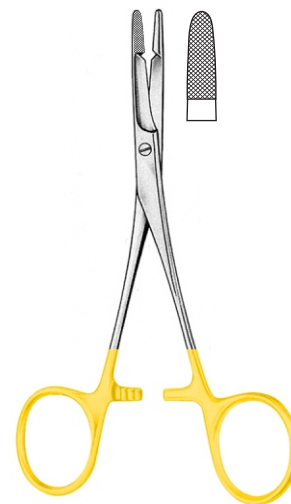
**GILLIES MINI**  
21.5158.14 14.0cm



**GILLIES**  
21.5160.16 16.0cm  
21.5161.16 16.0cm (left hand)



**OLSEN-HEGAR**  
21.5164.16 16.0cm



**OLSEN-HEGAR**  
21.5172.17 17.0cm

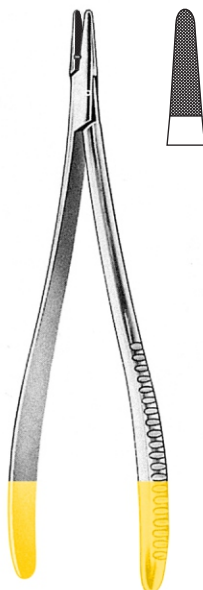
TC - SUTURE



**OLSEN-HEGAR**  
21.5174.14 14.0cm  
21.5174.17 17.0cm



**OLSEN-HEGAR**  
21.5178.12 12.0cm  
21.5178.14 14.0cm  
21.5178.18 18.0cm



**CRILE**  
21.5180.15 15.0cm



**TOENNIS**  
21.5186.18 18.0cm

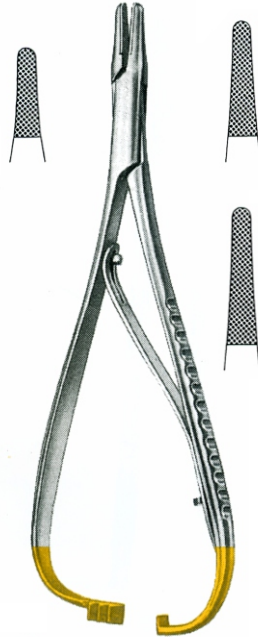


**LICHTENBERG**  
21.5190.20 20.0cm



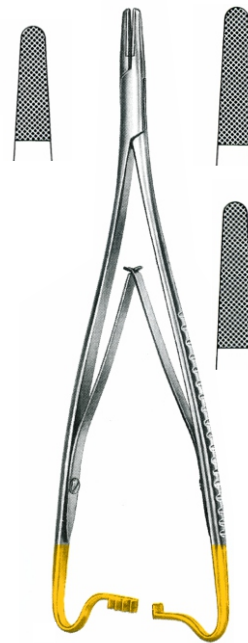
**MATHIEU**

21.5200.14 14.0cm  
21.5200.17 17.0cm  
21.5200.20 20.0cm  
21.5200.24 24.0cm



**MATHIEU**

21.5204.14 14.0cm  
21.5204.17 17.0cm  
21.5204.20 20.0cm



**MATHIEU**

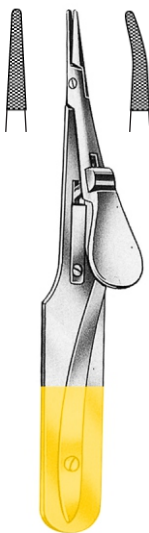
21.5206.17 17.0cm  
21.5206.20 20.0cm  
21.5206.23 23.0cm



**BARRAQUER**

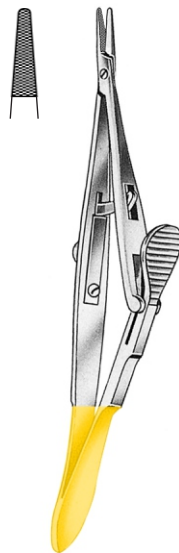
21.5210.16 16.0cm

TC - SUTURE



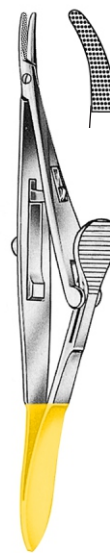
**ARRUGA**

21.5214.14 14.0cm  
21.5215.14 14.0cm



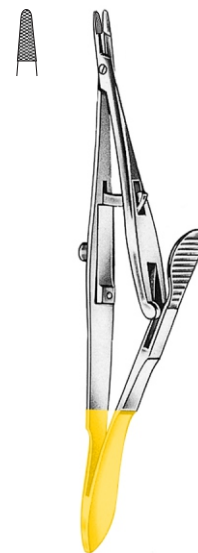
**KALT**

21.5220.14 14.0cm



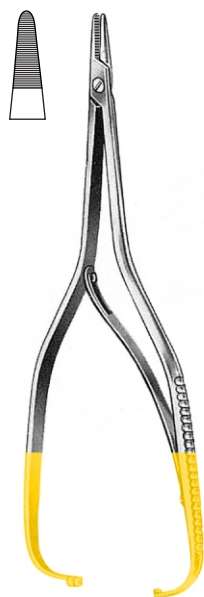
**KALT-ARRUGA**

21.5224.14 14.0cm

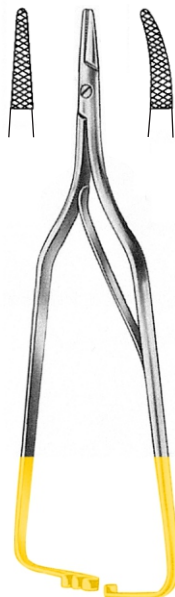


**CASTROVIEJO-KALT**

21.5226.13 13.5cm



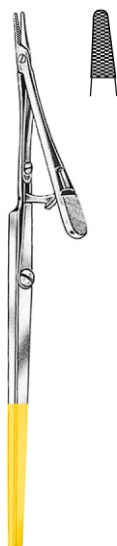
**BOYNTON**  
21.5230.12 12.0cm



**ARRUGA**  
21.5234.16 16.0cm  
21.5235.16 16.0cm



**STEVENSON**  
21.5240.11 11.0cm



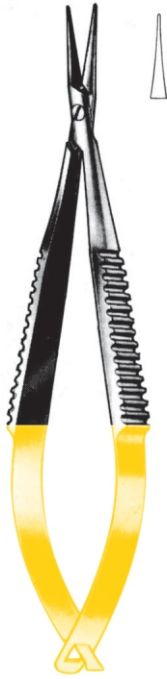
**STEVENS**  
21.5246.13 13.0cm  
21.5246.15 15.0cm



**WECKER**  
21.5250.15 15.0cm



**BARRAQUER**  
21.5256.14 14.0cm



**CASTROVIEJO**  
21.5260.09 9.0cm



**CASTROVIEJO**  
21.5261.09 9.0cm



**CASTROVIEJO**  
21.5262.09 9.0cm



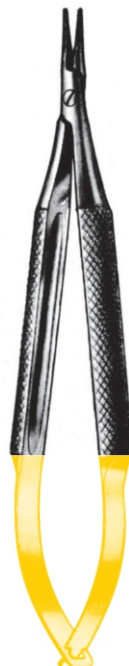
**CASTROVIEJO**  
21.5263.09 9.0cm



**CASTROVIEJO**  
21.5262.14 14.0cm



**CASTROVIEJO**  
21.5263.14 14.0cm

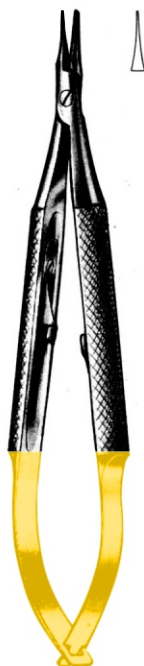


**BARRAQUER**  
21.5266.10 10.0cm

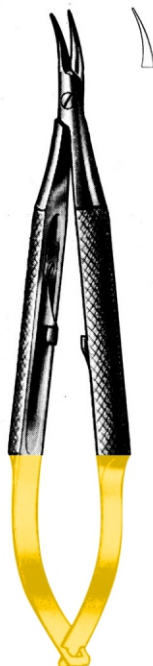


**BARRAQUER**  
21.5267.10 10.0cm

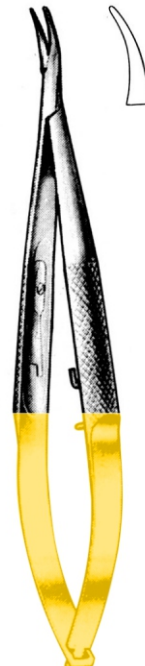
TC - SUTURE



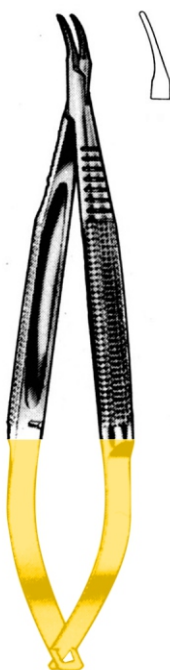
**BARRAQUER-TROUTMAN**  
21.5270.10 10.0cm



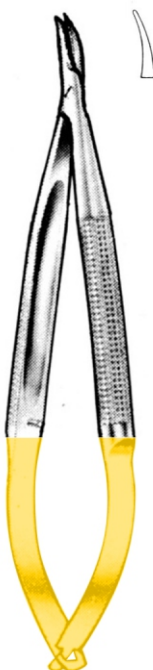
**BARRAQUER-TROUTMAN**  
21.5271.10 10.0cm



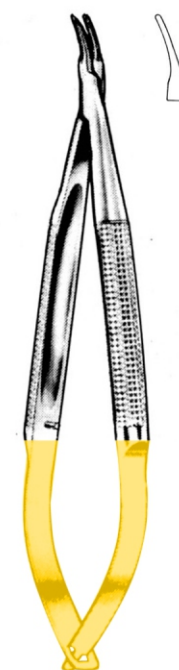
**BARRAQUER**  
21.5276.14 14.0cm



**BARRAQUER**  
21.5277.13 13.0cm



**BARRAQUER**  
21.5280.11 11.0cm



**BARRAQUER**  
21.5282.13 13.0cm





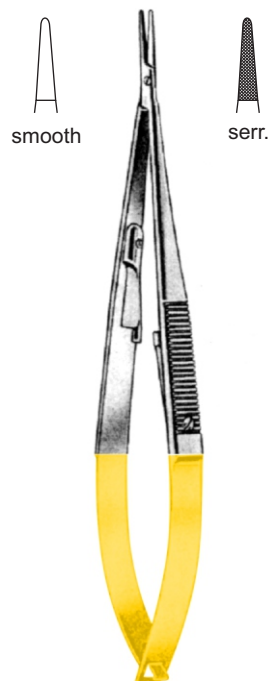
**CASTROVIEJO**

21.5300.14 14.0cm 21.5302.14  
21.5300.17 17.0cm 21.5302.17



**CASTROVIEJO**

21.5301.14 14.0cm 21.5303.14  
21.5301.17 17.0cm 21.5303.17



**CASTROVIEJO**

21.5304.14 14.0cm 21.5306.14  
21.5304.17 17.0cm 21.5306.17



**CASTROVIEJO**

21.5305.14 14.0cm 21.5307.14  
21.5305.17 17.0cm 21.5307.17

TC - SUTURE



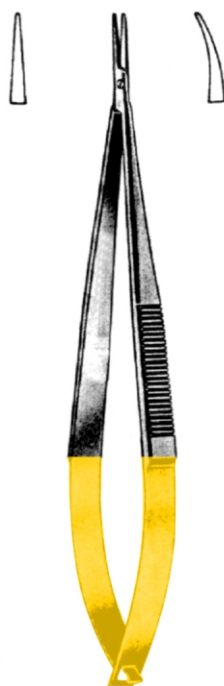
**JACOBSON**

21.5310.18 18.5cm  
21.5310.21 21.0cm



**JACOBSON**

21.5314.18 18.5cm  
21.5314.21 21.0cm



**CASTROVIEJO**

21.5320.10 10.0cm 21.5321.10



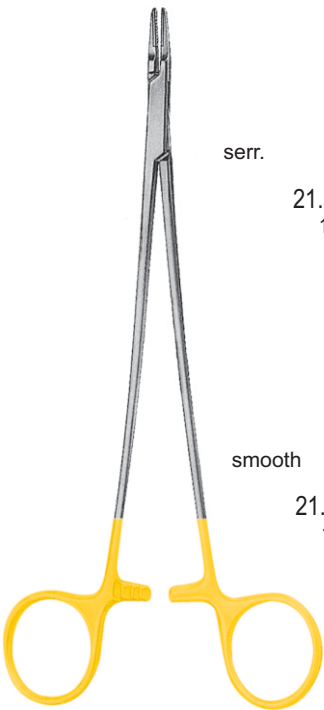
**CASTROVIEJO**

21.5324.10 10.0cm 21.5325.10



**INTRACARDIAC**

|                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |
| 21.5700.18<br>18.0cm                                                              | 21.5700.20<br>20.0cm                                                              | 21.5700.23<br>23.0cm                                                                | 21.5700.26<br>26.0cm                                                                |

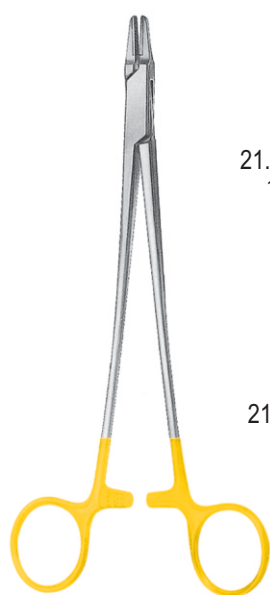


**MICRO-RYDER**

21.5710.13 - 21.5712.23

|                                                                                     |                      |                      |                      |                      |
|-------------------------------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|
|  | serr.                |                      |                      |                      |
|                                                                                     | 21.5710.13<br>13.0cm | 21.5710.15<br>15.0cm | 21.5710.18<br>18.0cm | 21.5710.20<br>20.0cm |
|  | smooth               |                      |                      |                      |
|                                                                                     | 21.5712.13<br>13.0cm | 21.5712.15<br>15.0cm | 21.5712.18<br>18.0cm | 21.5712.20<br>20.0cm |
|                                                                                     |                      |                      |                      | 21.5712.23<br>23.0cm |

TC - SUTURE



21.5720.16  
16.0cm

21.5720.18  
18.0cm

21.5720.20  
20.0cm

21.5720.26  
26.0cm

**FRENCH EYE (RYDER)**

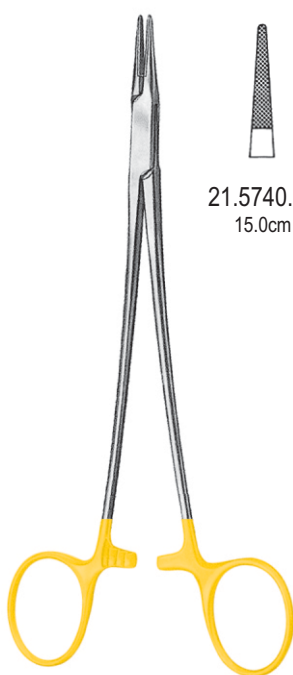


21.5730.14  
14.0cm

21.5730.17  
17.0cm

21.5730.19  
19.0cm

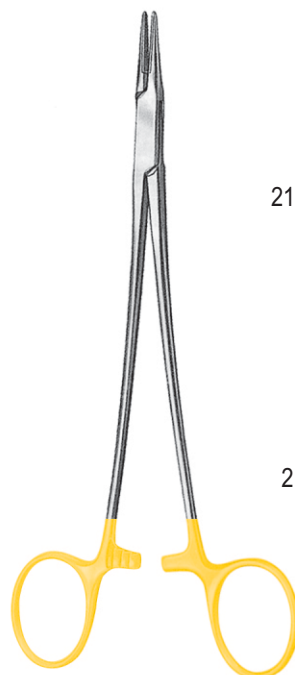
**LEMMON**



21.5740.15  
15.0cm

21.5740.18  
18.0cm

**MICRO-VASCULAR**



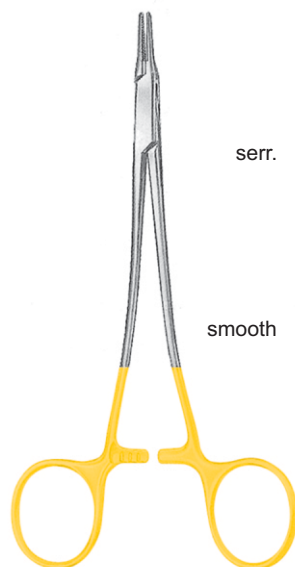
21.5750.18  
18.0cm

21.5750.23  
23.0cm

21.5750.26  
26.0cm

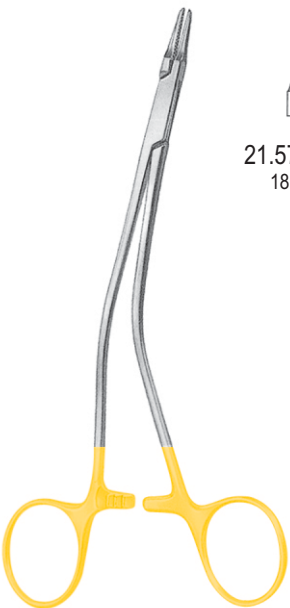
21.5750.30  
30.0cm

**DeBakey**



**EUFRATE-PASQUE**

|        |                                                                                   |                      |                                                                                   |                      |                                                                                     |                      |                                                                                     |                      |
|--------|-----------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|----------------------|
| serr.  |  | 21.5760.14<br>14.0cm |  | 21.5760.15<br>15.0cm |  | 21.5760.18<br>18.0cm |  | 21.5760.20<br>20.0cm |
|        |  | 21.5762.14<br>14.0cm |  | 21.5762.15<br>15.0cm |  | 21.5762.18<br>18.0cm |  | 21.5762.20<br>20.0cm |
| smooth |                                                                                   |                      |                                                                                   |                      |                                                                                     |                      |                                                                                     |                      |



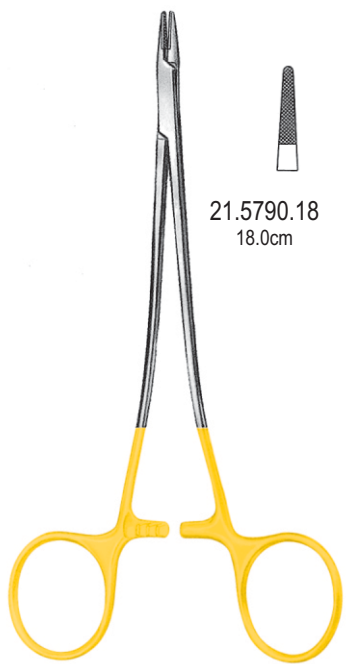
**PARELL**

|                                                                                     |                      |
|-------------------------------------------------------------------------------------|----------------------|
|  | 21.5770.18<br>18.0cm |
|-------------------------------------------------------------------------------------|----------------------|



**SWEDISH**

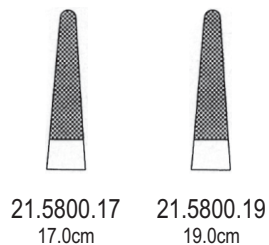
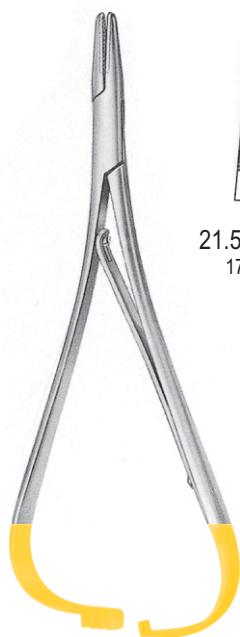
|                                                                                     |                      |
|-------------------------------------------------------------------------------------|----------------------|
|  | 21.5780.14<br>14.0cm |
|-------------------------------------------------------------------------------------|----------------------|



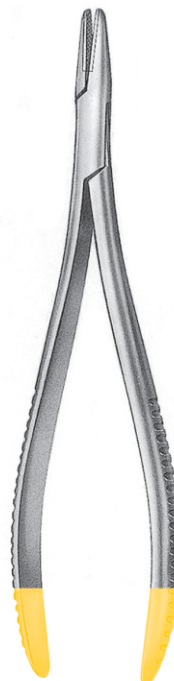
**SENNING**

|                                                                                       |                      |
|---------------------------------------------------------------------------------------|----------------------|
|  | 21.5790.18<br>18.0cm |
|---------------------------------------------------------------------------------------|----------------------|

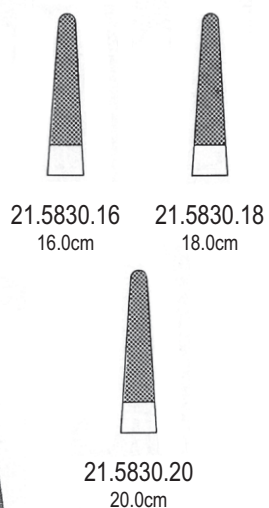
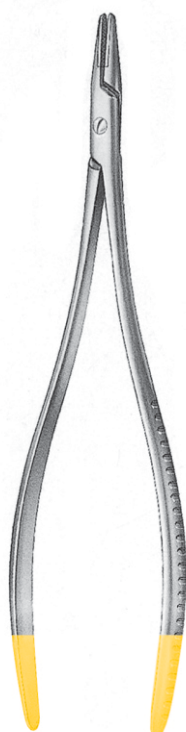
TC - SUTURE



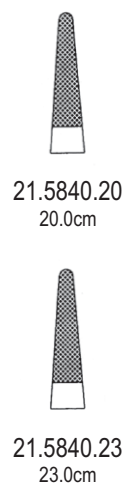
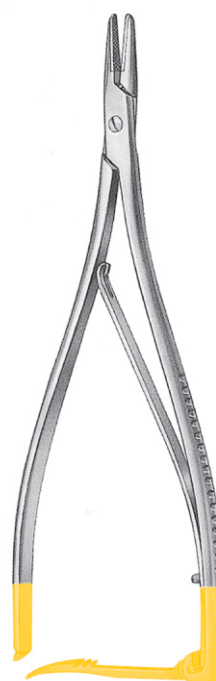
**MATHIEU-STILLE**



**LANGENBECK**

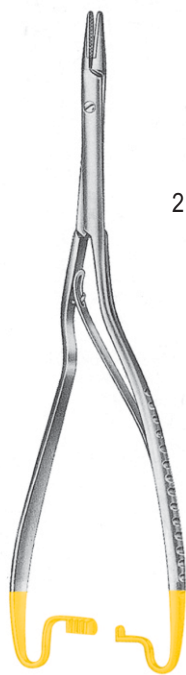


**LANGENBECK**

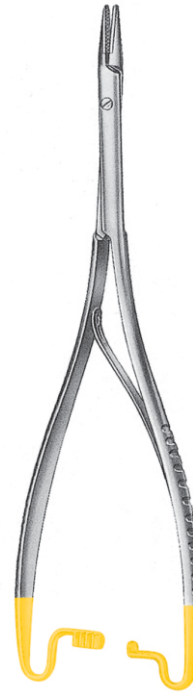
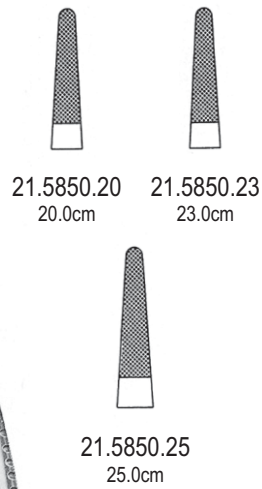


**ZWEIFEL**

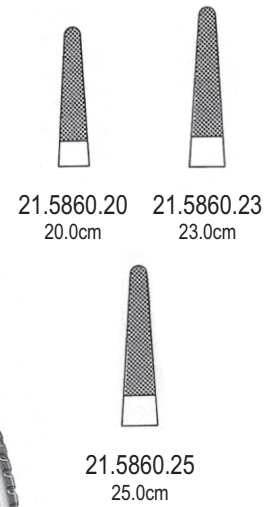




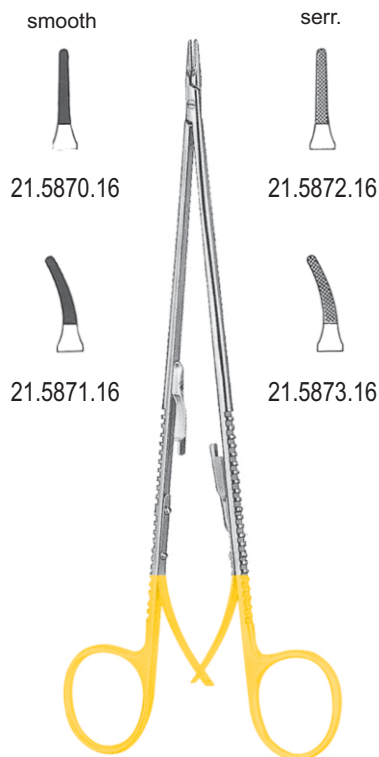
**LUTHY-BECK**



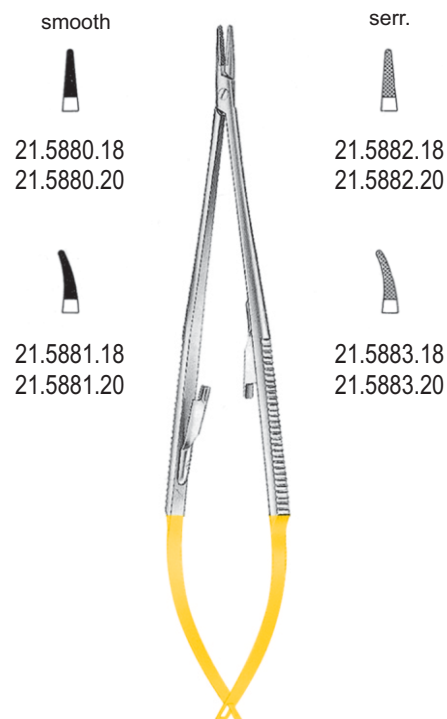
**HOSEL**



TC - SUTURE



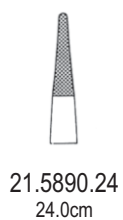
**MAYO-CASTROVIEJO**  
16.0cm



**CASTROVIEJO**  
18.0cm  
20.0cm



**GIANNINI**



smooth



21.5900.13  
13.0cm

serr.



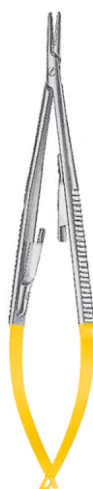
21.5902.13  
13.0cm



21.5901.13  
13.0cm



21.5903.13  
13.0cm



**CASTROVIEJO**

smooth



21.5910.13  
13.0cm

serr.



21.5912.13  
13.0cm



**CASTROVIEJO**

smooth



21.5920.18  
18.0cm

serr.



21.5922.18  
18.0cm



**HEPP-SCHIEDEL**



**MICRO-CASTROVIEJO**

|                   |            |        |                   |            |
|-------------------|------------|--------|-------------------|------------|
| 1.2               | 1.2        | smooth | 1.5               | 1.5        |
|                   |            |        |                   |            |
| 21.5930.14 14.0cm | 21.5931.14 |        | 21.5932.14 14.0cm | 21.5933.14 |
| 21.5930.15 15.0cm | 21.5931.15 |        | 21.5932.15 15.0cm | 21.5933.15 |
| 1.2               | 1.2        | serr.  | 1.2               | 1.2        |
|                   |            |        |                   |            |
| 21.5934.14 14.0cm | 21.5935.14 |        | 21.5936.14 14.0cm | 21.5937.14 |
| 21.5934.15 15.0cm | 21.5935.15 |        | 21.5936.15 15.0cm | 21.5937.15 |



**MICRO-CASTROVIEJO**  
(with catch lock)

|                   |            |        |                   |            |
|-------------------|------------|--------|-------------------|------------|
| 1.2               | 1.2        | smooth | 1.5               | 1.5        |
|                   |            |        |                   |            |
| 21.5940.14 14.0cm | 21.5941.14 |        | 21.5942.14 14.0cm | 21.5943.14 |
| 21.5940.15 15.0cm | 21.5941.15 |        | 21.5942.15 15.0cm | 21.5943.15 |
| 1.2               | 1.2        | serr.  | 1.5               | 1.5        |
|                   |            |        |                   |            |
| 21.5944.14 14.0cm | 21.5945.14 |        | 21.5946.14 14.0cm | 21.5947.14 |
| 21.5944.15 15.0cm | 21.5945.15 |        | 21.5946.15 15.0cm | 21.5947.15 |

TC - SUTURE



**MICRO-CASTROVIEJO**

|            |            |        |            |            |
|------------|------------|--------|------------|------------|
| 1.2        | 1.2        | smooth | 1.5        | 1.5        |
|            |            |        |            |            |
| 21.5970.18 | 21.5971.18 | 18cm   | 21.5972.18 | 21.5973.18 |
| 21.5970.21 | 21.5971.21 | 21cm   | 21.5972.21 | 21.5973.21 |
| 21.5970.23 | 21.5971.23 | 23cm   | 21.5972.23 | 21.5973.23 |

|            |            |       |            |            |
|------------|------------|-------|------------|------------|
|            |            | serr. |            |            |
|            |            |       |            |            |
| 21.5974.18 | 21.5975.18 | 18cm  | 21.5976.18 | 21.5977.18 |
| 21.5974.21 | 21.5975.21 | 21cm  | 21.5976.21 | 21.5977.21 |
| 21.5974.23 | 21.5975.23 | 23cm  | 21.5976.23 | 21.5977.23 |



**MICRO-CASTROVIEJO**  
(with catch lock)

|            |            |        |            |            |
|------------|------------|--------|------------|------------|
|            |            | smooth |            |            |
|            |            |        |            |            |
| 21.5990.18 | 21.5991.18 | 18cm   | 21.5992.18 | 21.5993.18 |
| 21.5990.21 | 21.5991.21 | 21cm   | 21.5992.21 | 21.5993.21 |
| 21.5990.23 | 21.5991.23 | 23cm   | 21.5992.23 | 21.5993.23 |

|            |            |       |            |            |
|------------|------------|-------|------------|------------|
|            |            | serr. |            |            |
|            |            |       |            |            |
| 21.5994.18 | 21.5995.18 | 18cm  | 21.5996.18 | 21.5997.18 |
| 21.5994.21 | 21.5995.21 | 21cm  | 21.5996.21 | 21.5997.21 |
| 21.5994.23 | 21.5995.23 | 23cm  | 21.5996.23 | 21.5997.23 |



25.5690.18

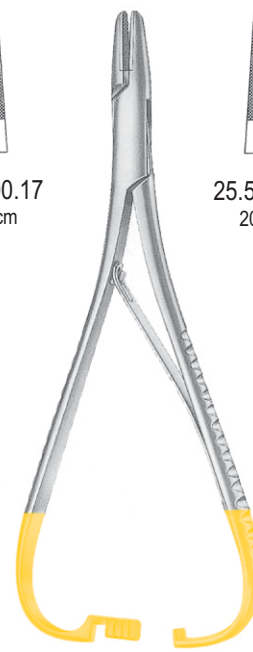
**BERRY**



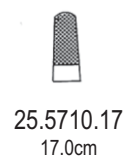
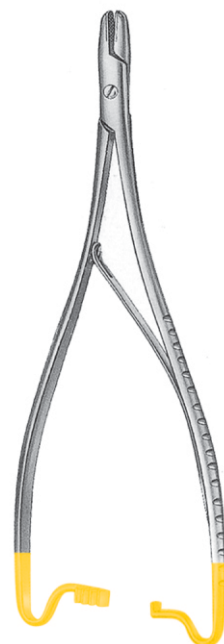
25.5700.17  
17.0cm



25.5702.20  
20.0cm



**MATHIEU-BERRY**



25.5710.17  
17.0cm



25.5712.20  
20.0cm

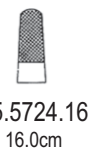
**MAYO-HAUBERISSER**



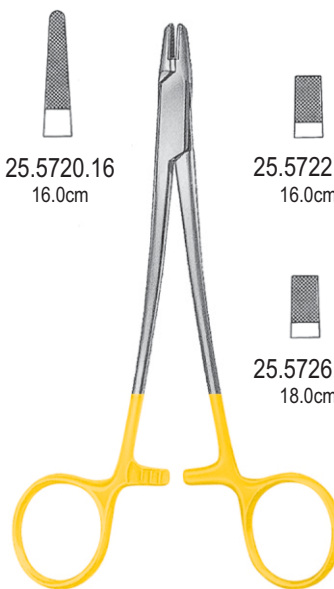
25.5720.16  
16.0cm



25.5722.16  
16.0cm



25.5724.16  
16.0cm



25.5726.18  
18.0cm

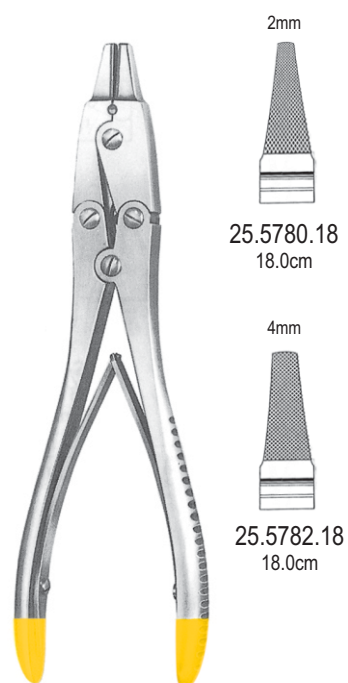
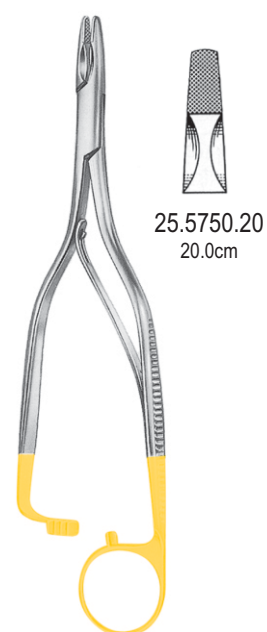
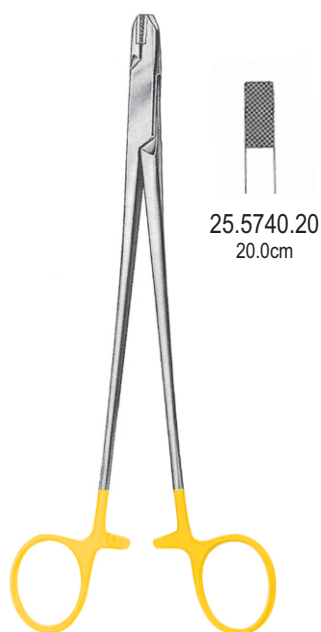


25.5728.18  
18.0cm

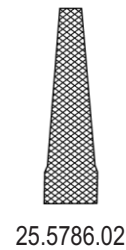
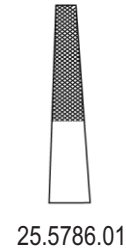
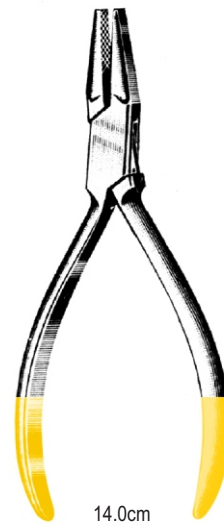
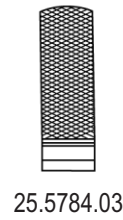
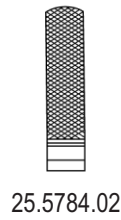
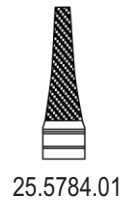
**MAYO-HAUBERISSER**

TC - BONE SURGERY

TC - BONE SURGERY







TC - BONE SURGERY

TC - BONE SURGERY



25.5820.18  
18.0cm



25.5830.18 18.0cm  
25.5830.22 22.0cm



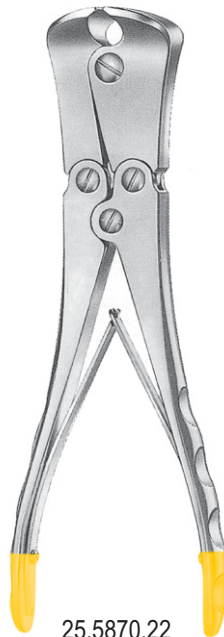
25.5840.20  
20.0cm



25.5850.16  
16.0cm



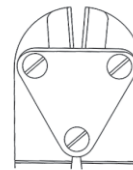
25.5860.18  
18.0cm



25.5870.22  
22.0cm



25.5880.24  
24.0cm



25.5890.24  
24.0cm

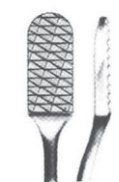


**KIRSCHNER**  
25.5900.47 47.0cm

TC - BONE SURGERY



**LEWIS**  
18.0cm



45.5674.18  
fine



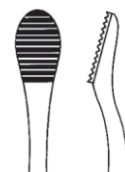
45.5676.18  
coarse



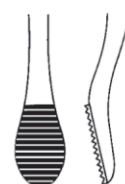
**MILLER**



45.5680.18  
18.0cm



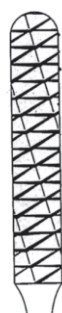
45.5681.18  
18.0cm



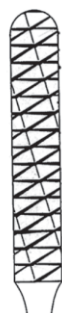
**COTTLE**  
18.0cm



45.5686.01



45.5686.02



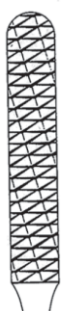
45.5686.03



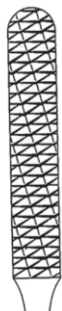
45.5686.04



45.5686.05



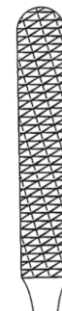
45.5686.06



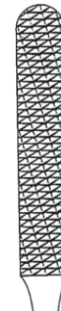
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45.5686.08



45.5686.09



45.5686.10



**FOMON**  
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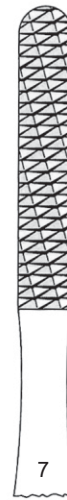
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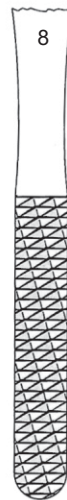
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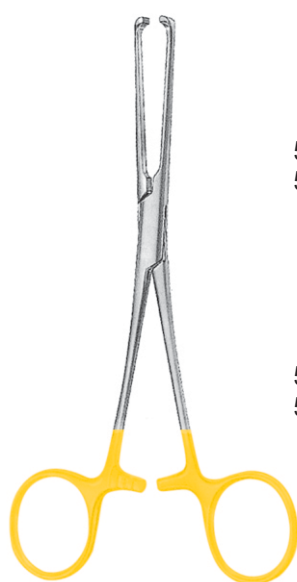
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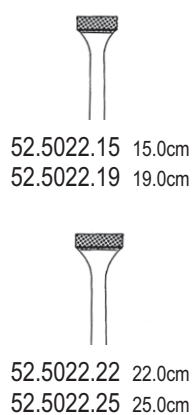
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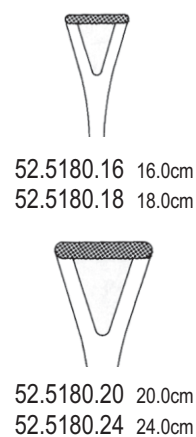
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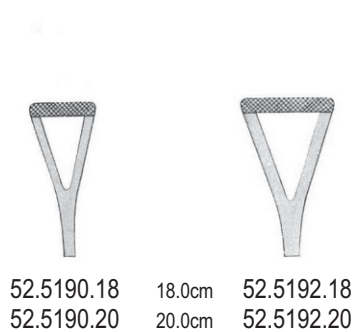
ALLIS



BABCOCK

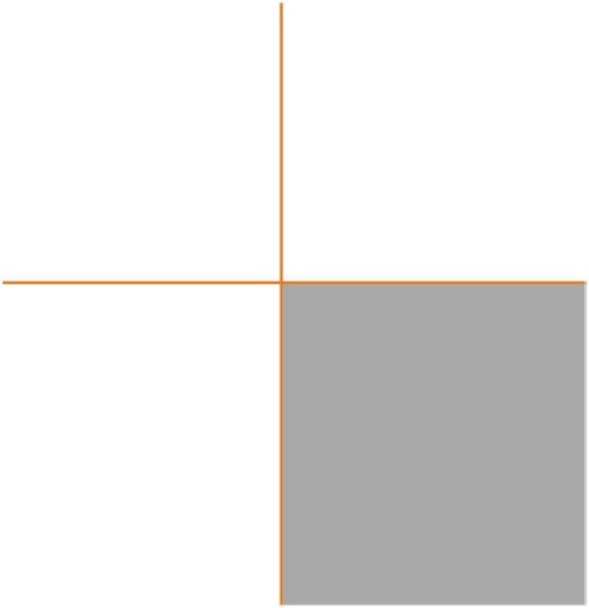


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Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains.



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| <b>WIRE</b> Twisting Forceps                        | 25-053 |
| <b>WIRE</b> Twisting Plier                          | 25-053 |
| <b>WIRE</b> Twisting Plier                          | 25-054 |
| <b>WIRE</b> Twisting Plier                          | 25-053 |
| <b>WIRE</b> Twisting Plier                          | 25-053 |
| <b>WIRE</b> Twisting Plier                          | 25-053 |
| <b>WIRE</b> Twisting Wire                           | 25-053 |

## Z

|                              |        |
|------------------------------|--------|
| <b>ZWEIFEL</b> Needle Holder | 21-047 |
|------------------------------|--------|



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